

# FireDrench



## FireDrench

FIRE SPRINKLER PUMP SET

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**APPLICATIONS**  
ENGINEERING LTD



# FireDrench

## Installation and operating instructions

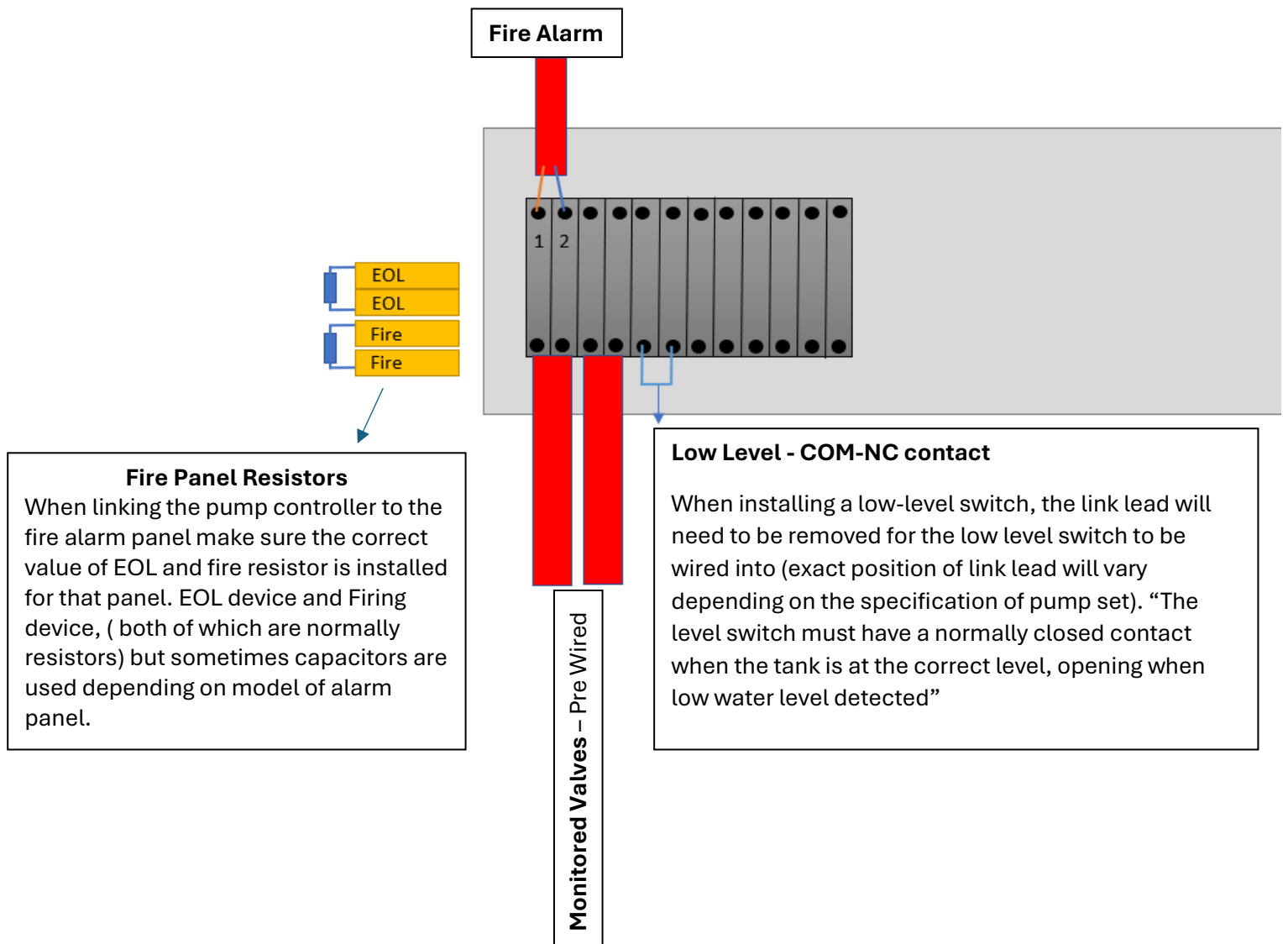
- *The Martech Watchdog controller has a proven track record and has been used on more than 50% of BS9251 sprinkler systems when a pump set is required*
- *All pumps are Ebara, either horizontal or vertical orientation. All pumps are IE2 or IE3 complaint as required*
- *Pressure switches are twin diaphragm pressure switches, completely independent of each other to ensure compliance with BS9251:2021*
- *Riser rig, including monitored isolation valves, flow switch, pressure switches, weekly test valve, pressure gauge and check valve are all manufactured and assembled by Applications Engineering*
- *The bases can be manufactured to fit customer requirements and are rubber mounted to the floor*
- *All wiring is in FP200 Fire Proof cable*
- *The sprinkler pump set is wired for easy connection to a Sprinkler alarm panel or a Fire alarm panel with connections readily available to install end of line resistors and firing resistors*
- *Additionally, separate connections are available for high level alarms and low level alarms*

# FireDrench Wiring

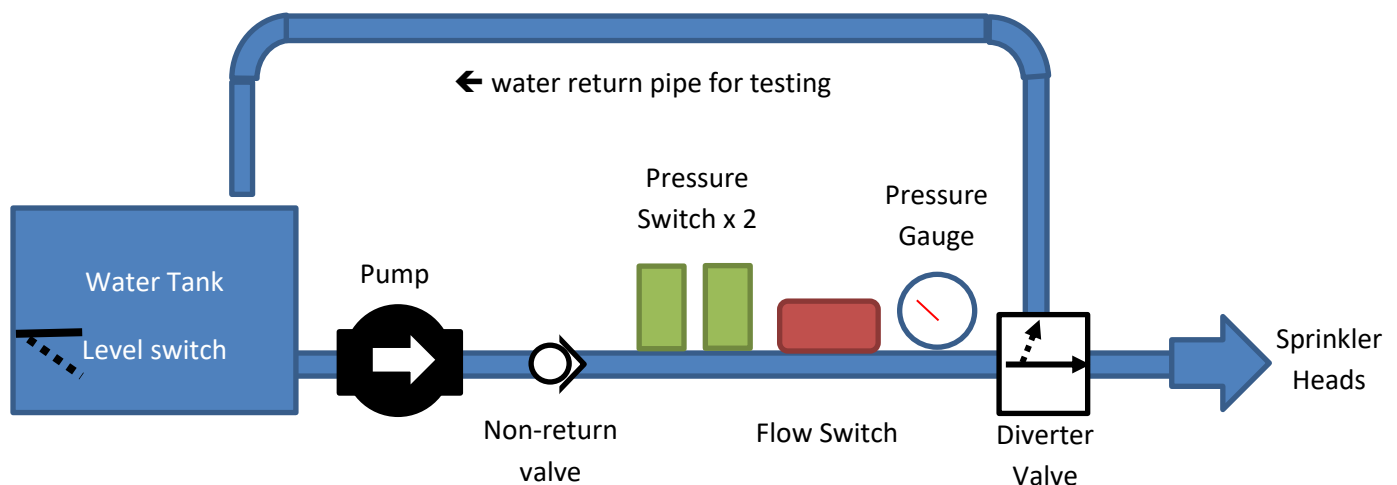
The FireDrench pump sets come fully wired for ease of installation and therefore little wiring is required on site.

No direct wiring into the PCB is required, only wire into the din rail on the rear of the enclosure on site.

Below is a diagram for all the on site wiring required



## SUGGESTED\* SYSTEM CONFIGURATION



### Important Note\*

The above is illustrative ONLY and it is the responsibility of the installer to ensure compliance with all relevant and current standards relating to Fire Sprinkler systems, including but not limited to regulations for electrical installations, water supplies, plumbing and pipework.

Martech accepts no responsibility for non-compliance with the standards relating to the installation and choice of components.

### Pressure Switches

Pressure switches are required to be closed at pressure, opening on low pressure, and must be set correctly. For optimum pressure switch settings, please refer to pump manufacturer's advice, and configure in accordance with the latest BS standard for Fire Sprinkler systems.

### Flow Switch

Flow switch is required to be closed at zero flow, opening when flow is detected. The flow switch may optionally be wired for close on flow operation.

### Pump

Watchdog2 is compatible with most commercially available single-phase pumps up to 3kW (13A at 240Vac), and is fused to 15A (T) as standard. Martech recommends Grundfos pumps.

### Diverter Valve

Watchdog2 has a change-over relay for use with a diverter valve (max 5A at 240Vac), and is fused to 0.5A/500mA (T) as standard

**Pumps with integral pressure switches and other advanced features should not be used unless these features are disabled. Use of these types of pumps may cause problems during use including false alarms or failure to operate in the event of fire.**

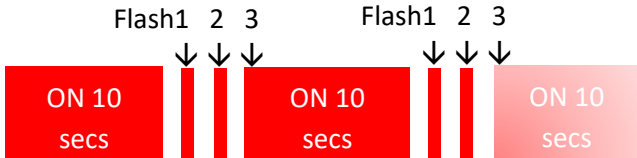
## OPTIONAL FEATURES – POWER LOSS ALARM

On boards where J35 is fitted (bottom RH corner), an optional rechargeable NimH battery (not supplied as standard) can be fitted to provide an audible alarm every 10 minutes in the event of a power failure. This battery is not used to maintain the main on-board clock, and will not run the pump in the event of a fire.

Battery type. RS 1769373 <https://uk.rs-online.com/web/p/rechargeable-battery-packs/1769373>



## LED FUNCTIONS

| LED              | Function                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PUMP (yellow)    | ON = pump running                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| FAULT (red)      | <p>The LED stays on for 10 seconds then flashes according to the fault. At the last flash the LED stays on for 10 seconds before the sequence is repeated (see below example for 3 flashes).</p> <p>2 flashes - Auto_Test_Failure<br/> 3 flashes - Low_Water<br/> 4 flashes - Pressure_Switch1_Failure<br/> 5 flashes - Pressure_Switch2_Failure<br/> 6 flashes - Excessive_Operation<br/> 7 flashes - Phase_Failure (not on WD2)<br/> 8 flashes - Maximum_Run_time<br/> 9 flashes - Monitored_Valve_Failure (not on WD2)<br/> 10 flashes - Possible Fire (no flow detected)</p>  |
| FIRE! (red)      | Flash 2Hz (0.5 secs) = Fire mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| SERVICE (blue)   | Flash 1Hz (1 sec) = Service required                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| TESTING (orange) | <p>Flash every 2 seconds = Dump Valve open</p> <p>ON = Remainder of auto test in progress OR</p> <p>ON = Wait period after operation (e.g., after jockey mode)</p> <p>Also</p> <p>ON when a USB stick is inserted and read/write is in progress (sounder sounds when read/write is complete)</p>                                                                                                                                                                                                                                                                                                                                                                    |
| POWER (green)    | Mains power available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

## BUTTON FUNCTIONS

| Function                              | Button Press                                                                                                                    | Action                                                                                                                                                 |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Run pump                              | TEST button, short press (>1<5 secs)                                                                                            | Runs pump for 10 seconds (no dump valve operation)                                                                                                     |
| Run periodic Automatic test.          | TEST button >10 secs (beep)                                                                                                     | Run full test with dump valve etc.<br>See periodic automatic test below                                                                                |
| Reset periodic test time.             | RESET button > 10 secs (beep)<br>Followed immediately by<br>TEST button >10 secs (beep)                                         | Resets periodic test time (time of day when auto test will run). The frequency of the test (e.g., every 7 days) is configured in the USB settings file |
| Silence sounder                       | RESET button, short press (>1 <2 secs)                                                                                          | Silences sounder until next weekly test                                                                                                                |
| Stop pump                             | RESET button >10 secs, when in fire mode or possible fire mode                                                                  | Stops pump, but only after initial jockey run period..<br>Will resume if pressure not restored or flow is present.                                     |
| Clear faults<br>Resets annual service | RESET button >25 secs<br>Beeps after 10 secs, keep held for further 10secs, beeps. Optionally hold for further 5 seconds, beeps | Clears faults after 20 seconds (second beep)<br>Optionally resets annual service after further 5 seconds (25s total, third beep)                       |
| FIRE MODE                             | TEST + RESET >10 seconds                                                                                                        | Forces FIRE MODE                                                                                                                                       |

## PERIODIC AUTOMATIC TEST SEQUENCE (ALSO KNOW AS WEEKLY SELF-TEST)

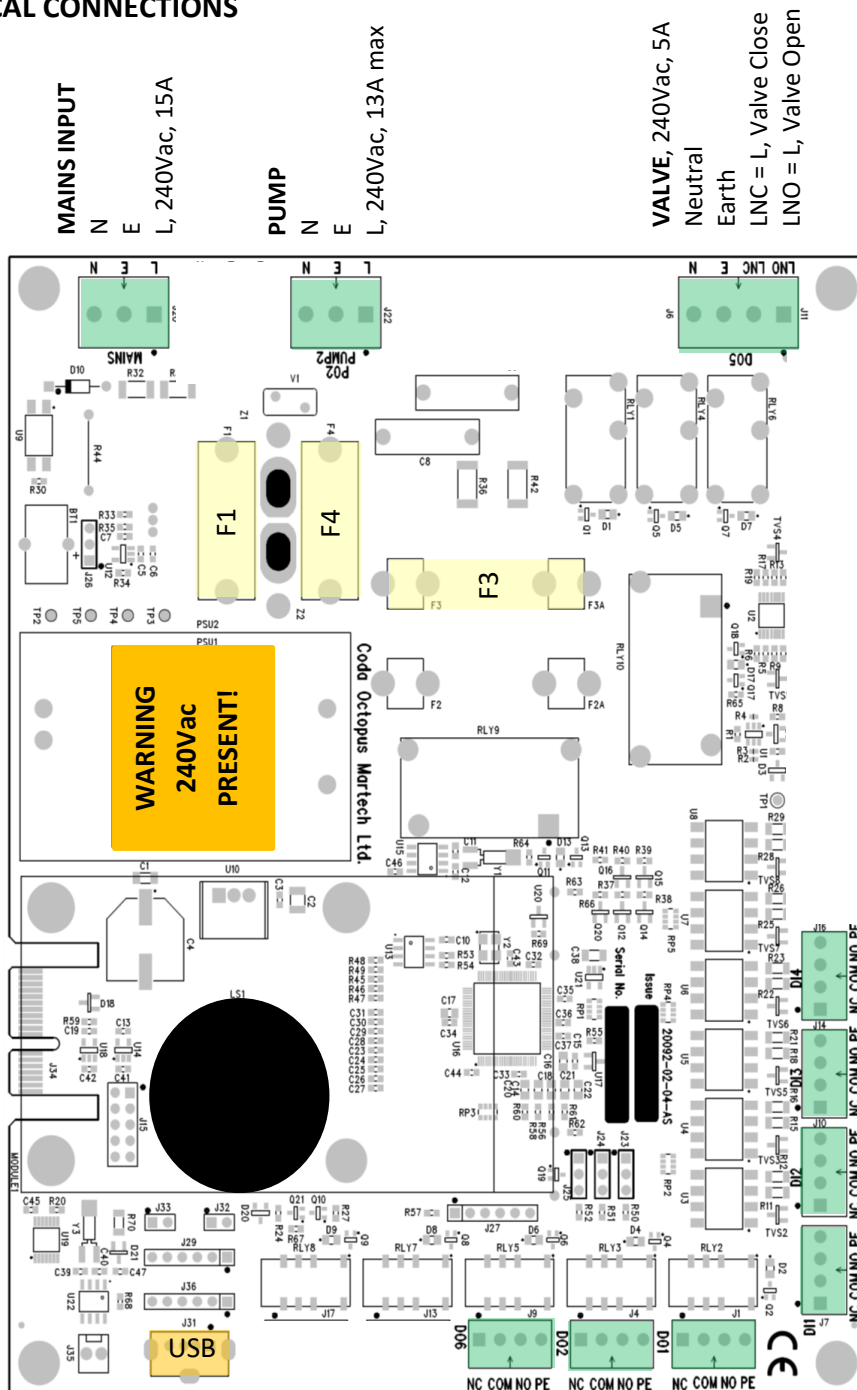
|                                                                                                                |                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Periodic Automatic Test</p> <p>Refer to Button Functions above to reset the time of day to run the test</p> | <p>Runs periodic test according to time period in settings file.</p> <p>e.g., weekly.<br/>(default = 7 days)</p> | <ol style="list-style-type: none"> <li>1. Open dump valve, FLASH TESTING LED</li> <li>2. Wait for pressure drop</li> <li>3. Confirm both pressure sensors detect pressure drop (times out after defined autotest period → fault)</li> <li>4. Close dump valve as soon as pressures switches activated</li> <li>5. Run pump (PUMP LED ON)</li> <li>6. TESTING LED to ON</li> <li>7. Confirm both pressure sensors reinstated/closed</li> <li>8. Run on for X secs after pressure reinstated (jockey run period)</li> <li>9. If any faults, set fault o/p</li> <li>10. TESTING LED OFF</li> </ol> |
|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

# Watchdog2 Fire Sprinkler Controller Installation Guide

Watchdog2 Installation Guide 20092-04-15-HBK iss 05\_final.docx

## ELECTRICAL CONNECTIONS

**WARNING: DO NOT OVER-TIGHTEN TERMINALS!**  
Power terminals 0.5Nm max. Overtightening may result in damage to the terminal



### CURRENT RATING AND FUSING:

F1 - PCB control electronics 500mA(T)

F3 - PUMP max 13A\* at 230Vac

Factory fitted with fuse 15A\*(T)

F4 - VALVE (DO5), max 5A at 230Vac

Factory fitted with fuse 500mA(T)

### DO NOT EXCEED MAXIMUM CURRENT

*\*Max running current. Where peak start-up current exceeds 15A, causing fuse to blow, fuse up to 20A(T) may be fitted.*

### OUTPUTS

Volt free change-over contacts, max 5A ▼▼▼

### LOW WATER ALARM

Com-NO contact closes when Low Water detected  
Com-NC contact opens when Low Water detected

### FAULT

Com-NC contact open when no fault, closes when fault detected or power failure  
Com-NO, opens on fault or power failure

### FIRE ALARM

Com-NO contact closes when in Fire Mode  
Com-NC contact opens in Fire Mode

INPUTS, 12Vdc on COM terminal ▲▲▲

**WARNING: DO NOT OVER-TIGHTEN TERMINALS!**  
Signal terminals 0.25Nm max. Overtightening may result in damage to the terminal

PCB viewed when lid folded downwards for installation. Some circuit boards (PCB) may have additional components or connectors fitted, which are not used.

**FLOW SWITCH** can be wired NC-COM where the flow switch opens on flow (closed when no flow is present).

Flow Switch Can also be wired NO-COM where the flow switch closes on flow. In this configuration, the COM-NC contacts must also be linked.

**WATER LEVEL**  
Com-NC contact opens on low water

**FLOW SW**, see note

**PRESSURE SW2**  
As per P SW1

**PRESSURE SW1**  
Com-NC contact OPENS on low pressure, closed on High pressure

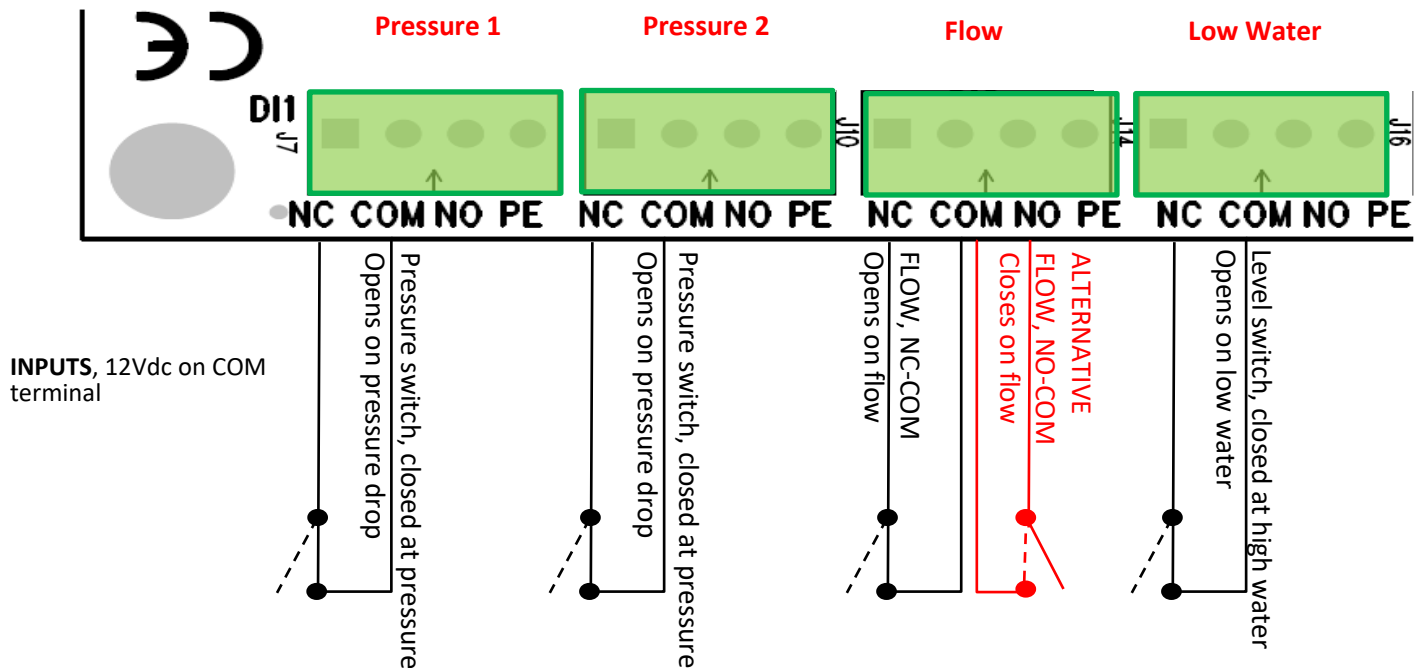


# Watchdog2 Fire Sprinkler Controller Installation Guide

Watchdog2 Installation Guide 20092-04-15-HBK iss 05\_final.docx

## SENSOR WIRING DETAIL

NOTE for correct operation and compliance with BS9251-2021, dual pressure sensors and a flow switch must be fitted. ALL sensors are CLOSED during normal operation (high pressure, zero flow, water high) and open when these conditions change (e.g. in the event of a sprinkler opening). WD2 does however also support other flow switches which close on flow only, shown below in red. In this configuration, the NC-COM contacts MUST be linked.



If a low water sensor is not required the input MUST be linked across to prevent alarms.

If the alternative flow connection (COM-NC) is used, COM-NO MUST be linked across

## BACK-UP BATTERY ENABLING

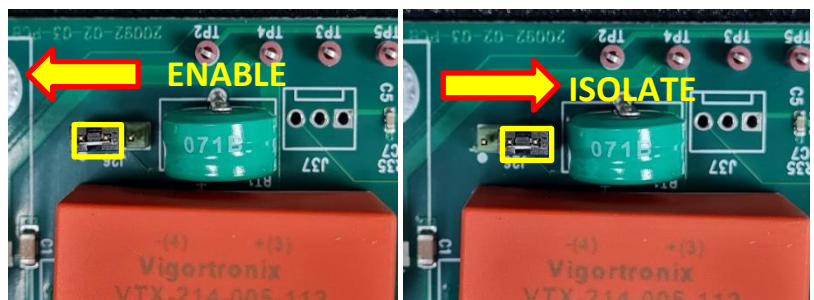
Battery Link (J26) has been fitted as shown, to isolate the battery and prevent the battery running down when in storage.

Before installing, move battery link (J26) as shown to the 2 pins furthest from the battery.

**This is essential to ensure that the clock is maintained when no power is applied.**

The battery is rechargeable and requires the unit to be power on for >24hours to achieve a full charge.

The battery **ONLY** maintains the clock and does not allow operation.



## SETTINGS AND CONFIGURATION

**Watchdog2 is factory-configured with standard settings that should be suitable for most installations. Where required, these settings can be changed. See below for instructions on downloading advanced settings from a USB memory stick.**

Settings file can also be configured and downloaded using our ON-LINE TOOL at [www.firesprinklerwatchdog.com](http://www.firesprinklerwatchdog.com), or using the QR code



**Using a USB stick to configure settings.** Settings can be edited on any PC/Laptop and uploaded to the Watchdog2 from a USB memory stick (FAT32 format).

**ALWAYS USE A CLEAN/EMPTY USB STICK.**

The USB connector is internal as shown on the electrical connection diagram. The settings text file is named **settings.txt** and can be edited in Windows Notepad. The file must be a plain text file format. The text file must be saved to a memory stick in the root/top level (not in a sub-folder). When a Settings file is detected on the USB stick, all LEDs flash to indicate new settings being uploaded. After uploading, the system will beep and the LEDs will stop flashing. The settings text file on the USB stick is also renamed to avoid inadvertent re-use. **ALWAYS WAIT FOR SOUNDER BEFORE REMOVING USB STICK**

The below is an example of the recommended default settings text file (settings.txt) that is pre-installed.

*Text in green is for information only and not part of the file*

```
Current Time:-11:30; enter the time here, WD2 will update to this when USB inserted
Current Date:-16/02/2023; enter date here, WD2 will update to this when USB inserted
Service Reminder:-ON; ON or OFF, sets whether service reminder is active
Service Interval:-12; 1-12 Months, period for service reminder
Low Water Delay:-10; 0 to 60 Seconds, delay for low water detection
Maximum Run:-OFF; DISABLED ON WD2
Maximum Run Time:-480; 1 to 480 Minutes DISABLED ON WD2
Excessive Operation Limit:-7; 0 to 30 Starts/week, jockey runs allowed, (0=off)
Jockey Pump Duration:-20; 5 to 120 Seconds, length of time pump runs for Jockey run
Flow Switch Delay:-3; 0 to 25 Seconds, trigger delay for flow switch
Pressure Switch Delay:-3; 0 to 10 Seconds, trigger delay for Pressure switch
Fire Mode Wait:-5; 0* to 30 Secs. Window for Possible Fire Mode trigger (* see note below)
Device Name:-INSTALLATION INFO (no ;)insert installation info here such as location
INSTALLATION INFO (no ;)insert installation info here such as location
INSTALLATION INFO; three lines each less than 20 characters inc spaces (; after 3rd line ONLY)
Installer Name:-INSTALLER NAME (no ;) insert YOUR company name/details
INSTALLER NAME (no ;)insert YOUR company name/details
INSTALLER NAME; three lines each less than 20 characters (; after 3rd line ONLY)
Installer Contact details:-CONTACT DETAILS (no ;)insert YOUR company contact info
CONTACT DETAILS (no ;)insert YOUR company contact info
CONTACT DETAILS; three lines each less than 20 characters (; after 3rd line ONLY)
Auto test Duration:-300;60 to 600, Seconds, max time for autotest, timeout = fault
Auto test Open:-15; 1 to 90 Seconds, auto test dump valve open duration
Auto test Period:-7; 1 to 30 Days, frequency of autotest
Cooling line Duration:-3; 0 to 60 Seconds (WD2, firmware Rev2.8 onward)
Cooling line Cycles:-30; 1 to 60 times/hour (WD2, firmware Rev2.8 onward)
Model Variant:-0; 0=watchdog LOCKED on WD2
Timer override:-0; 0-60 minutes, set to zero normal for operation
```

\*Firmware V2.91 onwards. When Fire Mode Wait is set to 0, pump runs on pressure drop but does not latch on repeated operations (self-resets when pressure restored unless is flow detected). May not be fully compliant with BS9251-2021 section 5.12.4.b.

**IMPORTANT!** After uploading new settings files, **always POWER CYCLE the WD2**, and review the config file on the memory stick to check that new settings have correctly uploaded. **ALWAYS WAIT FOR SOUNDER BEFORE REMOVING USB STICK**

**NOTE - IF IN DOUBT, ALWAYS DOWNLOAD THE STANDARD SETTINGS FILE FROM [www.firesprinklerwatchdog.com](http://www.firesprinklerwatchdog.com).**

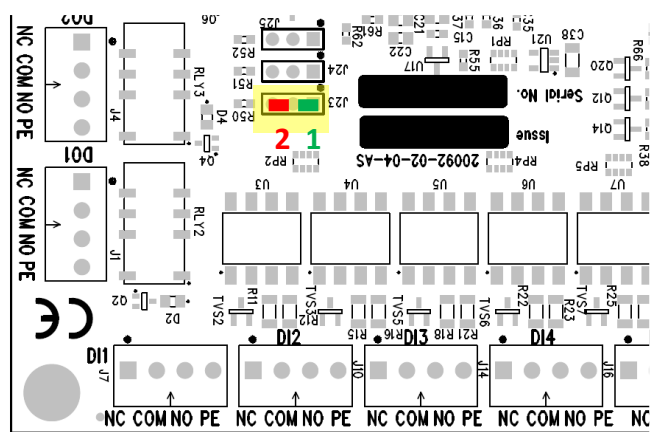
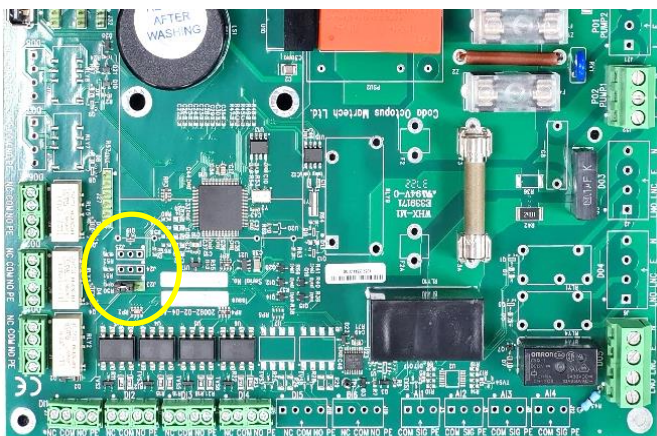
All text after the semi-colon (;) are comments only and are not used by the system.

Time and date sets an *approximate* time/date on the Watchdog2 for time stamping of activity logs. The time entered will be taken as the correct time when the file is read by the Watchdog2 from the USB stick. Attempting to change features shown as disabled or locked will have no effect and will not be used.

A time & date only settings file can also be downloaded from [www.firesprinklerwatchdog.com](http://www.firesprinklerwatchdog.com) which allows changing of the time and date without affecting the other settings.

## DIAGNOSTIC MODE

With the unit powered OFF, move link J23 in the position 2 (viewed with the front panel folded down) as shown, the system will power up into an engineering diagnostics mode. In this mode it **WILL NOT operate as a fire sprinkler controller**, but will illuminate LEDs only in response to certain inputs. will allow manual operation of the pump and valve. This is intended to assist the engineer to manually check inputs during installation.



**NOTE it is critical that J23 is reverted to the normal operating position (position 1) after diagnostics, to ensure correct Fire Sprinkler operation.**

| TEST MODE            | Test Mode Function                                                                                                |
|----------------------|-------------------------------------------------------------------------------------------------------------------|
| TEST Button          | Press and hold to run pump, release to stop pump                                                                  |
| RESET Button         | Press and hold to open valve, release to close valve - pressure will drop.                                        |
| PUMP LED (yellow)    | ON, Valve opening<br>Flashing 1 per second, Pump running<br>Flashing 5 per second, Valve opening and pump running |
| FAULT LED (red)      | Pressure switch 1 (D11), on when active/low pressure/NC-COM open circuit                                          |
| FIRE! LED (red)      | Pressure switch 2 (D12), on when active/ low pressure/NC-COM open circuit                                         |
| SERVICE LED (blue)   | Flow switch (D13) on when NC-COM open circuit, <b>OR</b> NO-COM is closed circuit                                 |
| TESTING LED (orange) | Water level (D14), on when active/water low/NC-COM open circuit                                                   |
| POWER LED (green)    | Mains power available                                                                                             |

Test mode LED functions are shown in red:

| NORMAL  | DIAGNOSTIC |
|---------|------------|
| PUMP    | PUMP+VALVE |
| FAULT   | PRESSURE 1 |
| FIRE!   | PRESSURE 2 |
| SERVICE | FLOW       |
| TESTING | WATER      |
| POWER   |            |



## PRESSURE SWITCH AE-DSP RANGE

### Dual Set Point Pressure switch designed for use in fire sprinkler systems.

The AE-DSP pressure switch has been developed by Applications Engineering Ltd to detect an increase and/or decrease in the system pressure of a fire sprinkler system. There are four options available, with adjustable pressure setting from 0.3 Bar up to 9 bar.

1. Two independent pressure switches with separate adjustment
2. Two 1/2" cable glands supplied and fitted
3. Adjustment guide for easy setting
4. Two sets of SPDT contacts
5. Captive screws and moulded nuts for easy installation



#### Technical Data

|                       |                                       |
|-----------------------|---------------------------------------|
| Max System Pressure   | 40 Bar                                |
| Medium Temperature    | Water(0 to 85°C);<br>Air(-10 to 85°C) |
| Ambient Temperature   | -10 to 85°C                           |
| Protection Class      | IP65                                  |
| Switching             | SPDT, snap action                     |
| Switch Rating         | 250VAC 22(8)A                         |
| Life                  | 6000 Cycles                           |
| Dielectric strength   | 1500V, 0.5mA, 1min                    |
| Insulation resistance | >100mΩ, 500VDC                        |
| Action                | Momentary                             |
| Set point calibration | Field adjustable with knob            |

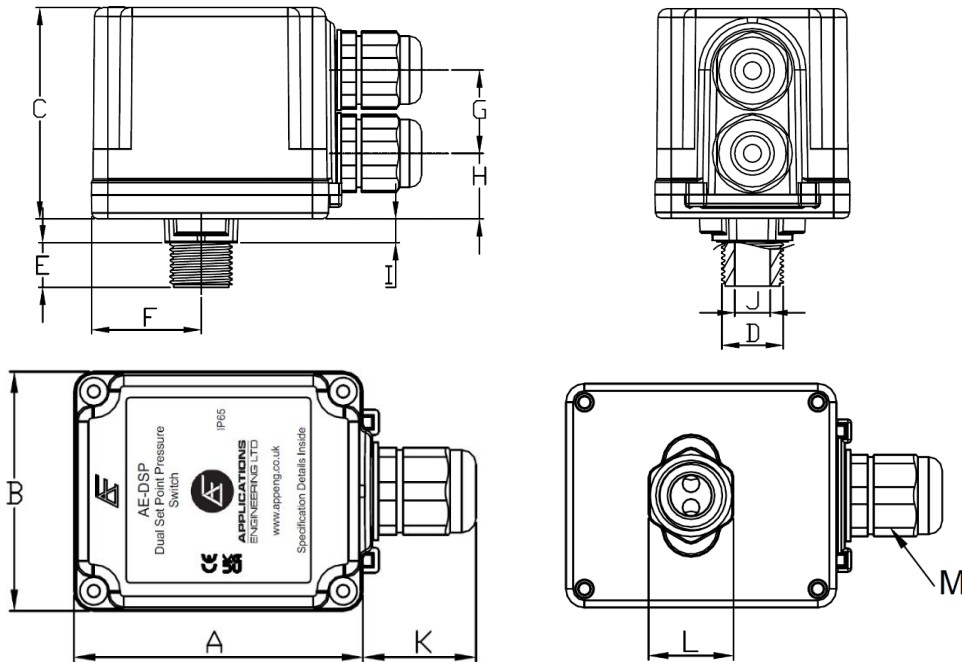
#### Materials

|           |                               |
|-----------|-------------------------------|
| Housing   | With fibre glass PA66,UL94 V0 |
| Membranes | Silicone                      |

| Order Codes | Pressure Values | Hysteresis |
|-------------|-----------------|------------|
| AE-DSP1     | 0.3-0.6 Bar     | 0.15 Bar   |
| AE-DSP2     | 0.40-1.20 Bar   | 0.15 Bar   |
| AE-DSP3     | 0.9-3.0 Bar     | 0.30 Bar   |
| AE-DSP4     | 1.5-9 Bar       | 0.90 Bar   |

## AE-DSP EXTERNAL DIMENSIONS

Fig. 1



|   |        |   |         |
|---|--------|---|---------|
| A | 80mm   | H | 22mm    |
| B | 66mm   | I | 8mm     |
| C | 71mm   | J | ø12     |
| D | ½ BSPT | K | ≈30     |
| E | 15mm   | L | HEX25   |
| F | 37mm   | M | M20x1.5 |
| G | 28mm   |   |         |

### Installation Guide

1. Connect the PS40 to the system side of any shutoff or check valve.
2. Apply PTFE tape to the threaded male connection on the device.
3. Device should be mounted in the upright position. (Threaded connection down)
4. Tighten using a wrench on the flats on the device.

### Wiring

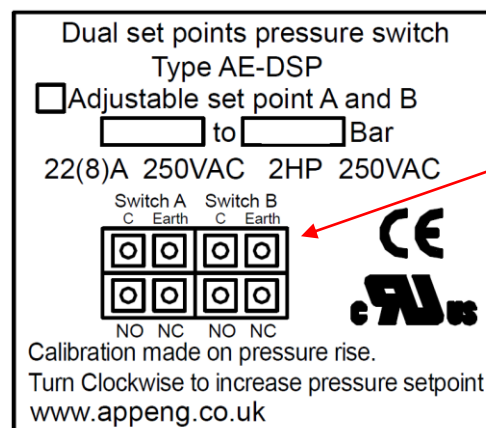
Run wires through the cable gland and into the corresponding terminals labelled in figure 2.

### Adjusting Pressure Set Point

To adjust the set point, turn the adjustment knobs clockwise to increase the pressure and anticlockwise to decrease the pressure, (the pressure setting labels are provided as a guide only, and may not be exact). Both switches operate independently of each other and may be independently adjusted to trigger at any point across the switch adjustment range. Final adjustments should be verified with a pressure gauge.

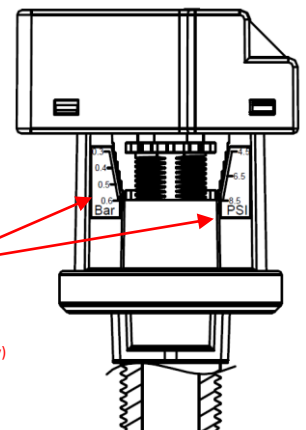
Fig. 2

## AE-DSP INTERNALS



Wiring

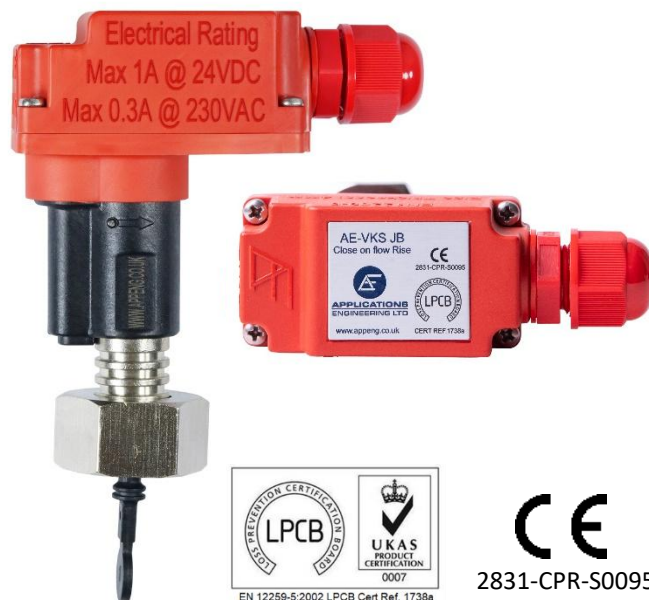
Pressure Setting labels  
(use stickers as guide only)



## FLOW SWITCH AE-VKS JB RANGE

**For use in residential and domestic sprinkler systems.**

1. PPO Plastic flow switch, paddle type with Brass coupling & Stem.
2. Easy Installation:
  - Insert the Flow Switch
  - Tighten the union nut
3. Low pressure drop
4. Rugged PPO engineering thermoplastic enclosure ensures highest strength & performance
5. Long Term stable set point, reset of paddle by magnetic force
6. Supplied with M12\*1.5 cable gland attached, easier to wire than DIN 43650A and comes pre-assembled
7. Normally Open, closes by flow rise



### Technical Data

|                           |               |
|---------------------------|---------------|
| Pressure Rating           | PN16          |
| Medium Temperature        | 100°C Max     |
| Ambient Temperature       | 80°C Max      |
| Protection Class          | IP64          |
| Switching Current         | 1 A Max       |
| Minimum Current at 24VDC  | 50 mA         |
| Switching voltage         | 250 VAC Max   |
| Switching Capacity        | 70 W Max      |
| Max Rated Current @230VAC | 0.3 A         |
| Max Rated Current @24VDC  | 1 A           |
| Materials                 |               |
| Nut/Stem                  | Brass         |
| Body                      | PPO           |
| Gasket                    | NBR           |
| Paddle                    | Polypropylene |

### Environmental Specifications:

IP64 Rated enclosure suitable for indoor or outdoor use. When used outdoors, it is recommended to protect the external parts against rain, snow, sun and impact.

If the flow switch is subjected to temperature near freezing there is a risk of blocking the pipe, or damage to the unit in case of freezing liquid inside the pipe. It is therefore necessary to prevent freezing of liquid inside the pipe.

|                                                     |          |
|-----------------------------------------------------|----------|
| Setpoint (recommended mounting in horizontal pipes) | 25 l/min |
| Setpoint tolerance                                  | +/-15%   |
| Max Surge                                           | 5,5 m/s  |

|             |                                   |      |
|-------------|-----------------------------------|------|
| Order Codes | AE-VKS25M2APENG14/JB              | 1"   |
|             | AE-VKS40M2APENG17/JB              | 1 ¼" |
|             | AE-VKS40M2APENG18/JB              | 1 ½" |
|             | AE-VKS50M0APENG19/JB              | 2"   |
| Switching   | Contact closes at increasing flow |      |



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www.appeng.co.uk

## FLOW SWITCH AE-VKS INSTALLATION GUIDE

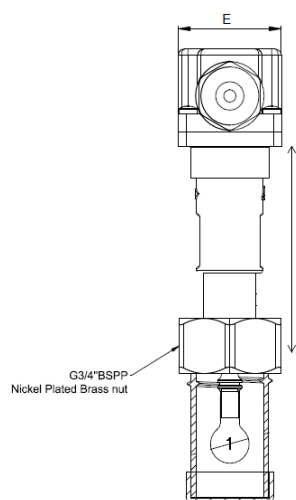
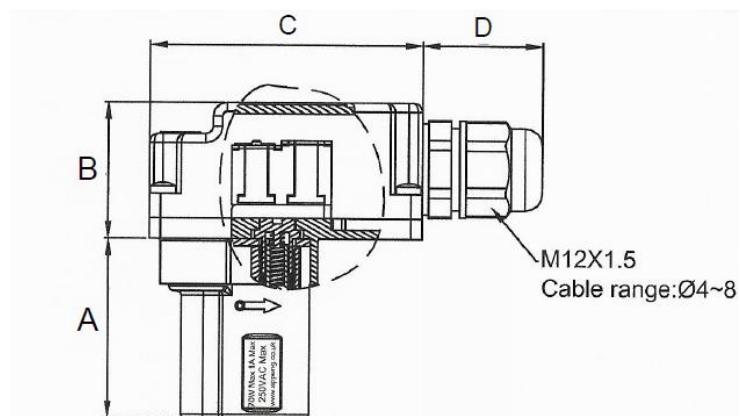
**Use:** General application in residential sprinkler system flow detection. Recommended mounting position is on a horizontal pipe, but can be mounted in a vertical position. For use in Applications Engineering valve sets of sizes 1", 1 1/4", 1 1/2", 2" and a 1" CPVC Tee with adaptor. The flow switch model ordered will come complete for intended use with no adjustment to be made, all paddles come from the factory in the correct size and should not be cut or tampered with under any circumstances. Paddle sizes of each water flow switch have been designed in accordance with EN12259 and to ensure operation at the correct flow rate.

**Function:** Balanced mechanical paddle mounted perpendicular to the flow switch and activating a reed switch through the internal housing wall. The return of the paddle is by magnetic activation, without a spring.

**Installation:** Screw the union nut onto 3/4" male thread, recommended torque: 10±1 Nm, ensure that the arrow on housing is in the correct orientation and is parallel to the flow arrow on the valve set. Sealing is made by tightening down the O-ring on the flow switch to the 3/4" Male thread.

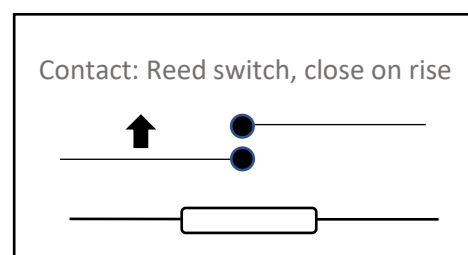
**Maintenance:** Inspect switches monthly for leaks. If leaks are found, replace the switch. AE-VKS JB water flow switch should provide years of trouble-free service.

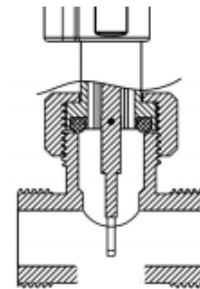
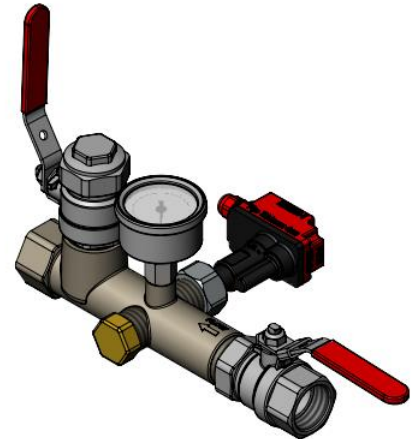
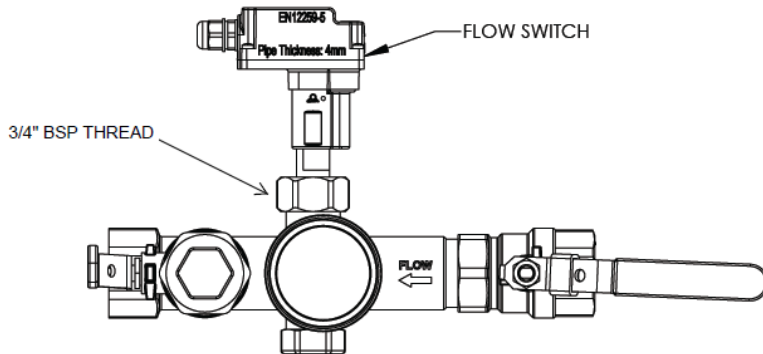
**Removal:** To prevent water damage, all control valves should be shut tight and the system completely drained before switches are removed. Disconnect wiring, turn the switch counter clockwise to disengage the pipe threads.



|   |        |
|---|--------|
| A | 39mm   |
| B | 30mm   |
| C | 60mm   |
| D | 30mm   |
| E | 32mm   |
| F | 62.5mm |

| Technical Data     |                                     |
|--------------------|-------------------------------------|
| Setpoint:          | 25 l/min +/- 15                     |
| Switching function | Contact to close at increasing flow |
| Mounting Position  | Horizontal or Vertical Pipe         |
| Protection Class   | IP64                                |

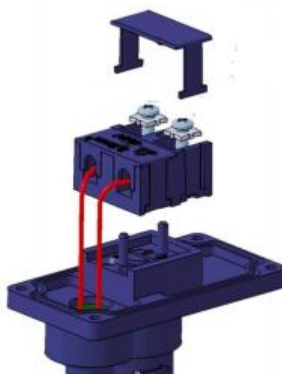




**Installation:** Screw the flow switch into the appropriate size Applications Engineering Valve Set or CPVC Tee piece with adaptor as shown above with the  $\frac{3}{4}$ " BSP Female thread on the flow switch screwing into the  $\frac{3}{4}$ " Male thread.

**Important** – Switch should only be installed onto Applications Engineering products as the they have been specifically designed to operate at the correct flow rate. No other products are allowed.

| Pipe Dimensions      |                                                     |
|----------------------|-----------------------------------------------------|
| Part Number          | Manifold                                            |
| AE-VKS25M2APENG14/JB | 1" Applications Engineering Manifold                |
| AE-VKS40M2APENG17/JB | 1 $\frac{1}{4}$ " Applications Engineering Manifold |
| AE-VKS40M2APENG18/JB | 1 $\frac{1}{2}$ " Applications Engineering Manifold |
| AE-VKS50M0APENG19/JB | 2" Applications Engineering Manifold                |



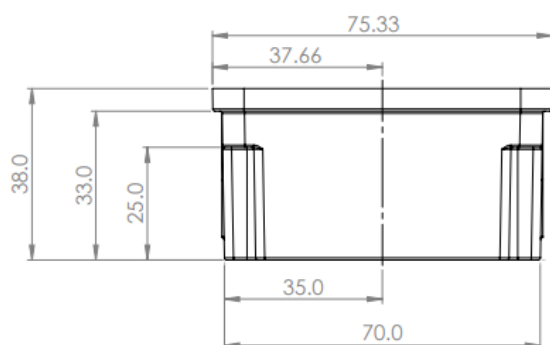
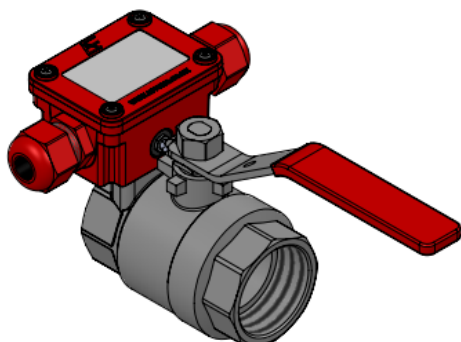
**Wiring:** It is necessary to remove the lid of the box to make the connection. With a suitable screwdriver, loosen the four cover screws. Remove the connection block protection clip, and prior to connecting the cable, pass it through the cable gland. Screw terminals are a volt free contact that are not polarity sensitive. Tighten Cable into screw terminals on the body of the switch, ensure they are tightened securely. Then put the connection block clip, then the lid, tighten the screws, and then tighten the cable gland on the cable to protect against water penetration.

# Monitored Ball Valve



CE

UK  
CA



Electrical Protection: IP54

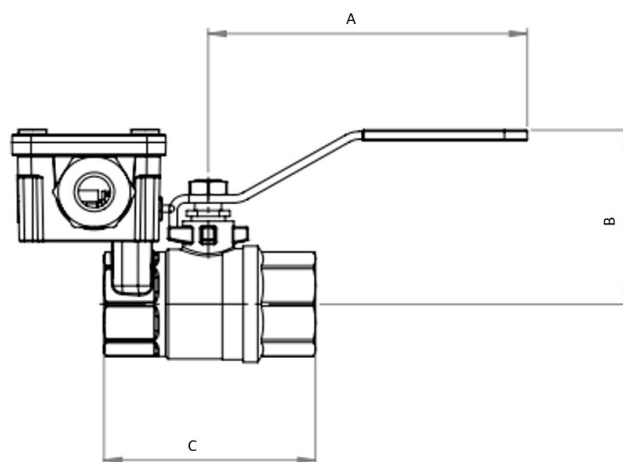
Compliant to BS 9251: 2021

Applications Engineering's Monitored Ball Valve (MBV) is designed to monitor the fully open position of a ball valve. The MBV has a toggle switch, which is activated when the ball valve handle is moved from the fully open position.

The MBV can be fitted onto an Applications Engineering Ball Valve or onto an Applications Engineering Fire Sprinkler Valve Set. For both options it currently comes in size 1", 1 1/4", 1 1/2", 2", 2 1/2" and 3".

| Part       | Material            |
|------------|---------------------|
| Housing    | Fire Resistant ABS  |
| Ball Valve | Nickel Plated Brass |

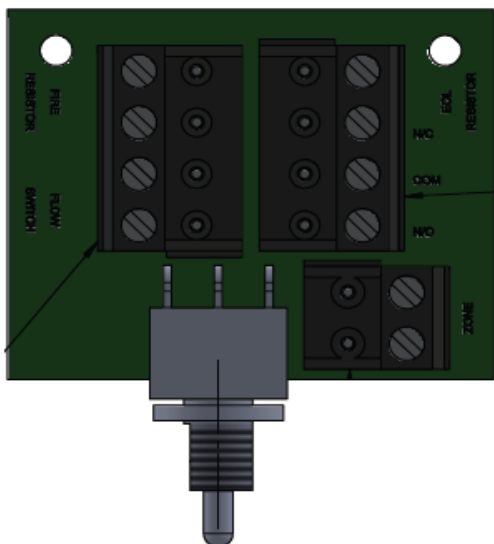
Please see the [AE-BVFF](#) datasheet for more information on the ball valve.



| DN     | A      | B      | C      |
|--------|--------|--------|--------|
| 1"     | 119.00 | 66.20  | 78.90  |
| 1 1/4" | 140.00 | 78.70  | 87.64  |
| 1 1/2" | 157.00 | 85.00  | 97.00  |
| 2"     | 157.00 | 93.00  | 120.50 |
| 2 1/2" | 237.00 | 122.00 | 150.00 |
| 3"     | 237.00 | 138.00 | 177.50 |



# Monitored Ball Valve



The MBV has two methods of wiring:

The switch has SPDT contacts and can be used simply for just normally open or normally closed operation.

The other method of wiring is in conjunction with a fire sprinkler panel. For use with a fire sprinkler panel there are terminals for an end of line resistor and fire resistor so that the output from the device can be connected into a dedicated zone on the fire panel, signalling fault when the ball valve is closed.



The MBV is a 1-piece construction that makes mounting easy and fully retrofittable to any Applications Engineering Ball Valve or valve set. The housing can be easily screwed into place from the top into the pre-moulded clamp.

| Order Number    | Description                                                                |
|-----------------|----------------------------------------------------------------------------|
| AE-MBV-100-BV-W | 1" Ball Valve, MBV and 1m of FP200 cable pre-wired                         |
| AE-MBV-125-BV-W | 1 ¼" Ball Valve, MBV and 1m of FP200 cable pre-wired                       |
| AE-MBV-150-BV-W | 1 ½" Ball Valve, MBV and 1m of FP200 cable pre-wired                       |
| AE-MBV-200-BV-W | 2" Ball Valve, MBV and 1m of FP200 cable pre-wired                         |
| AE-MBV-250-BV-W | 2 ½" Ball Valve, MBV and 1m of FP200 cable pre-wired                       |
| AE-MBV-300-BV-W | 3" Ball Valve, MBV and 1m of FP200 cable pre-wired                         |
| AE-MBV-100-BB-W | 1" Ball Valve, MBV, 1m of FP200 cable pre-wired & 2 CPVC adaptors fitted   |
| AE-MBV-125-BB-W | 1 ¼" Ball Valve, MBV, 1m of FP200 cable pre-wired & 2 CPVC adaptors fitted |
| AE-MBV-150-BB-W | 1 ½" Ball Valve, MBV, 1m of FP200 cable pre-wired & 2 CPVC adaptors fitted |
| AE-MBV-200-BB-W | 2" Ball Valve, MBV, 1m of FP200 cable pre-wired & 2 CPVC adaptors fitted   |

# SLP Series N/C

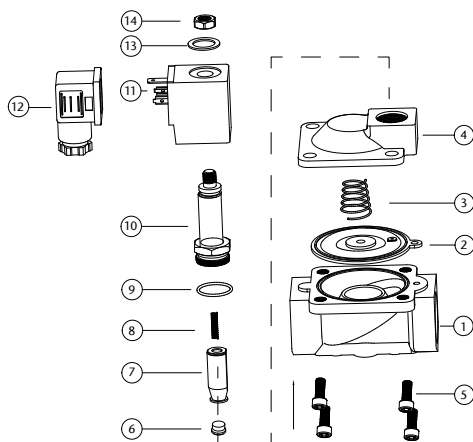
## Solenoid Valves Normally Closed



### Features

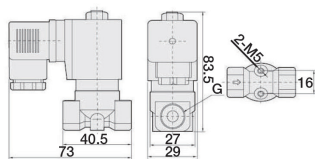
- Available in 230VAC, 110VAC, 12VDC, 24VDC, 24VAC
- Thread standard: ISO 228/1
- Coil Rating: IP 65
- Coil Duty Cycle: 100%
- EPDM model is WRAS approved
- Available sizes -  
1/8", 1/4", 3/8", 1/2", 3/4", 1", 1.1/4", 1.1/2", 2"
- Flanged version available in  
1", 1.1/4", 1.1/2", 2", 2.1/2", 3", 4"

| N. | Part Name         | Materials                   |
|----|-------------------|-----------------------------|
| 1  | Body              | Brass                       |
| 2  | Diaphragm         | NBR / EPDM / Viton          |
| 3  | Diaphragm Spring  | Stainless Steel 304         |
| 4  | Valve Cover       | Brass                       |
| 5  | Bolt              | Stainless Steel 302         |
| 6  | Pilot Seal        | NBR / EPDM / Viton          |
| 7  | Pilot             | Stainless Steel 1J117       |
| 8  | Pilot Spring      | Stainless Steel 304         |
| 9  | O-Ring            | NBR / EPDM / Viton          |
| 10 | Plunger Tube Unit | Stainless Steel 304 + 1J117 |
| 11 | Coil              | Enamelled Wire              |
| 12 | Plug              | Nylon                       |
| 13 | Washer            | Stainless Steel 302         |
| 14 | Lock Nut          | Stainless Steel 302         |

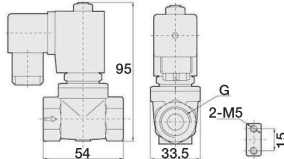


### Main Dimensions

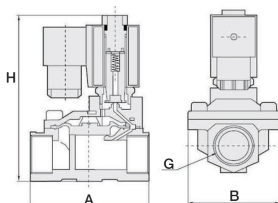
Orifice: 3mm & 4mm  
Port: 1/8", 1/4" & 3/8"



Orifice: 10.5mm  
Port: 1/4", 3/8" & 1/2"



Large Orifice  
See table opposite





Japanese Technology since 1912

## EVMS - Vertical Multistage Pumps

Data Book 50Hz



**EVMS**

1-3-5-10-15-20-32-45-64-90



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## VERTICAL MULTISTAGE PUMPS

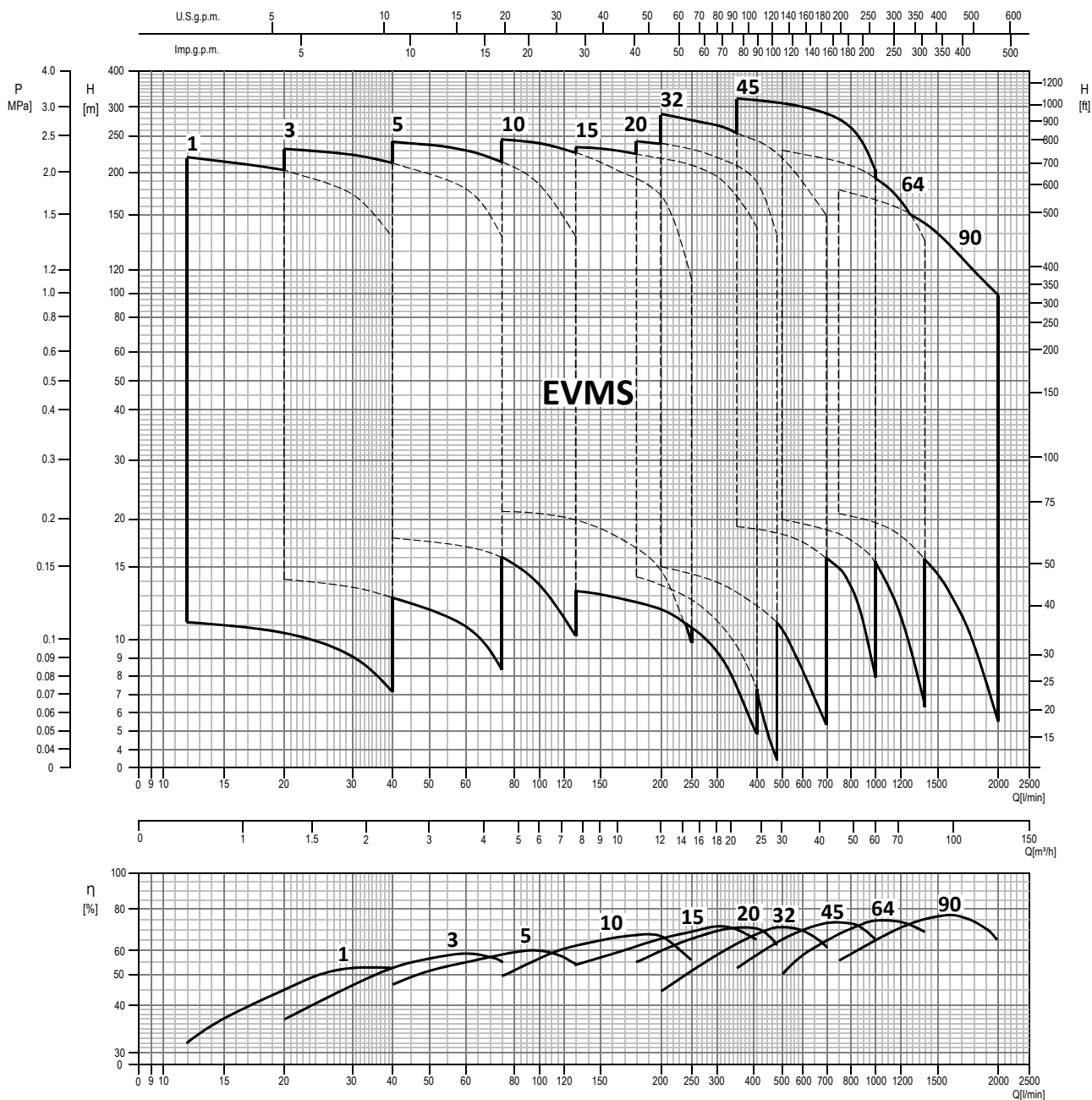
## TYPICAL APPLICATIONS

1.1

TYPICAL APPLICATIONS

| INDUSTRY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | BUILDING SERVICE                                                                                                                                                                                                                                                                                                                                                                                                                  | WATER SUPPLY                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                          |
| <ul style="list-style-type: none"> <li>• <b>Water treatment</b><br/>reverse osmosis<br/>ultra-filtration<br/>water purification<br/>micro-filtration<br/>softening, ionizing and demineralising systems<br/>swimming pools<br/>separators</li> <li>• <b>Boiler feeding</b><br/>steam systems<br/>condensate systems</li> <li>• <b>Wash and clean</b><br/>vehicle washing systems<br/>industrial part washing<br/>laundry systems<br/>supply of liquids with acids and bases<br/>supply of chemical liquids</li> <li>• <b>Chilling</b><br/>handling of refrigerants for cooling<br/>thermal control systems<br/>industrial cooling<br/>laser cooling</li> <li>• <b>Machine tooling</b><br/>cooling lubricant supply for tooling machines</li> <li>• <b>Pressure boosting</b><br/>pressure boosting for industrial use</li> <li>• <b>Food &amp; Beverage</b><br/>food washing systems<br/>bottle wash systems</li> <li>• <b>Pharmaceutical industries</b></li> <li>• <b>Marine applications</b><br/>freshwater, deckwash, high fog and fire fighting on ships</li> </ul> | <ul style="list-style-type: none"> <li>• <b>Pressure boosting</b><br/>pressure boosting for buildings<br/>pressure boosting for high rise buildings/hotels</li> <li>• <b>Sprinkler systems</b></li> <li>• <b>Fire fighting systems</b><br/>jockey pump</li> <li>• <b>District heating</b></li> <li>• <b>Heat exchangers / fan heaters</b></li> <li>• <b>Air conditioning systems</b></li> <li>• <b>Heating systems</b></li> </ul> | <ul style="list-style-type: none"> <li>• <b>Water treatment</b><br/>water treatment plants filtration<br/>water treatment plants transfer</li> <li>• <b>Pressure boosting</b><br/>transfer from water treatment plants (mains)</li> <li>• <b>Irrigation</b><br/>golf course / sport fields irrigation</li> <li>• <b>Agriculture</b><br/>sprinkler irrigation<br/>drip irrigation</li> </ul> |

PERFORMANCE RANGE  
EVMS(.)1-3-5-10-15-20-32-45-64-90



### PRODUCT FEATURES

2.1

PRODUCT FEATURES

#### [General]

##### 1. Pump Type

The EVMS is Non-self-priming, vertical multistage in line, centrifugal pumps.

##### 2. Model range

The EVMS comes in **1,3,5,10,15,20,32,45,64 and 90 m³/h** flow sizes for the majority market needs.

##### 3. Maximum operating pressure

The EVMS can be operated at **16, 25, 30 bar or 35 bar as maximum**.

##### 4. Operating liquid temperature range

The EVMS can be operated **from - 30°C to + 140°C** as the maximum.  
(please contact EBARA in case of -30°C to -15°C, or 120-140°C)

##### 5. Material options

**AISI 304, AISI 316L and Cast iron** versions are available.

##### 6. Motor

The EVMS can be coupled with **the commercial motors** that are acquired in the markets.

The EVMS is provide as the electric pumps with IE3 motors for the over 0.75 kW.

**PTC sensor** pre-installed for motors of 1.5 kW and above.

Unlosable screw and sealing from 0.75 kW to 45 kW are standard for terminal box fixing.

##### 7. Certifications

|                        | Drinking water approval                                                                          |                                                                                           |                                                                                              |                                                                                             |                                                                                             | Atmospheres<br>explosibles approval                                                                     |
|------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
|                        | DM174/2004<br> | ACS<br> | DVGW *<br> | WRAS<br> | PZH<br> | ATEX 2014/34/UE<br> |
| <u>Mechanical seal</u> | SiC/Carbon_ EPDM                                                                                 | SiC/Carbon_ EPDM                                                                          | All variations with EPDM on page 6-7                                                         | SiC/Carbon_ EPDM                                                                            | All variations with EPDM on page 6-7                                                        | All variations on page 6-7                                                                              |
| EVMSG                  | ●                                                                                                | -                                                                                         | -                                                                                            | -                                                                                           | ●                                                                                           | ●                                                                                                       |
| EVMS                   | **                                                                                               | ●                                                                                         | ●                                                                                            | ●                                                                                           | ●                                                                                           | ●                                                                                                       |
| EVMSL                  | **                                                                                               | ●                                                                                         | ●                                                                                            | ●                                                                                           | ●                                                                                           | ●                                                                                                       |

Note: \* DVGW W270 is certified for elastomers. Reg. Nr. DW-5253CR0217  
KTW is certified for organic components.

\*\* only for EVMS(.)1-20

● Available

##### 8. Conform to the provisions of the European directives



#### [Main Product Features]

##### 1. Innovative hydraulic solutions

- The **Commercial motors** can be fitted to all of the pump models without any modifications thanks to low pump axial thrust load.
- The low axial thrust load impellers can ensure **long life of the motor bearings**.
- High pump efficiency** classified in MEI > 0.7 for all models.

##### 2. Energy saving

- The **high efficiency IE3 motors** starting from 0.75 kW complied with the EuP 2005/32/EC and ErP 2009/125/EC directives.
- The **VFD (Variable frequency drive)** and the **commercial sensor** can be directly mounted on EVMS to **maintain physical constant operations** such as pumping pressure depending on the conditions of use.

##### 3. Piping connection options

- The various pipe connections are available depending on the application requirements **Oval flange / Round flange / Loose flange / Victaulic® connection / Clamp connection**.
- The external dimensions can be adjusted to the replacement of the existing pump in the wide majority.

##### 4. Shaft seal solutions

- Silicon carbide inclusions with graphite can be used as **dry lubricant to reduce friction**.
- It's conforming to EN12756 (ex DIN 24960)

##### 5. Easy maintenance

- The **cartridge mechanical seal** enables the **plug in replacement** of the shaft seal without disassembling the motor bracket.
- The **spacer coupling** allows easy maintenance without having to remove heavy motors over 5.5 kW

##### 6. Smart plug solutions

Air ventilation plug / Water filling & sensor plug / Commercial sensor fitting / Measurements for suction and discharge pressure / drain.

## PRODUCT SPECIFICATIONS

### EVMS(.)1-3-5-10-15-20

| PUMP                       |                                       |                                                                                  |                                                               |   |    |    |    |                      |   |   |    |    |    |                             |   |   |    |    |    |   |
|----------------------------|---------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------|---|----|----|----|----------------------|---|---|----|----|----|-----------------------------|---|---|----|----|----|---|
| Version                    |                                       | EVMSG                                                                            |                                                               |   |    |    |    | EVMS                 |   |   |    |    |    | EVMSL                       |   |   |    |    |    |   |
| Operating range            | Nominal flow rate (m³/h )             | 1                                                                                | 3                                                             | 5 | 10 | 15 | 20 | 1                    | 3 | 5 | 10 | 15 | 20 | 1                           | 3 | 5 | 10 | 15 | 20 |   |
|                            | Maximum working pressure              | 1.6 / 2.5 MPa (16 / 25 bar)                                                      |                                                               |   |    |    |    |                      |   |   |    |    |    |                             |   |   |    |    |    |   |
|                            | Liquid temperature range              | -30°C to 140°C<br>(please contact EBARA in case of -30°C to -15°C, or 120-140°C) |                                                               |   |    |    |    |                      |   |   |    |    |    |                             |   |   |    |    |    |   |
| Key Components Material    | Impeller                              | EN 1.4301 (AISI 304)                                                             |                                                               |   |    |    |    |                      |   |   |    |    |    | EN 1.4404 (AISI 316L)       |   |   |    |    |    |   |
|                            | Intermediate casing                   | EN 1.4301 (AISI 304)                                                             |                                                               |   |    |    |    |                      |   |   |    |    |    | EN 1.4404 (AISI 316L)       |   |   |    |    |    |   |
|                            | Liner ring                            | EN 1.4301 (AISI 304) + PPS                                                       |                                                               |   |    |    |    |                      |   |   |    |    |    | EN 1.4404 (AISI 316L) + PPS |   |   |    |    |    |   |
|                            | Bottom casing                         | Cast Iron                                                                        |                                                               |   |    |    |    | EN 1.4301 (AISI 304) |   |   |    |    |    | EN 1.4404 (AISI 316L)       |   |   |    |    |    |   |
|                            | Casing cover                          | EN 1.4301 (AISI 304)                                                             |                                                               |   |    |    |    |                      |   |   |    |    |    | EN 1.4404 (AISI 316L)       |   |   |    |    |    |   |
|                            | Shaft                                 | EN 1.4301 (AISI 304)                                                             | EVMSG / EVMS 1-3-10 , EVMSG / EVMS 5-15-20 (depend on models) |   |    |    |    |                      |   |   |    |    |    |                             |   |   |    |    |    |   |
|                            |                                       | EN 1.4404 (AISI 316L)                                                            | EVMSL 1-3-10 , EVMSL 5-15-20 (depend on models)               |   |    |    |    |                      |   |   |    |    |    |                             |   |   |    |    |    |   |
|                            |                                       | EN 1.4462 (AISI 329A)                                                            | EVMSG / EVMS / EVMSL 5-15-20 (depend on models)               |   |    |    |    |                      |   |   |    |    |    |                             |   |   |    |    |    |   |
|                            | Shaft sleeve bearing                  | Tungsten carbide                                                                 |                                                               |   |    |    |    |                      |   |   |    |    |    |                             |   |   |    |    |    |   |
|                            | Shaft Seal                            | See the shaft seal options                                                       |                                                               |   |    |    |    |                      |   |   |    |    |    |                             |   |   |    |    |    |   |
|                            | O-ring                                | EPDM                                                                             | ●                                                             | ● | ●  | ●  | ●  | ●                    | ● | ● | ●  | ●  | ●  | ●                           | ● | ● | ●  | ●  | ●  | ● |
|                            |                                       | FPM                                                                              | ●                                                             | ● | ●  | ●  | ●  | ●                    | ● | ● | ●  | ●  | ●  | ●                           | ● | ● | ●  | ●  | ●  | ● |
|                            | Outer casing                          | EN 1.4301 (AISI 304)                                                             |                                                               |   |    |    |    |                      |   |   |    |    |    | EN 1.4404 (AISI 316L)       |   |   |    |    |    |   |
|                            | Motor Bracket                         | Cast Iron                                                                        |                                                               |   |    |    |    |                      |   |   |    |    |    |                             |   |   |    |    |    |   |
|                            | Tie rod                               | EN 1.4057 (AISI 431)                                                             |                                                               |   |    |    |    |                      |   |   |    |    |    |                             |   |   |    |    |    |   |
|                            | Coupling                              | up to 4.0 kW                                                                     | Die cast aluminium                                            |   |    |    |    |                      |   |   |    |    |    |                             |   |   |    |    |    |   |
|                            |                                       | from 5.5 kW                                                                      | Cast Iron                                                     |   |    |    |    |                      |   |   |    |    |    |                             |   |   |    |    |    |   |
|                            | Base                                  | Cast Iron                                                                        |                                                               |   |    |    |    | Die cast aluminium   |   |   |    |    |    |                             |   |   |    |    |    |   |
| Pipe connection            | Oval flange up to 16 bar              | ●                                                                                | ●                                                             | ● | ●  | ●  | ●  | ●                    | ● | ● | ●  | ●  | ●  | ●                           | ● | ● | ●  | ●  | ●  |   |
|                            | Round flange (DIN) up to 16 bar       | ●                                                                                | ●                                                             | ● | ●  | ●  | ●  | ●                    | ● | ● | ●  | ●  | ●  | ●                           | ● | ● | ●  | ●  | ●  |   |
|                            |                                       | from 16 bar to 25 bar                                                            | ●                                                             | ● | ●  | ●  | ●  | ●                    | ● | ● | ●  | ●  | ●  | ●                           | ● | ● | ●  | ●  | ●  |   |
|                            | Loose round flange (DIN) up to 16 bar |                                                                                  |                                                               |   |    |    |    | ●                    | ● | ● | ●  | ●  | ●  | ●                           | ● | ● | ●  | ●  | ●  |   |
|                            |                                       | from 16 bar to 25 bar                                                            |                                                               |   |    |    |    |                      | ● | ● | ●  | ●  | ●  | ●                           | ● | ● | ●  | ●  | ●  |   |
| Victaulic® up to 16/25 bar |                                       |                                                                                  |                                                               |   |    |    | ●  | ●                    | ● | ● | ●  | ●  | ●  | ●                           | ● | ● | ●  | ●  | ●  |   |
| Clamp up to 16/25 bar      |                                       |                                                                                  |                                                               |   |    |    | ●  | ●                    | ● | ● | ●  | ●  | ●  | ●                           | ● | ● | ●  | ●  | ●  |   |

● Available

| MOTOR        |                          |                                                            |                                                                  |
|--------------|--------------------------|------------------------------------------------------------|------------------------------------------------------------------|
| Power Source | Frequency                | 50 Hz                                                      |                                                                  |
|              | Phase                    | Single Phase                                               | Three Phase                                                      |
|              | Power rating             | $\frac{0.37 \div 2.2 \text{ kW}}{0.5 \div 3.0 \text{ HP}}$ | $\frac{0.37 \div 18.5 \text{ kW}}{0.5 \div 25 \text{ HP}}$       |
|              | Voltage                  | 230 ± 10% V                                                | 230/400 ± 10% V (up to 4.0 kW)<br>400/690 ± 10% V (above 5.5 kW) |
| Type         | Type                     | IC411 - TEFC                                               |                                                                  |
|              | Efficiency Level         | from 0.37 kW up to 2.2 kW                                  | - : from 0.37 kW up to 0.55 kW<br>IE3 : above 0.75 kW            |
|              | No° of poles             | 2                                                          |                                                                  |
|              | Protection degree        | IP55 : up to 11 kW<br>IP56 : above 15 kW                   |                                                                  |
|              | Insulation Class         | F (temperature rise class B)                               |                                                                  |
| Others       | Thermal Protection       | -                                                          | PTC sensor pre-installed for motors of 1.5 kW and above          |
|              | Casing Material          | Aluminium                                                  |                                                                  |
|              | Flange mount (IEC motor) | IM B14 : up to 4.0 kW<br>IM B5 : above 5.5 kW              |                                                                  |
|              | Terminal Box fixing      | -                                                          | Unlosable screw and sealing from 0.75 kW to 18.5 kW              |



## PRODUCT SPECIFICATIONS

## EVMS(.).32-45-64-90

2.2

PRODUCT SPECIFICATIONS

| PUMP                      |                             |                                                                                                                                               |                                             |    |    |                      |    |    |    |                             |    |    |    |   |  |
|---------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----|----|----------------------|----|----|----|-----------------------------|----|----|----|---|--|
| Version                   |                             | EVMSG                                                                                                                                         |                                             |    |    | EVMS                 |    |    |    | EVMSL                       |    |    |    |   |  |
| Operating range           | Nominal flow rate (m³/h )   | 32                                                                                                                                            | 45                                          | 64 | 90 | 32                   | 45 | 64 | 90 | 32                          | 45 | 64 | 90 |   |  |
|                           | Maximum working pressure    | 1.6 / 2.5 / 3.0 / 3.5 MPa (16 / 25 / 30 / 35 bar)                                                                                             |                                             |    |    |                      |    |    |    |                             |    |    |    |   |  |
|                           | Liquid temperature range    | -30°C to 140°C<br>(please contact EBARA in case of -30°C to -15°C, or 120-140°C)                                                              |                                             |    |    |                      |    |    |    |                             |    |    |    |   |  |
| Key Components Material * | Impeller                    | EN 1.4301 (AISI 304)                                                                                                                          |                                             |    |    |                      |    |    |    | EN 1.4404 (AISI 316L)       |    |    |    |   |  |
|                           | Intermediate casing         | EN 1.4301 (AISI 304)                                                                                                                          |                                             |    |    |                      |    |    |    | EN 1.4404 (AISI 316L)       |    |    |    |   |  |
|                           | Liner ring                  | EN 1.4301 (AISI 304) + PPS                                                                                                                    |                                             |    |    |                      |    |    |    | EN 1.4404 (AISI 316L) + PPS |    |    |    |   |  |
|                           | Bottom casing               | Cast Iron EN GJL-250 EN 1561<br>(for EVMSG32 and EVMSG45-90 up to 16 bar)<br>Cast Iron EN GJS 400-15 EN 1563<br>(for EVMSG45-90 above 25 bar) |                                             |    |    | EN 1.4308 (ASTM CF8) |    |    |    | EN 1.4408 (ASTM CF8M)       |    |    |    |   |  |
|                           | Casing cover                | EN 1.4301 (AISI 304)                                                                                                                          |                                             |    |    |                      |    |    |    | EN 1.4404 (AISI 316L)       |    |    |    |   |  |
|                           | Shaft                       | EN 1.4301 (AISI 304)                                                                                                                          | EVMSG / EVMS 32-45-64-90 (depend on models) |    |    |                      |    |    |    |                             |    |    |    |   |  |
|                           |                             | EN 1.4404 (AISI 316L)                                                                                                                         | EVMSL 32-45-64 (depend on models)           |    |    |                      |    |    |    |                             |    |    |    |   |  |
|                           |                             | EN 1.4462 (AISI 329A)                                                                                                                         | EVMSL 45-64-90 (depend on models)           |    |    |                      |    |    |    |                             |    |    |    |   |  |
|                           | Shaft sleeve bearing        | Tungsten carbide                                                                                                                              |                                             |    |    |                      |    |    |    |                             |    |    |    |   |  |
|                           | Shaft Seal                  | See the shaft seal options                                                                                                                    |                                             |    |    |                      |    |    |    |                             |    |    |    |   |  |
|                           | O-ring                      | EPDM                                                                                                                                          | ●                                           | ●  | ●  | ●                    | ●  | ●  | ●  | ●                           | ●  | ●  | ●  | ● |  |
|                           |                             | FPM                                                                                                                                           | ●                                           | ●  | ●  | ●                    | ●  | ●  | ●  | ●                           | ●  | ●  | ●  | ● |  |
|                           | Outer casing                | EN 1.4301 (AISI 304)                                                                                                                          |                                             |    |    |                      |    |    |    | EN 1.4404 (AISI 316L)       |    |    |    |   |  |
|                           | Motor Bracket               | Cast Iron EN GJS 400-15 EN 1563                                                                                                               |                                             |    |    |                      |    |    |    |                             |    |    |    |   |  |
|                           | Tie rod                     | EN 1.4057 (AISI 431)                                                                                                                          |                                             |    |    |                      |    |    |    |                             |    |    |    |   |  |
| Coupling                  | up to 4.0 kW                | Die cast Aluminium EN AB-AISI11 Cu2 (Fe)                                                                                                      |                                             |    |    |                      |    |    |    |                             |    |    |    |   |  |
|                           | from 5.5 kW to 30 kW        | Cast Iron EN GJL250 EN 1561                                                                                                                   |                                             |    |    |                      |    |    |    |                             |    |    |    |   |  |
|                           | above 37 kW                 | Carbon Steel                                                                                                                                  |                                             |    |    |                      |    |    |    |                             |    |    |    |   |  |
| Base                      | Cast Iron EN GJL200 EN 1561 |                                                                                                                                               |                                             |    |    |                      |    |    |    |                             |    |    |    |   |  |
| Pipe connection           | Round flange (DIN)          | ●                                                                                                                                             | ●                                           | ●  | ●  |                      |    |    |    |                             |    |    |    |   |  |
|                           | Louse round flange (DIN)    |                                                                                                                                               |                                             |    |    | ●                    | ●  | ●  | ●  | ●                           | ●  | ●  | ●  |   |  |

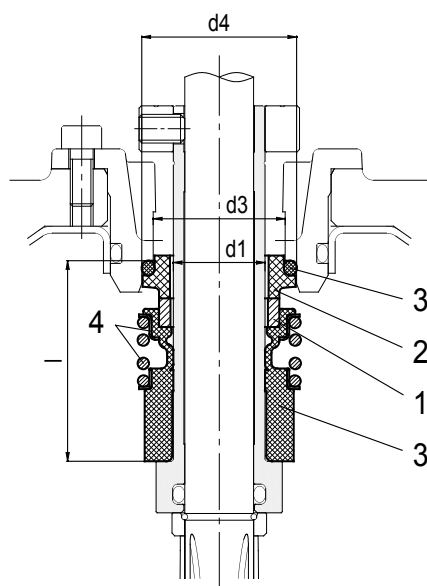
● Available

| MOTOR        |                          |                                                                  |  |  |  |  |  |  |  |  |  |  |  |  |
|--------------|--------------------------|------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|
| Power Source | Frequency                | 50 Hz                                                            |  |  |  |  |  |  |  |  |  |  |  |  |
|              | Phase                    | Three Phase                                                      |  |  |  |  |  |  |  |  |  |  |  |  |
|              | Power rating             | 1.5 ÷ 45 kW<br>2.0 ÷ 60 HP                                       |  |  |  |  |  |  |  |  |  |  |  |  |
|              | Voltage                  | 230/400 ± 10% V (up to 4.0 kW)<br>400/690 ± 10% V (above 5.5 kW) |  |  |  |  |  |  |  |  |  |  |  |  |
| Type         | Type                     | IC411 - TEFC                                                     |  |  |  |  |  |  |  |  |  |  |  |  |
|              | Efficiency Level         | IE3                                                              |  |  |  |  |  |  |  |  |  |  |  |  |
|              | No° of poles             | 2                                                                |  |  |  |  |  |  |  |  |  |  |  |  |
|              | Protection degree        | IP55 : up to 11 kW<br>IP56 : above 15 kW                         |  |  |  |  |  |  |  |  |  |  |  |  |
|              | Insulation Class         | F (temperature rise class B)                                     |  |  |  |  |  |  |  |  |  |  |  |  |
| Others       | Thermal Protection       | PTC                                                              |  |  |  |  |  |  |  |  |  |  |  |  |
|              | Casing Material          | Aluminium : up to 30 kW<br>Cast Iron : above 37 kW               |  |  |  |  |  |  |  |  |  |  |  |  |
|              | Flange mount (IEC motor) | IM B14 : up to 4.0 kW<br>IM B5 : above 5.5 kW                    |  |  |  |  |  |  |  |  |  |  |  |  |
|              | Terminal Box fixing      | Unlosable screw and sealing from 1.5 kW to 45 kW                 |  |  |  |  |  |  |  |  |  |  |  |  |

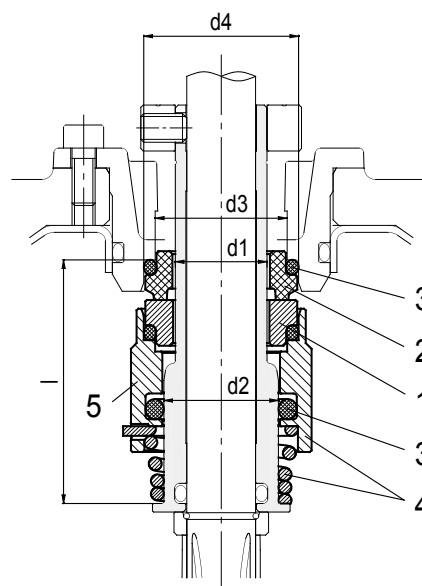
## SHAFT SEAL

### EVMS(.)1-3-5-10-15-20

#### 1. Shaft Seal



up to 16 bar  
Cartridge Unbalanced type



up to 25 bar  
Cartridge Balanced type

#### 2. Type of Shaft Seal and Dimensions [mm]

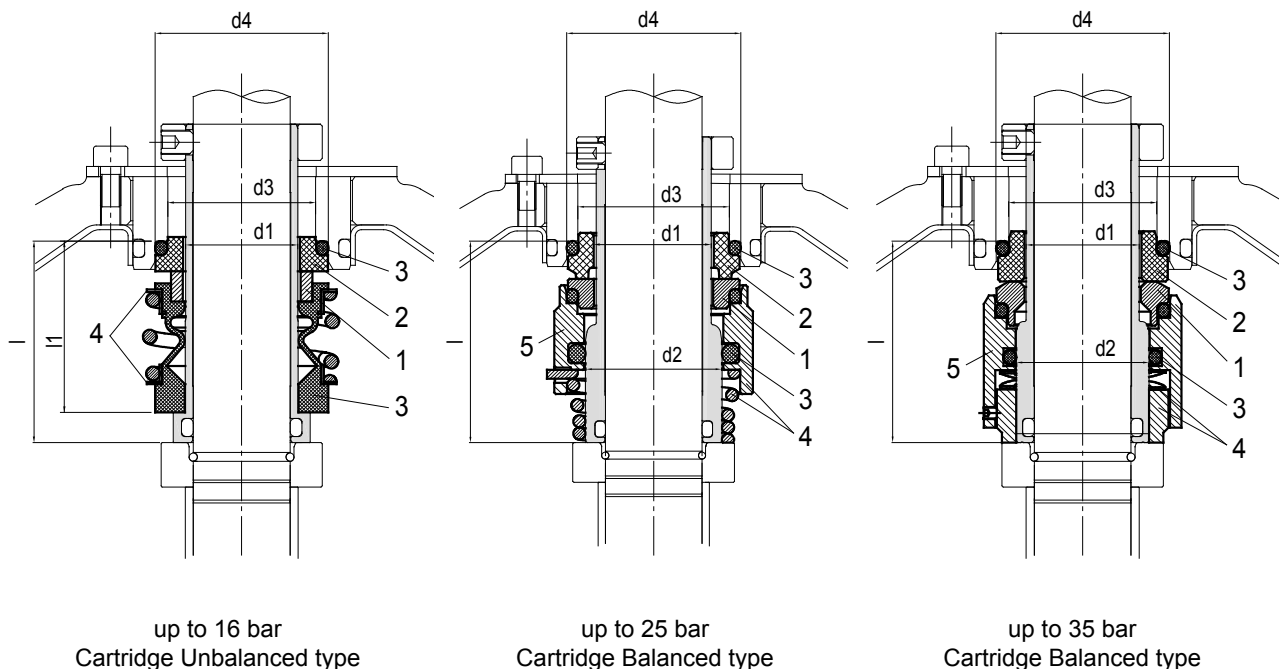
| Type key | Availability | Max operating pressure | Max operating temperature | Shaft seal type |      | Shaft seal material |      |                      |      |                 |      |                         |             |      |
|----------|--------------|------------------------|---------------------------|-----------------|------|---------------------|------|----------------------|------|-----------------|------|-------------------------|-------------|------|
|          |              |                        |                           | Type            | Code | 1<br>Rotating part  | Code | 2<br>Stationary part | Code | 3<br>Elastomers | Code | 4<br>Compression spring | 5<br>Collar | Code |
| Q1BEG    | ●            | 16 bar                 | - 30°C to + 120°C         | Unbalanced      | (-)  | SiC                 | (Q1) | Carbon               | (B)  | EPDM            | (E)  | AISI 316                |             | (G)  |
| BQ1VG    | ●            | 16 bar                 | - 30°C to + 80°C          | Unbalanced      | (-)  | Carbon              | (B)  | SiC                  | (Q1) | FPM             | (V)  | AISI 316                |             | (G)  |
| HQ1BEG   | ●            | 25 bar                 | - 30°C to + 140°C         | Balanced        | (H)  | SiC                 | (Q1) | Carbon               | (B)  | EPDM            | (E)  | AISI 316                |             | (G)  |
| HQ1BVG   | ●            | 25 bar                 | - 30°C to + 80°C          | Balanced        | (H)  | SiC                 | (Q1) | Carbon               | (B)  | FPM             | (V)  | AISI 316                |             | (G)  |
| HQgQ1EG  | ●            | 25 bar                 | - 30°C to + 140°C         | Balanced        | (H)  | SiC with graphite   | (Qg) | SiC                  | (Q1) | EPDM            | (E)  | AISI 316                |             | (G)  |
| HQgQ1VG  | ●            | 25 bar                 | - 30°C to + 80°C          | Balanced        | (H)  | SiC with graphite   | (Qg) | SiC                  | (Q1) | FPM             | (V)  | AISI 316                |             | (G)  |

● Available

| Pump model    | Shaft seal type |            | Max operating pressure | d1 [mm] | d2 [mm] | d3 [mm] | d4 [mm] | l [mm] |
|---------------|-----------------|------------|------------------------|---------|---------|---------|---------|--------|
| EVMS 1/3/5    | Cartridge       | Unbalanced | 16 bar                 | 16      | -       | 23      | 27      | 35     |
|               |                 | Balanced   | 25 bar                 |         | 20      |         |         | 42.5   |
| EVMS 10/15/20 | Cartridge       | Unbalanced | 16 bar                 | 20      | -       | 29      | 35      | 37.5   |
|               |                 | Balanced   | 25 bar                 |         | 24      |         |         | 45     |

### SHAFT SEAL EVMS(.).32-45-64-90

#### 1. Shaft Seal



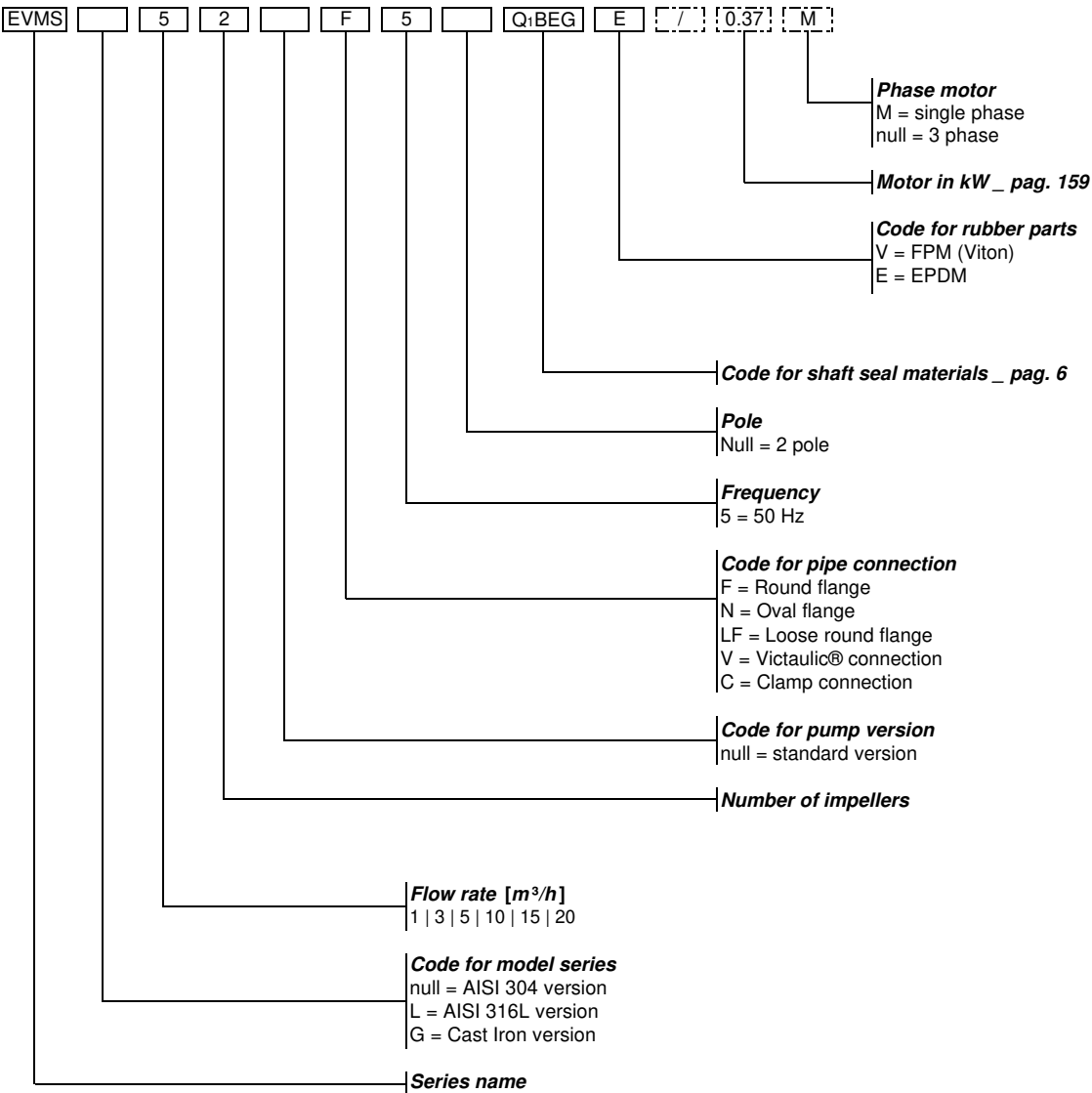
#### 2. Type of Shaft Seal and Dimensions [mm]

| Type key | Availability | Max operating pressure | Max operating temperature | Shaft seal type |      | Shaft seal material |      |                 |      |            |      |                    |        |      |      |
|----------|--------------|------------------------|---------------------------|-----------------|------|---------------------|------|-----------------|------|------------|------|--------------------|--------|------|------|
|          |              |                        |                           | Cartridge       |      | 1                   |      | 2               |      | 3          |      | 4                  |        | 5    |      |
|          |              |                        |                           | Type            | Code | Rotating part       | Code | Stationary part | Code | Elastomers | Code | Compression spring | Collar | Code | Code |
| BQ1EG    | ●            | 16 bar                 | - 30°C to + 120°C         | Unbalanced      | (-)  | Carbon              | (B)  | SiC             | Q1   | EPDM       | (E)  | AISI 316           | (G)    |      |      |
| BQ1VG    | ●            | 16 bar                 | - 30°C to + 80°C          | Unbalanced      | (-)  | Carbon              | (B)  | SiC             | Q1   | FPM        | (V)  | AISI 316           | (G)    |      |      |
| HQ1BEG   | ●            | 25/35 bar              | - 30°C to + 140°C         | Balanced        | (H)  | SiC                 | (Q1) | Carbon          | (B)  | EPDM       | (E)  | AISI 316           | (G)    |      |      |
| HQ1BVG   | ●            | 25/35 bar              | - 30°C to + 80°C          | Balanced        | (H)  | SiC                 | (Q1) | Carbon          | (B)  | FPM        | (V)  | AISI 316           | (G)    |      |      |
| HQgQ1EG  | ●            | 25/35 bar              | - 30°C to + 140°C         | Balanced        | (H)  | SiC with graphite   | (Qg) | SiC             | (Q1) | EPDM       | (E)  | AISI 316           | (G)    |      |      |
| HQgQ1VG  | ●            | 25/35 bar              | - 30°C to + 80°C          | Balanced        | (H)  | SiC with graphite   | (Qg) | SiC             | (Q1) | FPM        | (V)  | AISI 316           | (G)    |      |      |

● Available

| Pump model       | Shaft seal type |            | Max operating pressure | d1 [mm] | d2 [mm] | d3 [mm] | d4 [mm] | l [mm] | l1 [mm] |
|------------------|-----------------|------------|------------------------|---------|---------|---------|---------|--------|---------|
| EVMS 32/45/64/90 | Cartridge       | Unbalanced | 16 bar                 | 28      | -       | 37      | 43      | 50     | 42.5    |
|                  |                 | Balanced   | 25 bar                 |         | 33      |         |         |        | -       |
|                  |                 | Balanced   | 35 bar                 |         |         |         |         |        |         |

TYPE KEY  
EVMS(.)1-3-5-10-15-20



Example for **pump without motor**:  
EVMS5 2F5Q1BEG E

Example for **pump with motor**:  
EVMS5 2F5Q1BEG E/0.37M

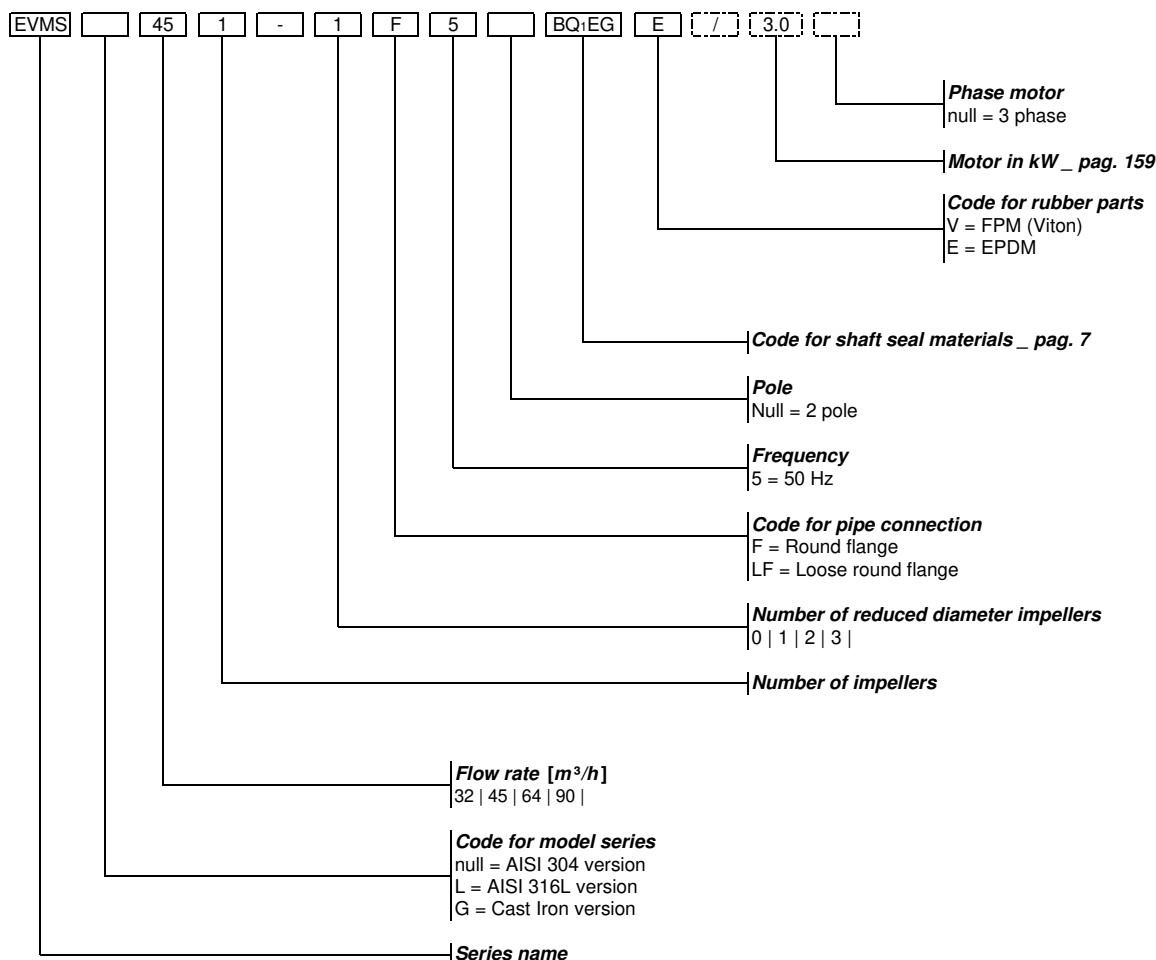
NAMEPLATE

|                                                                                                                                                                                                                                                                                                                                             |       |                                                                                     |   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------|---|
|  <div>EBARA Pumps Europe S.p.A.<br/>Via Campo Sportivo, 30<br/>38020 Gles (TN) Italy<br/>Phone +39 0444 706811<br/>V.A.T. 01259660201</div>  <div>MADE IN ITALY</div> |       |                                                                                     |   |
| TYPE                                                                                                                                                                                                                                                                                                                                        |       |                                                                                     |   |
|  P/N                                                                                                                                                                                                                                                     |       |  |   |
| Hmax                                                                                                                                                                                                                                                                                                                                        | m     | Hmin                                                                                | m |
| Q                                                                                                                                                                                                                                                                                                                                           | l/min | H                                                                                   | m |
| P2                                                                                                                                                                                                                                                                                                                                          | kW    | HP                                                                                  |   |
| Hz                                                                                                                                                                                                                                                                                                                                          |       | min <sup>-1</sup>                                                                   |   |
| MEI >                                                                                                                                                                                                                                                                                                                                       |       | Hyd. eff.                                                                           | % |

|             |                                                                      |
|-------------|----------------------------------------------------------------------|
| "TYPE"      | Pump model                                                           |
| "P/N"       | Pump item number                                                     |
| "Hmax"      | Maximum head                                                         |
| "Hmin"      | Minimum head                                                         |
| "Q"         | Indicates upper and lower flow rate limits                           |
| "H"         | Indicates head limits corresponding to minimum and maximum flow rate |
| "P2"        | Rated power of the motor (output at shaft)                           |
| "HP"        | Rated power of the motor expressed in HP (Horse Power)               |
| "Hz"        | Frequency                                                            |
| "min-1"     | Speed of rotation                                                    |
| "MEI"       | Index of the pump's quality in relation to its efficiency            |
| "Hyd. Eff." | Hydraulic efficiency of the pump                                     |



### TYPE KEY EVMS(.)32-45-64-90



Example for **pump without motor**:  
EVMS45 1-1F5BQ1EG E

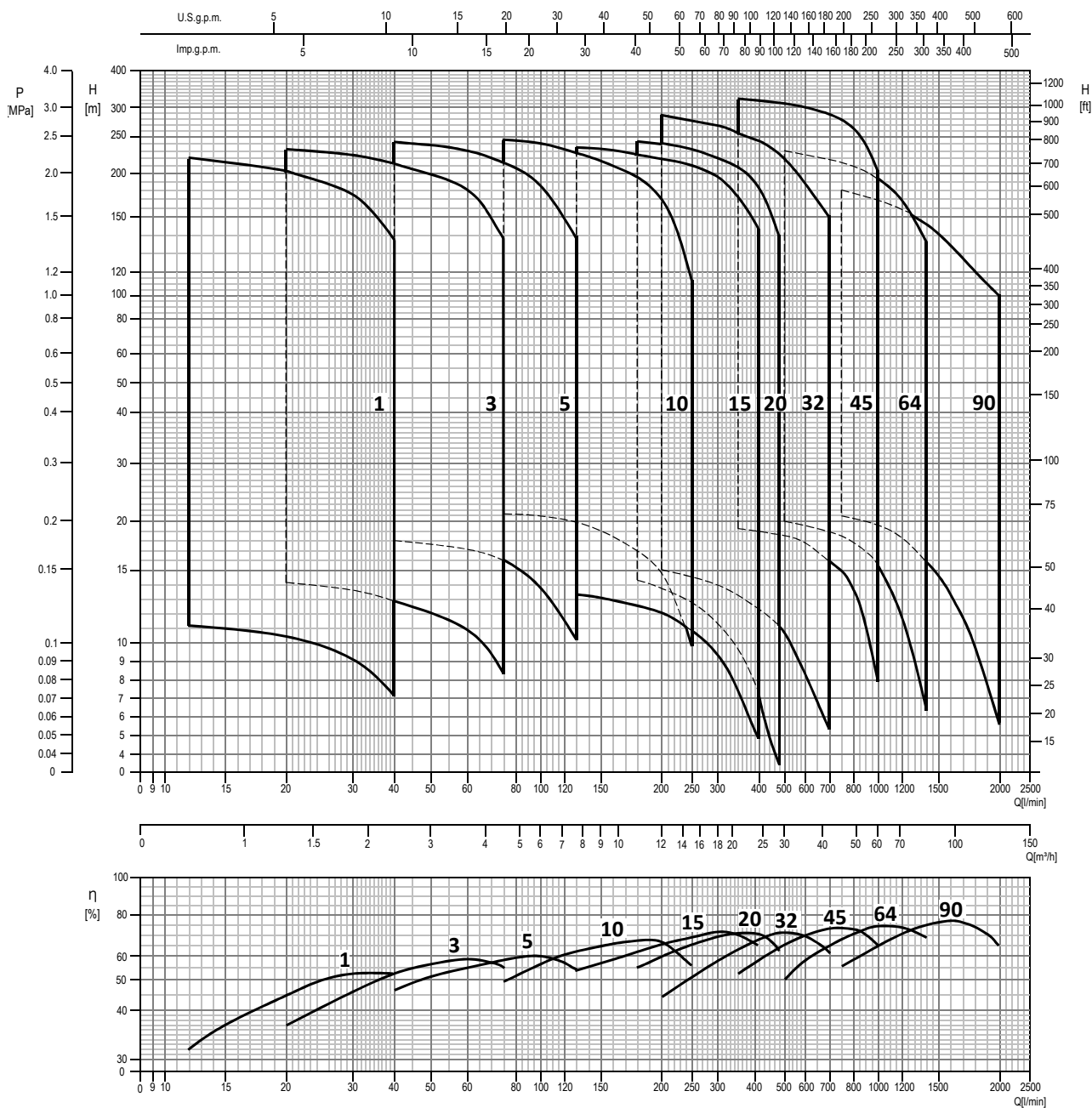
Example for **pump with motor**:  
EVMS45 1-1F5BQ1EG E/3.0

### NAMEPLATE

|                                                                                                                                     |           |                   |   |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------|---|
| <b>EBARA</b> Pumps Europe S.p.A.<br>Via Campo Sportivo, 30<br>36020 Gavi (PD) ITALY<br>Phone +39-0444 700811<br>FAX +39-0444 700821 |           |                   |   |
| MADE IN ITALY                                                                                                                       |           |                   |   |
| TYPE                                                                                                                                |           |                   |   |
| P/N                                                                                                                                 |           |                   |   |
| Hmax                                                                                                                                | m         | Hmin              | m |
| Q                                                                                                                                   | l/min     | H                 | m |
| P2                                                                                                                                  | kW        | HP                |   |
| Hz                                                                                                                                  |           | min <sup>-1</sup> |   |
| MEI >                                                                                                                               | Hyd. eff. |                   | % |

|                      |                                                                      |
|----------------------|----------------------------------------------------------------------|
| "TYPE"               | Pump model                                                           |
| "P/N"                | Pump item number                                                     |
| "Hmax"               | Maximum head                                                         |
| "Hmin"               | Minimum head                                                         |
| "Q"                  | Indicates upper and lower flow rate limits                           |
| "H"                  | Indicates head limits corresponding to minimum and maximum flow rate |
| "P2"                 | Rated power of the motor (output at shaft)                           |
| "HP"                 | Rated power of the motor expressed in HP (Horse Power)               |
| "Hz"                 | Frequency                                                            |
| "min <sup>-1</sup> " | Speed of rotation                                                    |
| "MEI"                | Index of the pump's quality in relation to its efficiency            |
| "Hyd. Eff."          | Hydraulic efficiency of the pump                                     |

PERFORMANCE RANGE  
EVMS(.)1-3-5-10-15-20-32-45-64-90



### CURVE SPECIFICATIONS

2.6

CURVE SPECIFICATIONS

The specifications below qualify the curves shown on the following pages.

Tolerances according to ISO 9906:2012 - Grade 3B.

Performance curves are defined with the following rotation speed (nominal rotation speed of the motor):

- up to 15 kW: 2900 rpm
- from 18.5 kW up to 30 kW: 2950 rpm
- 37 kW and 45 kW: 2975 rpm

Measurements were carried out with clean water at 20°C of temperature and with a kinematic viscosity of  $\nu = 1 \text{ mm}^2/\text{s}$  (1 cSt).

The NPSH curve is an average curve obtained in the same conditions of performance curves.

During the pump selection, consider to get a safety margin of at least 0.5 m.

The continuous curves indicate the recommended working range. The dotted curve is only a guide.

In order to avoid the risk of over-heating, the pumps should not be used at a flow rate below 10% of best efficiency point.

Symbols explanation:

- Q - volume flow rate
- H - total head
- $P_2$  - pump power input (shaft power)
- $\eta$  - pump efficiency
- NPSH - net positive suction head required by the pump
- MEI - minimum efficiency index
- $\varnothing D_2$  -  $P_2$  with full diameter
- $\varnothing D_2^*$  -  $P_2$  with reduced diameter

The minimum efficiency index (MEI) is a measure of the quality of a pump size in respect to its mean efficiency. The minimum efficiency index is based on the hydraulic efficiency and on the head at the best efficiency point.

The efficiency of a pump with trimmed impeller is usually lower than that of a pump with the full impeller diameter. The trimming of the impeller will adapt the pump to a fixed duty point, leading to a reduced energy consumption. The minimum efficiency index (MEI) is based on the full impeller diameter.

The operation of these water pumps with variable duty points may be more efficient and economical when controlled, for example, by the use of a variable speed drive that matches the pump duty to the system.

Information on benchmark efficiency is available at: [www.europump.org](http://www.europump.org) (Ecodesign section)

Information on benchmark efficiency graph for MEI = 0.7 for the pump are available at: [www.europump.org/efficiencycharts](http://www.europump.org/efficiencycharts) (refer to "Multistage Vertical 2900 rpm")

#### Minimum efficiency index (MEI)

| Pump type | MEI    |
|-----------|--------|
| EVMS(.)1  | > 0.70 |
| EVMS(.)3  | > 0.70 |
| EVMS(.)5  | > 0.70 |
| EVMS(.)10 | > 0.70 |
| EVMS(.)15 | > 0.70 |
| EVMS(.)20 | > 0.70 |
| EVMS(.)32 | > 0.60 |
| EVMS(.)45 | > 0.70 |
| EVMS(.)64 | > 0.40 |
| EVMS(.)90 | > 0.50 |

SELECTION CHART  
EVMS(.)1-3-5

|   | Pump Type         |                  | Motor |      |     | Maximum<br>working<br>pressure<br>[MPa] | Q=Capacity                        |      |      |      |      |      |      |      |      |     |   |
|---|-------------------|------------------|-------|------|-----|-----------------------------------------|-----------------------------------|------|------|------|------|------|------|------|------|-----|---|
|   |                   |                  |       |      |     |                                         | l/min                             | 0    | 12   | 20   | 30   | 40   | 60   | 75   | 100  | 130 |   |
|   | kW                | HP               | Size  | m³/h | 0   |                                         | 0.72                              | 1.2  | 1.8  | 2.4  | 3.6  | 4.5  | 6    | 7.8  |      |     |   |
|   | Single phase      | Three phase      |       |      |     |                                         | H=Total manometric head in metres |      |      |      |      |      |      |      |      |     |   |
| 1 | EVMS(.)1 2/0.37M  | EVMS(.)1 2/0.37  | 0.37  | 0.5  | 71  | 1.6                                     | 11.9                              | 11.2 | 10.4 | 9.1  | 7.1  | -    | -    | -    | -    | -   | - |
|   | EVMS(.)1 3/0.37M  | EVMS(.)1 3/0.37  | 0.37  | 0.5  | 71  | 1.6                                     | 17.9                              | 16.8 | 15.6 | 13.6 | 10.6 | -    | -    | -    | -    | -   | - |
|   | EVMS(.)1 4/0.37M  | EVMS(.)1 4/0.37  | 0.37  | 0.5  | 71  | 1.6                                     | 23.8                              | 22.4 | 20.8 | 18.2 | 14.2 | -    | -    | -    | -    | -   | - |
|   | EVMS(.)1 5/0.37M  | EVMS(.)1 5/0.37  | 0.37  | 0.5  | 71  | 1.6                                     | 30                                | 28   | 26   | 22.7 | 17.7 | -    | -    | -    | -    | -   | - |
|   | EVMS(.)1 6/0.37M  | EVMS(.)1 6/0.37  | 0.37  | 0.5  | 71  | 1.6                                     | 35.8                              | 33.6 | 31.2 | 27.3 | 21.2 | -    | -    | -    | -    | -   | - |
|   | EVMS(.)1 7/0.37M  | EVMS(.)1 7/0.37  | 0.37  | 0.5  | 71  | 1.6                                     | 41.5                              | 39.2 | 36.4 | 31.8 | 24.8 | -    | -    | -    | -    | -   | - |
|   | EVMS(.)1 8/0.37M  | EVMS(.)1 8/0.37  | 0.37  | 0.5  | 71  | 1.6                                     | 47.5                              | 44.5 | 41.5 | 36.4 | 28.3 | -    | -    | -    | -    | -   | - |
|   | EVMS(.)1 9/0.55M  | EVMS(.)1 9/0.55  | 0.55  | 0.75 | 71  | 1.6                                     | 53.5                              | 50.5 | 47   | 41   | 31.8 | -    | -    | -    | -    | -   | - |
|   | EVMS(.)1 10/0.55M | EVMS(.)1 10/0.55 | 0.55  | 0.75 | 71  | 1.6                                     | 59.6                              | 56   | 52   | 45.5 | 35.4 | -    | -    | -    | -    | -   | - |
|   | EVMS(.)1 11/0.55M | EVMS(.)1 11/0.55 | 0.55  | 0.75 | 71  | 1.6                                     | 65.5                              | 61.5 | 57   | 50   | 38.9 | -    | -    | -    | -    | -   | - |
|   | EVMS(.)1 12/0.55M | EVMS(.)1 12/0.55 | 0.55  | 0.75 | 71  | 1.6                                     | 71.5                              | 67   | 62.5 | 54.5 | 42.5 | -    | -    | -    | -    | -   | - |
|   | EVMS(.)1 13/0.55M | EVMS(.)1 13/0.55 | 0.55  | 0.75 | 71  | 1.6                                     | 77.5                              | 73   | 67.5 | 59   | 46   | -    | -    | -    | -    | -   | - |
|   | EVMS(.)1 14/0.75M | EVMS(.)1 14/0.75 | 0.75  | 1    | 80  | 1.6                                     | 83.5                              | 78.5 | 73   | 63.5 | 49.5 | -    | -    | -    | -    | -   | - |
|   | EVMS(.)1 16/0.75M | EVMS(.)1 16/0.75 | 0.75  | 1    | 80  | 1.6                                     | 95.5                              | 89.5 | 83   | 72.5 | 56.5 | -    | -    | -    | -    | -   | - |
|   | EVMS(.)1 18/1.1M  | EVMS(.)1 18/1.1  | 1.1   | 1.5  | 80  | 1.6                                     | 107                               | 101  | 93.5 | 82   | 63.5 | -    | -    | -    | -    | -   | - |
|   | EVMS(.)1 20/1.1M  | EVMS(.)1 20/1.1  | 1.1   | 1.5  | 80  | 1.6                                     | 119                               | 112  | 104  | 91   | 71   | -    | -    | -    | -    | -   | - |
|   | EVMS(.)1 22/1.1M  | EVMS(.)1 22/1.1  | 1.1   | 1.5  | 80  | 1.6                                     | 131                               | 123  | 114  | 100  | 78   | -    | -    | -    | -    | -   | - |
|   | EVMS(.)1 24/1.1M  | EVMS(.)1 24/1.1  | 1.1   | 1.5  | 80  | 1.6                                     | 143                               | 135  | 125  | 109  | 85   | -    | -    | -    | -    | -   | - |
|   | EVMS(.)1 26/1.1M  | EVMS(.)1 26/1.1  | 1.1   | 1.5  | 80  | 1.6                                     | 155                               | 146  | 135  | 118  | 92   | -    | -    | -    | -    | -   | - |
|   | EVMS(.)1 27/1.5M  | EVMS(.)1 27/1.5  | 1.5   | 2    | 90  | 2.5                                     | 161                               | 151  | 140  | 123  | 95.5 | -    | -    | -    | -    | -   | - |
|   | EVMS(.)1 29/1.5M  | EVMS(.)1 29/1.5  | 1.5   | 2    | 90  | 2.5                                     | 173                               | 163  | 151  | 132  | 103  | -    | -    | -    | -    | -   | - |
|   | EVMS(.)1 32/1.5M  | EVMS(.)1 32/1.5  | 1.5   | 2    | 90  | 2.5                                     | 191                               | 179  | 166  | 145  | 113  | -    | -    | -    | -    | -   | - |
|   | EVMS(.)1 34/1.5M  | EVMS(.)1 34/1.5  | 1.5   | 2    | 90  | 2.5                                     | 203                               | 191  | 177  | 155  | 120  | -    | -    | -    | -    | -   | - |
|   | EVMS(.)1 37/2.2M  | EVMS(.)1 37/2.2  | 2.2   | 3    | 90  | 2.5                                     | 221                               | 207  | 192  | 168  | 131  | -    | -    | -    | -    | -   | - |
|   | EVMS(.)1 39/2.2M  | EVMS(.)1 39/2.2  | 2.2   | 3    | 90  | 2.5                                     | 232                               | 219  | 203  | 177  | 138  | -    | -    | -    | -    | -   | - |
| 3 | EVMS(.)3 2/0.37M  | EVMS(.)3 2/0.37  | 0.37  | 0.5  | 71  | 1.6                                     | 14.7                              | -    | 14.1 | 13.6 | 12.9 | 10.9 | 8.3  | -    | -    | -   | - |
|   | EVMS(.)3 3/0.37M  | EVMS(.)3 3/0.37  | 0.37  | 0.5  | 71  | 1.6                                     | 22.1                              | -    | 21.1 | 20.4 | 19.4 | 16.4 | 12.5 | -    | -    | -   | - |
|   | EVMS(.)3 4/0.37M  | EVMS(.)3 4/0.37  | 0.37  | 0.5  | 71  | 1.6                                     | 29.5                              | -    | 28.2 | 27.1 | 25.8 | 21.9 | 16.7 | -    | -    | -   | - |
|   | EVMS(.)3 5/0.55M  | EVMS(.)3 5/0.55  | 0.55  | 0.75 | 71  | 1.6                                     | 36.9                              | -    | 35.2 | 33.9 | 32.3 | 27.4 | 20.9 | -    | -    | -   | - |
|   | EVMS(.)3 6/0.55M  | EVMS(.)3 6/0.55  | 0.55  | 0.75 | 71  | 1.6                                     | 44.2                              | -    | 42.5 | 40.5 | 38.8 | 32.8 | 25   | -    | -    | -   | - |
|   | EVMS(.)3 7/0.75M  | EVMS(.)3 7/0.75  | 0.75  | 1    | 80  | 1.6                                     | 51.5                              | -    | 49.5 | 47.5 | 45   | 38.3 | 29.2 | -    | -    | -   | - |
|   | EVMS(.)3 8/0.75M  | EVMS(.)3 8/0.75  | 0.75  | 1    | 80  | 1.6                                     | 59                                | -    | 56.5 | 54.5 | 51.5 | 44   | 33.4 | -    | -    | -   | - |
|   | EVMS(.)3 9/1.1M   | EVMS(.)3 9/1.1   | 1.1   | 1.5  | 80  | 1.6                                     | 66.5                              | -    | 63.5 | 61   | 58   | 49   | 37.6 | -    | -    | -   | - |
|   | EVMS(.)3 10/1.1M  | EVMS(.)3 10/1.1  | 1.1   | 1.5  | 80  | 1.6                                     | 73.5                              | -    | 70.5 | 68   | 64.5 | 54.5 | 41.5 | -    | -    | -   | - |
|   | EVMS(.)3 11/1.1M  | EVMS(.)3 11/1.1  | 1.1   | 1.5  | 80  | 1.6                                     | 81                                | -    | 77.5 | 74.5 | 71   | 60   | 46   | -    | -    | -   | - |
|   | EVMS(.)3 12/1.1M  | EVMS(.)3 12/1.1  | 1.1   | 1.5  | 80  | 1.6                                     | 88.5                              | -    | 84.5 | 81.5 | 77.5 | 65.5 | 50   | -    | -    | -   | - |
|   | EVMS(.)3 13/1.5M  | EVMS(.)3 13/1.5  | 1.5   | 2    | 90  | 1.6                                     | 96                                | -    | 91.5 | 88   | 84   | 71   | 54.5 | -    | -    | -   | - |
|   | EVMS(.)3 14/1.5M  | EVMS(.)3 14/1.5  | 1.5   | 2    | 90  | 1.6                                     | 103                               | -    | 98.5 | 95   | 90.5 | 76.5 | 58.5 | -    | -    | -   | - |
|   | EVMS(.)3 15/1.5M  | EVMS(.)3 15/1.5  | 1.5   | 2    | 90  | 1.6                                     | 111                               | -    | 106  | 102  | 97   | 82   | 62.5 | -    | -    | -   | - |
|   | EVMS(.)3 16/1.5M  | EVMS(.)3 16/1.5  | 1.5   | 2    | 90  | 1.6                                     | 118                               | -    | 113  | 109  | 103  | 87.5 | 67   | -    | -    | -   | - |
|   | EVMS(.)3 17/2.2M  | EVMS(.)3 17/2.2  | 2.2   | 3    | 90  | 1.6                                     | 125                               | -    | 120  | 115  | 110  | 93   | 71   | -    | -    | -   | - |
|   | EVMS(.)3 19/2.2M  | EVMS(.)3 19/2.2  | 2.2   | 3    | 90  | 1.6                                     | 140                               | -    | 134  | 129  | 123  | 104  | 79.5 | -    | -    | -   | - |
|   | EVMS(.)3 21/2.2M  | EVMS(.)3 21/2.2  | 2.2   | 3    | 90  | 1.6                                     | 155                               | -    | 148  | 142  | 136  | 115  | 87.5 | -    | -    | -   | - |
|   | EVMS(.)3 23/2.2M  | EVMS(.)3 23/2.2  | 2.2   | 3    | 90  | 2.5                                     | 170                               | -    | 162  | 156  | 149  | 126  | 96   | -    | -    | -   | - |
|   | EVMS(.)3 24/2.2M  | EVMS(.)3 24/2.2  | 2.2   | 3    | 90  | 2.5                                     | 177                               | -    | 169  | 163  | 155  | 131  | 100  | -    | -    | -   | - |
|   | -                 | EVMS(.)3 25/3.0  | 3.0   | 4    | 100 | 2.5                                     | 184                               | -    | 176  | 170  | 161  | 137  | 104  | -    | -    | -   | - |
|   | -                 | EVMS(.)3 27/3.0  | 3.0   | 4    | 100 | 2.5                                     | 199                               | -    | 190  | 183  | 174  | 148  | 113  | -    | -    | -   | - |
|   | -                 | EVMS(.)3 29/3.0  | 3.0   | 4    | 100 | 2.5                                     | 214                               | -    | 204  | 197  | 187  | 159  | 121  | -    | -    | -   | - |
|   | -                 | EVMS(.)3 31/3.0  | 3.0   | 4    | 100 | 2.5                                     | 229                               | -    | 218  | 210  | 200  | 170  | 129  | -    | -    | -   | - |
|   | -                 | EVMS(.)3 33/3.0  | 3.0   | 4    | 100 | 2.5                                     | 243                               | -    | 232  | 224  | 213  | 181  | 138  | -    | -    | -   | - |
| 5 | EVMS(.)5 2/0.37M  | EVMS(.)5 2/0.37  | 0.37  | 0.5  | 71  | 1.6                                     | 19                                | -    | -    | -    | 18   | 17.1 | 16   | 13.8 | 10.2 | -   | - |
|   | EVMS(.)5 3/0.55M  | EVMS(.)5 3/0.55  | 0.55  | 0.75 | 71  | 1.6                                     | 28.4                              | -    | -    | -    | 26.9 | 25.6 | 23.9 | 20.7 | 15.3 | -   | - |
|   | EVMS(.)5 4/0.75M  | EVMS(.)5 4/0.75  | 0.75  | 1    | 80  | 1.6                                     | 37.9                              | -    | -    | -    | 35.9 | 34.1 | 31.9 | 27.6 | 20.4 | -   | - |
|   | EVMS(.)5 5/1.1M   | EVMS(.)5 5/1.1   | 1.1   | 1.5  | 80  | 1.6                                     | 47.5                              | -    | -    | -    | 45   | 42.5 | 39.9 | 34.5 | 25.5 | -   | - |
|   | EVMS(.)5 6/1.5M   | EVMS(.)5 6/1.5   | 1.5   | 2    | 90  | 1.6                                     | 57                                | -    | -    | -    | 54   | 51   | 48   | 41.5 | 30.6 | -   | - |
|   | EVMS(.)5 7/1.5M   | EVMS(.)5 7/1.5   | 1.5   | 2    | 90  | 1.6                                     | 66.5                              | -    | -    | -    | 63   | 59.5 | 56   | 48.5 | 35.7 | -   | - |
|   | EVMS(.)5 8/2.2M   | EVMS(.)5 8/2.2   | 2.2   | 3    | 90  | 1.6                                     | 76                                | -    | -    | -    | 72   | 68   | 64   | 55   | 41   | -   | - |
|   | EVMS(.)5 9/2.2M   | EVMS(.)5 9/2.2   | 2.2   | 3    | 90  | 1.6                                     | 85.5                              | -    | -    | -    | 81   | 77   | 72   | 62   | 46   | -   | - |
|   | EVMS(.)5 10/2.2M  | EVMS(.)5 10/2.2  | 2.2   | 3    | 90  | 1.6                                     | 95                                | -    | -    | -    | 90   | 85.5 | 80   | 69   | 51   | -   | - |
|   | EVMS(.)5 11/2.2M  | EVMS(.)5 11/2.2  | 2.2   | 3    | 90  | 1.6                                     | 104                               | -    | -    | -    | 98.5 | 94   | 87.5 | 76   | 56   | -   | - |
|   | -                 | EVMS(.)5 12/3.0  | 3.0   | 4    | 100 | 1.6                                     | 114                               | -    | -    | -    | 108  | 102  | 95.5 | 83   | 61   | -   | - |
|   | -                 | EVMS(.)5 13/3.0  | 3.0   | 4    | 100 | 1.6                                     | 123                               | -    | -    | -    | 117  | 111  | 104  | 89.5 | 66.5 | -   | - |
|   | -                 | EVMS(.)5 14/3.0  | 3.0   | 4    | 100 | 1.6                                     | 133                               | -    | -    | -    | 126  | 119  | 112  | 96.5 | 71.5 | -   | - |
|   | -                 | EVMS(.)5 15/3.0  | 3.0   | 4    | 100 | 1.6                                     | 142                               | -    | -    | -    | 135  | 128  | 120  | 104  | 76.5 | -   | - |
|   | -                 | EVMS(.)5 17/4.0  | 4.0   | 5.5  | 112 | 1.6                                     | 161                               | -    | -    | -    | 153  | 145  | 136  | 117  | 86.5 | -   | - |
|   | -                 | EVMS(.)5 19/4.0  | 4.0   | 5.5  | 112 | 2.5                                     | 180                               | -    | -    | -    | 171  | 162  | 152  | 131  | 97   | -   | - |
|   | -                 | EVMS(.)5 20/4.0  | 4.0   | 5.5  | 112 | 2.5                                     | 190                               | -    | -    | -    | 179  | 171  | 160  | 138  | 102  | -   | - |
|   | -                 | EVMS(.)5 23/5.5  | 5.5   | 7.5  | 132 | 2.5                                     | 218                               | -    | -    | -    | 206  | 196  | 183  | 159  | 117  | -   | - |
|   | -                 | EVMS(.)5 25/5.5  | 5.5   | 7.5  | 132 | 2.5                                     | 237                               | -    | -    | -    | 224  | 213  | 199  | 173  | 127  | -   | - |
|   | -                 | EVMS(.)5 27/5.5  | 5.5   | 7.5  | 132 | 2.5                                     | 256                               | -    | -    | -    | 242  | 230  | 215  | 186  | 138  | -   | - |

1.6 MPa=16 bar;

2.5 MPa=25 bar

### SELECTION CHART EVMS(.)10-15-20

| Pump Type    |                   |                   | Motor |      |                                   | Maximum<br>working<br>pressure<br>[MPa] | Q=Capacity |      |      |      |      |      |      |      |      |      |      |      |      |  |  |  |  |
|--------------|-------------------|-------------------|-------|------|-----------------------------------|-----------------------------------------|------------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|
| Single phase | Three phase       | kW                | HP    | Size | l/min                             |                                         | 0          | 75   | 100  | 130  | 150  | 180  | 200  | 250  | 300  | 350  | 400  | 450  | 480  |  |  |  |  |
|              |                   |                   |       |      | m³/h                              |                                         | 0          | 4.5  | 6    | 7.8  | 9    | 10.8 | 12   | 15   | 18   | 21   | 24   | 27   | 28.8 |  |  |  |  |
|              |                   |                   |       |      | H=Total manometric head in metres |                                         |            |      |      |      |      |      |      |      |      |      |      |      |      |  |  |  |  |
| 10           | EVMS(.)10 2/0.75M | EVMS(.)10 2/0.75  | 0.75  | 1    | 80                                | 1.6                                     | 21.8       | 21.2 | 20.8 | 19.7 | 18.7 | 16.6 | 14.9 | 9.8  | -    | -    | -    | -    | -    |  |  |  |  |
|              | EVMS(.)10 3/1.5M  | EVMS(.)10 3/1.5   | 1.5   | 2    | 90                                | 1.6                                     | 32.7       | 31.8 | 31.2 | 29.6 | 28.0 | 24.9 | 22.4 | 14.7 | -    | -    | -    | -    | -    |  |  |  |  |
|              | EVMS(.)10 4/2.2M  | EVMS(.)10 4/2.2   | 2.2   | 3    | 90                                | 1.6                                     | 43.6       | 42.4 | 41.7 | 39.5 | 37.3 | 33.2 | 29.8 | 19.6 | -    | -    | -    | -    | -    |  |  |  |  |
|              | EVMS(.)10 5/2.2M  | EVMS(.)10 5/2.2   | 2.2   | 3    | 90                                | 1.6                                     | 54.5       | 53   | 52   | 49.3 | 46.7 | 41.5 | 37.3 | 24.6 | -    | -    | -    | -    | -    |  |  |  |  |
|              | EVMS(.)10 6/2.2M  | EVMS(.)10 6/2.2   | 2.2   | 3    | 90                                | 1.6                                     | 65.5       | 63.5 | 62.5 | 59   | 56   | 50   | 45   | 29.5 | -    | -    | -    | -    | -    |  |  |  |  |
|              | -                 | EVMS(.)10 7/3.0   | 3.0   | 4    | 100                               | 1.6                                     | 76.5       | 74   | 73   | 69   | 65.5 | 58   | 52   | 34.4 | -    | -    | -    | -    | -    |  |  |  |  |
|              | -                 | EVMS(.)10 8/3.0   | 3.0   | 4    | 100                               | 1.6                                     | 87.0       | 84.5 | 83.5 | 79   | 74.5 | 66.5 | 59.5 | 39.3 | -    | -    | -    | -    | -    |  |  |  |  |
|              | -                 | EVMS(.)10 9/4.0   | 4.0   | 5.5  | 112                               | 1.6                                     | 98         | 95.5 | 93.5 | 89   | 84   | 74.5 | 67   | 44   | -    | -    | -    | -    | -    |  |  |  |  |
|              | -                 | EVMS(.)10 10/4.0  | 4.0   | 5.5  | 112                               | 1.6                                     | 109        | 106  | 104  | 98.5 | 93.5 | 83   | 74.5 | 49   | -    | -    | -    | -    | -    |  |  |  |  |
|              | -                 | EVMS(.)10 11/4.0  | 4.0   | 5.5  | 112                               | 1.6                                     | 120        | 116  | 115  | 109  | 103  | 91.5 | 82   | 54   | -    | -    | -    | -    | -    |  |  |  |  |
|              | -                 | EVMS(.)10 12/5.5  | 5.5   | 7.5  | 132                               | 1.6                                     | 131        | 127  | 125  | 118  | 112  | 99.5 | 89.5 | 59   | -    | -    | -    | -    | -    |  |  |  |  |
|              | -                 | EVMS(.)10 14/5.5  | 5.5   | 7.5  | 132                               | 1.6                                     | 153        | 148  | 146  | 138  | 131  | 116  | 104  | 68.5 | -    | -    | -    | -    | -    |  |  |  |  |
|              | -                 | EVMS(.)10 15/5.5  | 5.5   | 7.5  | 132                               | 1.6                                     | 163        | 159  | 156  | 148  | 140  | 124  | 112  | 73.5 | -    | -    | -    | -    | -    |  |  |  |  |
|              | -                 | EVMS(.)10 16/7.5  | 7.5   | 10   | 132                               | 2.5                                     | 174        | 169  | 167  | 158  | 149  | 133  | 119  | 78.5 | -    | -    | -    | -    | -    |  |  |  |  |
|              | -                 | EVMS(.)10 18/7.5  | 7.5   | 10   | 132                               | 2.5                                     | 196        | 191  | 187  | 178  | 168  | 149  | 134  | 88.5 | -    | -    | -    | -    | -    |  |  |  |  |
|              | -                 | EVMS(.)10 19/7.5  | 7.5   | 10   | 132                               | 2.5                                     | 207        | 201  | 198  | 188  | 177  | 158  | 142  | 93.5 | -    | -    | -    | -    | -    |  |  |  |  |
|              | -                 | EVMS(.)10 21/7.5  | 7.5   | 10   | 132                               | 2.5                                     | 229        | 222  | 219  | 207  | 196  | 174  | 157  | 103  | -    | -    | -    | -    | -    |  |  |  |  |
|              | -                 | EVMS(.)10 22/11   | 11    | 15   | 160                               | 2.5                                     | 240        | 233  | 229  | 217  | 205  | 183  | 164  | 108  | -    | -    | -    | -    | -    |  |  |  |  |
|              | -                 | EVMS(.)10 23/11   | 11    | 15   | 160                               | 2.5                                     | 251        | 244  | 240  | 227  | 215  | 191  | 172  | 113  | -    | -    | -    | -    | -    |  |  |  |  |
| 15           | EVMS(.)15 1/1.1M  | EVMS(.)15 1/1.1   | 1.1   | 1.5  | 80                                | 1.6                                     | 14.9       | -    | -    | 13.3 | 13   | 12.4 | 12.1 | 10.8 | 9.5  | 7.5  | 4.8  | -    | -    |  |  |  |  |
|              | EVMS(.)15 2/2.2M  | EVMS(.)15 2/2.2   | 2.2   | 3    | 90                                | 1.6                                     | 29.5       | -    | -    | 27.5 | 27.1 | 26   | 26.1 | 24.9 | 23.1 | 20.4 | 16.8 | -    | -    |  |  |  |  |
|              | -                 | EVMS(.)15 3/3.0   | 3.0   | 4    | 100                               | 1.6                                     | 44.5       | -    | -    | 41.5 | 40.5 | 39.7 | 39.1 | 37.3 | 34.7 | 30.6 | 25.2 | -    | -    |  |  |  |  |
|              | -                 | EVMS(.)15 4/4.0   | 4.0   | 5.5  | 112                               | 1.6                                     | 59         | -    | -    | 55   | 54.5 | 53   | 52   | 50   | 46.5 | 41   | 33.6 | -    | -    |  |  |  |  |
|              | -                 | EVMS(.)15 5/5.5   | 5.5   | 7.5  | 132                               | 1.6                                     | 73.5       | -    | -    | 69   | 68   | 66   | 65   | 62   | 58   | 51   | 42   | -    | -    |  |  |  |  |
|              | -                 | EVMS(.)15 6/5.5   | 5.5   | 7.5  | 132                               | 1.6                                     | 88.5       | -    | -    | 82.5 | 81.5 | 79.5 | 78   | 74.5 | 69.5 | 61   | 50.5 | -    | -    |  |  |  |  |
|              | -                 | EVMS(.)15 7/7.5   | 7.5   | 10   | 132                               | 1.6                                     | 103        | -    | -    | 96.5 | 95.0 | 92.5 | 91   | 87   | 81   | 71.5 | 58.5 | -    | -    |  |  |  |  |
|              | -                 | EVMS(.)15 8/7.5   | 7.5   | 10   | 132                               | 1.6                                     | 118        | -    | -    | 110  | 109  | 106  | 104  | 99.5 | 92.5 | 81.5 | 67   | -    | -    |  |  |  |  |
|              | -                 | EVMS(.)15 9/11    | 11    | 15   | 160                               | 1.6                                     | 133        | -    | -    | 124  | 122  | 119  | 117  | 112  | 104  | 92   | 75.5 | -    | -    |  |  |  |  |
|              | -                 | EVMS(.)15 10/11   | 11    | 15   | 160                               | 1.6                                     | 147        | -    | -    | 138  | 136  | 132  | 130  | 124  | 116  | 102  | 84   | -    | -    |  |  |  |  |
|              | -                 | EVMS(.)15 11/11   | 11    | 15   | 160                               | 1.6                                     | 162        | -    | -    | 151  | 149  | 146  | 143  | 137  | 127  | 112  | 92.5 | -    | -    |  |  |  |  |
|              | -                 | EVMS(.)15 12/11   | 11    | 15   | 160                               | 2.5                                     | 177        | -    | -    | 165  | 163  | 159  | 156  | 149  | 139  | 122  | 101  | -    | -    |  |  |  |  |
|              | -                 | EVMS(.)15 13/11   | 11    | 15   | 160                               | 2.5                                     | 191        | -    | -    | 179  | 176  | 172  | 169  | 162  | 150  | 133  | 109  | -    | -    |  |  |  |  |
|              | -                 | EVMS(.)15 15/15   | 15    | 20   | 160                               | 2.5                                     | 221        | -    | -    | 206  | 203  | 199  | 195  | 187  | 174  | 153  | 126  | -    | -    |  |  |  |  |
|              | -                 | EVMS(.)15 17/15   | 15    | 20   | 160                               | 2.5                                     | 250        | -    | -    | 234  | 231  | 225  | 221  | 211  | 197  | 173  | 143  | -    | -    |  |  |  |  |
| 20           | EVMS(.)20 1/1.5M  | EVMS(.)20 1/1.5   | 1.5   | 2    | 90                                | 1.6                                     | 17.2       | -    | -    | -    | -    | 14.3 | 13.9 | 12.8 | 11.3 | 9.6  | 7.3  | 4.3  | 2.4  |  |  |  |  |
|              | -                 | EVMS(.)20 2/3.0   | 3.0   | 4    | 100                               | 1.6                                     | 33.7       | -    | -    | -    | -    | 30.4 | 29.9 | 28.9 | 27.7 | 26.2 | 23.6 | 19.9 | 17.4 |  |  |  |  |
|              | -                 | EVMS(.)20 3/4.0   | 4.0   | 5.5  | 112                               | 1.6                                     | 50.5       | -    | -    | -    | -    | 46   | 45   | 43.4 | 41.6 | 39.2 | 35.5 | 29.9 | 26.2 |  |  |  |  |
|              | -                 | EVMS(.)20 4/5.5   | 5.5   | 7.5  | 132                               | 1.6                                     | 67.4       | -    | -    | -    | -    | 61   | 60   | 58   | 55.4 | 52.3 | 47.3 | 39.8 | 34.9 |  |  |  |  |
|              | -                 | EVMS(.)20 5/7.5   | 7.5   | 10   | 132                               | 1.6                                     | 84.2       | -    | -    | -    | -    | 76.0 | 75   | 72.3 | 69.3 | 65.4 | 59   | 49.8 | 43.6 |  |  |  |  |
|              | -                 | EVMS(.)20 6/7.5   | 7.5   | 10   | 132                               | 1.6                                     | 101        | -    | -    | -    | -    | 91.2 | 90   | 87   | 83.1 | 78.5 | 71   | 59.7 | 52.3 |  |  |  |  |
|              | -                 | EVMS(.)20 7/11    | 11    | 15   | 160                               | 1.6                                     | 118        | -    | -    | -    | -    | 106  | 105  | 101  | 97   | 91.5 | 82.7 | 70   | 61.1 |  |  |  |  |
|              | -                 | EVMS(.)20 8/11    | 11    | 15   | 160                               | 1.6                                     | 135        | -    | -    | -    | -    | 122  | 120  | 116  | 111  | 105  | 95   | 80   | 70   |  |  |  |  |
|              | -                 | EVMS(.)20 9/11    | 11    | 15   | 160                               | 1.6                                     | 152        | -    | -    | -    | -    | 137  | 135  | 130  | 125  | 118  | 106  | 89.6 | 79   |  |  |  |  |
|              | -                 | EVMS(.)20 10/11   | 11    | 15   | 160                               | 2.5                                     | 168        | -    | -    | -    | -    | 152  | 150  | 145  | 139  | 131  | 118  | 100  | 87   |  |  |  |  |
|              | -                 | EVMS(.)20 11/15   | 15    | 20   | 160                               | 2.5                                     | 185        | -    | -    | -    | -    | 167  | 165  | 159  | 152  | 144  | 130  | 110  | 96   |  |  |  |  |
|              | -                 | EVMS(.)20 12/15   | 15    | 20   | 160                               | 2.5                                     | 202        | -    | -    | -    | -    | 182  | 179  | 173  | 166  | 157  | 142  | 119  | 105  |  |  |  |  |
|              | -                 | EVMS(.)20 13/15   | 15    | 20   | 160                               | 2.5                                     | 219        | -    | -    | -    | -    | 198  | 194  | 188  | 180  | 170  | 154  | 129  | 113  |  |  |  |  |
|              | -                 | EVMS(.)20 14/18.5 | 18.5  | 25   | 160                               | 2.5                                     | 244        | -    | -    | -    | -    | 221  | 217  | 210  | 202  | 191  | 175  | 149  | 130  |  |  |  |  |
|              | -                 | EVMS(.)20 15/18.5 | 18.5  | 25   | 160                               | 2.5                                     | 262        | -    | -    | -    | -    | 237  | 232  | 225  | 216  | 205  | 186  | 159  | 141  |  |  |  |  |
|              | -                 | EVMS(.)20 16/18.5 | 18.5  | 25   | 160                               | 2.5                                     | 279        | -    | -    | -    | -    | 252  | 248  | 240  | 231  | 218  | 199  | 170  | 150  |  |  |  |  |

1.6 MPa=16 bar;      2.5 MPa=25 bar



SELECTION CHART  
EVMS(.)32-45

|                  | Pump Type          |      |             |      | Maximum<br>working<br>pressure<br>(MPa) | Q=Capacity                        |      |      |      |      |      |      |      |      |      |
|------------------|--------------------|------|-------------|------|-----------------------------------------|-----------------------------------|------|------|------|------|------|------|------|------|------|
|                  |                    | kW   | Motor<br>HP | Size |                                         | l/min                             | 0    | 200  | 350  | 500  | 600  | 700  | 800  | 900  | 1000 |
|                  |                    |      |             |      |                                         | m³/h                              | 0    | 12   | 21   | 30   | 36   | 42   | 48   | 54   | 60   |
| Three phase      |                    |      |             |      |                                         | H=Total manometric head in metres |      |      |      |      |      |      |      |      |      |
| 32               | EVMS(.32 1-1/1.5   | 1.5  | 2           | 90   | 1.6                                     | 17.1                              | 15   | 12.7 | 10.8 | 8.3  | 5.3  | -    | -    | -    |      |
|                  | EVMS(.32 1-0/2.2   | 2.2  | 3           | 90   | 1.6                                     | 20.2                              | 18.8 | 16.0 | 13.2 | 11   | 7.9  | -    | -    | -    |      |
|                  | EVMS(.32 2-2/3.0   | 3.0  | 4           | 100  | 1.6                                     | 34.5                              | 31   | 28.5 | 23.5 | 19.2 | 13.4 | -    | -    | -    |      |
|                  | EVMS(.32 2-0/4.0   | 4.0  | 5.5         | 112  | 1.6                                     | 43                                | 40   | 34.8 | 28.5 | 23.8 | 17.9 | -    | -    | -    |      |
|                  | EVMS(.32 3-2/5.5   | 5.5  | 7.5         | 132  | 1.6                                     | 57                                | 52   | 46   | 37.8 | 31.4 | 23.3 | -    | -    | -    |      |
|                  | EVMS(.32 3-0/5.5   | 5.5  | 7.5         | 132  | 1.6                                     | 63                                | 59   | 52   | 43   | 36.4 | 28.2 | -    | -    | -    |      |
|                  | EVMS(.32 4-2/7.5   | 7.5  | 10          | 132  | 1.6                                     | 76.5                              | 71   | 62   | 52.5 | 44   | 33.3 | -    | -    | -    |      |
|                  | EVMS(.32 4-0/7.5   | 7.5  | 10          | 132  | 1.6                                     | 83.5                              | 79   | 70   | 58   | 49.5 | 38.7 | -    | -    | -    |      |
|                  | EVMS(.32 5-2/11    | 11   | 15          | 160  | 1.6                                     | 100                               | 92.5 | 80   | 66.5 | 55.5 | 41.5 | -    | -    | -    |      |
|                  | EVMS(.32 5-0/11    | 11   | 15          | 160  | 1.6                                     | 105                               | 99   | 87   | 72.5 | 62   | 48   | -    | -    | -    |      |
|                  | EVMS(.32 6-2/11    | 11   | 15          | 160  | 1.6                                     | 119                               | 111  | 98   | 81   | 68   | 51.5 | -    | -    | -    |      |
|                  | EVMS(.32 6-0/11    | 11   | 15          | 160  | 1.6                                     | 127                               | 121  | 104  | 86.5 | 74   | 57.5 | -    | -    | -    |      |
|                  | EVMS(.32 7-2/15    | 15   | 20          | 160  | 1.6                                     | 139                               | 130  | 115  | 95.5 | 80.5 | 62   | -    | -    | -    |      |
|                  | EVMS(.32 7-0/15    | 15   | 20          | 160  | 1.6                                     | 146                               | 138  | 122  | 101  | 86   | 67   | -    | -    | -    |      |
|                  | EVMS(.32 8-2/15    | 15   | 20          | 160  | 2.5                                     | 160                               | 150  | 132  | 110  | 93.5 | 72.5 | -    | -    | -    |      |
|                  | EVMS(.32 8-0/15    | 15   | 20          | 160  | 2.5                                     | 167                               | 159  | 140  | 117  | 99.5 | 79.5 | -    | -    | -    |      |
|                  | EVMS(.32 9-2/15    | 15   | 20          | 160  | 2.5                                     | 182                               | 171  | 151  | 127  | 108  | 83.5 | -    | -    | -    |      |
|                  | EVMS(.32 9-1/15    | 15   | 20          | 160  | 2.5                                     | 187                               | 178  | 157  | 132  | 115  | 90   | -    | -    | -    |      |
|                  | EVMS(.32 10-2/18.5 | 18.5 | 25          | 160  | 2.5                                     | 210                               | 198  | 176  | 147  | 126  | 100  | -    | -    | -    |      |
|                  | EVMS(.32 10-0/18.5 | 18.5 | 25          | 160  | 2.5                                     | 216                               | 206  | 180  | 151  | 130  | 104  | -    | -    | -    |      |
|                  | EVMS(.32 11-2/18.5 | 18.5 | 25          | 160  | 2.5                                     | 233                               | 219  | 194  | 163  | 139  | 112  | -    | -    | -    |      |
|                  | EVMS(.32 11-1/18.5 | 18.5 | 25          | 160  | 2.5                                     | 239                               | 228  | 201  | 169  | 145  | 116  | -    | -    | -    |      |
|                  | EVMS(.32 12-2/22   | 22   | 30          | 180  | 3.0                                     | 253                               | 238  | 210  | 178  | 153  | 121  | -    | -    | -    |      |
|                  | EVMS(.32 12-0/22   | 22   | 30          | 180  | 3.0                                     | 255                               | 243  | 215  | 182  | 155  | 126  | -    | -    | -    |      |
|                  | EVMS(.32 13-2/22   | 22   | 30          | 180  | 3.0                                     | 272                               | 257  | 229  | 195  | 167  | 136  | -    | -    | -    |      |
|                  | EVMS(.32 13-0/22   | 22   | 30          | 180  | 3.0                                     | 278                               | 264  | 235  | 200  | 171  | 139  | -    | -    | -    |      |
| EVMS(.32 14-2/30 | 30                 | 40   | 200         | 3.0  | 290                                     | 276                               | 247  | 212  | 182  | 144  | -    | -    | -    |      |      |
| EVMS(.32 14-0/30 | 30                 | 40   | 200         | 3.0  | 300                                     | 285                               | 253  | 218  | 186  | 152  | -    | -    | -    |      |      |
| 45               | EVMS(.45 1-1/3.0   | 3.0  | 4           | 100  | 1.6                                     | 25.1                              | -    | 19.2 | 18.3 | 17.5 | 15.9 | 13.9 | 11   | 7.9  |      |
|                  | EVMS(.45 1-0/4.0   | 4.0  | 5.5         | 112  | 1.6                                     | 28.4                              | -    | 24.7 | 23.2 | 22.1 | 20.4 | 18.6 | 16.7 | 14.3 |      |
|                  | EVMS(.45 2-2/5.5   | 5.5  | 7.5         | 132  | 1.6                                     | 48.5                              | -    | 38.5 | 36.8 | 35.1 | 31.7 | 27.7 | 22.6 | 16.3 |      |
|                  | EVMS(.45 2-0/7.5   | 7.5  | 10          | 132  | 1.6                                     | 54                                | -    | 49   | 46.5 | 44.5 | 41.5 | 38.1 | 33.6 | 28.7 |      |
|                  | EVMS(.45 3-2/11    | 11   | 15          | 160  | 1.6                                     | 77                                | -    | 63   | 60   | 57   | 52   | 46.5 | 39.4 | 30.8 |      |
|                  | EVMS(.45 3-0/11    | 11   | 15          | 160  | 1.6                                     | 81                                | -    | 73   | 69.5 | 67   | 63   | 57.5 | 50.5 | 44   |      |
|                  | EVMS(.45 4-2/15    | 15   | 20          | 160  | 1.6                                     | 102                               | -    | 87.5 | 83   | 79.5 | 73.5 | 66   | 56   | 45   |      |
|                  | EVMS(.45 4-0/15    | 15   | 20          | 160  | 1.6                                     | 105                               | -    | 97.5 | 92   | 89.5 | 83.5 | 76.5 | 68.5 | 58   |      |
|                  | EVMS(.45 5-2/18.5  | 18.5 | 25          | 160  | 1.6                                     | 130                               | -    | 116  | 110  | 106  | 99.5 | 90   | 79   | 65   |      |
|                  | EVMS(.45 5-0/18.5  | 18.5 | 25          | 160  | 1.6                                     | 134                               | -    | 125  | 119  | 116  | 109  | 101  | 90.5 | 78.5 |      |
|                  | EVMS(.45 6-2/22    | 22   | 30          | 180  | 2.5                                     | 158                               | -    | 140  | 133  | 130  | 122  | 111  | 98   | 81.5 |      |
|                  | EVMS(.45 6-0/22    | 22   | 30          | 180  | 2.5                                     | 162                               | -    | 151  | 143  | 139  | 132  | 121  | 109  | 94   |      |
|                  | EVMS(.45 7-2/30    | 30   | 40          | 200  | 2.5                                     | 181                               | -    | 165  | 157  | 153  | 144  | 131  | 116  | 98.5 |      |
|                  | EVMS(.45 7-0/30    | 30   | 40          | 200  | 2.5                                     | 186                               | -    | 175  | 167  | 162  | 154  | 142  | 127  | 110  |      |
|                  | EVMS(.45 8-2/30    | 30   | 40          | 200  | 2.5                                     | 209                               | -    | 192  | 183  | 178  | 169  | 154  | 137  | 117  |      |
|                  | EVMS(.45 8-0/30    | 30   | 40          | 200  | 2.5                                     | 212                               | -    | 200  | 191  | 187  | 177  | 163  | 147  | 127  |      |
|                  | EVMS(.45 9-2/30    | 30   | 40          | 200  | 2.5                                     | 233                               | -    | 214  | 205  | 200  | 189  | 173  | 153  | 129  |      |
|                  | EVMS(.45 9-0/37    | 37   | 50          | 200  | 2.5                                     | 243                               | -    | 229  | 218  | 214  | 203  | 188  | 170  | 147  |      |
|                  | EVMS(.45 10-2/37   | 37   | 50          | 200  | 3.5                                     | 269                               | -    | 246  | 233  | 227  | 213  | 196  | 174  | 147  |      |
|                  | EVMS(.45 10-0/37   | 37   | 50          | 200  | 3.5                                     | 269                               | -    | 253  | 243  | 236  | 225  | 208  | 188  | 163  |      |
|                  | EVMS(.45 11-2/45   | 45   | 60          | 225  | 3.5                                     | 298                               | -    | 272  | 258  | 250  | 236  | 217  | 193  | 164  |      |
|                  | EVMS(.45 11-0/45   | 45   | 60          | 225  | 3.5                                     | 296                               | -    | 279  | 267  | 260  | 248  | 229  | 207  | 179  |      |
|                  | EVMS(.45 12-2/45   | 45   | 60          | 225  | 3.5                                     | 326                               | -    | 297  | 282  | 275  | 259  | 238  | 213  | 181  |      |
|                  | EVMS(.45 12-0/45   | 45   | 60          | 225  | 3.5                                     | 323                               | -    | 304  | 292  | 284  | 270  | 250  | 225  | 196  |      |
|                  | EVMS(.45 13-2/45   | 45   | 60          | 225  | 3.5                                     | 342                               | -    | 320  | 307  | 300  | 286  | 264  | 234  | 203  |      |

1.6 MPa=16 bar;

2.5 MPa=25 bar;

3.0 MPa=30 bar;

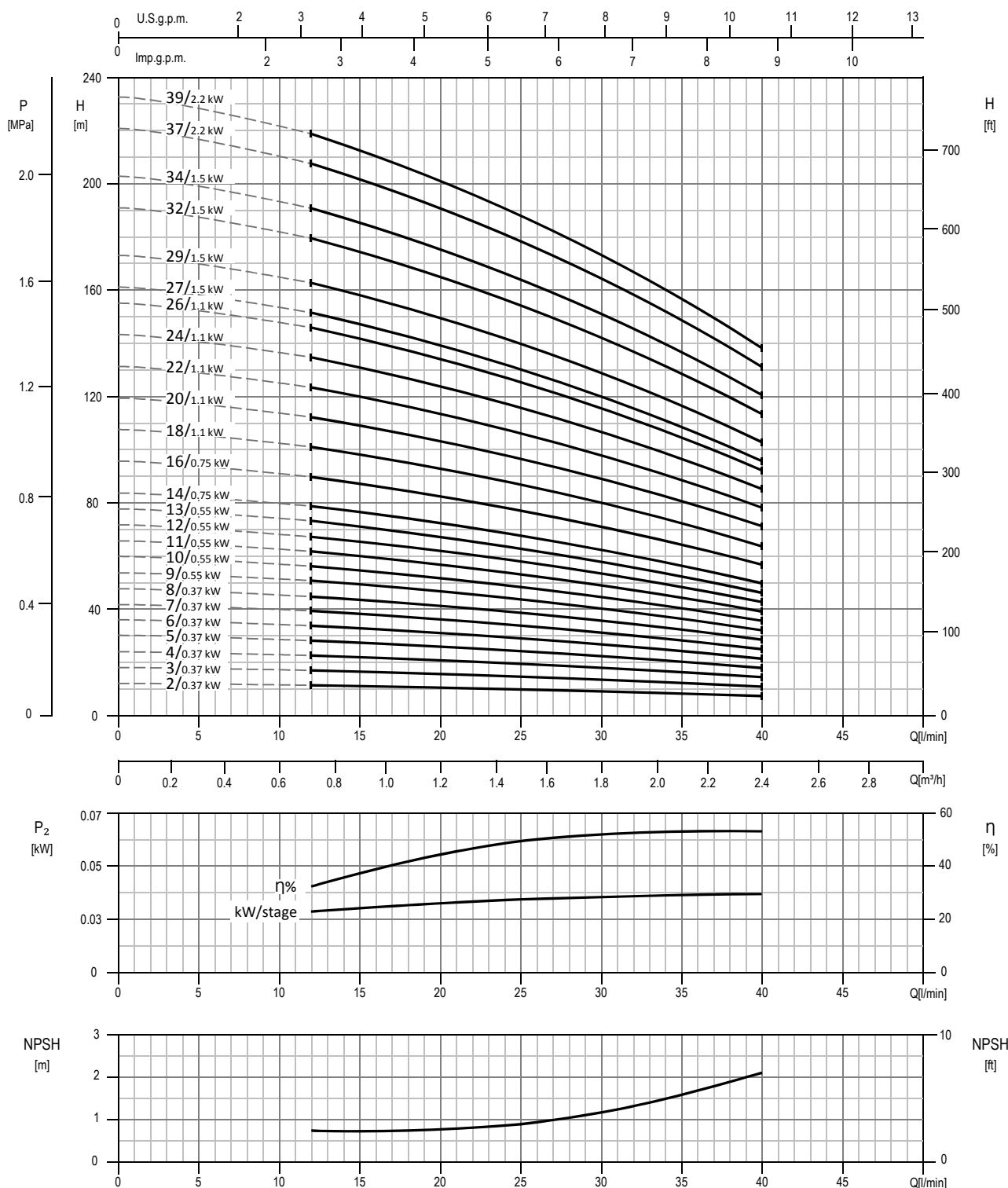
3.5 MPa=35 bar

### SELECTION CHART EVMS(.)64-90

|                 | Pump Type         | Motor |     |      | Maximum<br>working<br>pressure<br>(MPa) | Q=Capacity                        |      |      |      |      |      |      |      |      |      |      |      |      |
|-----------------|-------------------|-------|-----|------|-----------------------------------------|-----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
|                 |                   | kW    | HP  | Size |                                         | H=Total manometric head in metres |      |      |      |      |      |      |      |      |      |      |      |      |
|                 |                   |       |     |      |                                         | l/min<br>m³/h                     | 0    | 500  | 600  | 750  | 1000 | 1200 | 1230 | 1330 | 1400 | 1600 | 1800 | 2000 |
|                 |                   |       |     |      |                                         |                                   |      |      |      |      |      |      |      |      |      |      |      |      |
| 64              | EVMS(.64 1-1/4.0  | 4.0   | 5.5 | 112  | 1.6                                     | 21,4                              | 19   | 18,7 | 17,7 | 14,4 | 10,4 | 9,5  | 6,4  | 5,9  | -    | -    | -    | -    |
|                 | EVMS(.64 1-0/5.5  | 5,5   | 7,5 | 132  | 1.6                                     | 33,2                              | 26,8 | 26,9 | 25,1 | 21   | 17,8 | 17,1 | 14,3 | 14   | -    | -    | -    | -    |
|                 | EVMS(.64 2-2/7.5  | 7,5   | 10  | 132  | 1.6                                     | 42,5                              | 37,7 | 37,6 | 36,4 | 30,6 | 22,9 | 22,1 | 20,7 | 12,8 | -    | -    | -    | -    |
|                 | EVMS(.64 2-1/11   | 11    | 15  | 160  | 1.6                                     | 53                                | 46,5 | 45,5 | 43,5 | 35,9 | 29,9 | 28,6 | 23,3 | 22,9 | -    | -    | -    | -    |
|                 | EVMS(.64 2-0/15   | 15    | 20  | 160  | 1.6                                     | 64                                | 54   | 51,5 | 49,5 | 42,5 | 36,8 | 35,4 | 30   | 29,7 | -    | -    | -    | -    |
|                 | EVMS(.64 3-2/15   | 15    | 20  | 160  | 1.6                                     | 74                                | 64,5 | 64   | 61,5 | 51,5 | 42   | 38,4 | 35,3 | 31   | -    | -    | -    | -    |
|                 | EVMS(.64 3-1/15   | 15    | 20  | 160  | 1.6                                     | 84,5                              | 74,5 | 72   | 68,5 | 58,5 | 49   | 47,5 | 41   | 37,9 | -    | -    | -    | -    |
|                 | EVMS(.64 3-0/18.5 | 18.5  | 25  | 160  | 1.6                                     | 98                                | 83,5 | 79   | 75   | 69   | 56,5 | 54,5 | 47,5 | 48   | -    | -    | -    | -    |
|                 | EVMS(.64 4-2/18.5 | 18.5  | 25  | 160  | 1.6                                     | 108                               | 95,5 | 94   | 90   | 77,5 | 65   | 62,5 | 53,5 | 49,5 | -    | -    | -    | -    |
|                 | EVMS(.64 4-1/22   | 22    | 30  | 180  | 1.6                                     | 116                               | 103  | 97   | 95   | 85   | 71,5 | 70   | 66   | 56,5 | -    | -    | -    | -    |
|                 | EVMS(.64 4-0/22   | 22    | 30  | 180  | 1.6                                     | 126                               | 108  | 101  | 100  | 91   | 80   | 77,5 | 68   | 64,5 | -    | -    | -    | -    |
|                 | EVMS(.64 5-2/30   | 30    | 40  | 200  | 1.6                                     | 136                               | 120  | 116  | 114  | 99   | 85   | 82,5 | 71,5 | 66,5 | -    | -    | -    | -    |
|                 | EVMS(.64 5-1/30   | 30    | 40  | 200  | 1.6                                     | 146                               | 130  | 123  | 120  | 107  | 93,5 | 90   | 76,5 | 76   | -    | -    | -    | -    |
|                 | EVMS(.64 5-0/30   | 30    | 40  | 200  | 1.6                                     | 156                               | 137  | 129  | 126  | 115  | 101  | 98   | 87   | 82   | -    | -    | -    | -    |
|                 | EVMS(.64 6-2/30   | 30    | 40  | 200  | 2.5                                     | 164                               | 144  | 142  | 138  | 124  | 107  | 103  | 86   | 86   | -    | -    | -    | -    |
|                 | EVMS(.64 6-1/37   | 37    | 50  | 200  | 2.5                                     | 172                               | 154  | 147  | 143  | 131  | 114  | 110  | 94,5 | 92,5 | -    | -    | -    | -    |
|                 | EVMS(.64 6-0/37   | 37    | 50  | 200  | 2.5                                     | 183                               | 162  | 156  | 151  | 141  | 125  | 122  | 106  | 100  | -    | -    | -    | -    |
|                 | EVMS(.64 7-2/37   | 37    | 50  | 200  | 2.5                                     | 196                               | 173  | 170  | 165  | 148  | 129  | 127  | 113  | 104  | -    | -    | -    | -    |
|                 | EVMS(.64 7-1/37   | 37    | 50  | 200  | 2.5                                     | 209                               | 185  | 176  | 171  | 157  | 138  | 134  | 117  | 111  | -    | -    | -    | -    |
|                 | EVMS(.64 7-0/45   | 45    | 60  | 225  | 2.5                                     | 225                               | 198  | 194  | 185  | 166  | 146  | 142  | 123  | 119  | -    | -    | -    | -    |
| EVMS(.64 8-2/45 | 45                | 60    | 225 | 2.5  | 237                                     | 210                               | 205  | 198  | 176  | 152  | 147  | 132  | 122  | -    | -    | -    | -    |      |
| EVMS(.64 8-1/45 | 45                | 60    | 225 | 2.5  | 248                                     | 220                               | 211  | 204  | 183  | 158  | 154  | 139  | 130  | -    | -    | -    | -    |      |
| EVMS(.64 8-0/45 | 45                | 60    | 225 | 2.5  | 258                                     | 226                               | 218  | 211  | 191  | 167  | 163  | 147  | 138  | -    | -    | -    | -    |      |
| 90              | EVMS(.90 1-1/5.5  | 5,5   | 7,5 | 132  | 1.6                                     | 26,7                              | -    | -    | 20,9 | 19,6 | 18,2 | 17,9 | 16,8 | 15,9 | 12,7 | 9,2  | 5,4  | -    |
|                 | EVMS(.90 1-0/7.5  | 7,5   | 10  | 132  | 1.6                                     | 35,8                              | -    | -    | 28,1 | 25,1 | 22,9 | 22,6 | 21,6 | 20,9 | 18,4 | 14,8 | 11   | -    |
|                 | EVMS(.90 2-2/11   | 11    | 15  | 160  | 1.6                                     | 53,5                              | -    | -    | 42   | 39,2 | 36,3 | 35,7 | 33,5 | 31,7 | 25,5 | 18,3 | 10,7 | -    |
|                 | EVMS(.90 2-0/15   | 15    | 20  | 160  | 1.6                                     | 69                                | -    | -    | 56,5 | 51   | 47   | 46,5 | 44,5 | 43,5 | 38,6 | 32,2 | 25,4 | -    |
|                 | EVMS(.90 3-2/18.5 | 18,5  | 25  | 160  | 1.6                                     | 86,5                              | -    | -    | 70   | 65,5 | 61   | 60   | 57   | 54,5 | 46   | 36   | 25,5 | -    |
|                 | EVMS(.90 3-0/22   | 22    | 30  | 180  | 1.6                                     | 103                               | -    | -    | 88   | 81,5 | 76   | 75   | 72   | 70   | 63,5 | 54,5 | 45   | -    |
|                 | EVMS(.90 4-2/30   | 30    | 40  | 200  | 1.6                                     | 124                               | -    | -    | 102  | 95   | 88   | 87   | 83   | 79,5 | 68,5 | 55,5 | 41,5 | -    |
|                 | EVMS(.90 4-0/30   | 30    | 40  | 200  | 1.6                                     | 138                               | -    | -    | 117  | 108  | 101  | 100  | 96,5 | 93,5 | 84,5 | 73   | 60   | -    |
|                 | EVMS(.90 5-2/37   | 37    | 50  | 200  | 2.5                                     | 161                               | -    | -    | 133  | 124  | 116  | 114  | 109  | 105  | 92,5 | 76   | 58,5 | -    |
|                 | EVMS(.90 5-0/37   | 37    | 50  | 200  | 2.5                                     | 171                               | -    | -    | 149  | 139  | 130  | 129  | 124  | 121  | 110  | 96,5 | 82   | -    |
|                 | EVMS(.90 6-2/45   | 45    | 60  | 225  | 2.5                                     | 193                               | -    | -    | 163  | 152  | 142  | 141  | 135  | 130  | 115  | 96,5 | 77,5 | -    |
|                 | EVMS(.90 6-0/45   | 45    | 60  | 225  | 2.5                                     | 205                               | -    | -    | 179  | 167  | 156  | 155  | 149  | 145  | 132  | 115  | 98,5 | -    |

1.6 MPa=16 bar; 2.5 MPa=25 bar

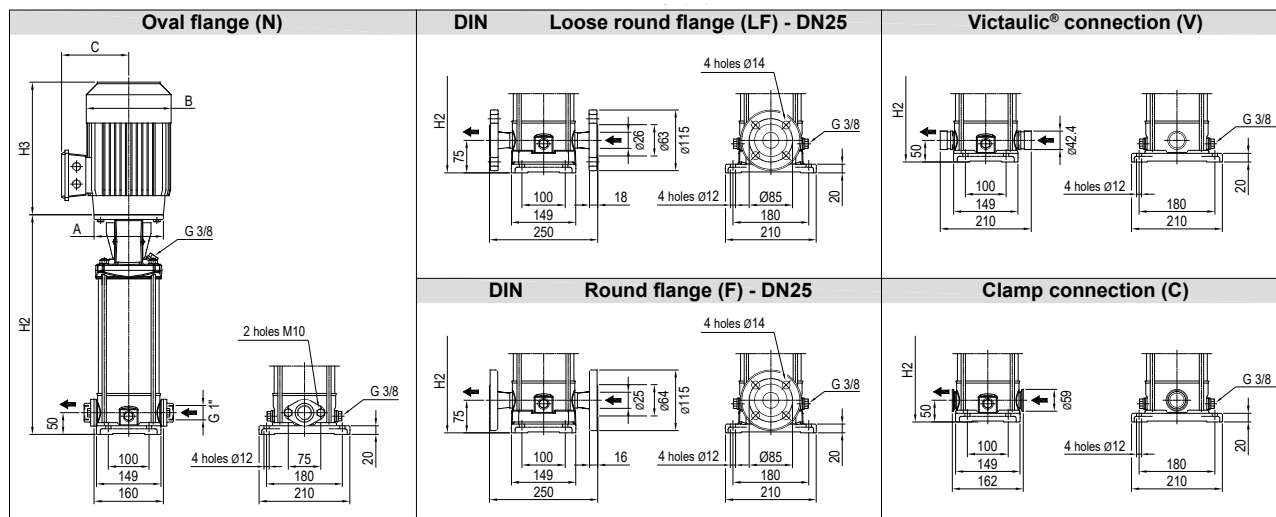
PERFORMANCE CURVE  
EVMS(L)1



Test standard: ISO 9906:2012 - Grade 3B

### TECHNICAL DATA EVMS(L)1

#### Dimensional sketch



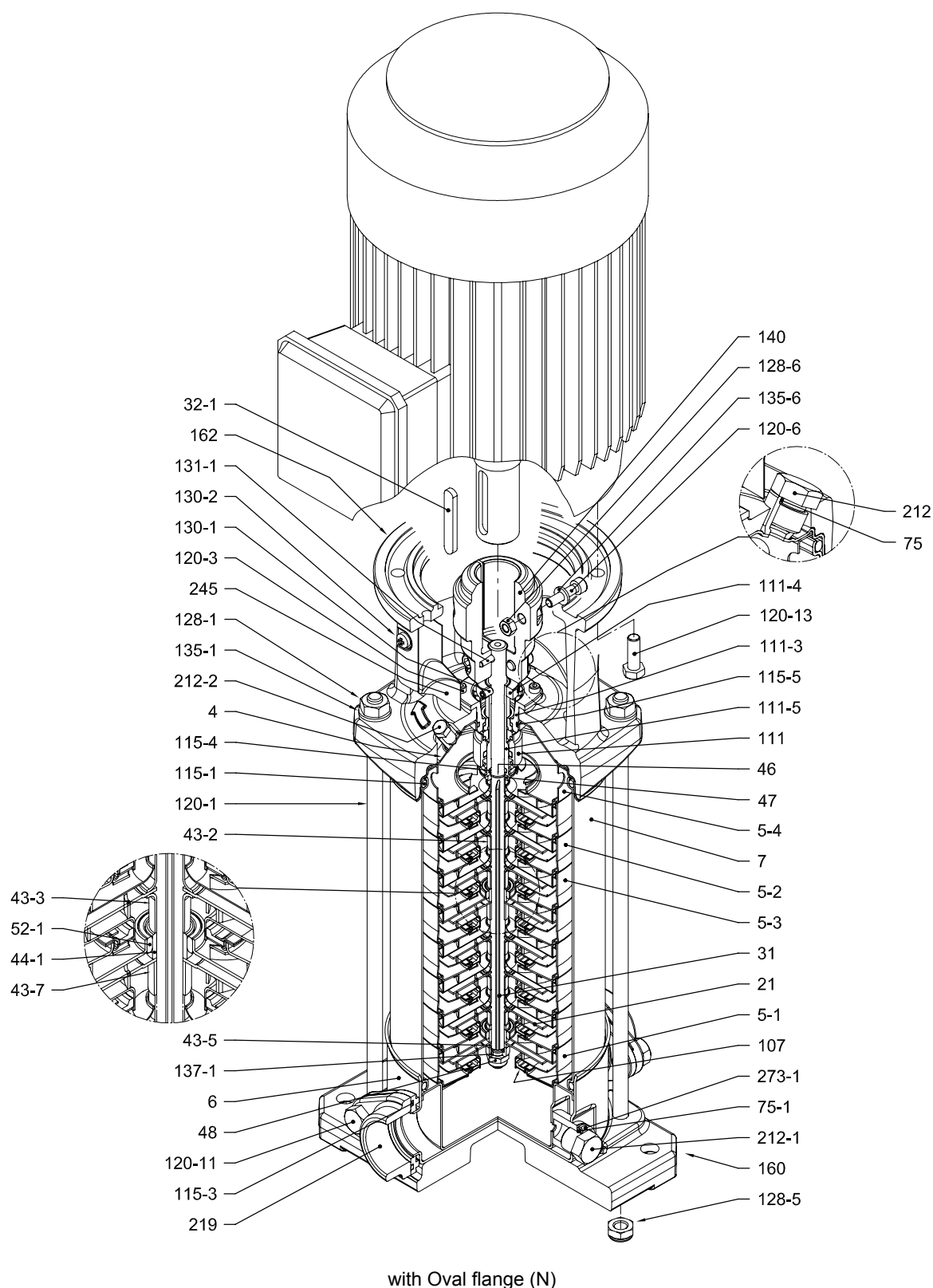
#### Dimensions [mm] and Weights [Kg]

| Pump Type        | Pmax<br>[MPa] | Motor |      |     |     |     |     |     | Oval flange (N) |       |      |                |                           | Loose round flange (LF)<br>Round flange (F) |       |      |                |                           | Victaulic® connection (V)<br>Clamp connection (C) |       |      |                |                           |      |      |      |
|------------------|---------------|-------|------|-----|-----|-----|-----|-----|-----------------|-------|------|----------------|---------------------------|---------------------------------------------|-------|------|----------------|---------------------------|---------------------------------------------------|-------|------|----------------|---------------------------|------|------|------|
|                  |               | kW    | Size | 1~  |     |     | 3 ~ |     | H2              | H2+H3 |      | Weight<br>Pump | Weight<br>Pump +<br>Motor | H2                                          | H2+H3 |      | Weight<br>Pump | Weight<br>Pump +<br>Motor | H2                                                | H2+H3 |      | Weight<br>Pump | Weight<br>Pump +<br>Motor |      |      |      |
|                  |               |       |      | A   | B   | C   | B   | C   |                 | 1 ~   | 3 ~  |                |                           |                                             | 1 ~   | 3 ~  |                |                           |                                                   | 1 ~   | 3 ~  |                |                           | 1 ~  | 3 ~  |      |
|                  |               |       |      |     |     |     |     |     |                 |       |      |                |                           |                                             |       |      |                |                           |                                                   |       |      |                |                           |      |      | Ø    |
| EVMS(L)1 2/0.37  | 1.6           | 0.37  | 71   | 105 | 141 | 119 | 141 | 119 | 250             | 452   | 452  | 9.7            | 16.2                      | 16.2                                        | 275   | 477  | 477            | 10.4                      | 16.9                                              | 16.9  | 250  | 452            | 452                       | 9.7  | 16.2 | 16.2 |
| EVMS(L)1 3/0.37  | 1.6           | 0.37  | 71   | 105 | 141 | 119 | 141 | 119 | 271             | 473   | 473  | 10.2           | 16.7                      | 16.7                                        | 296   | 498  | 498            | 10.9                      | 17.4                                              | 17.4  | 271  | 473            | 473                       | 10.2 | 16.7 | 16.7 |
| EVMS(L)1 4/0.37  | 1.6           | 0.37  | 71   | 105 | 141 | 119 | 141 | 119 | 292             | 494   | 494  | 10.6           | 17.1                      | 17.1                                        | 317   | 519  | 519            | 11.3                      | 17.8                                              | 17.8  | 292  | 494            | 494                       | 10.6 | 17.1 | 17.1 |
| EVMS(L)1 5/0.37  | 1.6           | 0.37  | 71   | 105 | 141 | 119 | 141 | 119 | 313             | 515   | 515  | 11.1           | 17.6                      | 17.6                                        | 338   | 540  | 540            | 11.8                      | 18.3                                              | 18.3  | 313  | 515            | 515                       | 11.1 | 17.6 | 17.6 |
| EVMS(L)1 6/0.37  | 1.6           | 0.37  | 71   | 105 | 141 | 119 | 141 | 119 | 334             | 536   | 536  | 11.5           | 18.0                      | 18.0                                        | 359   | 561  | 561            | 12.2                      | 18.7                                              | 18.7  | 334  | 536            | 536                       | 11.5 | 18.0 | 18.0 |
| EVMS(L)1 7/0.37  | 1.6           | 0.37  | 71   | 105 | 141 | 119 | 141 | 119 | 355             | 557   | 557  | 11.9           | 18.4                      | 18.4                                        | 380   | 582  | 582            | 12.6                      | 19.1                                              | 19.1  | 355  | 557            | 557                       | 11.9 | 18.4 | 18.4 |
| EVMS(L)1 8/0.37  | 1.6           | 0.37  | 71   | 105 | 141 | 119 | 141 | 119 | 376             | 578   | 578  | 12.4           | 18.9                      | 18.9                                        | 401   | 603  | 603            | 13.1                      | 19.6                                              | 19.6  | 376  | 578            | 578                       | 12.4 | 18.9 | 18.9 |
| EVMS(L)1 9/0.55  | 1.6           | 0.55  | 71   | 105 | 141 | 119 | 141 | 119 | 397             | 599   | 599  | 12.8           | 19.8                      | 19.8                                        | 422   | 624  | 624            | 13.5                      | 20.5                                              | 20.5  | 397  | 599            | 599                       | 12.8 | 19.8 | 19.8 |
| EVMS(L)1 10/0.55 | 1.6           | 0.55  | 71   | 105 | 141 | 119 | 141 | 119 | 418             | 620   | 620  | 13.2           | 20.2                      | 20.2                                        | 443   | 645  | 645            | 13.9                      | 20.9                                              | 20.9  | 418  | 620            | 620                       | 13.2 | 20.2 | 20.2 |
| EVMS(L)1 11/0.55 | 1.6           | 0.55  | 71   | 105 | 141 | 119 | 141 | 119 | 439             | 641   | 641  | 13.7           | 20.7                      | 20.7                                        | 464   | 666  | 666            | 14.4                      | 21.4                                              | 21.4  | 439  | 641            | 641                       | 13.7 | 20.7 | 20.7 |
| EVMS(L)1 12/0.55 | 1.6           | 0.55  | 71   | 105 | 141 | 119 | 141 | 119 | 460             | 662   | 662  | 14.4           | 21.4                      | 21.4                                        | 485   | 687  | 687            | 15.1                      | 22.1                                              | 22.1  | 460  | 662            | 662                       | 14.4 | 21.4 | 21.4 |
| EVMS(L)1 13/0.55 | 1.6           | 0.55  | 71   | 105 | 141 | 119 | 141 | 119 | 481             | 683   | 683  | 15             | 22.0                      | 22.0                                        | 506   | 708  | 708            | 15.7                      | 22.7                                              | 22.7  | 481  | 683            | 683                       | 15   | 22.0 | 22.0 |
| EVMS(L)1 14/0.75 | 1.6           | 0.75  | 80   | 120 | 160 | 142 | 141 | 102 | 512             | 741   | 745  | 15.7           | 25.7                      | 24.2                                        | 537   | 766  | 770            | 16.4                      | 26.4                                              | 24.9  | 512  | 741            | 745                       | 15.7 | 25.7 | 24.2 |
| EVMS(L)1 16/0.75 | 1.6           | 0.75  | 80   | 120 | 160 | 142 | 141 | 102 | 554             | 783   | 787  | 16.7           | 26.7                      | 25.2                                        | 579   | 808  | 812            | 17.4                      | 27.4                                              | 25.9  | 554  | 783            | 787                       | 16.7 | 26.7 | 25.2 |
| EVMS(L)1 18/1.1  | 1.6           | 1.1   | 80   | 120 | 160 | 142 | 141 | 102 | 596             | 825   | 840  | 17.8           | 28.8                      | 27.8                                        | 621   | 850  | 865            | 18.5                      | 29.5                                              | 28.5  | 596  | 825            | 840                       | 17.8 | 28.8 | 27.8 |
| EVMS(L)1 20/1.1  | 1.6           | 1.1   | 80   | 120 | 160 | 142 | 141 | 102 | 638             | 867   | 882  | 18.8           | 29.8                      | 28.8                                        | 663   | 892  | 907            | 19.5                      | 30.5                                              | 29.5  | 638  | 867            | 882                       | 18.8 | 29.8 | 28.8 |
| EVMS(L)1 22/1.1  | 1.6           | 1.1   | 80   | 120 | 160 | 142 | 141 | 102 | 680             | 909   | 924  | 20             | 31.0                      | 30.0                                        | 705   | 934  | 949            | 20.7                      | 31.7                                              | 30.7  | 680  | 909            | 924                       | 20   | 31.0 | 30.0 |
| EVMS(L)1 24/1.1  | 1.6           | 1.1   | 80   | 120 | 160 | 142 | 141 | 102 | 722             | 951   | 966  | 21             | 32.0                      | 31.0                                        | 747   | 976  | 991            | 21.7                      | 32.7                                              | 31.7  | 722  | 951            | 966                       | 21   | 32.0 | 31.0 |
| EVMS(L)1 26/1.1  | 1.6           | 1.1   | 80   | 120 | 160 | 142 | 141 | 102 | 764             | 993   | 1008 | 22             | 33.0                      | 32.0                                        | 789   | 1018 | 1033           | 22.7                      | 33.7                                              | 32.7  | 764  | 993            | 1008                      | 22   | 33.0 | 32.0 |
| EVMS(L)1 27/1.5  | 2.5           | 1.5   | 90   | 140 | 172 | 140 | 160 | 119 | -               | -     | -    | -              | -                         | -                                           | 820   | 1098 | 1111           | 23.1                      | 40.9                                              | 36.6  | 795  | 1073           | 1086                      | 22.4 | 40.2 | 35.9 |
| EVMS(L)1 29/1.5  | 2.5           | 1.5   | 90   | 140 | 172 | 140 | 160 | 119 | -               | -     | -    | -              | -                         | -                                           | 862   | 1140 | 1153           | 24.1                      | 41.9                                              | 37.6  | 837  | 1115           | 1128                      | 23.4 | 41.2 | 36.9 |
| EVMS(L)1 32/1.5  | 2.5           | 1.5   | 90   | 140 | 172 | 140 | 160 | 119 | -               | -     | -    | -              | -                         | -                                           | 925   | 1203 | 1216           | 25.4                      | 43.2                                              | 38.9  | 900  | 1178           | 1191                      | 24.7 | 42.5 | 38.2 |
| EVMS(L)1 34/1.5  | 2.5           | 1.5   | 90   | 140 | 172 | 140 | 160 | 119 | -               | -     | -    | -              | -                         | -                                           | 967   | 1245 | 1258           | 26.3                      | 44.1                                              | 39.8  | 942  | 1220           | 1233                      | 25.6 | 43.4 | 39.1 |
| EVMS(L)1 37/2.2  | 2.5           | 2.2   | 90   | 140 | 172 | 140 | 160 | 119 | -               | -     | -    | -              | -                         | -                                           | 1030  | 1308 | 1321           | 27.7                      | 47.2                                              | 42.7  | 1005 | 1283           | 1296                      | 27   | 46.5 | 42.0 |
| EVMS(L)1 39/2.2  | 2.5           | 2.2   | 90   | 140 | 172 | 140 | 160 | 119 | -               | -     | -    | -              | -                         | -                                           | 1072  | 1350 | 1363           | 28.7                      | 48.2                                              | 43.7  | 1047 | 1325           | 1338                      | 28   | 47.5 | 43.0 |

1.6 MPa=16 bar;

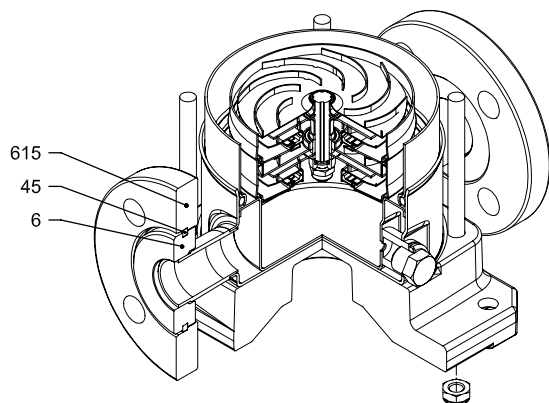
2.5 MPa=25 bar

- not available model

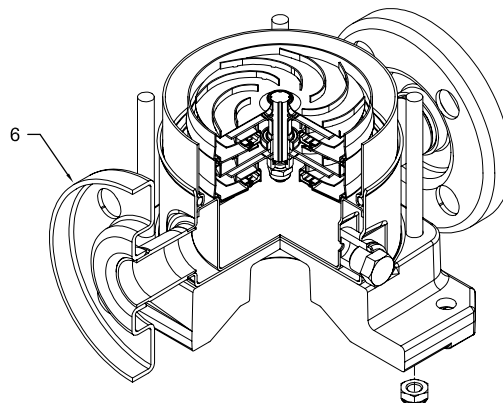
SECTIONAL VIEW  
EVMS(L)1



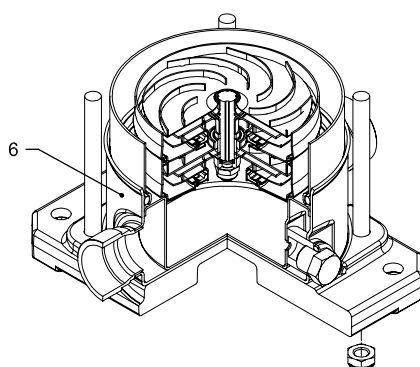
### PIPE CONNECTION EVMS(L)1



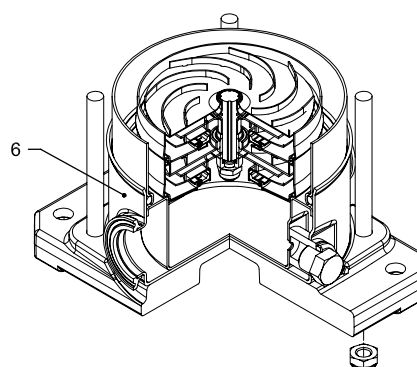
with Loose round flange (LF)



with Round flange (F)



with Victaulic® connection (V)



with Clamp connection (C)

SECTIONAL TABLE  
EVMS(L)1

| N°     | PART NAME                        | MATERIAL                                      |                                          | DIMENSIONS   | STANDARD |
|--------|----------------------------------|-----------------------------------------------|------------------------------------------|--------------|----------|
|        |                                  | EVMS                                          | EVMSL                                    |              |          |
| 4      | Casing cover                     | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 5-1    | Suction casing                   | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 5-2    | Intermediate casing              | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 5-3    | Intermediate casing with bearing | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 5-4    | Discharge casing                 | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 6      | Bottom casing                    | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 7      | Outer casing                     | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 21     | Impeller                         | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 31     | Shaft                            | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 32-1   | Adjuster key                     | EN 1.4301 (AISI 304)                          |                                          |              |          |
| 43-2   | Shaft sleeve (intermediate)      | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 43-3   | Shaft sleeve (bearing)           | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 43-5   | Shaft sleeve (last stage)        | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 43-7   | Spacer                           | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 44-1   | Shaft sleeve bearing             | Tungsten carbide                              |                                          |              |          |
| 45     | Flange holder                    | EN 1.4301 (AISI 304)                          |                                          |              |          |
| 46     | Ring (mechanical seal)           | EN 1.4404 (AISI 316L)                         |                                          |              |          |
| 47     | Ring holder                      | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 48     | Impeller nut                     | EN 1.4301 (AISI 304)<br>with inox insert      | EN 1.4401 (AISI 316)<br>with inox insert | M8           |          |
| 52-1   | Sleeve bearing                   | Tungsten carbide                              |                                          |              |          |
| 75     | O-Ring (priming plug)            | EPDM / FPM                                    |                                          | Ø12.37x2.62  | OR 3050  |
| 75-1   | O-Ring (drainage plug)           | EPDM / FPM                                    |                                          |              |          |
| 107    | Liner ring                       | EN 1.4301 (AISI 304) + PPS                    | EN 1.4404 (AISI 316L) + PPS              |              |          |
| 111    | Mechanical seal                  | see pages 6-7                                 |                                          |              |          |
| 111-3  | Mechanical seal seat             | EN 1.4308 (ASTM CF8)                          | EN 1.4408 (ASTM CF8M)                    |              |          |
| 111-4  | Seal holder                      | EN 1.4301 (AISI 304)                          |                                          |              |          |
| 111-5  | Mechanical seal cartridge sleeve | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 115-1  | O-Ring (outer casing)            | EPDM / FPM                                    |                                          | Ø129.54x5.34 | OR 6945  |
| 115-3  | O-Ring                           | EPDM / FPM                                    |                                          |              |          |
| 115-4  | O-Ring (cartridge sleeve)        | EPDM / FPM                                    |                                          | Ø11.91x2.62  | OR 4093  |
| 115-5  | O-Ring (seal flange)             | EPDM / FPM                                    |                                          | Ø32.99x2.62  | OR 4175  |
| 120-1  | Tie-rod                          | EN 1.4057 (AISI 431)                          |                                          | M10          |          |
| 120-3  | Screw (seal flange)              | A2-70                                         |                                          | M4x10        | ISO 4762 |
| 120-6  | Screw (pump coupling)            | Galvanized steel                              |                                          | M6x25        | ISO 4762 |
| 120-11 | Screw (counterflange)            | A2-70                                         |                                          |              |          |
| 120-13 | Screw for motor                  | Galvanized steel 8.8 strength class ISO 898/1 |                                          | M6x20        | ISO 4017 |
|        |                                  |                                               |                                          | M8x20        | ISO 4017 |
| 128-1  | Nut (tie rod)                    | A2-70                                         |                                          | M10          | ISO 4032 |
| 128-5  | Nut (tie rod)                    | A2-70                                         |                                          | M10          | UNI 7474 |
| 128-6  | Nut (aluminium coupling)         | Galvanized steel                              |                                          | M6           | ISO 4032 |
| 130-1  | Set screw                        | EN 1.4301 (AISI 304)                          |                                          | M5x8         | ISO 4026 |
| 130-2  | Screw for coupling guard         | A2-70                                         |                                          | M5x6         | UNI 7687 |
| 131-1  | Pin for shaft                    | Carbon Steel                                  |                                          | Ø4x32        | ISO 2338 |
| 135-1  | Washer (tie rod)                 | EN 1.4301 (AISI 304)                          |                                          | Ø10.5x21x2   | ISO 7089 |
| 135-6  | Washer (aluminium coupling)      | Carbon Steel                                  |                                          | Ø6           |          |
| 137-1  | Impeller spacer                  | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 140    | Coupling                         | Die cast Aluminium EN AB-AISI11Cu2 (Fe)       |                                          |              |          |
| 160    | Base                             | Die cast Aluminium EN AB-AISI11Cu2 (Fe)       |                                          |              |          |
| 162    | Motor bracket                    | Cast iron EN-GJL-250                          |                                          |              |          |
| 212    | Priming plug                     | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    | G 3/8        |          |
| 212-1  | Drainage plug                    | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    | G 3/8        |          |
| 212-2  | Venting plug                     | EN 1.4404 (AISI 316L)                         |                                          |              |          |
| 219    | Counter flange                   | EN 1.4308 (ASTM CF8)                          | EN 1.4408 (ASTM CF8M)                    |              |          |
|        |                                  | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 245    | Coupling guard                   | EN 1.4301 (AISI 304)                          |                                          |              |          |
| 273-1  | Washer (drainage plug)           | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 615    | Flange                           | Nodular Cast Iron                             |                                          |              |          |

# QUANTITY FOR MODEL EVMS(L)1

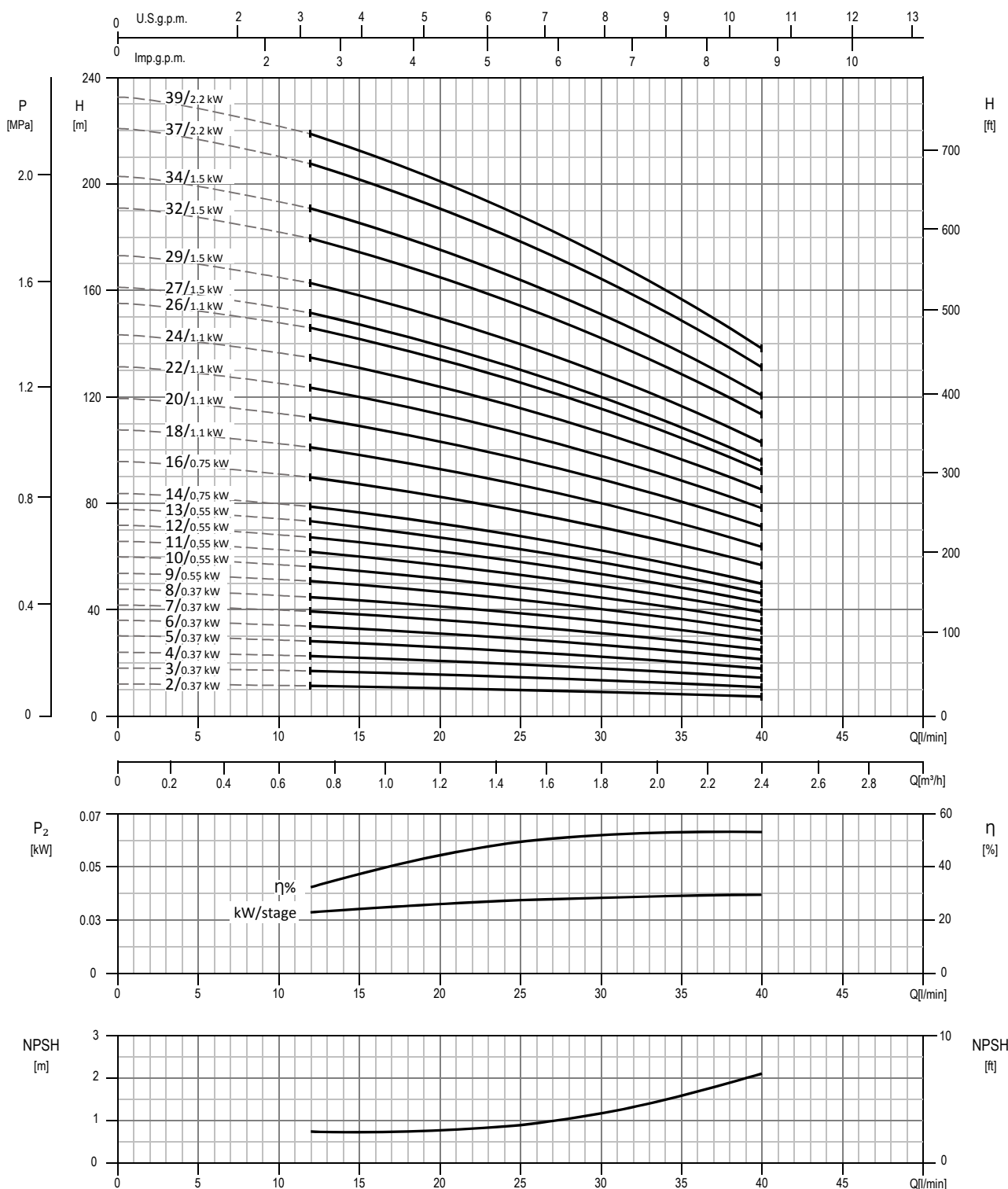
| Pump Type        | N° |     |    |    |    |   |   |    |    |      |      |      |      |      |      |     |    |    |    |      |    |      |     |     |       |       |       |       |        |       |       |   |
|------------------|----|-----|----|----|----|---|---|----|----|------|------|------|------|------|------|-----|----|----|----|------|----|------|-----|-----|-------|-------|-------|-------|--------|-------|-------|---|
|                  | 4  | 5-1 | 52 | 53 | 54 | 6 | 7 | 21 | 31 | 32-1 | 43-2 | 43-3 | 43-5 | 43-7 | 44-1 | 45* | 46 | 47 | 48 | 52-1 | 75 | 75-1 | 107 | 111 | 111-3 | 111-4 | 111-5 | 115-1 | 115-3* | 115-4 | 115-5 |   |
| EVMS(L)1 2/0.37  | 1  | 1   | /  | 1  | 1  | 1 | 1 | 2  | 1  | 1    | 1    | 1    | /    | /    | 1    | 4   | 2  | 1  | 1  | 1    | 1  | 2    | 2   | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     | 1 |
| EVMS(L)1 3/0.37  | 1  | 1   | 1  | 1  | 1  | 1 | 1 | 3  | 1  | 1    | 3    | 1    | /    | /    | 1    | 4   | 2  | 1  | 1  | 1    | 1  | 2    | 3   | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     | 1 |
| EVMS(L)1 4/0.37  | 1  | 1   | 2  | 1  | 1  | 1 | 1 | 4  | 1  | 1    | 5    | 1    | /    | /    | 1    | 4   | 2  | 1  | 1  | 1    | 1  | 2    | 4   | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     | 1 |
| EVMS(L)1 5/0.37  | 1  | 1   | 3  | 1  | 1  | 1 | 1 | 5  | 1  | 1    | 7    | 1    | 1    | /    | 1    | 4   | 2  | 1  | 1  | 1    | 1  | 2    | 5   | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     | 1 |
| EVMS(L)1 6/0.37  | 1  | 1   | 4  | 1  | 1  | 1 | 1 | 6  | 1  | 1    | 9    | 1    | /    | /    | 1    | 4   | 2  | 1  | 1  | 1    | 1  | 2    | 6   | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     | 1 |
| EVMS(L)1 7/0.37  | 1  | 1   | 5  | 1  | 1  | 1 | 1 | 7  | 1  | 1    | 11   | 1    | /    | /    | 1    | 4   | 2  | 1  | 1  | 1    | 1  | 2    | 7   | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     | 1 |
| EVMS(L)1 8/0.37  | 1  | 1   | 6  | 1  | 1  | 1 | 1 | 8  | 1  | 1    | 13   | 1    | /    | /    | 1    | 4   | 2  | 1  | 1  | 1    | 1  | 2    | 8   | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     | 1 |
| EVMS(L)1 9/0.55  | 1  | 1   | 7  | 1  | 1  | 1 | 1 | 9  | 1  | 1    | 15   | 1    | 1    | /    | 1    | 4   | 2  | 1  | 1  | 1    | 1  | 2    | 9   | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     | 1 |
| EVMS(L)1 10/0.55 | 1  | 1   | 8  | 1  | 1  | 1 | 1 | 10 | 1  | 1    | 17   | 1    | /    | /    | 1    | 4   | 2  | 1  | 1  | 1    | 1  | 2    | 10  | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     | 1 |
| EVMS(L)1 11/0.55 | 1  | 1   | 9  | 1  | 1  | 1 | 1 | 11 | 1  | 1    | 19   | 1    | /    | /    | 1    | 4   | 2  | 1  | 1  | 1    | 1  | 2    | 11  | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     | 1 |
| EVMS(L)1 12/0.55 | 1  | 1   | 10 | 1  | 1  | 1 | 1 | 12 | 1  | 1    | 21   | 1    | /    | /    | 1    | 4   | 2  | 1  | 1  | 1    | 1  | 2    | 12  | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     | 1 |
| EVMS(L)1 13/0.55 | 1  | 1   | 10 | 2  | 1  | 1 | 1 | 13 | 1  | 1    | 20   | 2    | 1    | 1    | 2    | 4   | 2  | 1  | 1  | 2    | 1  | 2    | 13  | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     | 1 |
| EVMS(L)1 14/0.75 | 1  | 1   | 11 | 2  | 1  | 1 | 1 | 14 | 1  | 1    | 22   | 2    | /    | 1    | 2    | 4   | 2  | 1  | 1  | 2    | 1  | 2    | 14  | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     | 1 |
| EVMS(L)1 16/0.75 | 1  | 1   | 13 | 2  | 1  | 1 | 1 | 16 | 1  | 1    | 26   | 2    | /    | 1    | 2    | 4   | 2  | 1  | 1  | 2    | 1  | 2    | 16  | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     | 1 |
| EVMS(L)1 18/1.1  | 1  | 1   | 15 | 2  | 1  | 1 | 1 | 18 | 1  | 1    | 30   | 2    | /    | 1    | 2    | 4   | 2  | 1  | 1  | 2    | 1  | 2    | 18  | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     | 1 |
| EVMS(L)1 20/1.1  | 1  | 1   | 17 | 2  | 1  | 1 | 1 | 20 | 1  | 1    | 34   | 2    | /    | 1    | 2    | 4   | 2  | 1  | 1  | 2    | 1  | 2    | 20  | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     | 1 |
| EVMS(L)1 22/1.1  | 1  | 1   | 19 | 2  | 1  | 1 | 1 | 22 | 1  | 1    | 38   | 2    | /    | 1    | 2    | 4   | 2  | 1  | 1  | 2    | 1  | 2    | 22  | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     | 1 |
| EVMS(L)1 24/1.1  | 1  | 1   | 21 | 2  | 1  | 1 | 1 | 24 | 1  | 1    | 42   | 2    | /    | 1    | 2    | 4   | 2  | 1  | 1  | 2    | 1  | 2    | 24  | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     | 1 |
| EVMS(L)1 26/1.1  | 1  | 1   | 23 | 2  | 1  | 1 | 1 | 26 | 1  | 1    | 46   | 2    | /    | 1    | 2    | 4   | 2  | 1  | 1  | 2    | 1  | 2    | 26  | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     | 1 |
| EVMS(L)1 27/1.5  | 1  | 1   | 24 | 2  | 1  | 1 | 1 | 27 | 1  | 1    | 48   | 2    | /    | 1    | 2    | 4   | 2  | 1  | 1  | 2    | 1  | 2    | 27  | 1   | 1     | 1     | 1     | 2     | /      | 1     | 1     | 1 |
| EVMS(L)1 29/1.5  | 1  | 1   | 26 | 2  | 1  | 1 | 1 | 29 | 1  | 1    | 52   | 2    | /    | 1    | 2    | 4   | 2  | 1  | 1  | 2    | 1  | 2    | 29  | 1   | 1     | 1     | 1     | 2     | /      | 1     | 1     | 1 |
| EVMS(L)1 32/1.5  | 1  | 1   | 29 | 2  | 1  | 1 | 1 | 32 | 1  | 1    | 58   | 2    | /    | 1    | 2    | 4   | 2  | 1  | 1  | 2    | 1  | 2    | 32  | 1   | 1     | 1     | 1     | 2     | /      | 1     | 1     | 1 |
| EVMS(L)1 34/1.5  | 1  | 1   | 31 | 2  | 1  | 1 | 1 | 34 | 1  | 1    | 62   | 2    | /    | 1    | 2    | 4   | 2  | 1  | 1  | 2    | 1  | 2    | 34  | 1   | 1     | 1     | 1     | 2     | /      | 1     | 1     | 1 |
| EVMS(L)1 37/2.2  | 1  | 1   | 34 | 2  | 1  | 1 | 1 | 37 | 1  | 1    | 68   | 2    | /    | 1    | 2    | 4   | 2  | 1  | 1  | 2    | 1  | 2    | 37  | 1   | 1     | 1     | 1     | 2     | /      | 1     | 1     | 1 |
| EVMS(L)1 39/2.2  | 1  | 1   | 36 | 2  | 1  | 1 | 1 | 39 | 1  | 1    | 72   | 2    | /    | 1    | 2    | 4   | 2  | 1  | 1  | 2    | 1  | 2    | 39  | 1   | 1     | 1     | 1     | 2     | /      | 1     | 1     | 1 |

| Pump Type        | N°    |       |       |         |        |       |       |       |       |       |       |       |       |       |     |     |     |     |       |       |      |     |       |       |
|------------------|-------|-------|-------|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|-----|-------|-------|------|-----|-------|-------|
|                  | 120-1 | 120-3 | 120-6 | 120-11* | 120-13 | 128-1 | 128-5 | 128-6 | 130-1 | 130-2 | 131-1 | 135-1 | 135-6 | 137-1 | 140 | 160 | 162 | 212 | 212-1 | 212-2 | 219* | 245 | 273-1 | 615** |
| EVMS(L)1 2/0.37  | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)1 3/0.37  | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)1 4/0.37  | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)1 5/0.37  | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)1 6/0.37  | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)1 7/0.37  | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)1 8/0.37  | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)1 9/0.55  | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)1 10/0.55 | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)1 11/0.55 | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)1 12/0.55 | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)1 13/0.55 | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)1 14/0.75 | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)1 16/0.75 | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)1 18/1.1  | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)1 20/1.1  | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)1 22/1.1  | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)1 24/1.1  | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)1 26/1.1  | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |
| EVMS(L)1 27/1.5  | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |
| EVMS(L)1 29/1.5  | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |
| EVMS(L)1 32/1.5  | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |
| EVMS(L)1 34/1.5  | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |
| EVMS(L)1 37/2.2  | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |
| EVMS(L)1 39/2.2  | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |

\* only for Oval flange (N)

\*\* only for Loose round flange (LF)

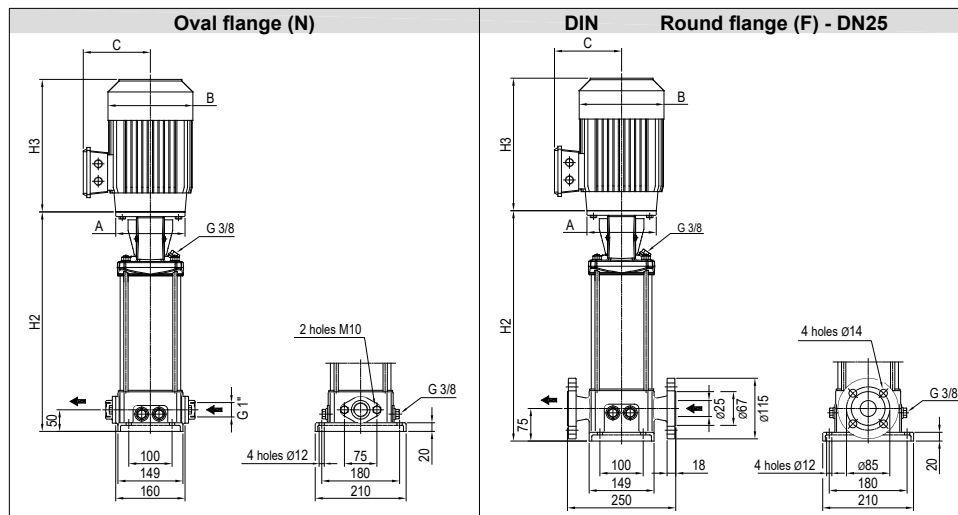
PERFORMANCE CURVE  
EVMSG1



Test standard: ISO 9906:2012 - Grade 3B

### TECHNICAL DATA EVMSG1

#### Dimensional sketch

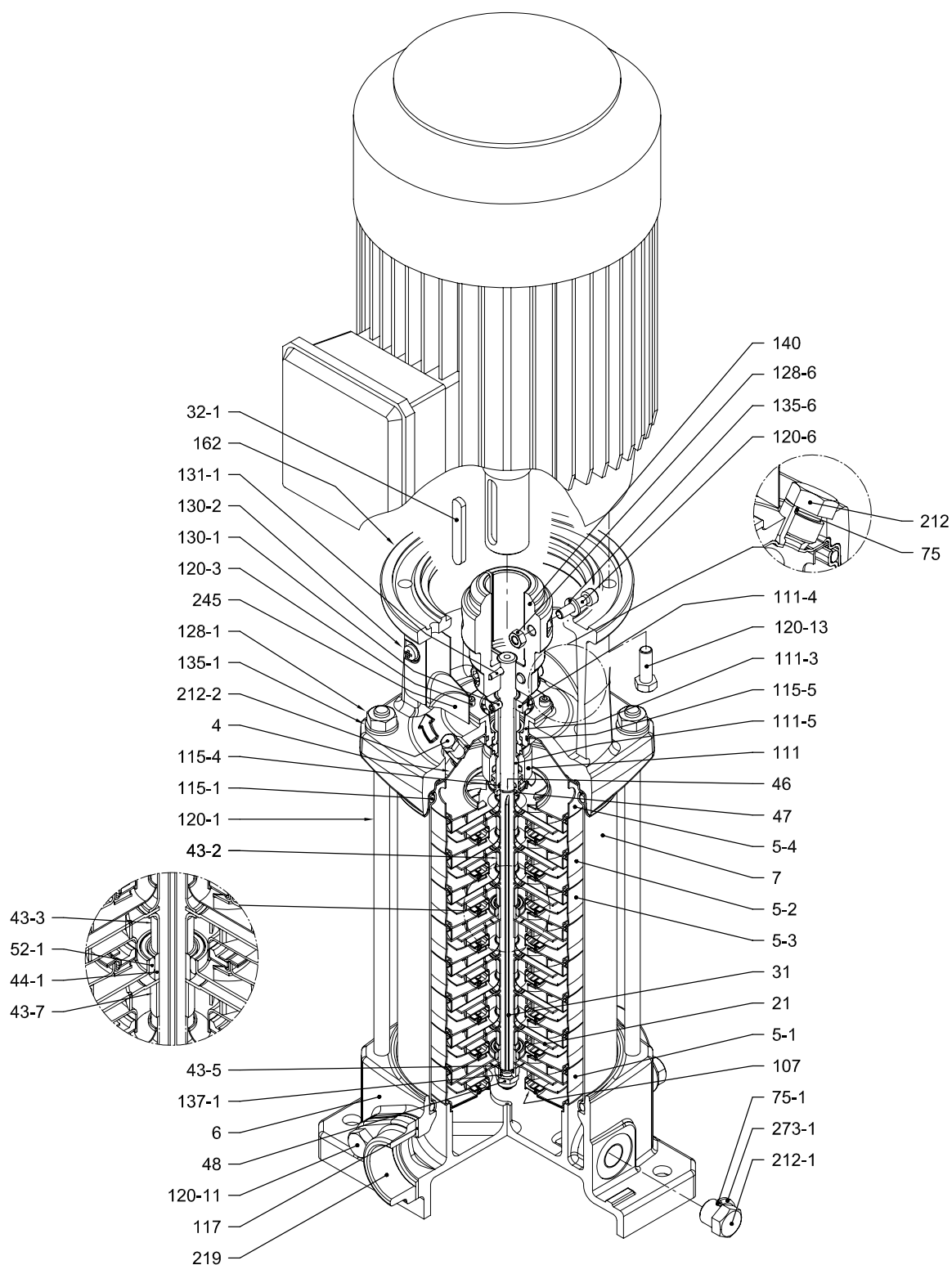


#### Dimensions [mm] and Weights [Kg]

| Pump Type      | Pmax<br>[MPa] | Motor |      |     |     |     |     |     | Oval flange (N) |       |      |                |                           |      | Round flange (F) |      |                |                           |      |      |
|----------------|---------------|-------|------|-----|-----|-----|-----|-----|-----------------|-------|------|----------------|---------------------------|------|------------------|------|----------------|---------------------------|------|------|
|                |               | kW    | Size | 1~  |     |     | 3~  |     | H2              | H2+H3 |      | Weight<br>Pump | Weight<br>Pump +<br>Motor | H2   | H2+H3            |      | Weight<br>Pump | Weight<br>Pump +<br>Motor |      |      |
|                |               |       |      | A   | B   | C   | B   | C   |                 | 1~    | 3~   |                |                           |      | 1~               | 3~   |                |                           |      |      |
|                |               |       |      |     |     |     |     |     |                 |       |      |                |                           |      |                  |      |                |                           | Ø    |      |
| EVMSG1 2/0.37  | 1.6           | 0.37  | 71   | 105 | 141 | 119 | 141 | 119 | 250             | 452   | 452  | 14             | 20.5                      | 20.5 | 275              | 477  | 477            | 17.4                      | 23.9 | 23.9 |
| EVMSG1 3/0.37  | 1.6           | 0.37  | 71   | 105 | 141 | 119 | 141 | 119 | 271             | 473   | 473  | 14.5           | 21.0                      | 21.0 | 296              | 498  | 498            | 17.9                      | 24.4 | 24.4 |
| EVMSG1 4/0.37  | 1.6           | 0.37  | 71   | 105 | 141 | 119 | 141 | 119 | 292             | 494   | 494  | 14.9           | 21.4                      | 21.4 | 317              | 519  | 519            | 18.3                      | 24.8 | 24.8 |
| EVMSG1 5/0.37  | 1.6           | 0.37  | 71   | 105 | 141 | 119 | 141 | 119 | 313             | 515   | 515  | 15.4           | 21.9                      | 21.9 | 338              | 540  | 540            | 18.8                      | 25.3 | 25.3 |
| EVMSG1 6/0.37  | 1.6           | 0.37  | 71   | 105 | 141 | 119 | 141 | 119 | 334             | 536   | 536  | 15.8           | 22.3                      | 22.3 | 359              | 561  | 561            | 19.2                      | 25.7 | 25.7 |
| EVMSG1 7/0.37  | 1.6           | 0.37  | 71   | 105 | 141 | 119 | 141 | 119 | 355             | 557   | 557  | 16.2           | 22.7                      | 22.7 | 380              | 582  | 582            | 19.6                      | 26.1 | 26.1 |
| EVMSG1 8/0.37  | 1.6           | 0.37  | 71   | 105 | 141 | 119 | 141 | 119 | 376             | 578   | 578  | 16.7           | 23.2                      | 23.2 | 401              | 603  | 603            | 20.1                      | 26.6 | 26.6 |
| EVMSG1 9/0.55  | 1.6           | 0.55  | 71   | 105 | 141 | 119 | 141 | 119 | 397             | 599   | 599  | 17.1           | 24.1                      | 24.1 | 422              | 624  | 624            | 20.5                      | 27.5 | 27.5 |
| EVMSG1 10/0.55 | 1.6           | 0.55  | 71   | 105 | 141 | 119 | 141 | 119 | 418             | 620   | 620  | 17.5           | 24.5                      | 24.5 | 443              | 645  | 645            | 20.9                      | 27.9 | 27.9 |
| EVMSG1 11/0.55 | 1.6           | 0.55  | 71   | 105 | 141 | 119 | 141 | 119 | 439             | 641   | 641  | 18             | 25.0                      | 25.0 | 464              | 666  | 666            | 21.4                      | 28.4 | 28.4 |
| EVMSG1 12/0.55 | 1.6           | 0.55  | 71   | 105 | 141 | 119 | 141 | 119 | 460             | 662   | 662  | 18.7           | 25.7                      | 25.7 | 485              | 687  | 687            | 22.1                      | 29.1 | 29.1 |
| EVMSG1 13/0.55 | 1.6           | 0.55  | 71   | 105 | 141 | 119 | 141 | 119 | 481             | 683   | 683  | 19.3           | 26.3                      | 26.3 | 506              | 708  | 708            | 22.7                      | 29.7 | 29.7 |
| EVMSG1 14/0.75 | 1.6           | 0.75  | 80   | 120 | 160 | 142 | 141 | 102 | 512             | 741   | 745  | 20             | 30.0                      | 28.5 | 537              | 766  | 770            | 23.4                      | 33.4 | 31.9 |
| EVMSG1 16/0.75 | 1.6           | 0.75  | 80   | 120 | 160 | 142 | 141 | 102 | 554             | 783   | 787  | 21             | 31.0                      | 29.5 | 579              | 808  | 812            | 24.4                      | 34.4 | 32.9 |
| EVMSG1 18/1.1  | 1.6           | 1.1   | 80   | 120 | 160 | 142 | 141 | 102 | 596             | 825   | 840  | 22.1           | 33.1                      | 32.1 | 621              | 850  | 865            | 25.5                      | 36.5 | 35.5 |
| EVMSG1 20/1.1  | 1.6           | 1.1   | 80   | 120 | 160 | 142 | 141 | 102 | 638             | 867   | 882  | 23.1           | 34.1                      | 33.1 | 663              | 892  | 907            | 26.5                      | 37.5 | 36.5 |
| EVMSG1 22/1.1  | 1.6           | 1.1   | 80   | 120 | 160 | 142 | 141 | 102 | 680             | 909   | 924  | 24.3           | 35.3                      | 34.3 | 705              | 934  | 949            | 27.7                      | 38.7 | 37.7 |
| EVMSG1 24/1.1  | 1.6           | 1.1   | 80   | 120 | 160 | 142 | 141 | 102 | 722             | 951   | 966  | 25.3           | 36.3                      | 35.3 | 747              | 976  | 991            | 28.7                      | 39.7 | 38.7 |
| EVMSG1 26/1.1  | 1.6           | 1.1   | 80   | 120 | 160 | 142 | 141 | 102 | 764             | 993   | 1008 | 26.3           | 37.3                      | 36.3 | 789              | 1018 | 1033           | 29.7                      | 40.7 | 39.7 |
| EVMSG1 27/1.5  | 2.5           | 1.5   | 90   | 140 | 172 | 140 | 160 | 119 | -               | -     | -    | -              | -                         | -    | 820              | 1098 | 1111           | 30.1                      | 47.9 | 43.6 |
| EVMSG1 29/1.5  | 2.5           | 1.5   | 90   | 140 | 172 | 140 | 160 | 119 | -               | -     | -    | -              | -                         | -    | 862              | 1140 | 1153           | 31.1                      | 48.9 | 44.6 |
| EVMSG1 32/1.5  | 2.5           | 1.5   | 90   | 140 | 172 | 140 | 160 | 119 | -               | -     | -    | -              | -                         | -    | 925              | 1203 | 1216           | 32.4                      | 50.2 | 45.9 |
| EVMSG1 34/1.5  | 2.5           | 1.5   | 90   | 140 | 172 | 140 | 160 | 119 | -               | -     | -    | -              | -                         | -    | 967              | 1245 | 1258           | 33.3                      | 51.1 | 46.8 |
| EVMSG1 37/2.2  | 2.5           | 2.2   | 90   | 140 | 172 | 140 | 160 | 119 | -               | -     | -    | -              | -                         | -    | 1030             | 1308 | 1321           | 34.7                      | 54.2 | 49.7 |
| EVMSG1 39/2.2  | 2.5           | 2.2   | 90   | 140 | 172 | 140 | 160 | 119 | -               | -     | -    | -              | -                         | -    | 1072             | 1350 | 1363           | 35.7                      | 55.2 | 50.7 |

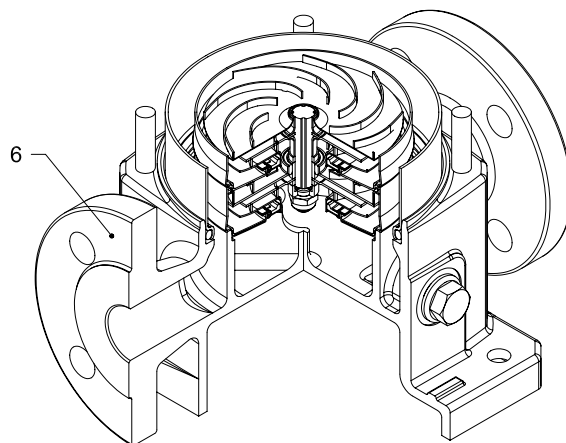
1.6 MPa=16 bar; 2.5 MPa=25 bar  
- not available model



SECTIONAL VIEW  
EVMSG1

with Oval flange (N)

### PIPE CONNECTION EVMSG1



with Round flange (F)

SECTIONAL TABLE  
EVMSG1

| N°     | PART NAME                        | MATERIAL<br>EVMSG                             | DIMENSIONS   | STANDARD |
|--------|----------------------------------|-----------------------------------------------|--------------|----------|
| 4      | Casing cover                     | EN 1.4301 (AISI 304)                          |              |          |
| 5-1    | Suction casing                   | EN 1.4301 (AISI 304)                          |              |          |
| 5-2    | Intermediate casing              | EN 1.4301 (AISI 304)                          |              |          |
| 5-3    | Intermediate casing with bearing | EN 1.4301 (AISI 304)                          |              |          |
| 5-4    | Discharge casing                 | EN 1.4301 (AISI 304)                          |              |          |
| 6      | Bottom casing                    | Cast Iron EN-GJL-250                          |              |          |
| 7      | Outer casing                     | EN 1.4301 (AISI 304)                          |              |          |
| 21     | Impeller                         | EN 1.4301 (AISI 304)                          |              |          |
| 31     | Shaft                            | EN 1.4301 (AISI 304)                          |              |          |
| 32-1   | Adjuster key                     | EN 1.4301 (AISI 304)                          |              |          |
| 43-2   | Shaft sleeve (intermediate)      | EN 1.4301 (AISI 304)                          |              |          |
| 43-3   | Shaft sleeve (bearing)           | EN 1.4301 (AISI 304)                          |              |          |
| 43-5   | Shaft sleeve (last stage)        | EN 1.4301 (AISI 304)                          |              |          |
| 43-7   | Spacer                           | EN 1.4301 (AISI 304)                          |              |          |
| 44-1   | Shaft sleeve bearing             | Tungsten carbide                              |              |          |
| 46     | Ring (mechanical seal)           | EN 1.4404 (AISI 316L)                         |              |          |
| 47     | Ring holder                      | EN 1.4404 (AISI 316L)                         |              |          |
| 48     | Impeller nut                     | EN 1.4301 (AISI 304) with inox insert         | M8           |          |
| 52-1   | Sleeve bearing                   | Tungsten carbide                              |              |          |
| 75     | O-Ring (priming plug)            | EPDM / FPM                                    | Ø12.37x2.62  | OR 3050  |
| 75-1   | O-Ring (drainage plug)           | EPDM / FPM                                    |              |          |
| 107    | Liner ring                       | EN 1.4301 (AISI 304) + PPS                    |              |          |
| 111    | Mechanical seal                  | see pages 6-7                                 |              |          |
| 111-3  | Mechanical seal seat             | EN 1.4308 (ASTM CF8)                          |              |          |
| 111-4  | Seal holder                      | EN 1.4301 (AISI 304)                          |              |          |
| 111-5  | Mechanical seal cartridge sleeve | EN 1.4301 (AISI 304)                          |              |          |
| 115-1  | O-Ring (outer casing)            | EPDM / FPM                                    | Ø129.54x5.34 | OR 6945  |
| 115-4  | O-Ring (cartridge sleeve)        | EPDM / FPM                                    | Ø11.91x2.62  | OR 4093  |
| 115-5  | O-Ring (seal flange)             | EPDM / FPM                                    | Ø32.99x2.62  | OR 4175  |
| 117    | Flange gasket                    | EPDM / FPM                                    |              |          |
| 120-1  | Tie-rod                          | EN 1.4057 (AISI 431)                          | M10          |          |
| 120-3  | Screw (seal flange)              | A2-70                                         | M4x10        | ISO 4762 |
| 120-6  | Screw (pump coupling)            | Galvanized steel                              | M6x25        | ISO 4762 |
| 120-11 | Screw (counterflange)            | A2-70                                         |              | UNI 7323 |
| 120-13 | Screw for motor                  | Galvanized steel 8.8 strength class ISO 898/1 | M6x20        | ISO 4017 |
|        | MEC 71-80<br>MEC 90              |                                               | M8x20        | ISO 4017 |
| 128-1  | Nut (tie rod)                    | A2-70                                         | M10          | ISO 4032 |
| 128-6  | Nut (aluminium coupling)         | Galvanized steel                              | M6           | ISO 4032 |
| 130-1  | Set screw                        | A2-70                                         | M5x8         | ISO 4026 |
| 130-2  | Screw for coupling guard         | A2-70                                         | M5x6         | UNI 7687 |
| 131-1  | Pin for shaft                    | Carbon Steel                                  | Ø4x32        | ISO 2338 |
| 135-1  | Washer (tie rod)                 | EN 1.4301 (AISI 304)                          | Ø10.5x21x2   | ISO 7089 |
| 135-6  | Washer (aluminium coupling)      | Carbon Steel                                  | Ø6           |          |
| 137-1  | Impeller spacer                  | EN 1.4301 (AISI 304)                          |              |          |
| 140    | Coupling                         | Die cast Aluminium EN AB-AISI11Cu2 (Fe)       |              |          |
| 162    | Motor bracket                    | Cast iron EN-GJL-250                          |              |          |
| 212    | Priming plug                     | EN 1.4301 (AISI 304)                          | G 3/8        |          |
| 212-1  | Drainage plug                    | EN 1.4301 (AISI 304)                          | G 3/8        |          |
| 212-2  | Venting plug                     | EN 1.4404 (AISI 316L)                         |              |          |
| 219    | Counter flange                   | flange type: N<br>Galvanized steel            |              |          |
|        |                                  | flange type: F<br>Cast Iron EN-GJL-250        |              |          |
| 245    | Coupling guard                   | EN 1.4301 (AISI 304)                          |              |          |
| 273-1  | Washer (drainage plug)           | EN 1.4301 (AISI 304)                          |              |          |

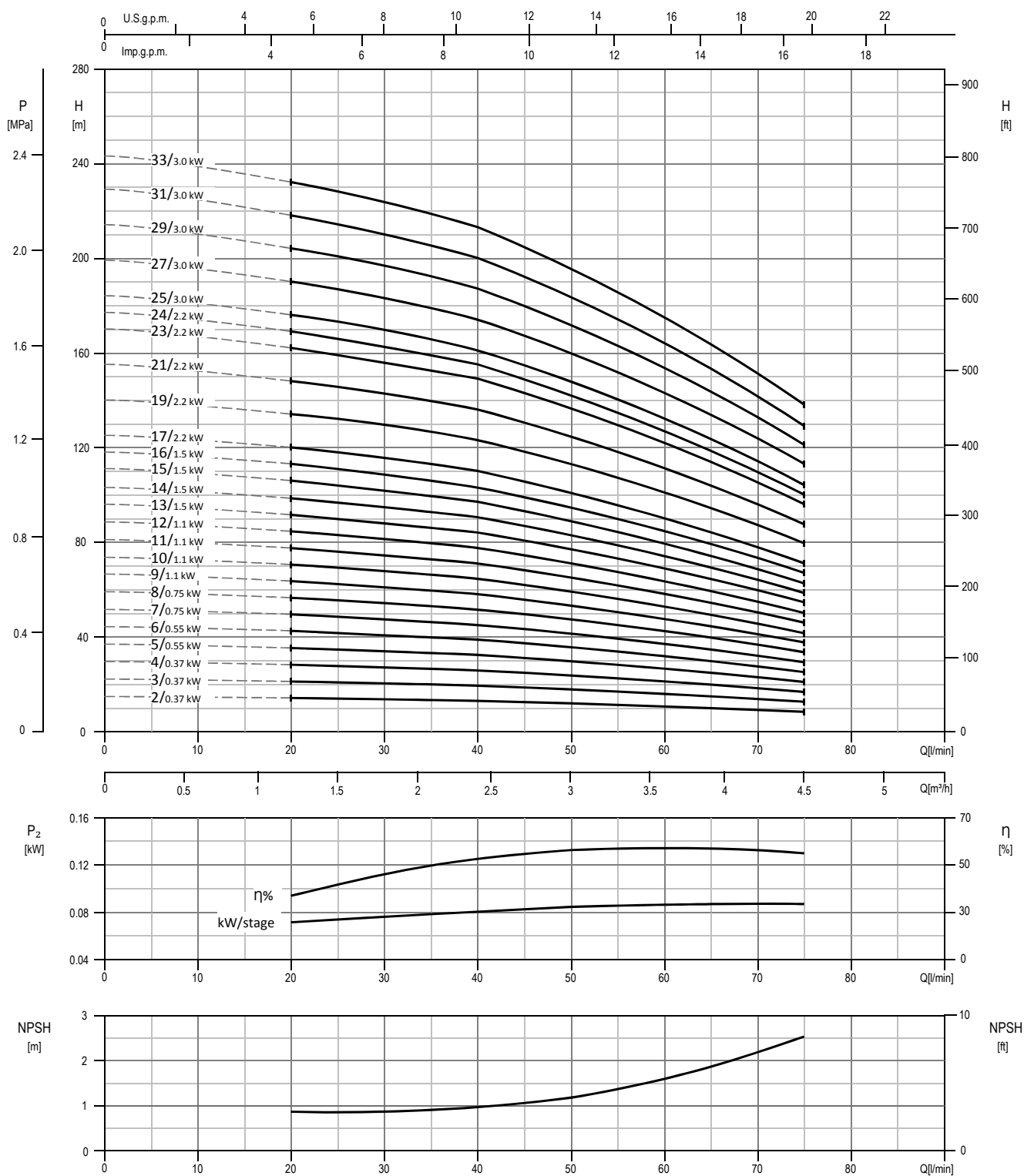
### QUANTITY FOR MODEL EVMSG1

| Pump Type      | N° |     |    |    |    |   |   |    |    |      |      |      |      |      |      |    |    |    |      |    |      |     |     |
|----------------|----|-----|----|----|----|---|---|----|----|------|------|------|------|------|------|----|----|----|------|----|------|-----|-----|
|                | 4  | 5-1 | 52 | 53 | 54 | 6 | 7 | 21 | 31 | 32-1 | 43-2 | 43-3 | 43-5 | 43-7 | 44-1 | 46 | 47 | 48 | 52-1 | 75 | 75-1 | 107 | 111 |
| EVMSG1 2/0.37  | 1  | 1   | /  | 1  | 1  | 1 | 1 | 2  | 1  | 1    | 1    | 1    | /    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 2   | 1   |
| EVMSG1 3/0.37  | 1  | 1   | 1  | 1  | 1  | 1 | 1 | 3  | 1  | 1    | 3    | 1    | /    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 3   | 1   |
| EVMSG1 4/0.37  | 1  | 1   | 2  | 1  | 1  | 1 | 1 | 4  | 1  | 1    | 5    | 1    | /    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 4   | 1   |
| EVMSG1 5/0.37  | 1  | 1   | 3  | 1  | 1  | 1 | 1 | 5  | 1  | 1    | 7    | 1    | 1    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 5   | 1   |
| EVMSG1 6/0.37  | 1  | 1   | 4  | 1  | 1  | 1 | 1 | 6  | 1  | 1    | 9    | 1    | /    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 6   | 1   |
| EVMSG1 7/0.37  | 1  | 1   | 5  | 1  | 1  | 1 | 1 | 7  | 1  | 1    | 11   | 1    | /    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 7   | 1   |
| EVMSG1 8/0.37  | 1  | 1   | 6  | 1  | 1  | 1 | 1 | 8  | 1  | 1    | 13   | 1    | /    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 8   | 1   |
| EVMSG1 9/0.55  | 1  | 1   | 7  | 1  | 1  | 1 | 1 | 9  | 1  | 1    | 15   | 1    | /    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 9   | 1   |
| EVMSG1 10/0.55 | 1  | 1   | 8  | 1  | 1  | 1 | 1 | 10 | 1  | 1    | 17   | 1    | /    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 10  | 1   |
| EVMSG1 11/0.55 | 1  | 1   | 9  | 1  | 1  | 1 | 1 | 11 | 1  | 1    | 19   | 1    | /    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 11  | 1   |
| EVMSG1 12/0.55 | 1  | 1   | 10 | 1  | 1  | 1 | 1 | 12 | 1  | 1    | 21   | 1    | /    | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 12  | 1   |
| EVMSG1 13/0.55 | 1  | 1   | 10 | 2  | 1  | 1 | 1 | 13 | 1  | 1    | 20   | 2    | 1    | 1    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 13  | 1   |
| EVMSG1 14/0.75 | 1  | 1   | 11 | 2  | 1  | 1 | 1 | 14 | 1  | 1    | 22   | 2    | /    | 1    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 14  | 1   |
| EVMSG1 16/0.75 | 1  | 1   | 13 | 2  | 1  | 1 | 1 | 16 | 1  | 1    | 26   | 2    | /    | 1    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 16  | 1   |
| EVMSG1 18/1.1  | 1  | 1   | 15 | 2  | 1  | 1 | 1 | 18 | 1  | 1    | 30   | 2    | /    | 1    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 18  | 1   |
| EVMSG1 20/1.1  | 1  | 1   | 17 | 2  | 1  | 1 | 1 | 20 | 1  | 1    | 34   | 2    | /    | 1    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 20  | 1   |
| EVMSG1 22/1.1  | 1  | 1   | 19 | 2  | 1  | 1 | 1 | 22 | 1  | 1    | 38   | 2    | /    | 1    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 22  | 1   |
| EVMSG1 24/1.1  | 1  | 1   | 21 | 2  | 1  | 1 | 1 | 24 | 1  | 1    | 42   | 2    | /    | 1    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 24  | 1   |
| EVMSG1 26/1.1  | 1  | 1   | 23 | 2  | 1  | 1 | 1 | 26 | 1  | 1    | 46   | 2    | /    | 1    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 26  | 1   |
| EVMSG1 27/1.5  | 1  | 1   | 24 | 2  | 1  | 1 | 1 | 27 | 1  | 1    | 48   | 2    | /    | 1    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 27  | 1   |
| EVMSG1 29/1.5  | 1  | 1   | 26 | 2  | 1  | 1 | 1 | 29 | 1  | 1    | 52   | 2    | /    | 1    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 29  | 1   |
| EVMSG1 32/1.5  | 1  | 1   | 29 | 2  | 1  | 1 | 1 | 32 | 1  | 1    | 58   | 2    | /    | 1    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 32  | 1   |
| EVMSG1 34/1.5  | 1  | 1   | 31 | 2  | 1  | 1 | 1 | 34 | 1  | 1    | 62   | 2    | /    | 1    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 34  | 1   |
| EVMSG1 37/2.2  | 1  | 1   | 34 | 2  | 1  | 1 | 1 | 37 | 1  | 1    | 68   | 2    | /    | 1    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 37  | 1   |
| EVMSG1 39/2.2  | 1  | 1   | 36 | 2  | 1  | 1 | 1 | 39 | 1  | 1    | 72   | 2    | /    | 1    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 39  | 1   |

| Pump Type      | N°   |       |       |       |         |        |       |       |       |       |       |       |       |       |     |     |     |       |       |      |     |       |  |  |
|----------------|------|-------|-------|-------|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|-------|-------|------|-----|-------|--|--|
|                | 117* | 120-1 | 120-3 | 120-6 | 120-11* | 120-13 | 128-1 | 128-6 | 130-1 | 130-2 | 131-1 | 135-1 | 135-6 | 137-1 | 140 | 162 | 212 | 212-1 | 212-2 | 219* | 245 | 273-1 |  |  |
| EVMSG1 2/0.37  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG1 3/0.37  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG1 4/0.37  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG1 5/0.37  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG1 6/0.37  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG1 7/0.37  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG1 8/0.37  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG1 9/0.55  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG1 10/0.55 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG1 11/0.55 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG1 12/0.55 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG1 13/0.55 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG1 14/0.75 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG1 16/0.75 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG1 18/1.1  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG1 20/1.1  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG1 22/1.1  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG1 24/1.1  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG1 26/1.1  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG1 27/1.5  | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |  |  |
| EVMSG1 29/1.5  | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |  |  |
| EVMSG1 32/1.5  | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |  |  |
| EVMSG1 34/1.5  | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |  |  |
| EVMSG1 37/2.2  | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |  |  |
| EVMSG1 39/2.2  | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |  |  |

\* only for Oval flange (N)

PERFORMANCE CURVE  
EVMS(L)3

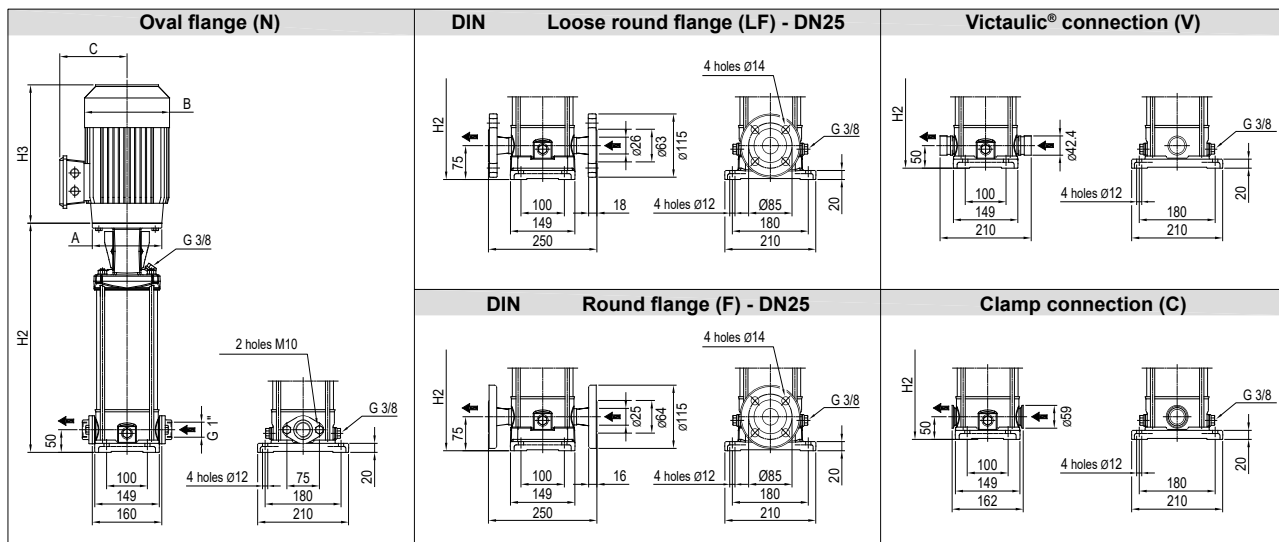


Test standard: ISO 9906:2012 - Grade 3B

# TECHNICAL DATA

## EVMS(L)3

### Dimensional sketch



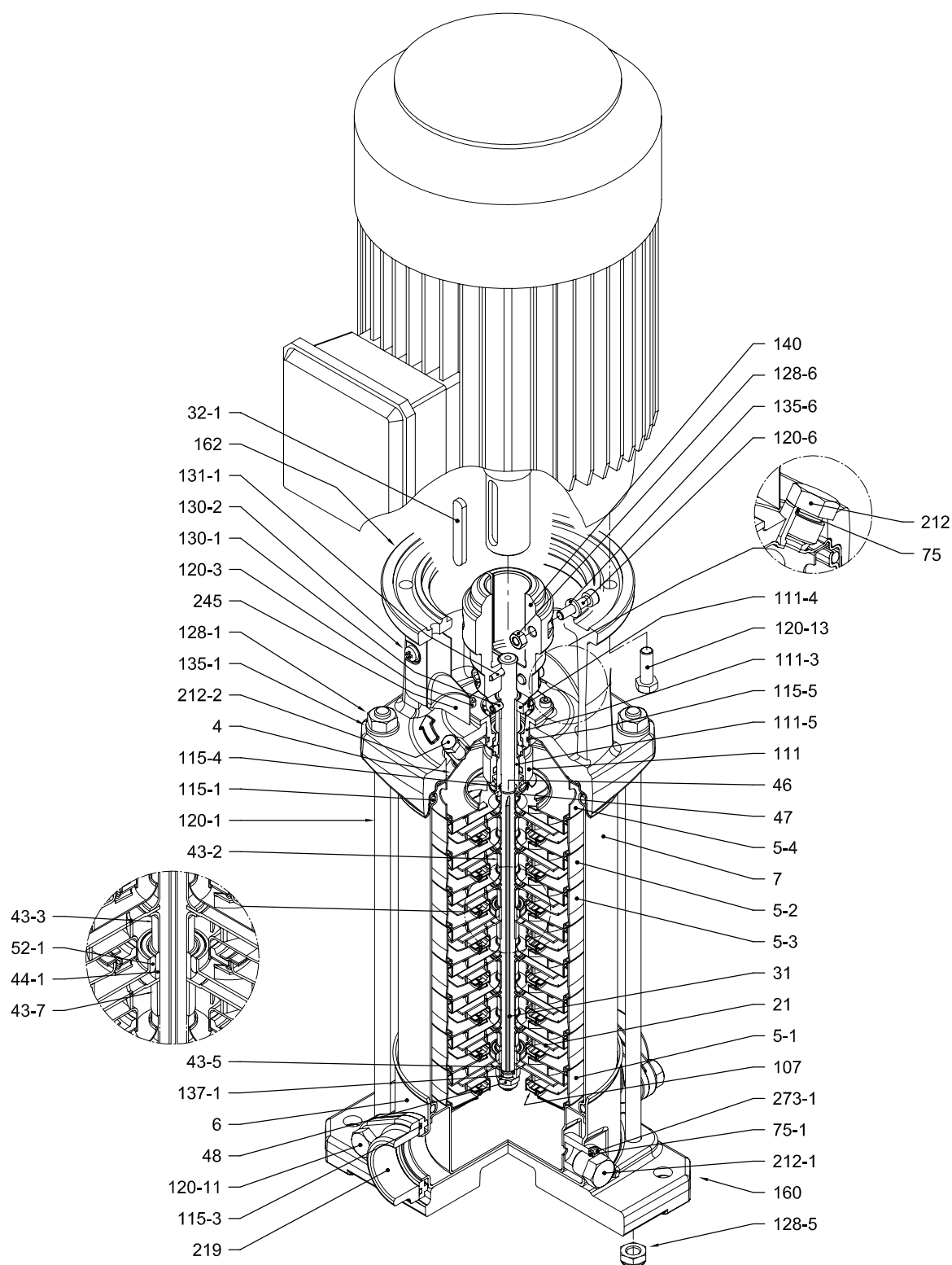
### Dimensions [mm] and Weights [Kg]

| Pump Type       | Pmax<br>[MPa] | Motor |      |     |     |     |     |     | Oval flange (N) |     |       |      |                |                           | Loose round flange (LF)<br>Round flange (F) |       |      |                |                           |      | Victaulic® connection (V)<br>Clamp connection (C) |      |                |                           |      |      |
|-----------------|---------------|-------|------|-----|-----|-----|-----|-----|-----------------|-----|-------|------|----------------|---------------------------|---------------------------------------------|-------|------|----------------|---------------------------|------|---------------------------------------------------|------|----------------|---------------------------|------|------|
|                 |               | kW    | Size | 1~  |     |     | 3~  |     |                 | H2  | H2+H3 |      | Weight<br>Pump | Weight<br>Pump +<br>Motor | H2                                          | H2+H3 |      | Weight<br>Pump | Weight<br>Pump +<br>Motor | H2   | H2+H3                                             |      | Weight<br>Pump | Weight<br>Pump +<br>Motor |      |      |
|                 |               |       |      | A   | B   | C   | B   | C   | 1~              |     | 3~    | 1~   |                |                           |                                             | 3~    | 1~   |                |                           |      | 3~                                                | 1~   |                |                           | 3~   |      |
|                 |               |       |      |     |     |     |     |     |                 |     |       |      |                |                           |                                             |       |      |                |                           |      |                                                   |      |                |                           |      | Ø    |
| EVMS(L)3 2/0.37 | 1.6           | 0.37  | 71   | 105 | 141 | 119 | 141 | 119 | 250             | 452 | 452   | 9.7  | 16.2           | 16.2                      | 275                                         | 477   | 477  | 10.5           | 17.0                      | 17.0 | 250                                               | 452  | 452            | 9.7                       | 16.2 | 16.2 |
| EVMS(L)3 3/0.37 | 1.6           | 0.37  | 71   | 105 | 141 | 119 | 141 | 119 | 271             | 473 | 473   | 10.1 | 16.6           | 16.6                      | 296                                         | 498   | 498  | 10.9           | 17.4                      | 17.4 | 271                                               | 473  | 473            | 10.2                      | 16.7 | 16.7 |
| EVMS(L)3 4/0.37 | 1.6           | 0.37  | 71   | 105 | 141 | 119 | 141 | 119 | 292             | 494 | 494   | 10.6 | 17.1           | 17.1                      | 317                                         | 519   | 519  | 11.3           | 17.8                      | 17.8 | 292                                               | 494  | 494            | 10.6                      | 17.1 | 17.1 |
| EVMS(L)3 5/0.55 | 1.6           | 0.55  | 71   | 105 | 141 | 119 | 141 | 119 | 313             | 515 | 515   | 11   | 18.0           | 18.0                      | 338                                         | 540   | 540  | 11.8           | 18.8                      | 18.8 | 313                                               | 515  | 515            | 11.1                      | 18.1 | 18.1 |
| EVMS(L)3 6/0.55 | 1.6           | 0.55  | 71   | 105 | 141 | 119 | 141 | 119 | 334             | 536 | 536   | 11.4 | 18.4           | 18.4                      | 359                                         | 561   | 561  | 12.2           | 19.2                      | 19.2 | 334                                               | 536  | 536            | 11.5                      | 18.5 | 18.5 |
| EVMS(L)3 7/0.75 | 1.6           | 0.75  | 80   | 120 | 160 | 142 | 141 | 102 | 365             | 594 | 598   | 12.4 | 22.4           | 20.9                      | 390                                         | 619   | 623  | 13.1           | 23.1                      | 21.6 | 365                                               | 594  | 598            | 12.4                      | 22.4 | 20.9 |
| EVMS(L)3 8/0.75 | 1.6           | 0.75  | 80   | 120 | 160 | 142 | 141 | 102 | 386             | 615 | 619   | 12.8 | 22.8           | 21.3                      | 411                                         | 640   | 644  | 13.6           | 23.6                      | 22.1 | 386                                               | 615  | 619            | 12.9                      | 22.9 | 21.4 |
| EVMS(L)3 9/1.1  | 1.6           | 1.1   | 80   | 120 | 160 | 142 | 141 | 102 | 407             | 636 | 651   | 13.2 | 24.2           | 23.2                      | 432                                         | 661   | 676  | 14             | 25.0                      | 24.0 | 407                                               | 636  | 651            | 13.3                      | 24.3 | 23.3 |
| EVMS(L)3 10/1.1 | 1.6           | 1.1   | 80   | 120 | 160 | 142 | 141 | 102 | 428             | 657 | 672   | 13.7 | 24.7           | 23.7                      | 453                                         | 682   | 697  | 14.5           | 25.5                      | 24.5 | 428                                               | 657  | 672            | 13.7                      | 24.7 | 23.7 |
| EVMS(L)3 11/1.1 | 1.6           | 1.1   | 80   | 120 | 160 | 142 | 141 | 102 | 449             | 678 | 693   | 14.1 | 25.1           | 24.1                      | 474                                         | 703   | 718  | 14.9           | 25.9                      | 24.9 | 449                                               | 678  | 693            | 14.2                      | 25.2 | 24.2 |
| EVMS(L)3 12/1.1 | 1.6           | 1.1   | 80   | 120 | 160 | 142 | 141 | 102 | 470             | 699 | 714   | 14.6 | 25.6           | 24.6                      | 495                                         | 724   | 739  | 15.4           | 26.4                      | 25.4 | 470                                               | 699  | 714            | 14.6                      | 25.6 | 24.6 |
| EVMS(L)3 13/1.5 | 1.6           | 1.5   | 90   | 140 | 172 | 140 | 160 | 119 | 501             | 779 | 792   | 15.3 | 33.1           | 28.8                      | 526                                         | 804   | 817  | 16.1           | 33.9                      | 29.6 | 501                                               | 779  | 792            | 15.3                      | 33.1 | 28.8 |
| EVMS(L)3 14/1.5 | 1.6           | 1.5   | 90   | 140 | 172 | 140 | 160 | 119 | 522             | 800 | 813   | 15.7 | 33.5           | 29.2                      | 547                                         | 825   | 838  | 16.5           | 34.3                      | 30.0 | 522                                               | 800  | 813            | 15.8                      | 33.6 | 29.3 |
| EVMS(L)3 15/1.5 | 1.6           | 1.5   | 90   | 140 | 172 | 140 | 160 | 119 | 543             | 821 | 834   | 16.2 | 34.0           | 29.7                      | 568                                         | 846   | 859  | 17             | 34.8                      | 30.5 | 543                                               | 821  | 834            | 16.3                      | 34.1 | 29.8 |
| EVMS(L)3 16/1.5 | 1.6           | 1.5   | 90   | 140 | 172 | 140 | 160 | 119 | 564             | 842 | 855   | 17.3 | 35.1           | 30.8                      | 589                                         | 867   | 880  | 18             | 35.8                      | 31.5 | 564                                               | 842  | 855            | 17.3                      | 35.1 | 30.8 |
| EVMS(L)3 17/2.2 | 1.6           | 2.2   | 90   | 140 | 172 | 140 | 160 | 119 | 585             | 863 | 876   | 17.7 | 37.2           | 32.7                      | 610                                         | 888   | 901  | 18.5           | 38.0                      | 33.5 | 585                                               | 863  | 876            | 17.7                      | 37.2 | 32.7 |
| EVMS(L)3 19/2.2 | 1.6           | 2.2   | 90   | 140 | 172 | 140 | 160 | 119 | 627             | 905 | 918   | 18.7 | 38.2           | 33.7                      | 652                                         | 930   | 943  | 19.5           | 39.0                      | 34.5 | 627                                               | 905  | 918            | 18.7                      | 38.2 | 33.7 |
| EVMS(L)3 21/2.2 | 1.6           | 2.2   | 90   | 140 | 172 | 140 | 160 | 119 | 669             | 947 | 960   | 19.6 | 39.1           | 34.6                      | 694                                         | 972   | 985  | 20.4           | 39.9                      | 35.4 | 669                                               | 947  | 960            | 19.6                      | 39.1 | 34.6 |
| EVMS(L)3 23/2.2 | 2.5           | 2.2   | 90   | 140 | 172 | 140 | 160 | 119 | -               | -   | -     | -    | -              | -                         | 736                                         | 1014  | 1027 | 21.4           | 40.9                      | 36.4 | 711                                               | 989  | 1002           | 20.6                      | 40.1 | 35.6 |
| EVMS(L)3 24/2.2 | 2.5           | 2.2   | 90   | 140 | 172 | 140 | 160 | 119 | -               | -   | -     | -    | -              | -                         | 757                                         | 1035  | 1048 | 21.8           | 41.3                      | 36.8 | 732                                               | 1010 | 1023           | 21.1                      | 40.6 | 36.1 |
| EVMS(L)3 25/3.0 | 2.5           | 3.0   | 100  | 160 | -   | -   | 176 | 123 | -               | -   | -     | -    | -              | -                         | 788                                         | -     | 1130 | 22.4           | -                         | 44.4 | 763                                               | -    | 1105           | 21.7                      | -    | 43.7 |
| EVMS(L)3 27/3.0 | 2.5           | 3.0   | 100  | 160 | -   | -   | 176 | 123 | -               | -   | -     | -    | -              | -                         | 830                                         | -     | 1172 | 23.4           | -                         | 45.4 | 805                                               | -    | 1147           | 22.6                      | -    | 44.6 |
| EVMS(L)3 29/3.0 | 2.5           | 3.0   | 100  | 160 | -   | -   | 176 | 123 | -               | -   | -     | -    | -              | -                         | 872                                         | -     | 1214 | 24.3           | -                         | 46.3 | 847                                               | -    | 1189           | 23.6                      | -    | 45.6 |
| EVMS(L)3 31/3.0 | 2.5           | 3.0   | 100  | 160 | -   | -   | 176 | 123 | -               | -   | -     | -    | -              | -                         | 914                                         | -     | 1256 | 25.3           | -                         | 47.3 | 889                                               | -    | 1231           | 24.6                      | -    | 46.6 |
| EVMS(L)3 33/3.0 | 2.5           | 3.0   | 100  | 160 | -   | -   | 176 | 123 | -               | -   | -     | -    | -              | -                         | 956                                         | -     | 1298 | 26.1           | -                         | 48.1 | 931                                               | -    | 1273           | 25.4                      | -    | 47.4 |

1.6 MPa=16 bar;      2.5 MPa=25 bar  
- not available model

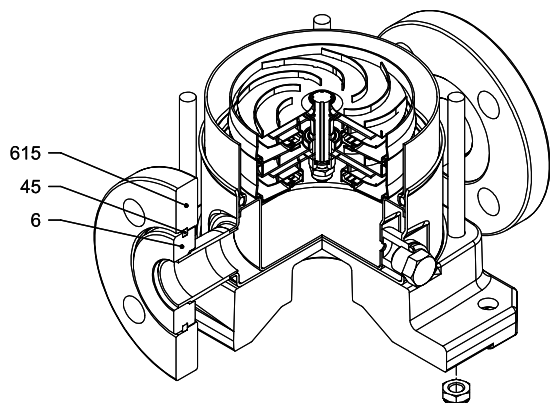


# SECTIONAL VIEW EVMS(L)3

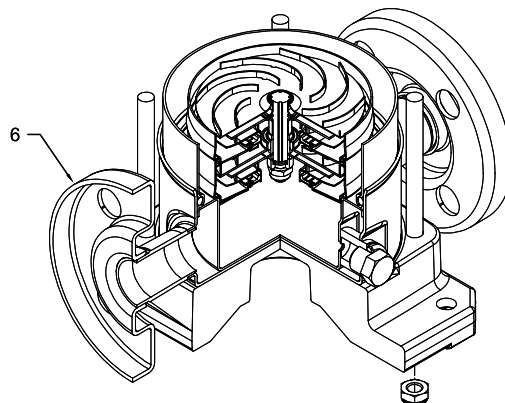


with Oval flange (N)

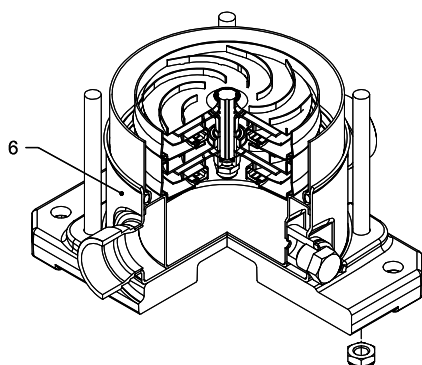
### PIPE CONNECTION EVMS(L)3



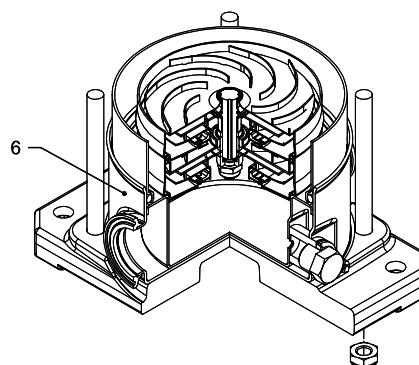
with Loose round flange (LF)



with Round flange (F)



with Victaulic® connection (V)



with Clamp connection (C)

SECTIONAL TABLE  
EVMS(L)3

| N°     | PART NAME                        | MATERIAL                                 |                                               | DIMENSIONS            | STANDARD |
|--------|----------------------------------|------------------------------------------|-----------------------------------------------|-----------------------|----------|
|        |                                  | EVMS                                     | EVMSL                                         |                       |          |
| 4      | Casing cover                     | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |                       |          |
| 5-1    | Suction casing                   | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |                       |          |
| 5-2    | Intermediate casing              | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |                       |          |
| 5-3    | Intermediate casing with bearing | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |                       |          |
| 5-4    | Discharge casing                 | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |                       |          |
| 6      | Bottom casing                    | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |                       |          |
| 7      | Outer casing                     | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |                       |          |
| 21     | Impeller                         | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |                       |          |
| 31     | Shaft                            | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |                       |          |
| 32-1   | Adjuster key                     | EN 1.4301 (AISI 304)                     |                                               |                       |          |
| 43-2   | Shaft sleeve (intermediate)      | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |                       |          |
| 43-3   | Shaft sleeve (bearing)           | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |                       |          |
| 43-5   | Shaft sleeve (last stage)        | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |                       |          |
| 43-7   | Spacer                           | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |                       |          |
| 44-1   | Shaft sleeve bearing             | Tungsten carbide                         |                                               |                       |          |
| 45     | Flange holder                    | EN 1.4301 (AISI 304)                     |                                               |                       |          |
| 46     | Ring (mechanical seal)           | EN 1.4404 (AISI 316L)                    |                                               |                       |          |
| 47     | Ring holder                      | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |                       |          |
| 48     | Impeller nut                     | EN 1.4301 (AISI 304)<br>with inox insert | EN 1.4401 (AISI 316)<br>with inox insert      | M8                    |          |
| 52-1   | Sleeve bearing                   | Tungsten carbide                         |                                               |                       |          |
| 75     | O-Ring (priming plug)            | EPDM / FPM                               |                                               | Ø12.37x2.62           | OR 3050  |
| 75-1   | O-Ring (drainage plug)           | EPDM / FPM                               |                                               |                       |          |
| 107    | Liner ring                       | EN 1.4301 (AISI 304) + PPS               | EN 1.4404 (AISI 316L) + PPS                   |                       |          |
| 111    | Mechanical seal                  | see pages 6-7                            |                                               |                       |          |
| 111-3  | Mechanical seal seat             | EN 1.4308 (ASTM CF8)                     | EN 1.4408 (ASTM CF8M)                         |                       |          |
| 111-4  | Seal holder                      | EN 1.4301 (AISI 304)                     |                                               |                       |          |
| 111-5  | Mechanical seal cartridge sleeve | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |                       |          |
| 115-1  | O-Ring (outer casing)            | EPDM / FPM                               |                                               | Ø129.54x5.34          | OR 6945  |
| 115-3  | O-Ring                           | EPDM / FPM                               |                                               |                       |          |
| 115-4  | O-Ring (cartridge sleeve)        | EPDM / FPM                               |                                               | Ø11.91x2.62           | OR 4093  |
| 115-5  | O-Ring (seal flange)             | EPDM / FPM                               |                                               | Ø32.99x2.62           | OR 4175  |
| 120-1  | Tie-rod                          | EN 1.4057 (AISI 431)                     |                                               | M10                   |          |
| 120-3  | Screw (seal flange)              | A2-70                                    |                                               | M4x10                 | ISO 4762 |
| 120-6  | Screw (pump coupling)            | Galvanized steel                         |                                               | M6x25                 | ISO 4762 |
| 120-11 | Screw (counterflange)            | A2-70                                    |                                               |                       |          |
| 120-13 | Screw for motor                  | MEC 71-80                                | Galvanized steel 8.8 strength class ISO 898/1 | M6x20                 | ISO 4017 |
|        |                                  | MEC 90-100                               |                                               | M8x20                 | ISO 4017 |
| 128-1  | Nut (tie rod)                    | A2-70                                    |                                               | M10                   | ISO 4032 |
| 128-5  | Nut (tie rod)                    | A2-70                                    |                                               | M10                   | UNI 7474 |
| 128-6  | Nut (aluminium coupling)         | MEC 71-80-90-100-112                     | Galvanized steel                              | M6                    | ISO 4032 |
| 130-1  | Set screw                        | EN 1.4301 (AISI 304)                     |                                               | M5x8                  | ISO 4026 |
| 130-2  | Screw for coupling guard         | A2-70                                    |                                               | M5x6                  | UNI 7687 |
| 131-1  | Pin for shaft                    | Carbon Steel                             |                                               | Ø4x32                 | ISO 2338 |
| 135-1  | Washer (tie rod)                 | EN 1.4301 (AISI 304)                     |                                               | Ø10.5x21x2            | ISO 7089 |
| 135-6  | Washer (aluminium coupling)      | up to 4.0 kW                             | Carbon Steel                                  | Ø6                    |          |
| 137-1  | Impeller spacer                  | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |                       |          |
| 140    | Coupling                         | up to 4.0 kW                             | Die cast Aluminium EN AB-AISI11Cu2 (Fe)       |                       |          |
| 160    | Base                             | Die cast Aluminium EN AB-AISI11Cu2 (Fe)  |                                               |                       |          |
| 162    | Motor bracket                    | Cast iron EN-GJL-250                     |                                               |                       |          |
| 212    | Priming plug                     | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         | G 3/8                 |          |
| 212-1  | Drainage plug                    | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         | G 3/8                 |          |
| 212-2  | Venting plug                     | EN 1.4404 (AISI 316L)                    |                                               |                       |          |
| 219    | Counter flange                   | flange type: N                           | EN 1.4308 (ASTM CF8)                          | EN 1.4408 (ASTM CF8M) |          |
|        |                                  | flange type: LF-F-V-C                    | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L) |          |
| 245    | Coupling guard                   | EN 1.4301 (AISI 304)                     |                                               |                       |          |
| 273-1  | Washer (drainage plug)           | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                         |                       |          |
| 615    | Flange                           | Nodular Cast Iron                        |                                               |                       |          |

### QUANTITY FOR MODEL EVMS(L)3

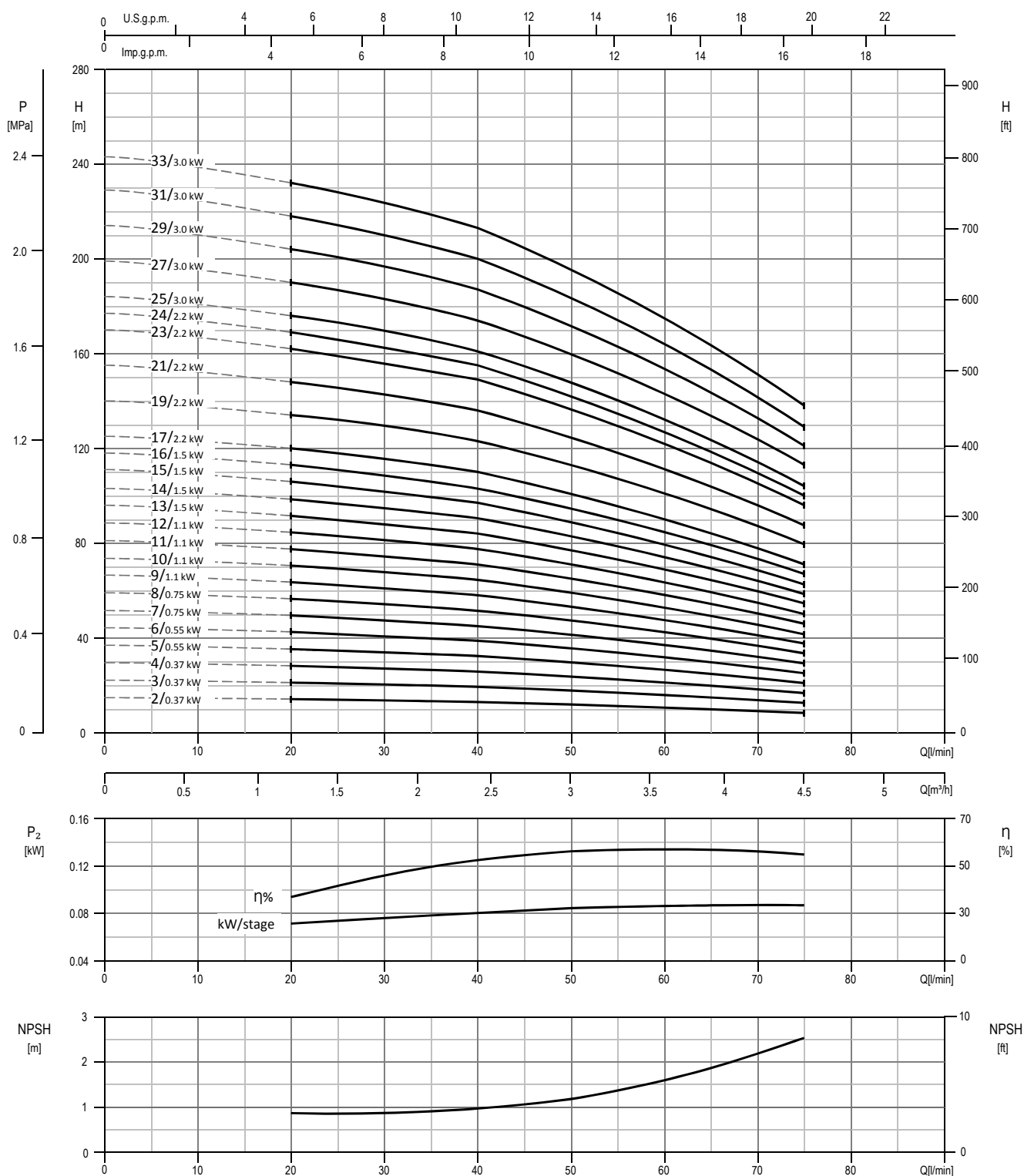
| Pump Type       | N° |     |    |    |    |   |   |    |    |      |      |      |      |      |      |      |    |    |    |      |    |      |     |     |       |       |       |       |        |       |       |
|-----------------|----|-----|----|----|----|---|---|----|----|------|------|------|------|------|------|------|----|----|----|------|----|------|-----|-----|-------|-------|-------|-------|--------|-------|-------|
|                 | 4  | 5-1 | 52 | 53 | 54 | 6 | 7 | 21 | 31 | 32-1 | 43-2 | 43-3 | 43-5 | 43-7 | 44-1 | 45** | 46 | 47 | 48 | 52-1 | 75 | 75-1 | 107 | 111 | 111-3 | 111-4 | 111-5 | 115-1 | 115-3* | 115-4 | 115-5 |
| EVMS(L)3 2/0.37 | 1  | 1   | /  | 1  | 1  | 1 | 1 | 2  | 1  | 1    | 1    | 1    | /    | /    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 2   | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     |
| EVMS(L)3 3/0.37 | 1  | 1   | 1  | 1  | 1  | 1 | 1 | 3  | 1  | 1    | 3    | 1    | /    | /    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 3   | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     |
| EVMS(L)3 4/0.37 | 1  | 1   | 2  | 1  | 1  | 1 | 1 | 4  | 1  | 1    | 5    | 1    | /    | /    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 4   | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     |
| EVMS(L)3 5/0.55 | 1  | 1   | 3  | 1  | 1  | 1 | 1 | 5  | 1  | 1    | 7    | 1    | 1    | /    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 5   | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     |
| EVMS(L)3 6/0.55 | 1  | 1   | 4  | 1  | 1  | 1 | 1 | 6  | 1  | 1    | 9    | 1    | /    | /    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 6   | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     |
| EVMS(L)3 7/0.75 | 1  | 1   | 5  | 1  | 1  | 1 | 1 | 7  | 1  | 1    | 11   | 1    | /    | /    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 7   | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     |
| EVMS(L)3 8/0.75 | 1  | 1   | 6  | 1  | 1  | 1 | 1 | 8  | 1  | 1    | 13   | 1    | /    | /    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 8   | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     |
| EVMS(L)3 9/1.1  | 1  | 1   | 7  | 1  | 1  | 1 | 1 | 9  | 1  | 1    | 15   | 1    | 1    | /    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 9   | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     |
| EVMS(L)3 10/1.1 | 1  | 1   | 8  | 1  | 1  | 1 | 1 | 10 | 1  | 1    | 17   | 1    | /    | /    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 10  | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     |
| EVMS(L)3 11/1.1 | 1  | 1   | 9  | 1  | 1  | 1 | 1 | 11 | 1  | 1    | 19   | 1    | /    | /    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 11  | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     |
| EVMS(L)3 12/1.1 | 1  | 1   | 10 | 1  | 1  | 1 | 1 | 12 | 1  | 1    | 21   | 1    | /    | /    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 12  | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     |
| EVMS(L)3 13/1.5 | 1  | 1   | 10 | 2  | 1  | 1 | 1 | 13 | 1  | 1    | 20   | 2    | 1    | 1    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 13  | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     |
| EVMS(L)3 14/1.5 | 1  | 1   | 11 | 2  | 1  | 1 | 1 | 14 | 1  | 1    | 22   | 2    | /    | 1    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 14  | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     |
| EVMS(L)3 15/1.5 | 1  | 1   | 12 | 2  | 1  | 1 | 1 | 15 | 1  | 1    | 24   | 2    | /    | 1    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 15  | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     |
| EVMS(L)3 16/1.5 | 1  | 1   | 13 | 2  | 1  | 1 | 1 | 16 | 1  | 1    | 26   | 2    | /    | 1    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 16  | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     |
| EVMS(L)3 17/2.2 | 1  | 1   | 14 | 2  | 1  | 1 | 1 | 17 | 1  | 1    | 28   | 2    | 1    | 1    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 17  | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     |
| EVMS(L)3 19/2.2 | 1  | 1   | 16 | 2  | 1  | 1 | 1 | 19 | 1  | 1    | 32   | 2    | /    | 1    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 19  | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     |
| EVMS(L)3 21/2.2 | 1  | 1   | 18 | 2  | 1  | 1 | 1 | 21 | 1  | 1    | 36   | 2    | 1    | 1    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 21  | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     |
| EVMS(L)3 23/2.2 | 1  | 1   | 20 | 2  | 1  | 1 | 1 | 23 | 1  | 1    | 40   | 2    | /    | 1    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 23  | 1   | 1     | 1     | 1     | 2     | /      | 1     | 1     |
| EVMS(L)3 24/2.2 | 1  | 1   | 21 | 2  | 1  | 1 | 1 | 24 | 1  | 1    | 42   | 2    | /    | 1    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 24  | 1   | 1     | 1     | 1     | 2     | /      | 1     | 1     |
| EVMS(L)3 25/3.0 | 1  | 1   | 22 | 2  | 1  | 1 | 1 | 25 | 1  | 1    | 44   | 2    | /    | 1    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 25  | 1   | 1     | 1     | 1     | 2     | /      | 1     | 1     |
| EVMS(L)3 27/3.0 | 1  | 1   | 24 | 2  | 1  | 1 | 1 | 27 | 1  | 1    | 48   | 2    | /    | 1    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 27  | 1   | 1     | 1     | 1     | 2     | /      | 1     | 1     |
| EVMS(L)3 29/3.0 | 1  | 1   | 26 | 2  | 1  | 1 | 1 | 29 | 1  | 1    | 52   | 2    | /    | 1    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 29  | 1   | 1     | 1     | 1     | 2     | /      | 1     | 1     |
| EVMS(L)3 31/3.0 | 1  | 1   | 28 | 2  | 1  | 1 | 1 | 31 | 1  | 1    | 56   | 2    | /    | 1    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 31  | 1   | 1     | 1     | 1     | 2     | /      | 1     | 1     |
| EVMS(L)3 33/3.0 | 1  | 1   | 30 | 2  | 1  | 1 | 1 | 33 | 1  | 1    | 60   | 2    | /    | 1    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 33  | 1   | 1     | 1     | 1     | 2     | /      | 1     | 1     |

| Pump Type       | N°    |       |       |         |        |       |       |       |       |       |       |       |       |       |     |     |     |     |       |       |      |     |       |      |  |  |
|-----------------|-------|-------|-------|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|-----|-------|-------|------|-----|-------|------|--|--|
|                 | 120-1 | 120-3 | 120-6 | 120-11* | 120-13 | 128-1 | 128-5 | 128-6 | 130-1 | 130-2 | 131-1 | 135-1 | 135-6 | 137-1 | 140 | 160 | 162 | 212 | 212-1 | 212-2 | 219* | 245 | 273-1 | 615* |  |  |
| EVMS(L)3 2/0.37 | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2    |  |  |
| EVMS(L)3 3/0.37 | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2    |  |  |
| EVMS(L)3 4/0.37 | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2    |  |  |
| EVMS(L)3 5/0.55 | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2    |  |  |
| EVMS(L)3 6/0.55 | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2    |  |  |
| EVMS(L)3 7/0.75 | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2    |  |  |
| EVMS(L)3 8/0.75 | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2    |  |  |
| EVMS(L)3 9/1.1  | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2    |  |  |
| EVMS(L)3 10/1.1 | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2    |  |  |
| EVMS(L)3 11/1.1 | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2    |  |  |
| EVMS(L)3 12/1.1 | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2    |  |  |
| EVMS(L)3 13/1.5 | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2    |  |  |
| EVMS(L)3 14/1.5 | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2    |  |  |
| EVMS(L)3 15/1.5 | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2    |  |  |
| EVMS(L)3 16/1.5 | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2    |  |  |
| EVMS(L)3 17/2.2 | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2    |  |  |
| EVMS(L)3 19/2.2 | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2    |  |  |
| EVMS(L)3 21/2.2 | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2    |  |  |
| EVMS(L)3 23/2.2 | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2    |  |  |
| EVMS(L)3 24/2.2 | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2    |  |  |
| EVMS(L)3 25/3.0 | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2    |  |  |
| EVMS(L)3 27/3.0 | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2    |  |  |
| EVMS(L)3 29/3.0 | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2    |  |  |
| EVMS(L)3 31/3.0 | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2    |  |  |
| EVMS(L)3 33/3.0 | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2    |  |  |

\* only for Oval flange (N)

\*\* only for Loose round flange (LF)

PERFORMANCE CURVE  
EVMSG3



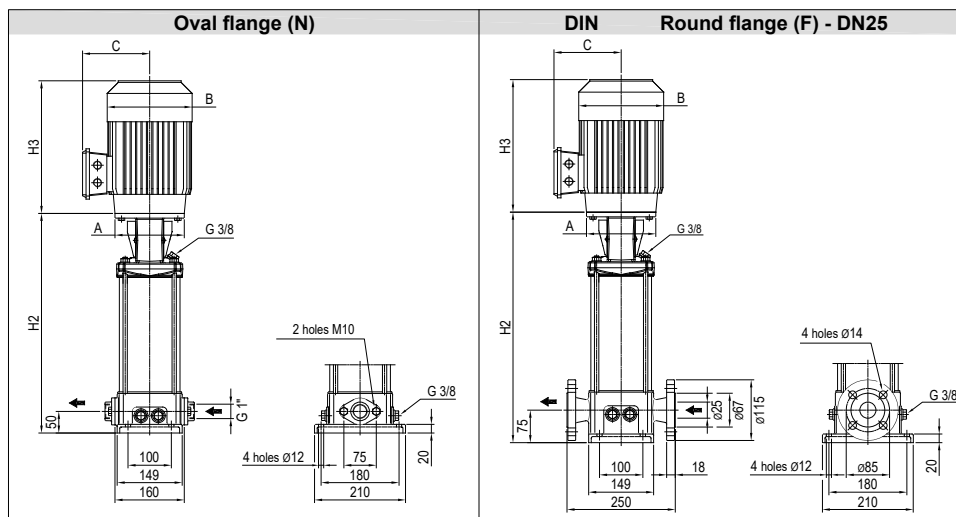
Test standard: ISO 9906:2012 - Grade 3B

### TECHNICAL DATA EVMSG3

2.9

EVMSG3

#### Dimensional sketch

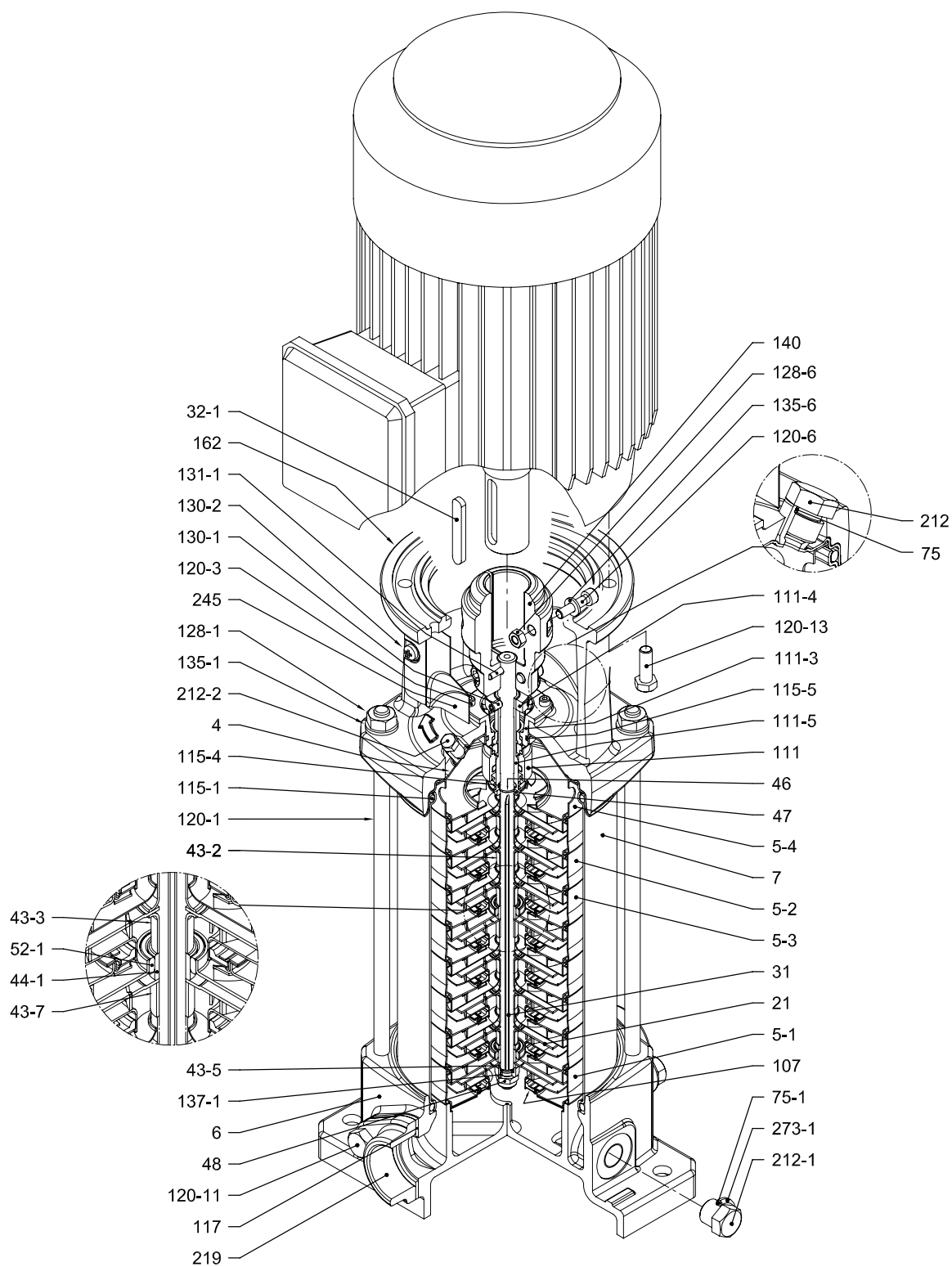


#### Dimensions [mm] and Weights [Kg]

| Pump Type     |     | Pmax<br>[MPa] | Motor |      |        |     |     |     | Oval flange (N) |       |     |                |                           |      | Round flange (F) |      |                |                           |      |      |
|---------------|-----|---------------|-------|------|--------|-----|-----|-----|-----------------|-------|-----|----------------|---------------------------|------|------------------|------|----------------|---------------------------|------|------|
|               |     |               | kW    | Size | 1~     |     | 3~  |     | H2              | H2+H3 |     | Weight<br>Pump | Weight<br>Pump +<br>Motor | H2   | H2+H3            |      | Weight<br>Pump | Weight<br>Pump +<br>Motor |      |      |
|               |     |               |       |      | A<br>Ø | B   | C   | B   |                 | C     | 1~  |                |                           |      | 3~               | 1~   |                |                           | 3~   | 1~   |
| EVMSG3 2/0.37 | 1.6 | 0.37          | 71    | 105  | 141    | 119 | 141 | 119 | 250             | 452   | 452 | 12.9           | 19.4                      | 19.4 | 275              | 477  | 477            | 15.7                      | 22.2 | 22.2 |
| EVMSG3 3/0.37 | 1.6 | 0.37          | 71    | 105  | 141    | 119 | 141 | 119 | 271             | 473   | 473 | 13.3           | 19.8                      | 19.8 | 296              | 498  | 498            | 16.1                      | 22.6 | 22.6 |
| EVMSG3 4/0.37 | 1.6 | 0.37          | 71    | 105  | 141    | 119 | 141 | 119 | 292             | 494   | 494 | 13.8           | 20.3                      | 20.3 | 317              | 519  | 519            | 16.6                      | 23.1 | 23.1 |
| EVMSG3 5/0.55 | 1.6 | 0.55          | 71    | 105  | 141    | 119 | 141 | 119 | 313             | 515   | 515 | 14.2           | 21.2                      | 21.2 | 338              | 540  | 540            | 17                        | 24.0 | 24.0 |
| EVMSG3 6/0.55 | 1.6 | 0.55          | 71    | 105  | 141    | 119 | 141 | 119 | 334             | 536   | 536 | 14.7           | 21.7                      | 21.7 | 359              | 561  | 561            | 17.4                      | 24.4 | 24.4 |
| EVMSG3 7/0.75 | 1.6 | 0.75          | 80    | 120  | 160    | 142 | 141 | 102 | 365             | 594   | 598 | 15.6           | 25.6                      | 24.1 | 390              | 619  | 623            | 18.3                      | 28.3 | 26.8 |
| EVMSG3 8/0.75 | 1.6 | 0.75          | 80    | 120  | 160    | 142 | 141 | 102 | 386             | 615   | 619 | 16             | 26.0                      | 24.5 | 411              | 640  | 644            | 18.8                      | 28.8 | 27.3 |
| EVMSG3 9/1.1  | 1.6 | 1.1           | 80    | 120  | 160    | 142 | 141 | 102 | 407             | 636   | 651 | 16.4           | 27.4                      | 26.4 | 432              | 661  | 676            | 19.2                      | 30.2 | 29.2 |
| EVMSG3 10/1.1 | 1.6 | 1.1           | 80    | 120  | 160    | 142 | 141 | 102 | 428             | 657   | 672 | 16.9           | 27.9                      | 26.9 | 453              | 682  | 697            | 19.7                      | 30.7 | 29.7 |
| EVMSG3 11/1.1 | 1.6 | 1.1           | 80    | 120  | 160    | 142 | 141 | 102 | 449             | 678   | 693 | 17.3           | 28.3                      | 27.3 | 474              | 703  | 718            | 20.1                      | 31.1 | 30.1 |
| EVMSG3 12/1.1 | 1.6 | 1.1           | 80    | 120  | 160    | 142 | 141 | 102 | 470             | 699   | 714 | 17.8           | 28.8                      | 27.8 | 495              | 724  | 739            | 20.6                      | 31.6 | 30.6 |
| EVMSG3 13/1.5 | 1.6 | 1.5           | 90    | 140  | 172    | 140 | 160 | 119 | 501             | 779   | 792 | 18.5           | 36.3                      | 32.0 | 526              | 804  | 817            | 21.3                      | 39.1 | 34.8 |
| EVMSG3 14/1.5 | 1.6 | 1.5           | 90    | 140  | 172    | 140 | 160 | 119 | 522             | 800   | 813 | 19             | 36.8                      | 32.5 | 547              | 825  | 838            | 21.7                      | 39.5 | 35.2 |
| EVMSG3 15/1.5 | 1.6 | 1.5           | 90    | 140  | 172    | 140 | 160 | 119 | 543             | 821   | 834 | 19.4           | 37.2                      | 32.9 | 568              | 846  | 859            | 22.2                      | 40.0 | 35.7 |
| EVMSG3 16/1.5 | 1.6 | 1.5           | 90    | 140  | 172    | 140 | 160 | 119 | 564             | 842   | 855 | 20.5           | 38.3                      | 34.0 | 589              | 867  | 880            | 23.2                      | 41.0 | 36.7 |
| EVMSG3 17/2.2 | 1.6 | 2.2           | 90    | 140  | 172    | 140 | 160 | 119 | 585             | 863   | 876 | 20.9           | 40.4                      | 35.9 | 610              | 888  | 901            | 23.7                      | 43.2 | 38.7 |
| EVMSG3 19/2.2 | 1.6 | 2.2           | 90    | 140  | 172    | 140 | 160 | 119 | 627             | 905   | 918 | 21.9           | 41.4                      | 36.9 | 652              | 930  | 943            | 24.7                      | 44.2 | 39.7 |
| EVMSG3 21/2.2 | 1.6 | 2.2           | 90    | 140  | 172    | 140 | 160 | 119 | 669             | 947   | 960 | 22.8           | 42.3                      | 37.8 | 694              | 972  | 985            | 25.6                      | 45.1 | 40.6 |
| EVMSG3 23/2.2 | 2.5 | 2.2           | 90    | 140  | 172    | 140 | 160 | 119 | -               | -     | -   | -              | -                         | -    | 736              | 1014 | 1027           | 26.6                      | 46.1 | 41.6 |
| EVMSG3 24/2.2 | 2.5 | 2.2           | 90    | 140  | 172    | 140 | 160 | 119 | -               | -     | -   | -              | -                         | -    | 757              | 1035 | 1048           | 27                        | 46.5 | 42.0 |
| EVMSG3 25/3.0 | 2.5 | 3.0           | 100   | 160  | -      | -   | 176 | 123 | -               | -     | -   | -              | -                         | -    | 788              | -    | 1130           | 27.6                      | -    | 49.6 |
| EVMSG3 27/3.0 | 2.5 | 3.0           | 100   | 160  | -      | -   | 176 | 123 | -               | -     | -   | -              | -                         | -    | 830              | -    | 1172           | 28.6                      | -    | 50.6 |
| EVMSG3 29/3.0 | 2.5 | 3.0           | 100   | 160  | -      | -   | 176 | 123 | -               | -     | -   | -              | -                         | -    | 872              | -    | 1214           | 29.6                      | -    | 51.6 |
| EVMSG3 31/3.0 | 2.5 | 3.0           | 100   | 160  | -      | -   | 176 | 123 | -               | -     | -   | -              | -                         | -    | 914              | -    | 1256           | 30.5                      | -    | 52.5 |
| EVMSG3 33/3.0 | 2.5 | 3.0           | 100   | 160  | -      | -   | 176 | 123 | -               | -     | -   | -              | -                         | -    | 956              | -    | 1298           | 31.3                      | -    | 53.3 |

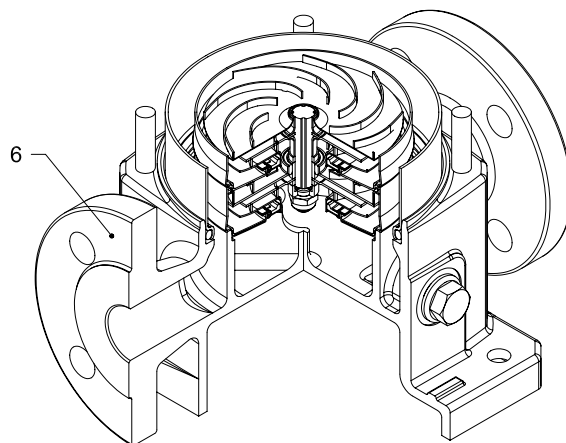
1.6 MPa=16 bar; 2.5 MPa=25 bar  
- not available model



SECTIONAL VIEW  
EVMSG3

with Oval flange (N)

### PIPE CONNECTION EVMSG3



with Round flange (F)

SECTIONAL TABLE  
EVMSG3

| N°     | PART NAME                        | MATERIAL<br>EVMSG                     | DIMENSIONS                                    | STANDARD                               |
|--------|----------------------------------|---------------------------------------|-----------------------------------------------|----------------------------------------|
| 4      | Casing cover                     | EN 1.4301 (AISI 304)                  |                                               |                                        |
| 5-1    | Suction casing                   | EN 1.4301 (AISI 304)                  |                                               |                                        |
| 5-2    | Intermediate casing              | EN 1.4301 (AISI 304)                  |                                               |                                        |
| 5-3    | Intermediate casing with bearing | EN 1.4301 (AISI 304)                  |                                               |                                        |
| 5-4    | Discharge casing                 | EN 1.4301 (AISI 304)                  |                                               |                                        |
| 6      | Bottom casing                    | Cast Iron EN-GJL-250                  |                                               |                                        |
| 7      | Outer casing                     | EN 1.4301 (AISI 304)                  |                                               |                                        |
| 21     | Impeller                         | EN 1.4301 (AISI 304)                  |                                               |                                        |
| 31     | Shaft                            | EN 1.4301 (AISI 304)                  |                                               |                                        |
| 32-1   | Adjuster key                     | EN 1.4301 (AISI 304)                  |                                               |                                        |
| 43-2   | Shaft sleeve (intermediate)      | EN 1.4301 (AISI 304)                  |                                               |                                        |
| 43-3   | Shaft sleeve (bearing)           | EN 1.4301 (AISI 304)                  |                                               |                                        |
| 43-5   | Shaft sleeve (last stage)        | EN 1.4301 (AISI 304)                  |                                               |                                        |
| 43-7   | Spacer                           | EN 1.4301 (AISI 304)                  |                                               |                                        |
| 44-1   | Shaft sleeve bearing             | Tungsten carbide                      |                                               |                                        |
| 46     | Ring (mechanical seal)           | EN 1.4404 (AISI 316L)                 |                                               |                                        |
| 47     | Ring holder                      | EN 1.4404 (AISI 316L)                 |                                               |                                        |
| 48     | Impeller nut                     | EN 1.4301 (AISI 304) with inox insert | M8                                            |                                        |
| 52-1   | Sleeve bearing                   | Tungsten carbide                      |                                               |                                        |
| 75     | O-Ring (priming plug)            | EPDM / FPM                            | Ø12.37x2.62                                   | OR 3050                                |
| 75-1   | O-Ring (drainage plug)           | EPDM / FPM                            |                                               |                                        |
| 107    | Liner ring                       | EN 1.4301 (AISI 304) + PPS            |                                               |                                        |
| 111    | Mechanical seal                  | see pages 6-7                         |                                               |                                        |
| 111-3  | Mechanical seal seat             | EN 1.4308 (ASTM CF8)                  |                                               |                                        |
| 111-4  | Seal holder                      | EN 1.4301 (AISI 304)                  |                                               |                                        |
| 111-5  | Mechanical seal cartridge sleeve | EN 1.4301 (AISI 304)                  |                                               |                                        |
| 115-1  | O-Ring (outer casing)            | EPDM / FPM                            | Ø129.54x5.34                                  | OR 6945                                |
| 115-4  | O-Ring (cartridge sleeve)        | EPDM / FPM                            | Ø11.91x2.62                                   | OR 4093                                |
| 115-5  | O-Ring (seal flange)             | EPDM / FPM                            | Ø32.99x2.62                                   | OR 4175                                |
| 117    | Flange gasket                    | EPDM / FPM                            |                                               |                                        |
| 120-1  | Tie-rod                          | EN 1.4057 (AISI 431)                  | M10                                           |                                        |
| 120-3  | Screw (seal flange)              | A2-70                                 | M4x10                                         | ISO 4762                               |
| 120-6  | Screw (pump coupling)            | Galvanized steel                      | M6x25                                         | ISO 4762                               |
| 120-11 | Screw (counterflange)            | A2-70                                 |                                               |                                        |
| 120-13 | Screw for motor                  | MEC 71-80<br>MEC 90-100               | Galvanized steel 8.8 strength class ISO 898/1 | M6x20<br>M8x20<br>ISO 4017<br>ISO 4017 |
| 128-1  | Nut (tie rod)                    | A2-70                                 | M10                                           | ISO 4032                               |
| 128-6  | Nut (aluminium coupling)         | MEC 71-80-90-100-112                  | Galvanized steel                              | M6<br>ISO 4032                         |
| 130-1  | Set screw                        | EN 1.4301 (AISI 304)                  | M5x8                                          | ISO 4026                               |
| 130-2  | Screw for coupling guard         | A2-70                                 | M5x6                                          | UNI 7687                               |
| 131-1  | Pin for shaft                    | Carbon Steel                          | Ø4x32                                         | ISO 2338                               |
| 135-1  | Washer (tie rod)                 | EN 1.4301 (AISI 304)                  | Ø10.5x21x2                                    | ISO 7089                               |
| 135-6  | Washer (aluminium coupling)      | up to 4.0 kW                          | Carbon Steel                                  | Ø6                                     |
| 137-1  | Impeller spacer                  | EN 1.4301 (AISI 304)                  |                                               |                                        |
| 140    | Coupling                         | up to 4.0 kW                          | Die cast Aluminium EN AB-AISI11Cu2 (Fe)       |                                        |
| 162    | Motor bracket                    | Cast iron EN-GJL-250                  |                                               |                                        |
| 212    | Priming plug                     | EN 1.4301 (AISI 304)                  | G 3/8                                         |                                        |
| 212-1  | Drainage plug                    | EN 1.4301 (AISI 304)                  | G 3/8                                         |                                        |
| 212-2  | Venting plug                     | EN 1.4404 (AISI 316L)                 |                                               |                                        |
| 219    | Counter flange                   | flange type: N<br>flange type: F      | Galvanized steel<br>Cast Iron EN-GJL-250      |                                        |
| 245    | Coupling guard                   | EN 1.4301 (AISI 304)                  |                                               |                                        |
| 273-1  | Washer (drainage plug)           | EN 1.4301 (AISI 304)                  |                                               |                                        |

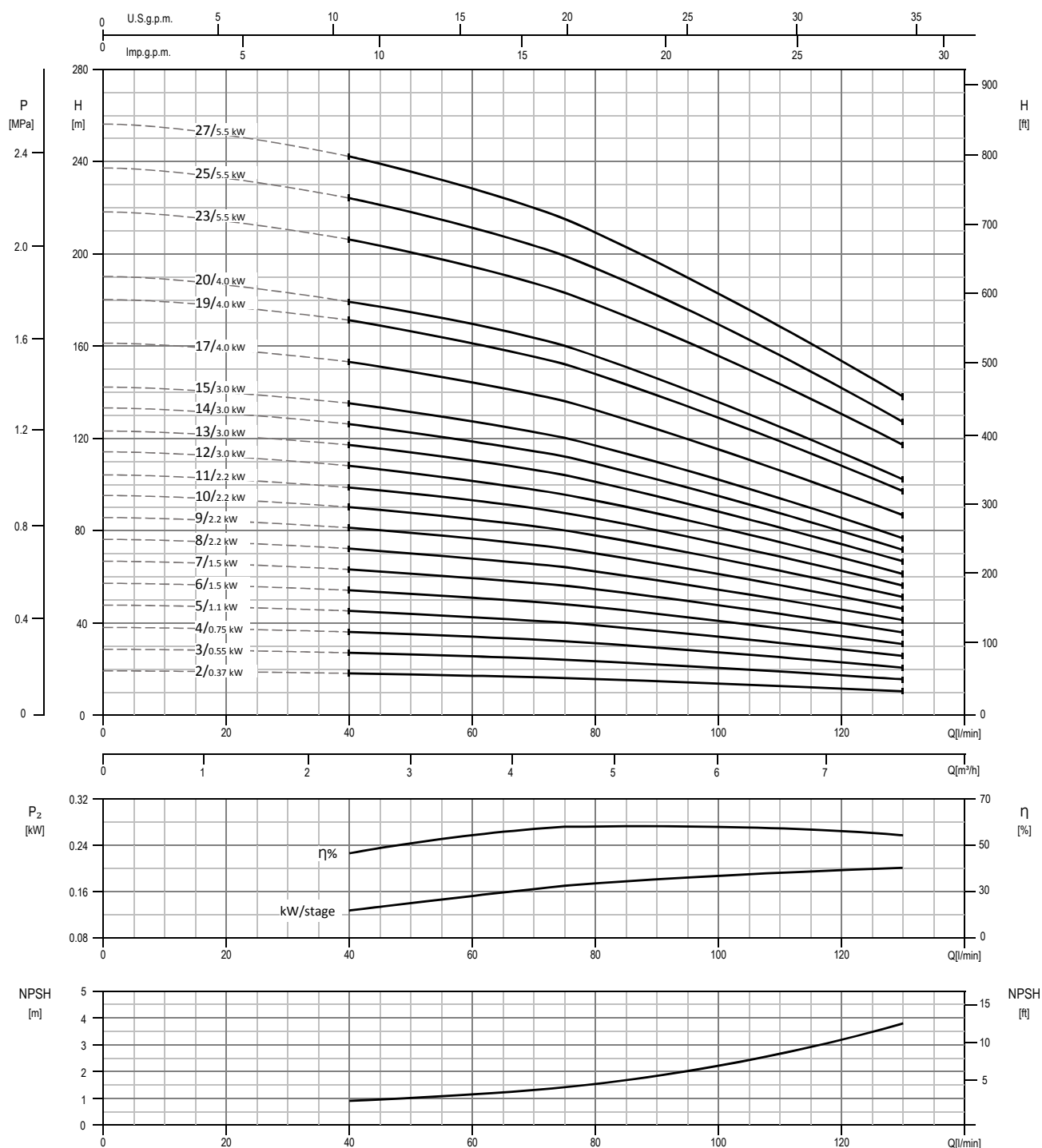
### QUANTITY FOR MODEL EVMSG3

| Pump Type     | N° |     |    |    |    |   |   |    |    |      |      |      |      |      |      |    |    |    |      |    |
|---------------|----|-----|----|----|----|---|---|----|----|------|------|------|------|------|------|----|----|----|------|----|
|               | 4  | 5-1 | 52 | 53 | 54 | 6 | 7 | 21 | 31 | 32-1 | 43-2 | 43-3 | 43-5 | 43-7 | 44-1 | 46 | 47 | 48 | 52-1 | 75 |
| EVMSG3 2/0.37 | 1  | 1   | /  | 1  | 1  | 1 | 1 | 2  | 1  | 1    | 1    | 1    | /    | /    | 1    | 2  | 1  | 1  | 1    | 4  |
| EVMSG3 3/0.37 | 1  | 1   | 1  | 1  | 1  | 1 | 1 | 3  | 1  | 1    | 3    | 1    | /    | /    | 1    | 2  | 1  | 1  | 1    | 4  |
| EVMSG3 4/0.37 | 1  | 1   | 2  | 1  | 1  | 1 | 1 | 4  | 1  | 1    | 5    | 1    | /    | /    | 1    | 2  | 1  | 1  | 1    | 4  |
| EVMSG3 5/0.55 | 1  | 1   | 3  | 1  | 1  | 1 | 1 | 5  | 1  | 1    | 7    | 1    | 1    | /    | 1    | 2  | 1  | 1  | 1    | 4  |
| EVMSG3 6/0.55 | 1  | 1   | 4  | 1  | 1  | 1 | 1 | 6  | 1  | 1    | 9    | 1    | /    | /    | 1    | 2  | 1  | 1  | 1    | 4  |
| EVMSG3 7/0.75 | 1  | 1   | 5  | 1  | 1  | 1 | 1 | 7  | 1  | 1    | 11   | 1    | /    | /    | 1    | 2  | 1  | 1  | 1    | 4  |
| EVMSG3 8/0.75 | 1  | 1   | 6  | 1  | 1  | 1 | 1 | 8  | 1  | 1    | 13   | 1    | /    | /    | 1    | 2  | 1  | 1  | 1    | 4  |
| EVMSG3 9/1.1  | 1  | 1   | 7  | 1  | 1  | 1 | 1 | 9  | 1  | 1    | 15   | 1    | /    | /    | 1    | 2  | 1  | 1  | 1    | 4  |
| EVMSG3 10/1.1 | 1  | 1   | 8  | 1  | 1  | 1 | 1 | 10 | 1  | 1    | 17   | 1    | /    | /    | 1    | 2  | 1  | 1  | 1    | 4  |
| EVMSG3 11/1.1 | 1  | 1   | 9  | 1  | 1  | 1 | 1 | 11 | 1  | 1    | 19   | 1    | /    | /    | 1    | 2  | 1  | 1  | 1    | 4  |
| EVMSG3 12/1.1 | 1  | 1   | 10 | 1  | 1  | 1 | 1 | 12 | 1  | 1    | 21   | 1    | /    | /    | 1    | 2  | 1  | 1  | 1    | 4  |
| EVMSG3 13/1.5 | 1  | 1   | 10 | 2  | 1  | 1 | 1 | 13 | 1  | 1    | 20   | 2    | 1    | 1    | 2    | 2  | 1  | 1  | 2    | 1  |
| EVMSG3 14/1.5 | 1  | 1   | 11 | 2  | 1  | 1 | 1 | 14 | 1  | 1    | 22   | 2    | /    | 1    | 2    | 2  | 1  | 1  | 2    | 1  |
| EVMSG3 15/1.5 | 1  | 1   | 12 | 2  | 1  | 1 | 1 | 15 | 1  | 1    | 24   | 2    | /    | 1    | 2    | 2  | 1  | 1  | 2    | 1  |
| EVMSG3 16/1.5 | 1  | 1   | 13 | 2  | 1  | 1 | 1 | 16 | 1  | 1    | 26   | 2    | /    | 1    | 2    | 2  | 1  | 1  | 2    | 1  |
| EVMSG3 17/2.2 | 1  | 1   | 14 | 2  | 1  | 1 | 1 | 17 | 1  | 1    | 28   | 2    | 1    | 1    | 2    | 2  | 1  | 1  | 2    | 1  |
| EVMSG3 19/2.2 | 1  | 1   | 16 | 2  | 1  | 1 | 1 | 19 | 1  | 1    | 32   | 2    | /    | 1    | 2    | 2  | 1  | 1  | 2    | 1  |
| EVMSG3 21/2.2 | 1  | 1   | 18 | 2  | 1  | 1 | 1 | 21 | 1  | 1    | 36   | 2    | 1    | 1    | 2    | 2  | 1  | 1  | 2    | 1  |
| EVMSG3 23/2.2 | 1  | 1   | 20 | 2  | 1  | 1 | 1 | 23 | 1  | 1    | 40   | 2    | /    | 1    | 2    | 2  | 1  | 1  | 2    | 1  |
| EVMSG3 24/2.2 | 1  | 1   | 21 | 2  | 1  | 1 | 1 | 24 | 1  | 1    | 42   | 2    | /    | 1    | 2    | 2  | 1  | 1  | 2    | 1  |
| EVMSG3 25/3.0 | 1  | 1   | 22 | 2  | 1  | 1 | 1 | 25 | 1  | 1    | 44   | 2    | /    | 1    | 2    | 2  | 1  | 1  | 2    | 1  |
| EVMSG3 27/3.0 | 1  | 1   | 24 | 2  | 1  | 1 | 1 | 27 | 1  | 1    | 48   | 2    | /    | 1    | 2    | 2  | 1  | 1  | 2    | 1  |
| EVMSG3 29/3.0 | 1  | 1   | 26 | 2  | 1  | 1 | 1 | 29 | 1  | 1    | 52   | 2    | /    | 1    | 2    | 2  | 1  | 1  | 2    | 1  |
| EVMSG3 31/3.0 | 1  | 1   | 28 | 2  | 1  | 1 | 1 | 31 | 1  | 1    | 56   | 2    | /    | 1    | 2    | 2  | 1  | 1  | 2    | 1  |
| EVMSG3 33/3.0 | 1  | 1   | 30 | 2  | 1  | 1 | 1 | 33 | 1  | 1    | 60   | 2    | /    | 1    | 2    | 2  | 1  | 1  | 2    | 1  |

| Pump Type     | N°   |       |       |       |         |        |       |       |       |       |       |       |       |       |     |     |     |       |       |      |     |       |  |  |
|---------------|------|-------|-------|-------|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|-------|-------|------|-----|-------|--|--|
|               | 117* | 120-1 | 120-3 | 120-6 | 120-11* | 120-13 | 128-1 | 128-6 | 130-1 | 130-2 | 131-1 | 135-1 | 135-6 | 137-1 | 140 | 162 | 212 | 212-1 | 212-2 | 219* | 245 | 273-1 |  |  |
| EVMSG3 2/0.37 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG3 3/0.37 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG3 4/0.37 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG3 5/0.55 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG3 6/0.55 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG3 7/0.75 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG3 8/0.75 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG3 9/1.1  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG3 10/1.1 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG3 11/1.1 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG3 12/1.1 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG3 13/1.5 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG3 14/1.5 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG3 15/1.5 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG3 16/1.5 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG3 17/2.2 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG3 19/2.2 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG3 21/2.2 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG3 23/2.2 | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |  |  |
| EVMSG3 24/2.2 | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |  |  |
| EVMSG3 25/3.0 | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |  |  |
| EVMSG3 27/3.0 | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |  |  |
| EVMSG3 29/3.0 | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |  |  |
| EVMSG3 31/3.0 | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |  |  |
| EVMSG3 33/3.0 | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |  |  |

\* only for Oval flange (N)

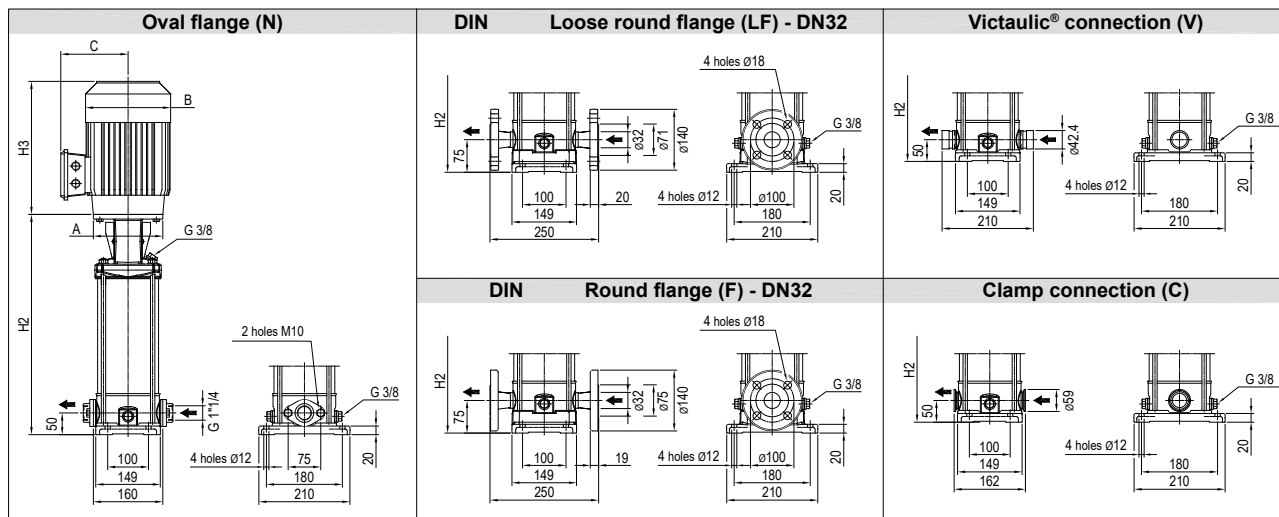
# PERFORMANCE CURVE EVMS(L)5



Test standard: ISO 9906:2012 - Grade 3B

### TECHNICAL DATA EVMS(L)5

#### Dimensional sketch

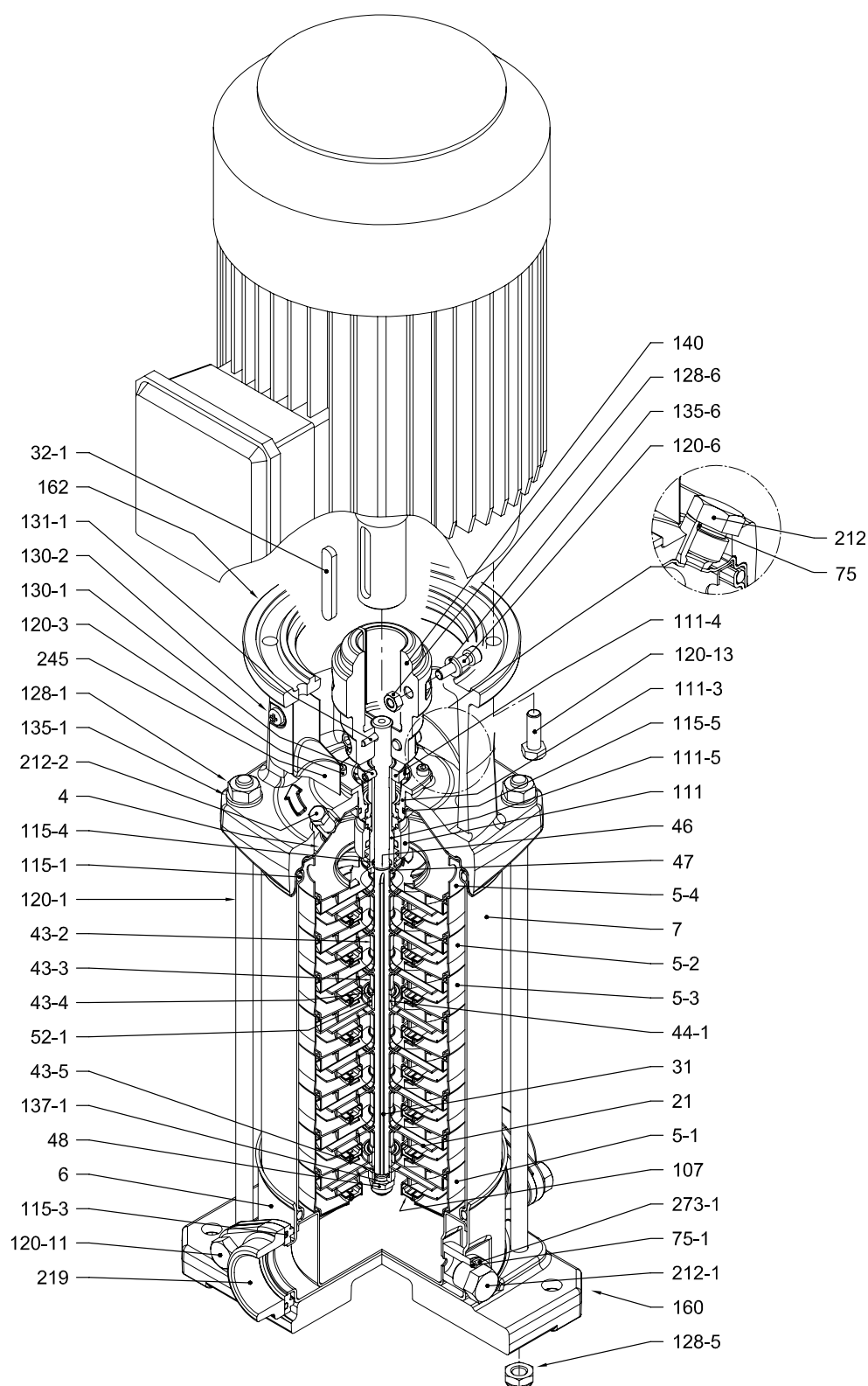


#### Dimensions [mm] and Weights [Kg]

| Pump Type       | Pmax<br>[MPa] | Motor |      |     |     |     |     | Oval flange (N) |     |     |       |      |                | Loose round flange (LF)<br>Round flange (F) |     |       |      | Victaulic® connection (V)<br>Clamp connection (C) |                           |      |       |      |                |                           |      |      |
|-----------------|---------------|-------|------|-----|-----|-----|-----|-----------------|-----|-----|-------|------|----------------|---------------------------------------------|-----|-------|------|---------------------------------------------------|---------------------------|------|-------|------|----------------|---------------------------|------|------|
|                 |               | kW    | Size | 1~  |     |     | 3~  |                 |     | H2  | H2+H3 |      | Weight<br>Pump | Weight<br>Pump +<br>Motor                   | H2  | H2+H3 |      | Weight<br>Pump                                    | Weight<br>Pump +<br>Motor | H2   | H2+H3 |      | Weight<br>Pump | Weight<br>Pump +<br>Motor |      |      |
|                 |               |       |      | A   | B   | C   | B   | C               | 1~  |     | 3~    | 1~   |                |                                             |     | 3~    | 1~   |                                                   |                           |      | 3~    | 1~   |                |                           | 3~   |      |
|                 |               |       |      | Ø   |     |     |     |                 | 1~  |     | 3~    | 1~   |                |                                             |     | 3~    | 1~   |                                                   |                           |      | 3~    | 1~   |                |                           | 3~   |      |
| EVMS(L)5 2/0.37 | 1.6           | 0.37  | 71   | 105 | 141 | 119 | 141 | 119             | 264 | 466 | 466   | 9.8  | 16.3           | 16.3                                        | 289 | 491   | 491  | 11                                                | 17.5                      | 17.5 | 264   | 466  | 466            | 9.9                       | 16.4 | 16.4 |
| EVMS(L)5 3/0.55 | 1.6           | 0.55  | 71   | 105 | 141 | 119 | 141 | 119             | 292 | 494 | 494   | 10.3 | 17.3           | 17.3                                        | 317 | 519   | 519  | 11.5                                              | 18.5                      | 18.5 | 292   | 494  | 494            | 10.4                      | 17.4 | 17.4 |
| EVMS(L)5 4/0.75 | 1.6           | 0.75  | 80   | 120 | 160 | 142 | 141 | 102             | 330 | 559 | 563   | 11.3 | 21.3           | 19.8                                        | 355 | 584   | 588  | 12.5                                              | 22.5                      | 21.0 | 330   | 559  | 563            | 11.4                      | 21.4 | 19.9 |
| EVMS(L)5 5/1.1  | 1.6           | 1.1   | 80   | 120 | 160 | 142 | 141 | 102             | 358 | 587 | 602   | 11.8 | 22.8           | 21.8                                        | 383 | 612   | 627  | 13                                                | 24.0                      | 23.0 | 358   | 587  | 602            | 11.9                      | 22.9 | 21.9 |
| EVMS(L)5 6/1.5  | 1.6           | 1.5   | 90   | 140 | 172 | 140 | 160 | 119             | 396 | 674 | 687   | 12.7 | 30.5           | 26.2                                        | 421 | 699   | 712  | 13.7                                              | 31.5                      | 27.2 | 396   | 674  | 687            | 12.6                      | 30.4 | 26.1 |
| EVMS(L)5 7/1.5  | 1.6           | 1.5   | 90   | 140 | 172 | 140 | 160 | 119             | 424 | 702 | 715   | 12.8 | 30.6           | 26.3                                        | 449 | 727   | 740  | 14.1                                              | 31.9                      | 27.6 | 424   | 702  | 715            | 13                        | 30.8 | 26.5 |
| EVMS(L)5 8/2.2  | 1.6           | 2.2   | 90   | 140 | 172 | 140 | 160 | 119             | 452 | 730 | 743   | 13.4 | 32.9           | 28.4                                        | 477 | 755   | 768  | 14.6                                              | 34.1                      | 29.6 | 452   | 730  | 743            | 13.5                      | 33.0 | 28.5 |
| EVMS(L)5 9/2.2  | 1.6           | 2.2   | 90   | 140 | 172 | 140 | 160 | 119             | 480 | 758 | 771   | 13.9 | 33.4           | 28.9                                        | 505 | 783   | 796  | 15.2                                              | 34.7                      | 30.2 | 480   | 758  | 771            | 14.1                      | 33.6 | 29.1 |
| EVMS(L)5 10/2.2 | 1.6           | 2.2   | 90   | 140 | 172 | 140 | 160 | 119             | 508 | 786 | 799   | 14.4 | 33.9           | 29.4                                        | 533 | 811   | 824  | 15.6                                              | 35.1                      | 30.6 | 508   | 786  | 799            | 14.5                      | 34.0 | 29.5 |
| EVMS(L)5 11/2.2 | 1.6           | 2.2   | 90   | 140 | 172 | 140 | 160 | 119             | 536 | 814 | 827   | 15.2 | 34.7           | 30.2                                        | 561 | 839   | 852  | 16.5                                              | 36.0                      | 31.5 | 536   | 814  | 827            | 15.4                      | 34.9 | 30.4 |
| EVMS(L)5 12/3.0 | 1.6           | 3.0   | 100  | 160 | -   | -   | 176 | 123             | 574 | -   | 916   | 16.7 | -              | 38.7                                        | 599 | -     | 941  | 17.7                                              | -                         | 39.7 | 574   | -    | 916            | 16.6                      | -    | 38.6 |
| EVMS(L)5 13/3.0 | 1.6           | 3.0   | 100  | 160 | -   | -   | 176 | 123             | 602 | -   | 944   | 17   | -              | 39.0                                        | 627 | -     | 969  | 18.3                                              | -                         | 40.3 | 602   | -    | 944            | 17.2                      | -    | 39.2 |
| EVMS(L)5 14/3.0 | 1.6           | 3.0   | 100  | 160 | -   | -   | 176 | 123             | 630 | -   | 972   | 17.6 | -              | 39.6                                        | 655 | -     | 997  | 18.8                                              | -                         | 40.8 | 630   | -    | 972            | 17.7                      | -    | 39.7 |
| EVMS(L)5 15/3.0 | 1.6           | 3.0   | 100  | 160 | -   | -   | 176 | 123             | 658 | -   | 1000  | 18.6 | -              | 40.6                                        | 683 | -     | 1025 | 19.9                                              | -                         | 41.9 | 658   | -    | 1000           | 18.8                      | -    | 40.8 |
| EVMS(L)5 17/4.0 | 1.6           | 4.0   | 112  | 160 | -   | -   | 193 | 138             | 714 | -   | 1078  | 19.3 | -              | 47.8                                        | 739 | -     | 1103 | 20.6                                              | -                         | 49.1 | 714   | -    | 1078           | 19.5                      | -    | 48.0 |
| EVMS(L)5 19/4.0 | 2.5           | 4.0   | 112  | 160 | -   | -   | 193 | 138             | -   | -   | -     | -    | -              | 795                                         | -   | 1159  | 21.7 | -                                                 | 50.2                      | 770  | -     | 1134 | 20.6           | -                         | 49.1 |      |
| EVMS(L)5 20/4.0 | 2.5           | 4.0   | 112  | 160 | -   | -   | 193 | 138             | -   | -   | -     | -    | -              | 823                                         | -   | 1187  | 23.9 | -                                                 | 52.4                      | 798  | -     | 1162 | 22.8           | -                         | 51.3 |      |
| EVMS(L)5 23/5.5 | 2.5           | 5.5   | 132  | 300 | -   | -   | 220 | 152             | -   | -   | -     | -    | -              | 1001                                        | -   | 1400  | 30.6 | -                                                 | 69.6                      | 976  | -     | 1375 | 29.5           | -                         | 68.5 |      |
| EVMS(L)5 25/5.5 | 2.5           | 5.5   | 132  | 300 | -   | -   | 220 | 152             | -   | -   | -     | -    | -              | 1057                                        | -   | 1456  | 31.6 | -                                                 | 70.6                      | 1032 | -     | 1431 | 30.5           | -                         | 69.5 |      |
| EVMS(L)5 27/5.5 | 2.5           | 5.5   | 132  | 300 | -   | -   | 220 | 152             | -   | -   | -     | -    | -              | 1113                                        | -   | 1512  | 33.1 | -                                                 | 72.1                      | 1088 | -     | 1487 | 32             | -                         | 71.0 |      |

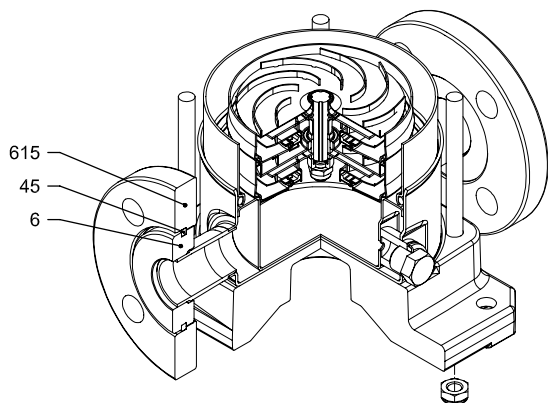
1.6 MPa=16 bar; 2.5 MPa=25 bar  
- not available model



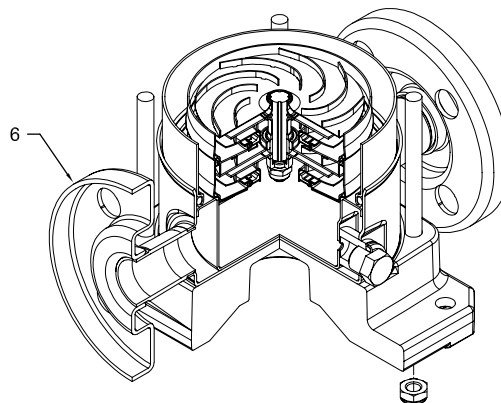
SECTIONAL VIEW  
EVMS(L)5

with Oval flange (N)

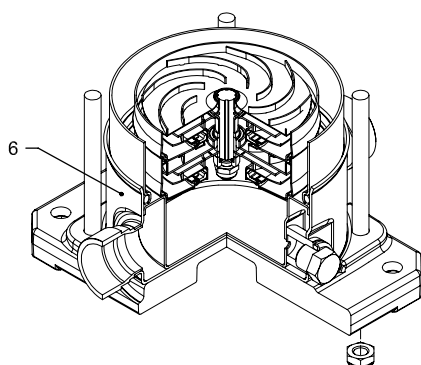
### PIPE CONNECTION EVMS(L)5



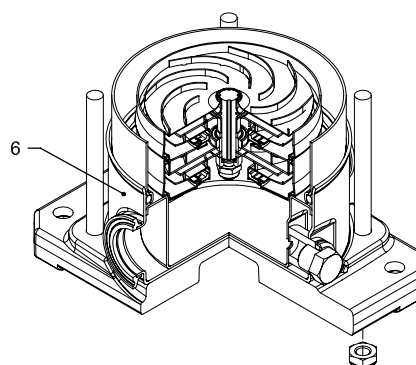
with Loose round flange (LF)



with Round flange (F)



with Victaulic® connection (V)



with Clamp connection (C)

SECTIONAL TABLE  
EVMS(L)5

| N°     | PART NAME                        | MATERIAL                                        |                                                      | DIMENSIONS            | STANDARD             |
|--------|----------------------------------|-------------------------------------------------|------------------------------------------------------|-----------------------|----------------------|
|        |                                  | EVMS                                            | EVMSL                                                |                       |                      |
| 4      | Casing cover                     | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                                |                       |                      |
| 5-1    | Suction casing                   | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                                |                       |                      |
| 5-2    | Intermediate casing              | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                                |                       |                      |
| 5-3    | Intermediate casing with bearing | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                                |                       |                      |
| 5-4    | Discharge casing                 | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                                |                       |                      |
| 6      | Bottom casing                    | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                                |                       |                      |
| 7      | Outer casing                     | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                                |                       |                      |
| 21     | Impeller                         | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                                |                       |                      |
| 31     | Shaft                            | EN 1.4301 (AISI 304) -<br>EN 1.4462 (AISI 329A) | EN 1.4404 (AISI 316L) -<br>EN 1.4462 (AISI 329A)     |                       |                      |
| 32-1   | Adjuster Key                     | EN 1.4301 (AISI 304)                            |                                                      |                       |                      |
| 43-2   | Shaft sleeve (intermediate)      | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                                |                       |                      |
| 43-3   | Shaft sleeve (bearing)           | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                                |                       |                      |
| 43-4   | Shaft sleeve (adjustment)        | EN 1.4404 (AISI 316L)                           |                                                      |                       |                      |
| 43-5   | Shaft sleeve (last stage)        | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                                |                       |                      |
| 44-1   | Shaft sleeve bearing             | Tungsten carbide                                |                                                      |                       |                      |
| 45     | Flange holder                    | EN 1.4301 (AISI 304)                            |                                                      |                       |                      |
| 46     | Ring (mechanical seal)           | EN 1.4404 (AISI 316L)                           |                                                      |                       |                      |
| 47     | Ring holder                      | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                                |                       |                      |
| 48     | Impeller nut                     | EN 1.4301 (AISI 304)<br>with inox insert        | EN 1.4401 (AISI 316)<br>with inox insert             | M8                    |                      |
| 52-1   | Sleeve bearing                   | Tungsten carbide                                |                                                      |                       |                      |
| 75     | O-Ring (priming plug)            | EPDM / FPM                                      |                                                      | Ø12.37x2.62           | OR 3050              |
| 75-1   | O-Ring (drainage plug)           | EPDM / FPM                                      |                                                      |                       |                      |
| 107    | Liner ring                       | EN 1.4301 (AISI 304) + PPS                      | EN 1.4404 (AISI 316L) + PPS                          |                       |                      |
| 111    | Mechanical seal                  | see pages 6-7                                   |                                                      |                       |                      |
| 111-3  | Mechanical seal seat             | EN 1.4308 (ASTM CF8)                            | EN 1.4408 (ASTM CF8M)                                |                       |                      |
| 111-4  | Seal holder                      | EN 1.4301 (AISI 304)                            |                                                      |                       |                      |
| 111-5  | Mechanical seal cartridge sleeve | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                                |                       |                      |
| 115-1  | O-Ring (outer casing)            | EPDM / FPM                                      |                                                      | Ø129.54x5.34          | OR 6945              |
| 115-3  | O-Ring                           | EPDM / FPM                                      |                                                      |                       |                      |
| 115-4  | O-Ring (cartridge sleeve)        | EPDM / FPM                                      |                                                      | Ø11.91x2.62           | OR 4093              |
| 115-5  | O-Ring (seal flange)             | EPDM / FPM                                      |                                                      | Ø32.99x2.62           | OR 4175              |
| 120-1  | Tie-rod                          | EN 1.4057 (AISI 431)                            |                                                      | M10                   |                      |
| 120-3  | Screw (seal flange)              | A2-70                                           |                                                      | M4x10                 | ISO 4762             |
| 120-6  | Screw (pump coupling)            | up to 4.0 kW<br>above 5.5 kW                    | Galvanized steel                                     | M6x25<br>M8x20        | ISO 4762<br>ISO 4762 |
| 120-11 | Screw (counterflange)            | A2-70                                           |                                                      |                       |                      |
| 120-13 | Screw for motor                  | MEC 71-80                                       | Galvanized steel 8.8 strength class ISO 898/1        | M6x20                 | ISO 4017             |
|        |                                  | MEC 90-100-112                                  |                                                      | M8x20                 | ISO 4017             |
|        |                                  | MEC 132                                         |                                                      | M12x40                | ISO 4017             |
| 128-1  | Nut (tie rod)                    | A2-70                                           |                                                      | M10                   | ISO 4032             |
| 128-3  | Nut (motor)                      | MEC 132                                         | Galvanized steel                                     | M12                   | ISO 4032             |
| 128-5  | Nut (tie rod)                    | A2-70                                           |                                                      | M10                   | UNI 7474             |
| 128-6  | Nut (aluminium coupling)         | MEC 71-80-90-100-112                            | Galvanized steel                                     | M6                    | ISO 4032             |
| 130-1  | Set screw                        | EN 1.4301 (AISI 304)                            |                                                      | M5x8                  | ISO 4026             |
| 130-2  | Screw for coupling guard         | A2-70                                           |                                                      | M5x6                  | UNI 7687             |
| 131-1  | Pin for shaft                    | Carbon Steel                                    |                                                      | Ø4x32                 | ISO 2338             |
| 135-1  | Washer (tie rod)                 | EN 1.4301 (AISI 304)                            |                                                      | Ø10.5x21x2            | ISO 7089             |
| 135-6  | Washer (aluminium coupling)      | up to 4.0 kW                                    | Carbon Steel                                         | Ø6                    |                      |
| 137-1  | Impeller spacer                  | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                                |                       |                      |
| 140    | Coupling                         | up to 4.0 kW<br>above 5.5 kW                    | Die cast Aluminium EN AB-AISI11Cu2 (Fe)<br>Cast Iron |                       |                      |
| 160    | Base                             | Die cast Aluminium EN AB-AISI11Cu2 (Fe)         |                                                      |                       |                      |
| 162    | Motor bracket                    | Cast iron EN-GJL-250                            |                                                      |                       |                      |
| 212    | Priming plug                     | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                                | G 3/8                 |                      |
| 212-1  | Drainage plug                    | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                                | G 3/8                 |                      |
| 212-2  | Venting plug                     | EN 1.4404 (AISI 316L)                           |                                                      |                       |                      |
| 219    | Counter flange                   | flange type: N                                  | EN 1.4308 (ASTM CF8)                                 | EN 1.4408 (ASTM CF8M) |                      |
|        |                                  | flange type: LF-F-V-C                           | EN 1.4301 (AISI 304)                                 | EN 1.4404 (AISI 316L) |                      |
| 245    | Coupling guard                   | EN 1.4301 (AISI 304)                            |                                                      |                       |                      |
| 273-1  | Washer (drainage plug)           | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                                |                       |                      |
| 615    | Flange                           | Nodular Cast Iron                               |                                                      |                       |                      |

# QUANTITY FOR MODEL EVMS(L)5

| Pump Type       | N° |     |    |    |    |   |   |    |       |      |     |     |     |     |      |      |    |    |    |      |    |      |     |     |       |       |       |       |       |      |      |   |
|-----------------|----|-----|----|----|----|---|---|----|-------|------|-----|-----|-----|-----|------|------|----|----|----|------|----|------|-----|-----|-------|-------|-------|-------|-------|------|------|---|
|                 | 4  | 5-1 | 52 | 53 | 54 | 6 | 7 | 21 | 31*** | 32-1 | 432 | 433 | 434 | 435 | 44-1 | 45** | 46 | 47 | 48 | 52-1 | 75 | 75-1 | 107 | 111 | 111-3 | 111-4 | 111-5 | 115-1 | 1153* | 1154 | 1155 |   |
| EVMS(L)5 2/0.37 | 1  | 1   | /  | 1  | 1  | 1 | 1 | 2  | 1     | 1    | 1   | 1   | 1   | /   | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 2   | 1   | 1     | 1     | 1     | 1     | 2     | 2    | 1    | 1 |
| EVMS(L)5 3/0.55 | 1  | 1   | 1  | 1  | 1  | 1 | 1 | 3  | 1     | 1    | 3   | 1   | 2   | 1   | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 3   | 1   | 1     | 1     | 1     | 2     | 2     | 1    | 1    |   |
| EVMS(L)5 4/0.75 | 1  | 1   | 2  | 1  | 1  | 1 | 1 | 4  | 1     | 1    | 5   | 1   | 1   | /   | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 4   | 1   | 1     | 1     | 1     | 2     | 2     | 1    | 1    |   |
| EVMS(L)5 5/1.1  | 1  | 1   | 3  | 1  | 1  | 1 | 1 | 5  | 1     | 1    | 7   | 1   | 1   | /   | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 5   | 1   | 1     | 1     | 1     | 2     | 2     | 1    | 1    |   |
| EVMS(L)5 6/1.5  | 1  | 1   | 4  | 1  | 1  | 1 | 1 | 6  | 1     | 1    | 9   | 1   | 2   | 1   | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 6   | 1   | 1     | 1     | 1     | 2     | 2     | 1    | 1    |   |
| EVMS(L)5 7/1.5  | 1  | 1   | 5  | 1  | 1  | 1 | 1 | 7  | 1     | 1    | 11  | 1   | 1   | /   | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 7   | 1   | 1     | 1     | 1     | 2     | 2     | 1    | 1    |   |
| EVMS(L)5 8/2.2  | 1  | 1   | 6  | 1  | 1  | 1 | 1 | 8  | 1     | 1    | 13  | 1   | 1   | /   | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 8   | 1   | 1     | 1     | 1     | 2     | 2     | 1    | 1    |   |
| EVMS(L)5 9/2.2  | 1  | 1   | 7  | 1  | 1  | 1 | 1 | 9  | 1     | 1    | 15  | 1   | 1   | 1   | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 9   | 1   | 1     | 1     | 1     | 2     | 2     | 1    | 1    |   |
| EVMS(L)5 10/2.2 | 1  | 1   | 8  | 1  | 1  | 1 | 1 | 10 | 1     | 1    | 17  | 1   | 1   | /   | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 10  | 1   | 1     | 1     | 1     | 2     | 2     | 1    | 1    |   |
| EVMS(L)5 11/2.2 | 1  | 1   | 8  | 2  | 1  | 1 | 1 | 11 | 1     | 1    | 17  | 2   | 2   | /   | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 11  | 1   | 1     | 1     | 1     | 2     | 2     | 1    | 1    |   |
| EVMS(L)5 12/3.0 | 1  | 1   | 9  | 2  | 1  | 1 | 1 | 12 | 1     | 1    | 19  | 2   | 2   | 1   | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 12  | 1   | 1     | 1     | 1     | 2     | 2     | 1    | 1    |   |
| EVMS(L)5 13/3.0 | 1  | 1   | 10 | 2  | 1  | 1 | 1 | 13 | 1     | 1    | 21  | 2   | 2   | /   | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 13  | 1   | 1     | 1     | 1     | 2     | 2     | 1    | 1    |   |
| EVMS(L)5 14/3.0 | 1  | 1   | 11 | 2  | 1  | 1 | 1 | 14 | 1     | 1    | 23  | 2   | 2   | /   | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 14  | 1   | 1     | 1     | 1     | 2     | 2     | 1    | 1    |   |
| EVMS(L)5 15/3.0 | 1  | 1   | 12 | 2  | 1  | 1 | 1 | 15 | 1     | 1    | 25  | 2   | 3   | 1   | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 15  | 1   | 1     | 1     | 1     | 2     | 2     | 1    | 1    |   |
| EVMS(L)5 17/4.0 | 1  | 1   | 14 | 2  | 1  | 1 | 1 | 17 | 1     | 1    | 29  | 2   | 2   | /   | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 17  | 1   | 1     | 1     | 1     | 2     | 2     | 1    | 1    |   |
| EVMS(L)5 19/4.0 | 1  | 1   | 16 | 2  | 1  | 1 | 1 | 19 | 1     | 1    | 33  | 2   | 2   | /   | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 19  | 1   | 1     | 1     | 1     | 2     | /     | 1    | 1    |   |
| EVMS(L)5 20/4.0 | 1  | 1   | 17 | 2  | 1  | 1 | 1 | 20 | 1     | 1    | 35  | 2   | 2   | /   | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 20  | 1   | 1     | 1     | 1     | 2     | /     | 1    | 1    |   |
| EVMS(L)5 23/5.5 | 1  | 1   | 20 | 2  | 1  | 1 | 1 | 23 | 1     | 1    | 41  | 2   | 2   | /   | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 23  | 1   | 1     | 1     | 1     | 2     | /     | 1    | 1    |   |
| EVMS(L)5 25/5.5 | 1  | 1   | 22 | 2  | 1  | 1 | 1 | 25 | 1     | 1    | 45  | 2   | 2   | /   | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 25  | 1   | 1     | 1     | 1     | 2     | /     | 1    | 1    |   |
| EVMS(L)5 27/5.5 | 1  | 1   | 23 | 3  | 1  | 1 | 1 | 27 | 1     | 1    | 47  | 3   | 3   | /   | 3    | 4    | 2  | 1  | 1  | 3    | 1  | 2    | 27  | 1   | 1     | 1     | 1     | 2     | /     | 1    | 1    |   |

| Pump Type       | N°    |       |       |         |        |       |       |       |       |       |       |       |       |       |       |     |     |     |     |       |       |      |     |       |       |   |  |  |
|-----------------|-------|-------|-------|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|-----|-------|-------|------|-----|-------|-------|---|--|--|
|                 | 120-1 | 120-3 | 120-6 | 120-11* | 120-13 | 128-1 | 128-3 | 128-5 | 128-6 | 130-1 | 130-2 | 131-1 | 135-1 | 135-6 | 137-1 | 140 | 160 | 162 | 212 | 212-1 | 212-2 | 219* | 245 | 273-1 | 615** |   |  |  |
| EVMS(L)5 2/0.37 | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     | 2 |  |  |
| EVMS(L)5 3/0.55 | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     | 2 |  |  |
| EVMS(L)5 4/0.75 | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     | 2 |  |  |
| EVMS(L)5 5/1.1  | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     | 2 |  |  |
| EVMS(L)5 6/1.5  | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     | 2 |  |  |
| EVMS(L)5 7/1.5  | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     | 2 |  |  |
| EVMS(L)5 8/2.2  | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     | 2 |  |  |
| EVMS(L)5 9/2.2  | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     | 2 |  |  |
| EVMS(L)5 10/2.2 | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     | 2 |  |  |
| EVMS(L)5 11/2.2 | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     | 2 |  |  |
| EVMS(L)5 12/3.0 | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     | 2 |  |  |
| EVMS(L)5 13/3.0 | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     | 2 |  |  |
| EVMS(L)5 14/3.0 | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     | 2 |  |  |
| EVMS(L)5 15/3.0 | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     | 2 |  |  |
| EVMS(L)5 17/4.0 | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     | 2 |  |  |
| EVMS(L)5 19/4.0 | 4     | 4     | 4     | /       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     | 2 |  |  |
| EVMS(L)5 20/4.0 | 4     | 4     | 4     | /       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     | 2 |  |  |
| EVMS(L)5 23/5.5 | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     | 2 |  |  |
| EVMS(L)5 25/5.5 | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     | 2 |  |  |
| EVMS(L)5 27/5.5 | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     | 2 |  |  |

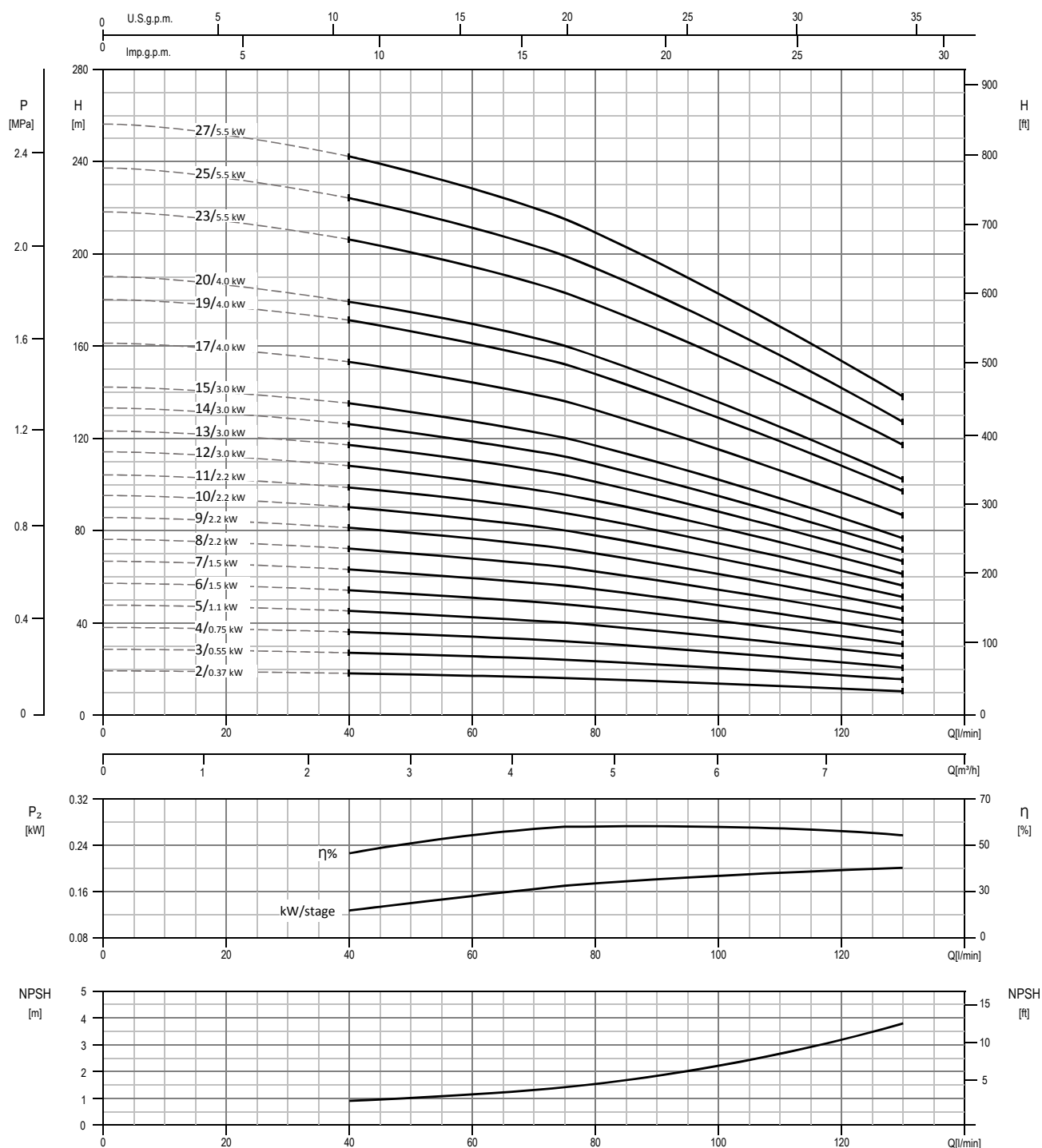
\* only for Oval flange (N)

\*\* only for Loose round flange (LF)

\*\*  shaft in EN 1.4462 (AISI 329A)

128-3: only for motor above 5.5 kW (see drawing pag.54)

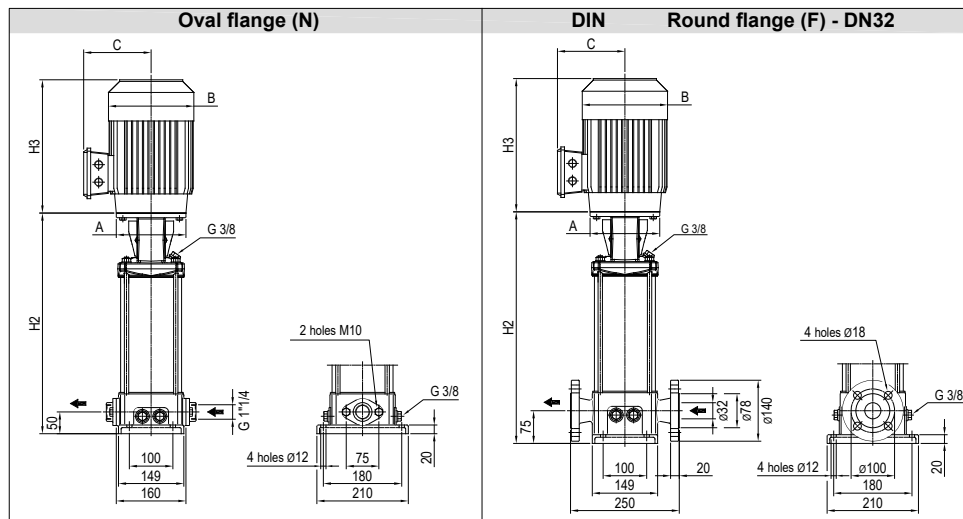
PERFORMANCE CURVE  
EVMSG5



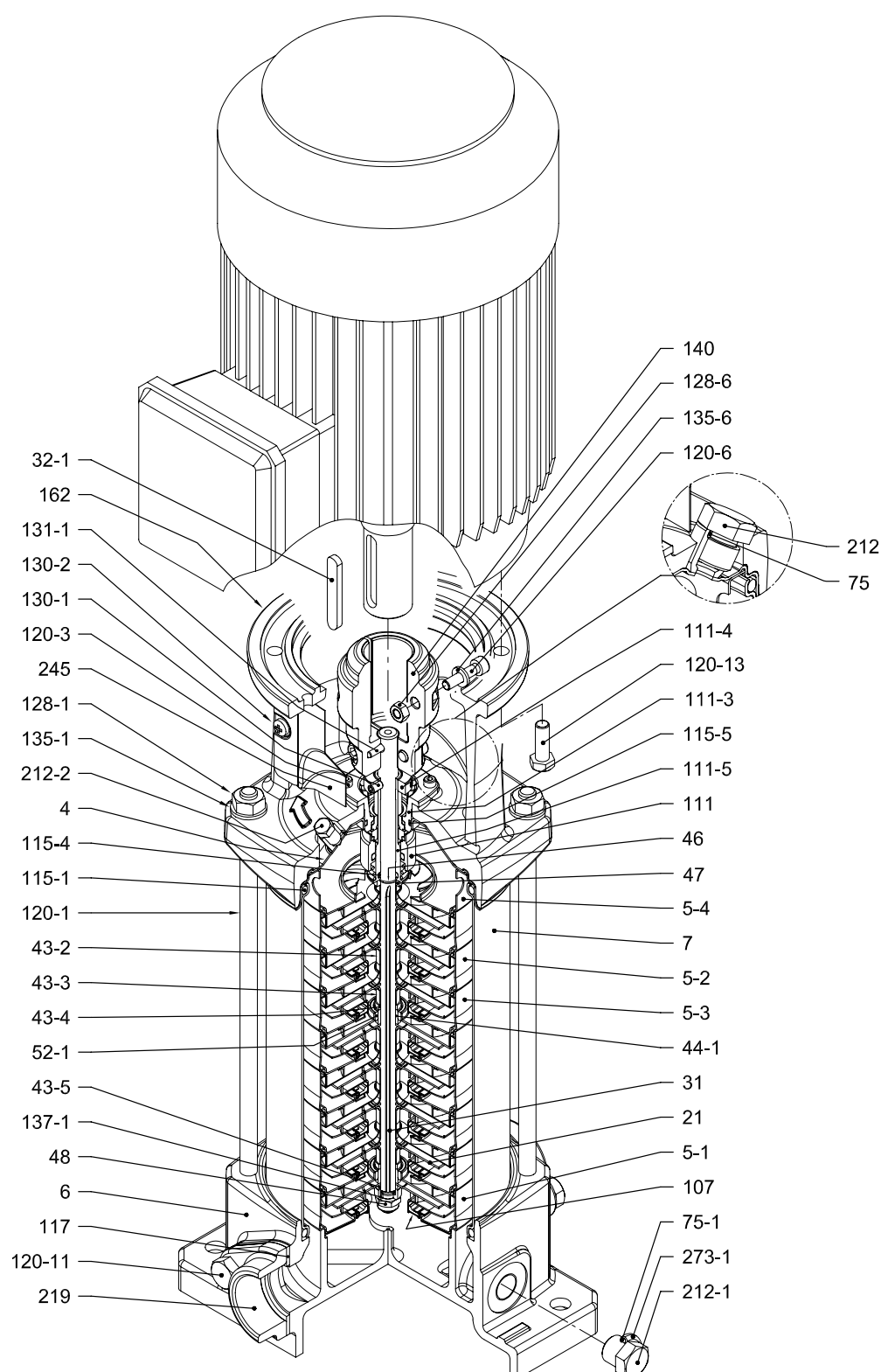
Test standard: ISO 9906:2012 - Grade 3B

### TECHNICAL DATA EVMSG5

#### Dimensional sketch

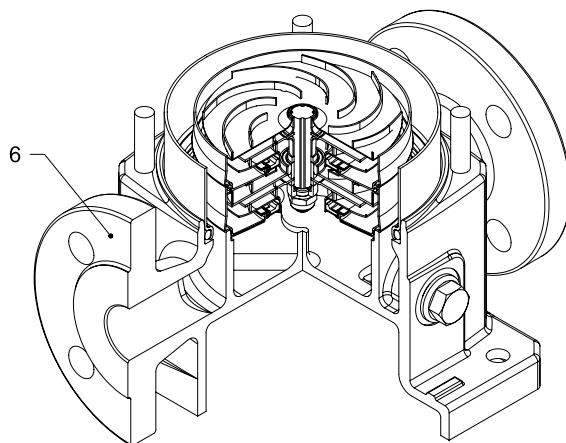




SECTIONAL VIEW  
EVMSG5

with Oval flange (N)

### PIPE CONNECTION EVMSG5



with Round flange (F)

SECTIONAL TABLE  
EVMSG5

| N°     | PART NAME                        | MATERIAL<br>EVMSG                             | DIMENSIONS   | STANDARD |
|--------|----------------------------------|-----------------------------------------------|--------------|----------|
| 4      | Casing cover                     | EN 1.4301 (AISI 304)                          |              |          |
| 5-1    | Suction casing                   | EN 1.4301 (AISI 304)                          |              |          |
| 5-2    | Intermediate casing              | EN 1.4301 (AISI 304)                          |              |          |
| 5-3    | Intermediate casing with bearing | EN 1.4301 (AISI 304)                          |              |          |
| 5-4    | Discharge casing                 | EN 1.4301 (AISI 304)                          |              |          |
| 6      | Bottom casing                    | Cast Iron EN-GJL-250                          |              |          |
| 7      | Outer casing                     | EN 1.4301 (AISI 304)                          |              |          |
| 21     | Impeller                         | EN 1.4301 (AISI 304)                          |              |          |
| 31     | Shaft                            | EN 1.4301 (AISI 304) - EN 1.4462 (AISI 329A)  |              |          |
| 32-1   | Adjuster key                     | EN 1.4301 (AISI 304)                          |              |          |
| 43-2   | Shaft sleeve (intermediate)      | EN 1.4301 (AISI 304)                          |              |          |
| 43-3   | Shaft sleeve (bearing)           | EN 1.4301 (AISI 304)                          |              |          |
| 43-4   | Shaft sleeve (adjustment)        | EN 1.4404 (AISI 316L)                         |              |          |
| 43-5   | Shaft sleeve (last stage)        | EN 1.4301 (AISI 304)                          |              |          |
| 44-1   | Shaft sleeve bearing             | Tungsten carbide                              |              |          |
| 46     | Ring (mechanical seal)           | EN 1.4404 (AISI 316L)                         |              |          |
| 47     | Ring holder                      | EN 1.4404 (AISI 316L)                         |              |          |
| 48     | Impeller nut                     | EN 1.4301 (AISI 304) with inox insert         | M8           |          |
| 52-1   | Sleeve bearing                   | Tungsten carbide                              |              |          |
| 75     | O-Ring (priming plug)            | EPDM / FPM                                    | Ø12.37x2.62  | OR 3050  |
| 75-1   | O-Ring (drainage plug)           | EPDM / FPM                                    |              |          |
| 107    | Liner ring                       | EN 1.4301 (AISI 304) + PPS                    |              |          |
| 111    | Mechanical seal                  | see pages 6-7                                 |              |          |
| 111-3  | Mechanical seal seat             | EN 1.4308 (ASTM CF8)                          |              |          |
| 111-4  | Seal holder                      | EN 1.4301 (AISI 304)                          |              |          |
| 111-5  | Mechanical seal cartridge sleeve | EN 1.4301 (AISI 304)                          |              |          |
| 115-1  | O-Ring (outer casing)            | EPDM / FPM                                    | Ø129.54x5.34 | OR 6945  |
| 115-4  | O-Ring (cartridge sleeve)        | EPDM / FPM                                    | Ø11.91x2.62  | OR 4093  |
| 115-5  | O-Ring (seal flange)             | EPDM / FPM                                    | Ø32.99x2.62  | OR 4175  |
| 117    | Flange gasket                    | EPDM / FPM                                    |              |          |
| 120-1  | Tie-rod                          | EN 1.4057 (AISI 431)                          | M10          |          |
| 120-3  | Screw (seal flange)              | A2-70                                         | M4x10        | ISO 4762 |
| 120-6  | Screw (pump coupling)            | Galvanized steel                              | M6x25        | ISO 4762 |
|        | up to 4.0 kW<br>above 5.5 kW     |                                               | M8x20        | ISO 4762 |
| 120-11 | Screw (counterflange)            | A2-70                                         |              |          |
| 120-13 | Screw for motor                  | Galvanized steel 8.8 strength class ISO 898/1 | M6x20        | ISO 4017 |
|        | MEC 71-80<br>MEC 90-100-112      |                                               | M8x20        | ISO 4017 |
|        | MEC 132                          |                                               | M12x40       | ISO 4017 |
| 128-1  | Nut (tie rod)                    | A2-70                                         | M10          | ISO 4032 |
| 128-3  | Nut (motor)                      | Galvanized steel                              | M12          | ISO 4032 |
| 128-6  | Nut (aluminium coupling)         | Galvanized steel                              | M6           | ISO 4032 |
| 130-1  | Set screw                        | EN 1.4301 (AISI 304)                          | M5x8         | ISO 4026 |
| 130-2  | Screw for coupling guard         | A2-70                                         | M5x6         | UNI 7687 |
| 131-1  | Pin for shaft                    | Carbon Steel                                  | Ø4x32        | ISO 2338 |
| 135-1  | Washer (tie rod)                 | EN 1.4301 (AISI 304)                          | Ø10.5x21x2   | ISO 7089 |
| 135-6  | Washer (aluminium coupling)      | Carbon Steel                                  | Ø6           |          |
| 137-1  | Impeller spacer                  | EN 1.4301 (AISI 304)                          |              |          |
| 140    | Coupling                         | Die cast Aluminium EN AB-AISI11Cu2 (Fe)       |              |          |
|        | up to 4.0 kW<br>above 5.5 kW     | Cast Iron                                     |              |          |
| 162    | Motor bracket                    | Cast iron EN-GJL-250                          |              |          |
| 212    | Priming plug                     | EN 1.4301 (AISI 304)                          | G 3/8        |          |
| 212-1  | Drainage plug                    | EN 1.4301 (AISI 304)                          | G 3/8        |          |
| 212-2  | Venting plug                     | EN 1.4404 (AISI 316L)                         |              |          |
| 219    | Counter flange                   | Galvanized steel                              |              |          |
|        | flange type: N<br>flange type: F | Cast Iron EN-GJL-250                          |              |          |
| 245    | Coupling guard                   | EN 1.4301 (AISI 304)                          |              |          |
| 273-1  | Washer (drainage plug)           | EN 1.4301 (AISI 304)                          |              |          |

### QUANTITY FOR MODEL EVMSG5

| Pump Type     | N° |     |    |    |    |   |   |    |       |      |     |     |     |     |      |    |    |    |      |    |      |     |     |       |       |       |       |       |       |
|---------------|----|-----|----|----|----|---|---|----|-------|------|-----|-----|-----|-----|------|----|----|----|------|----|------|-----|-----|-------|-------|-------|-------|-------|-------|
|               | 4  | 5-1 | 52 | 53 | 54 | 6 | 7 | 21 | 31*** | 32-1 | 432 | 433 | 434 | 435 | 44-1 | 46 | 47 | 48 | 52-1 | 75 | 75-1 | 107 | 111 | 111-3 | 111-4 | 111-5 | 115-1 | 115-4 | 115-5 |
| EVMSG5 2/0.37 | 1  | 1   | /  | 1  | 1  | 1 | 1 | 2  | 1     | 1    | 1   | 1   | 1   | /   | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 2   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG5 3/0.55 | 1  | 1   | 1  | 1  | 1  | 1 | 1 | 3  | 1     | 1    | 3   | 1   | 2   | 1   | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 3   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG5 4/0.75 | 1  | 1   | 2  | 1  | 1  | 1 | 1 | 4  | 1     | 1    | 5   | 1   | 1   | /   | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 4   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG5 5/1.1  | 1  | 1   | 3  | 1  | 1  | 1 | 1 | 5  | 1     | 1    | 7   | 1   | 1   | /   | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 5   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG5 6/1.5  | 1  | 1   | 4  | 1  | 1  | 1 | 1 | 6  | 1     | 1    | 9   | 1   | 2   | 1   | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 6   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG5 7/1.5  | 1  | 1   | 5  | 1  | 1  | 1 | 1 | 7  | 1     | 1    | 11  | 1   | 1   | /   | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 7   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG5 8/2.2  | 1  | 1   | 6  | 1  | 1  | 1 | 1 | 8  | 1     | 1    | 13  | 1   | 1   | /   | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 8   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG5 9/2.2  | 1  | 1   | 7  | 1  | 1  | 1 | 1 | 9  | 1     | 1    | 15  | 1   | 1   | 1   | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 9   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG5 10/2.2 | 1  | 1   | 8  | 1  | 1  | 1 | 1 | 10 | 1     | 1    | 17  | 1   | 1   | /   | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 10  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG5 11/2.2 | 1  | 1   | 8  | 2  | 1  | 1 | 1 | 11 | 1     | 1    | 17  | 2   | 2   | /   | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 11  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG5 12/3.0 | 1  | 1   | 9  | 2  | 1  | 1 | 1 | 12 | 1     | 1    | 19  | 2   | 2   | /   | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 12  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG5 13/3.0 | 1  | 1   | 10 | 2  | 1  | 1 | 1 | 13 | 1     | 1    | 21  | 2   | 2   | /   | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 13  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG5 14/3.0 | 1  | 1   | 11 | 2  | 1  | 1 | 1 | 14 | 1     | 1    | 23  | 2   | 2   | /   | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 14  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG5 15/3.0 | 1  | 1   | 12 | 2  | 1  | 1 | 1 | 15 | 1     | 1    | 25  | 2   | 3   | 1   | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 15  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG5 17/4.0 | 1  | 1   | 14 | 2  | 1  | 1 | 1 | 17 | 1     | 1    | 29  | 2   | 2   | /   | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 17  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG5 19/4.0 | 1  | 1   | 16 | 2  | 1  | 1 | 1 | 19 | 1     | 1    | 33  | 2   | 2   | /   | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 19  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG5 20/4.0 | 1  | 1   | 17 | 2  | 1  | 1 | 1 | 20 | 1     | 1    | 35  | 2   | 2   | /   | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 20  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG5 23/5.5 | 1  | 1   | 20 | 2  | 1  | 1 | 1 | 23 | 1     | 1    | 41  | 2   | 2   | /   | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 23  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG5 25/5.5 | 1  | 1   | 22 | 2  | 1  | 1 | 1 | 25 | 1     | 1    | 45  | 2   | 2   | /   | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 25  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |
| EVMSG5 27/5.5 | 1  | 1   | 23 | 3  | 1  | 1 | 1 | 27 | 1     | 1    | 47  | 3   | 3   | /   | 3    | 2  | 1  | 1  | 3    | 1  | 4    | 27  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |

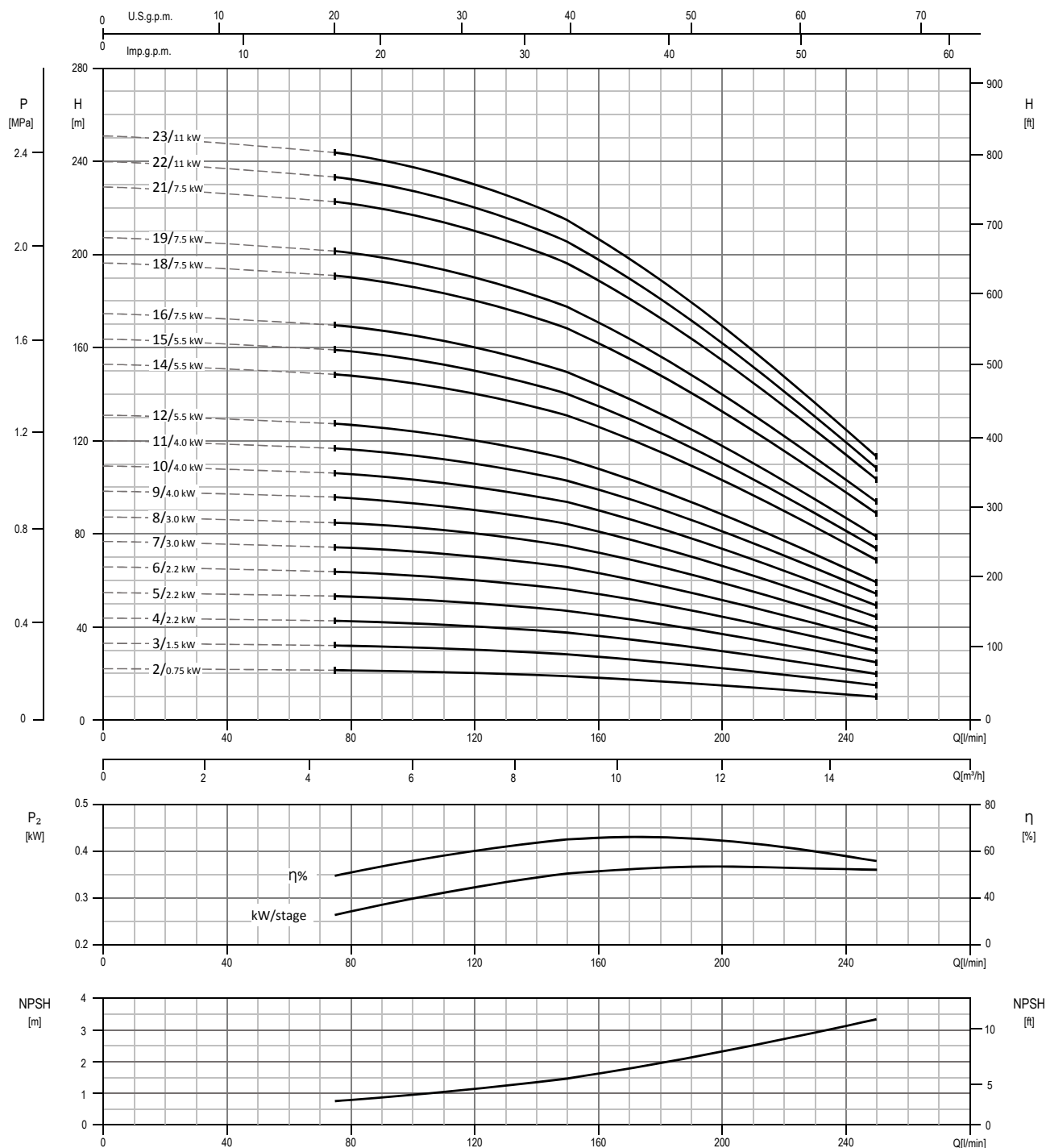
| Pump Type     | N°   |       |       |       |         |        |       |       |       |       |       |       |       |       |       |     |     |     |       |       |      |     |       |  |  |
|---------------|------|-------|-------|-------|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|-------|-------|------|-----|-------|--|--|
|               | 117* | 120-1 | 120-3 | 120-6 | 120-11* | 120-13 | 128-1 | 128-3 | 128-6 | 130-1 | 130-2 | 131-1 | 135-1 | 135-6 | 137-1 | 140 | 162 | 212 | 212-1 | 212-2 | 219* | 245 | 273-1 |  |  |
| EVMSG5 2/0.37 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG5 3/0.55 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG5 4/0.75 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG5 5/1.1  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG5 6/1.5  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG5 7/1.5  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG5 8/2.2  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG5 9/2.2  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG5 10/2.2 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG5 11/2.2 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG5 12/3.0 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG5 13/3.0 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG5 14/3.0 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG5 15/3.0 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG5 17/4.0 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |  |
| EVMSG5 19/4.0 | /    | 4     | 4     | 4     | /       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |  |  |
| EVMSG5 20/4.0 | /    | 4     | 4     | 4     | /       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |  |  |
| EVMSG5 23/5.5 | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |  |  |
| EVMSG5 25/5.5 | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |  |  |
| EVMSG5 27/5.5 | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |  |  |

\* only for Oval flange (N)

\*\*  shaft in EN 1.4462 (AISI 329A)

128-3: only for motor above 5.5 kW (see drawing pag.54)

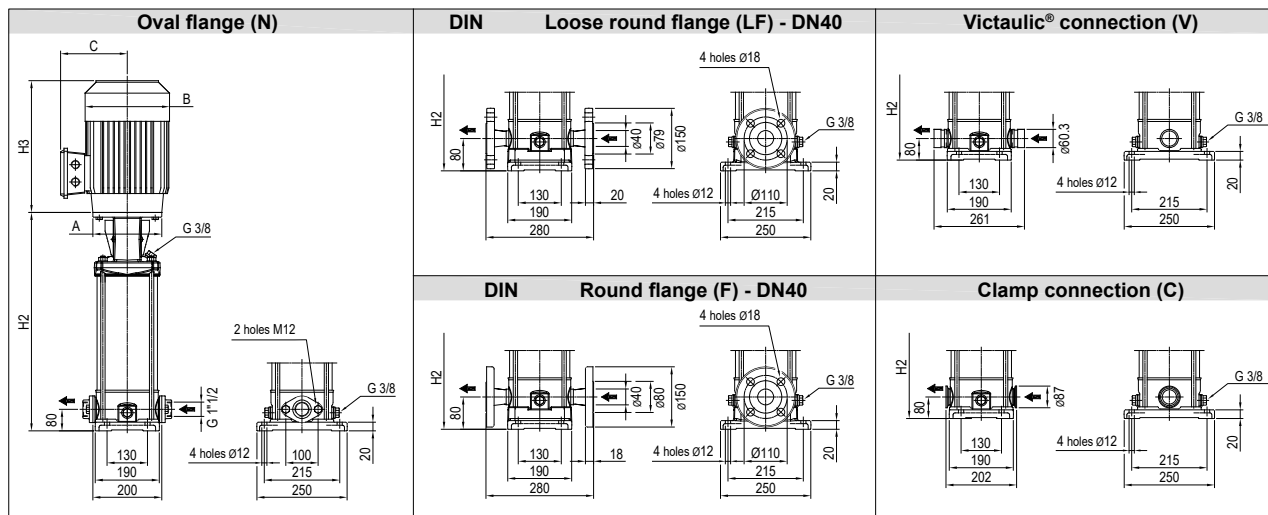
PERFORMANCE CURVE  
EVMS(L)10



Test standard: ISO 9906:2012 - Grade 3B

### TECHNICAL DATA EVMS(L)10

#### Dimensional sketch



#### Dimensions [mm] and Weights [Kg]

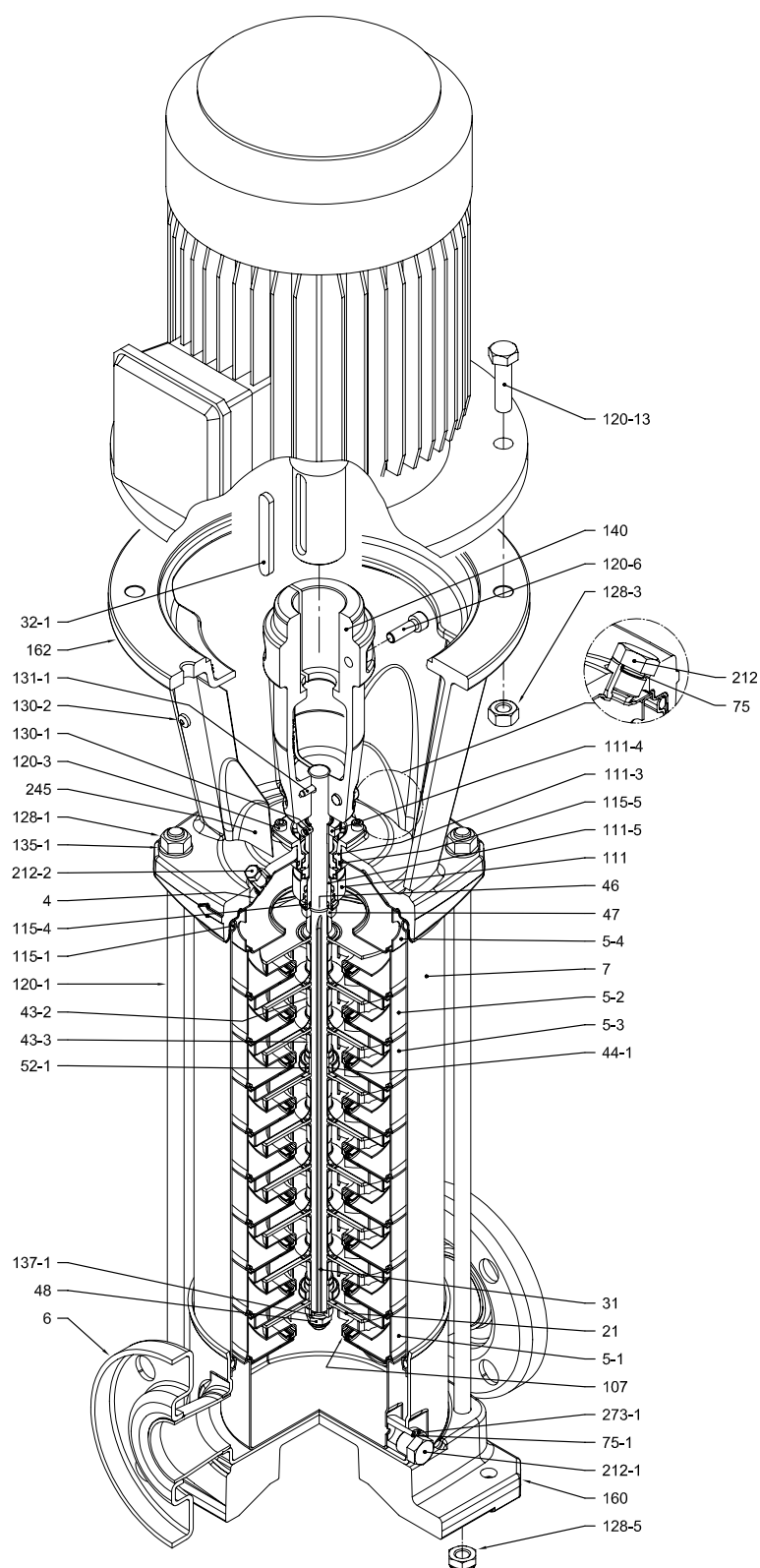
| Pump Type        | Pmax<br>[MPa] | Motor |      |        |     |     |     |     |     | Oval flange (N) |       |      |                |                           |      | Loose round flange (LF)<br>Round flange (F) |       |      |                |                           |      | Victaulic® connection (V)<br>Clamp connection (C) |       |      |                |                           |  |
|------------------|---------------|-------|------|--------|-----|-----|-----|-----|-----|-----------------|-------|------|----------------|---------------------------|------|---------------------------------------------|-------|------|----------------|---------------------------|------|---------------------------------------------------|-------|------|----------------|---------------------------|--|
|                  |               | kW    | Size | 1~     |     |     | 3~  |     |     | H2              | H2+H3 |      | Weight<br>Pump | Weight<br>Pump +<br>Motor |      | H2                                          | H2+H3 |      | Weight<br>Pump | Weight<br>Pump +<br>Motor |      | H2                                                | H2+H3 |      | Weight<br>Pump | Weight<br>Pump +<br>Motor |  |
|                  |               |       |      | A<br>Ø | B   | C   | B   | C   | 1~  |                 | 3~    | 1~   |                | 3~                        | 1~   |                                             | 3~    | 1~   |                | 3~                        | 1~   |                                                   | 3~    | 1~   |                | 3~                        |  |
| EVMS(L)10 2/0.75 | 1.6           | 0.75  | 80   | 120    | 160 | 142 | 141 | 102 | 343 | 572             | 576   | 17.6 | 27.6           | 26.1                      | 343  | 572                                         | 576   | 17.5 | 27.5           | 26.0                      | 343  | 572                                               | 576   | 16.5 | 26.5           | 25.0                      |  |
| EVMS(L)10 3/1.5  | 1.6           | 1.5   | 90   | 140    | 172 | 140 | 160 | 119 | 383 | 661             | 674   | 18.5 | 36.3           | 32.0                      | 383  | 661                                         | 674   | 18.5 | 36.3           | 32.0                      | 383  | 661                                               | 674   | 17.4 | 35.2           | 30.9                      |  |
| EVMS(L)10 4/2.2  | 1.6           | 2.2   | 90   | 140    | 172 | 140 | 160 | 119 | 413 | 691             | 704   | 19.3 | 38.8           | 34.3                      | 413  | 691                                         | 704   | 19.3 | 38.8           | 34.3                      | 413  | 691                                               | 704   | 18.2 | 37.7           | 33.2                      |  |
| EVMS(L)10 5/2.2  | 1.6           | 2.2   | 90   | 140    | 172 | 140 | 160 | 119 | 443 | 721             | 734   | 20.2 | 39.7           | 35.2                      | 443  | 721                                         | 734   | 20.1 | 39.6           | 35.1                      | 443  | 721                                               | 734   | 19.1 | 38.6           | 34.1                      |  |
| EVMS(L)10 6/2.2  | 1.6           | 2.2   | 90   | 140    | 172 | 140 | 160 | 119 | 473 | 751             | 764   | 21   | 40.5           | 36.0                      | 473  | 751                                         | 764   | 21   | 40.5           | 36.0                      | 473  | 751                                               | 764   | 19.9 | 39.4           | 34.9                      |  |
| EVMS(L)10 7/3.0  | 1.6           | 3.0   | 100  | 160    | -   | -   | 176 | 123 | 513 | -               | 855   | 22   | -              | 44.0                      | 513  | -                                           | 855   | 21.9 | -              | 43.9                      | 513  | -                                                 | 855   | 20.9 | -              | 42.9                      |  |
| EVMS(L)10 8/3.0  | 1.6           | 3.0   | 100  | 160    | -   | -   | 176 | 123 | 543 | -               | 885   | 22.8 | -              | 44.8                      | 543  | -                                           | 885   | 22.8 | -              | 44.8                      | 543  | -                                                 | 885   | 21.7 | -              | 43.7                      |  |
| EVMS(L)10 9/4.0  | 1.6           | 4.0   | 112  | 160    | -   | -   | 193 | 138 | 573 | -               | 937   | 23.7 | -              | 52.2                      | 573  | -                                           | 937   | 23.6 | -              | 52.1                      | 573  | -                                                 | 937   | 22.6 | -              | 51.1                      |  |
| EVMS(L)10 10/4.0 | 1.6           | 4.0   | 112  | 160    | -   | -   | 193 | 138 | 603 | -               | 967   | 24.5 | -              | 53.0                      | 603  | -                                           | 967   | 24.5 | -              | 53.0                      | 603  | -                                                 | 967   | 23.4 | -              | 51.9                      |  |
| EVMS(L)10 11/4.0 | 1.6           | 4.0   | 112  | 160    | -   | -   | 193 | 138 | 633 | -               | 997   | 26.1 | -              | 54.6                      | 633  | -                                           | 997   | 26.1 | -              | 54.6                      | 633  | -                                                 | 997   | 25   | -              | 53.5                      |  |
| EVMS(L)10 12/5.5 | 1.6           | 5.5   | 132  | 300    | -   | -   | 220 | 152 | 761 | -               | 1160  | 35.9 | -              | 74.9                      | 761  | -                                           | 1160  | 35.9 | -              | 74.9                      | 761  | -                                                 | 1160  | 34.8 | -              | 73.8                      |  |
| EVMS(L)10 14/5.5 | 1.6           | 5.5   | 132  | 300    | -   | -   | 220 | 152 | 821 | -               | 1220  | 37.8 | -              | 76.8                      | 821  | -                                           | 1220  | 37.7 | -              | 76.7                      | 821  | -                                                 | 1220  | 36.7 | -              | 75.7                      |  |
| EVMS(L)10 15/5.5 | 1.6           | 5.5   | 132  | 300    | -   | -   | 220 | 152 | 851 | -               | 1250  | 38.7 | -              | 77.7                      | 851  | -                                           | 1250  | 38.6 | -              | 77.6                      | 851  | -                                                 | 1250  | 37.6 | -              | 76.6                      |  |
| EVMS(L)10 16/7.5 | 2.5           | 7.5   | 132  | 300    | -   | -   | 220 | 152 | -   | -               | -     | -    | -              | -                         | 881  | -                                           | 1300  | 39.6 | -              | 85.6                      | 881  | -                                                 | 1300  | 38.5 | -              | 84.5                      |  |
| EVMS(L)10 18/7.5 | 2.5           | 7.5   | 132  | 300    | -   | -   | 220 | 152 | -   | -               | -     | -    | -              | -                         | 941  | -                                           | 1360  | 41.4 | -              | 87.4                      | 941  | -                                                 | 1360  | 40.3 | -              | 86.3                      |  |
| EVMS(L)10 19/7.5 | 2.5           | 7.5   | 132  | 300    | -   | -   | 220 | 152 | -   | -               | -     | -    | -              | -                         | 971  | -                                           | 1390  | 42.3 | -              | 88.3                      | 971  | -                                                 | 1390  | 41.2 | -              | 87.2                      |  |
| EVMS(L)10 21/7.5 | 2.5           | 7.5   | 132  | 300    | -   | -   | 220 | 152 | -   | -               | -     | -    | -              | -                         | 1031 | -                                           | 1450  | 44.1 | -              | 90.1                      | 1031 | -                                                 | 1450  | 43.1 | -              | 89.1                      |  |
| EVMS(L)10 22/11  | 2.5           | 11    | 160  | 350    | -   | -   | 259 | 180 | -   | -               | -     | -    | -              | -                         | 1091 | -                                           | 1531  | 46.4 | -              | 108.9                     | 1091 | -                                                 | 1531  | 45.4 | -              | 107.9                     |  |
| EVMS(L)10 23/11  | 2.5           | 11    | 160  | 350    | -   | -   | 259 | 180 | -   | -               | -     | -    | -              | -                         | 1121 | -                                           | 1561  | 53.1 | -              | 115.6                     | 1121 | -                                                 | 1561  | 52.1 | -              | 114.6                     |  |

1.6 MPa=16 bar; 2.5 MPa=25 bar

- not available model

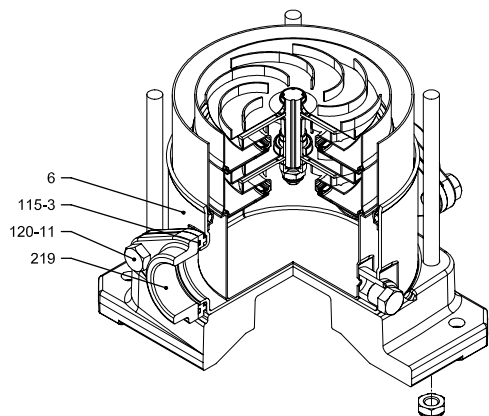


# SECTIONAL VIEW EVMS(L)10

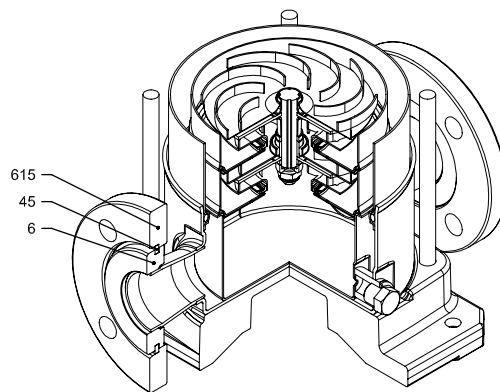


with Round flange (F)

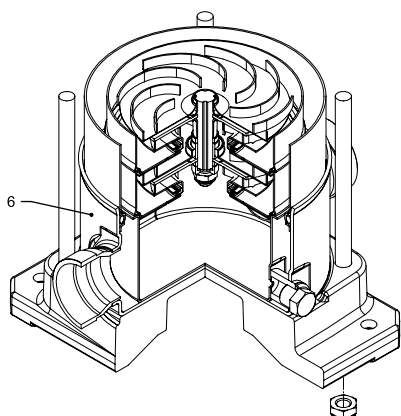
### PIPE CONNECTION EVMS(L)10



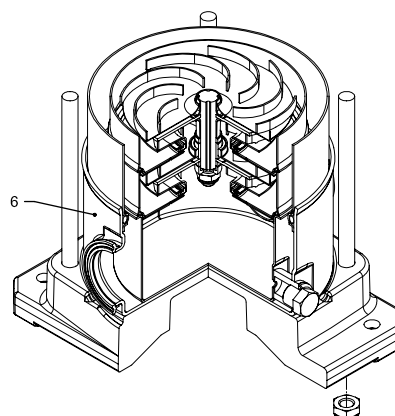
with Oval flange (N)



with Loose round flange (LF)



with Victaulic® connection (V)



with Clamp connection (C)

SECTIONAL TABLE  
EVMS(L)10

| N°     | PART NAME                                 |                       | MATERIAL                                      |                                          | DIMENSIONS   | STANDARD |
|--------|-------------------------------------------|-----------------------|-----------------------------------------------|------------------------------------------|--------------|----------|
|        |                                           |                       | EVMS                                          | EVMSL                                    |              |          |
| 4      | Casing cover                              |                       | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 5-1    | Suction casing                            |                       | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 5-2    | Intermediate casing                       |                       | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 5-3    | Intermediate casing with bearing          |                       | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 5-4    | Discharge casing                          |                       | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 6      | Bottom casing                             |                       | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 7      | Outer casing                              |                       | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 21     | Impeller                                  |                       | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 31     | Shaft                                     |                       | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 32-1   | Adjuster key                              |                       | EN 1.4301 (AISI 304)                          |                                          |              |          |
| 43-2   | Shaft sleeve (intermediate)               |                       | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 43-3   | Shaft sleeve (bearing + discharge casing) |                       | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 44-1   | Shaft sleeve bearing                      |                       | Tungsten carbide                              |                                          |              |          |
| 45     | Flange holder                             |                       | EN 1.4301 (AISI 304)                          |                                          |              |          |
| 46     | Ring (mechanical seal)                    |                       | EN 1.4404 (AISI 316L)                         |                                          |              |          |
| 47     | Ring holder                               |                       | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 48     | Impeller nut                              |                       | EN 1.4301 (AISI 304)<br>with inox insert      | EN 1.4401 (AISI 316)<br>with inox insert | M10          |          |
| 52-1   | Sleeve bearing                            |                       | Tungsten carbide                              |                                          |              |          |
| 75     | O-Ring (priming plug)                     |                       | EPDM / FPM                                    |                                          | Ø12.37x2.62  | OR 3050  |
| 75-1   | O-Ring (drainage plug)                    |                       | EPDM / FPM                                    |                                          |              |          |
| 107    | Liner ring                                |                       | EN 1.4301 (AISI 304) + PPS                    | EN 1.4404 (AISI 316L) + PPS              |              |          |
| 111    | Mechanical seal                           |                       | see pages 6-7                                 |                                          |              |          |
| 111-3  | Mechanical seal seat                      |                       | EN 1.4308 (ASTM CF8)                          | EN 1.4408 (ASTM CF8M)                    |              |          |
| 111-4  | Seal holder                               |                       | EN 1.4301 (AISI 304)                          |                                          |              |          |
| 111-5  | Mechanical seal cartridge sleeve          |                       | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 115-1  | O-Ring (outer casing)                     |                       | EPDM / FPM                                    |                                          | Ø164.46x5.34 | OR 6945  |
| 115-3  | O-Ring                                    |                       | EPDM / FPM                                    |                                          |              |          |
| 115-4  | O-Ring (cartridge sleeve)                 |                       | EPDM / FPM                                    |                                          | Ø15.88x2.62  | OR 4093  |
| 115-5  | O-Ring (seal flange)                      |                       | EPDM / FPM                                    |                                          | Ø37.77x2.62  | OR 4175  |
| 120-1  | Tie-rod                                   |                       | EN 1.4057 (AISI 431)                          |                                          | M12          |          |
| 120-3  | Screw                                     |                       | A2-70                                         |                                          | M5x12        | ISO 4762 |
| 120-6  | Screw (pump coupling)                     | up to 4.0 kW          | Galvanized steel                              |                                          | M6x25        | ISO 4762 |
|        |                                           | from 5.5 kW to 7.5 kW |                                               |                                          | M8x20        | ISO 4762 |
|        |                                           | above 11 kW           |                                               |                                          | M10x30       | ISO 4762 |
|        |                                           |                       |                                               |                                          |              |          |
| 120-11 | Screw (counterflange)                     |                       | A2-70                                         |                                          |              |          |
| 120-13 | Screw for motor                           | MEC 80                | Galvanized steel 8.8 strength class ISO 898/1 |                                          | M6x20        | ISO 4017 |
|        |                                           | MEC 90-100-112        |                                               |                                          | M8x20        | ISO 4017 |
|        |                                           | MEC 132               |                                               |                                          | M12x40       | UNI 5739 |
|        |                                           | MEC 160               |                                               |                                          | M16x50       | ISO 4017 |
| 128-1  | Nut (tie rod)                             |                       | A2-70                                         |                                          | M12          | ISO 4032 |
| 128-3  | Nut (motor)                               | MEC 132               | Galvanized steel                              |                                          | M12          | ISO 4032 |
|        |                                           | MEC 160               |                                               |                                          | M16          | ISO 4032 |
| 128-5  | Nut (tie rod)                             |                       | A2-70                                         |                                          | M12          | UNI 7474 |
| 128-6  | Nut (aluminium coupling)                  | MEC 71-80-90-100-112  | Galvanized steel                              |                                          | M6           | ISO 4032 |
| 130-1  | Set screw                                 |                       | EN 1.4301 (AISI 304)                          |                                          | M5x8         | ISO 4026 |
| 130-2  | Screw for coupling guard                  |                       | A2-70                                         |                                          | M5x6         | UNI 7687 |
| 131-1  | Pin for shaft                             |                       | Carbon Steel                                  |                                          | Ø5x35        | ISO 2338 |
| 135-1  | Washer (tie rod)                          |                       | EN 1.4301 (AISI 304)                          |                                          | Ø13x24x2.5   | ISO 7089 |
| 135-6  | Washer (aluminium coupling)               | up to 4.0 kW          | Carbon Steel                                  |                                          | Ø6           |          |
| 137-1  | Impeller spacer                           |                       | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 140    | Coupling                                  | up to 4.0 kW          | Die cast Aluminium EN AB-AISI11 Cu2 (Fe)      |                                          |              |          |
|        |                                           | above 5.5 kW          | Cast Iron                                     |                                          |              |          |
| 160    | Base                                      |                       | Die cast Aluminium EN AB-AISI11 Cu2 (Fe)      |                                          |              |          |
| 162    | Motor bracket                             |                       | Cast iron EN-GJL-250                          |                                          |              |          |
| 212    | Priming plug                              |                       | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    | G 3/8        |          |
| 212-1  | Drainage plug                             |                       | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    | G 3/8        |          |
| 212-2  | Venting plug                              |                       | EN 1.4404 (AISI 316L)                         |                                          |              |          |
| 219    | Counter flange                            | flange type: N        | EN 1.4308 (ASTM CF8)                          | EN 1.4408 (ASTM CF8M)                    |              |          |
|        |                                           | flange type: LF-F-V-C | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 245    | Coupling guard                            |                       | EN 1.4301 (AISI 304)                          |                                          |              |          |
| 273-1  | Washer (drainage plug)                    |                       | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 615    | Flange                                    |                       | Nodular Cast Iron                             |                                          |              |          |

### QUANTITY FOR MODEL EVMS(L)10

EVMS(L)10

| Pump Type        | N° |     |    |    |    |   |   |    |    |      |      |      |      |      |    |    |    |      |    |      |     |     |       |
|------------------|----|-----|----|----|----|---|---|----|----|------|------|------|------|------|----|----|----|------|----|------|-----|-----|-------|
|                  | 4  | 5-1 | 52 | 53 | 54 | 6 | 7 | 21 | 31 | 32-1 | 43-2 | 43-3 | 44-1 | 45** | 46 | 47 | 48 | 52-1 | 75 | 75-1 | 107 | 111 | 111-3 |
| EVMS(L)10 2/0.75 | 1  | 1   | /  | 1  | 1  | 1 | 1 | 2  | 1  | 1    | 1    | 1    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 2   | 1   | 1     |
| EVMS(L)10 3/1.5  | 1  | 1   | 1  | 1  | 1  | 1 | 1 | 3  | 1  | 1    | 3    | 1    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 3   | 1   | 1     |
| EVMS(L)10 4/2.2  | 1  | 1   | 2  | 1  | 1  | 1 | 1 | 4  | 1  | 1    | 5    | 1    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 4   | 1   | 1     |
| EVMS(L)10 5/2.2  | 1  | 1   | 3  | 1  | 1  | 1 | 1 | 5  | 1  | 1    | 7    | 1    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 5   | 1   | 1     |
| EVMS(L)10 6/2.2  | 1  | 1   | 4  | 1  | 1  | 1 | 1 | 6  | 1  | 1    | 9    | 1    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 6   | 1   | 1     |
| EVMS(L)10 7/3.0  | 1  | 1   | 5  | 1  | 1  | 1 | 1 | 7  | 1  | 1    | 11   | 1    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 7   | 1   | 1     |
| EVMS(L)10 8/3.0  | 1  | 1   | 6  | 1  | 1  | 1 | 1 | 8  | 1  | 1    | 13   | 1    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 8   | 1   | 1     |
| EVMS(L)10 9/4.0  | 1  | 1   | 7  | 1  | 1  | 1 | 1 | 9  | 1  | 1    | 15   | 1    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 9   | 1   | 1     |
| EVMS(L)10 10/4.0 | 1  | 1   | 8  | 1  | 1  | 1 | 1 | 10 | 1  | 1    | 17   | 1    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 10  | 1   | 1     |
| EVMS(L)10 11/4.0 | 1  | 1   | 9  | 1  | 1  | 1 | 1 | 11 | 1  | 1    | 19   | 1    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 11  | 1   | 1     |
| EVMS(L)10 12/5.5 | 1  | 1   | 9  | 2  | 1  | 1 | 1 | 12 | 1  | 1    | 19   | 2    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 12  | 1   | 1     |
| EVMS(L)10 14/5.5 | 1  | 1   | 11 | 2  | 1  | 1 | 1 | 14 | 1  | 1    | 23   | 2    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 14  | 1   | 1     |
| EVMS(L)10 15/5.5 | 1  | 1   | 12 | 2  | 1  | 1 | 1 | 15 | 1  | 1    | 25   | 2    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 15  | 1   | 1     |
| EVMS(L)10 16/7.5 | 1  | 1   | 13 | 2  | 1  | 1 | 1 | 16 | 1  | 1    | 27   | 2    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 16  | 1   | 1     |
| EVMS(L)10 18/7.5 | 1  | 1   | 15 | 2  | 1  | 1 | 1 | 18 | 1  | 1    | 31   | 2    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 18  | 1   | 1     |
| EVMS(L)10 19/7.5 | 1  | 1   | 16 | 2  | 1  | 1 | 1 | 19 | 1  | 1    | 33   | 2    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 19  | 1   | 1     |
| EVMS(L)10 21/7.5 | 1  | 1   | 18 | 2  | 1  | 1 | 1 | 21 | 1  | 1    | 37   | 2    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 21  | 1   | 1     |
| EVMS(L)10 22/11  | 1  | 1   | 19 | 2  | 1  | 1 | 1 | 22 | 1  | 1    | 39   | 2    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 22  | 1   | 1     |
| EVMS(L)10 23/11  | 1  | 1   | 19 | 3  | 1  | 1 | 1 | 23 | 1  | 1    | 39   | 3    | 3    | 4    | 2  | 1  | 1  | 3    | 1  | 2    | 23  | 1   | 1     |

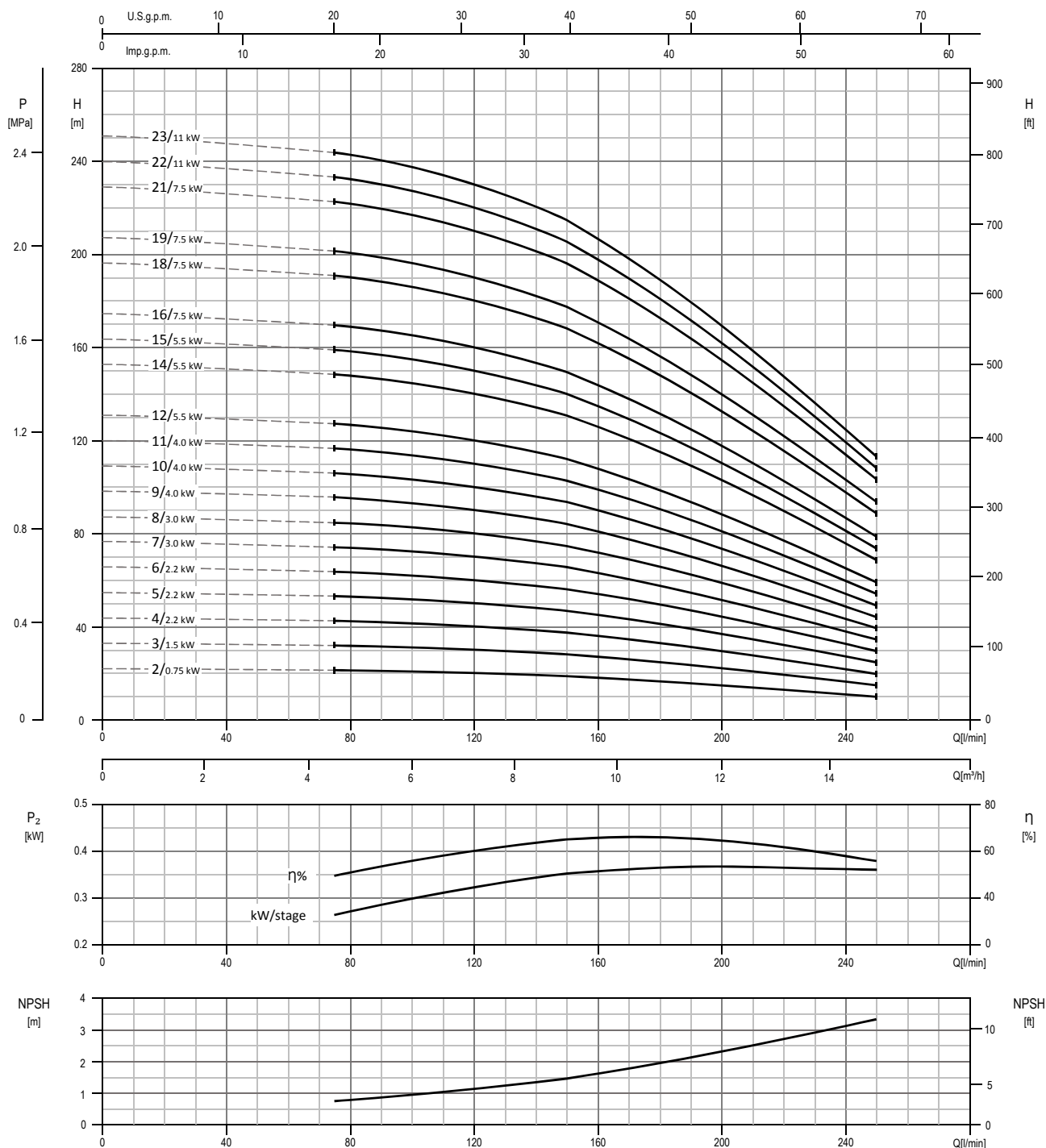
| Pump Type        | N°    |       |       |         |        |       |       |       |       |       |       |       |       |       |       |     |     |     |     |       |       |      |     |
|------------------|-------|-------|-------|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|-----|-------|-------|------|-----|
|                  | 120-1 | 120-3 | 120-6 | 120-11* | 120-13 | 128-1 | 128-3 | 128-5 | 128-6 | 130-1 | 130-2 | 131-1 | 135-1 | 135-6 | 137-1 | 140 | 160 | 162 | 212 | 212-1 | 212-2 | 219* | 245 |
| EVMS(L)10 2/0.75 | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   |
| EVMS(L)10 3/1.5  | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   |
| EVMS(L)10 4/2.2  | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   |
| EVMS(L)10 5/2.2  | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   |
| EVMS(L)10 6/2.2  | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   |
| EVMS(L)10 7/3.0  | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   |
| EVMS(L)10 8/3.0  | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   |
| EVMS(L)10 9/4.0  | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   |
| EVMS(L)10 10/4.0 | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   |
| EVMS(L)10 11/4.0 | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   |
| EVMS(L)10 12/5.5 | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   |
| EVMS(L)10 14/5.5 | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   |
| EVMS(L)10 15/5.5 | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   |
| EVMS(L)10 16/7.5 | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   |
| EVMS(L)10 18/7.5 | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   |
| EVMS(L)10 19/7.5 | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   |
| EVMS(L)10 21/7.5 | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   |
| EVMS(L)10 22/11  | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   |
| EVMS(L)10 23/11  | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   |

\* only for Oval flange (N)

\*\* only for Loose round flange (LF)

128-6 / 135-6: with Aluminium coupling (see drawing pag.18)

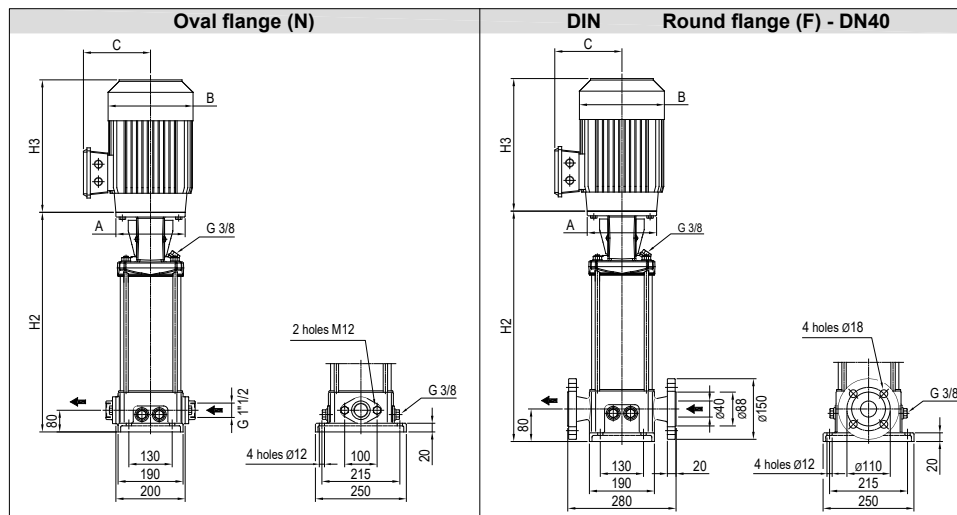
PERFORMANCE CURVE  
EVMSG10



Test standard: ISO 9906:2012 - Grade 3B

### TECHNICAL DATA EVMSG10

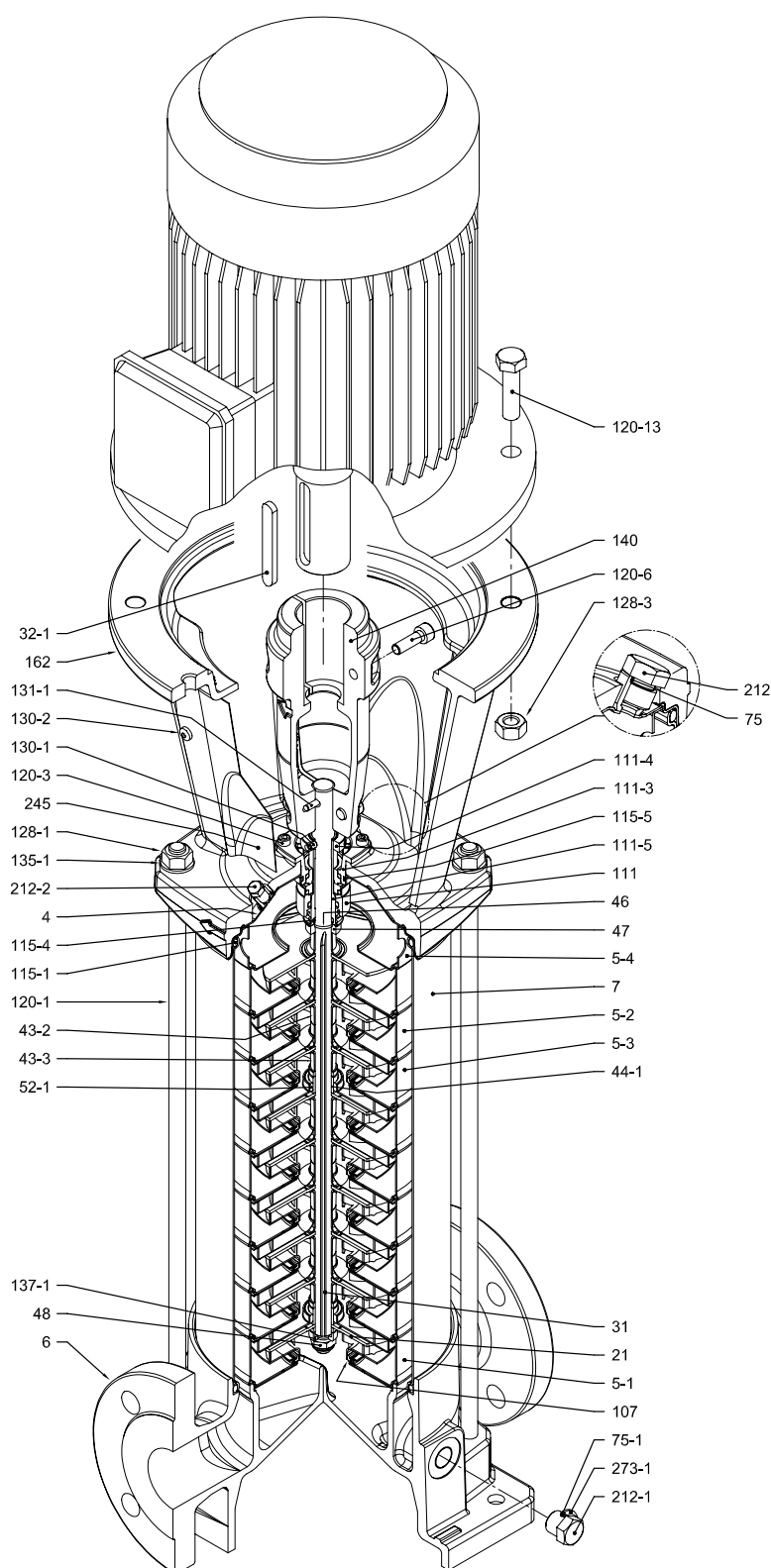
#### Dimensional sketch



#### Dimensions [mm] and Weights [Kg]

| Pump Type      | Pmax<br>[MPa] | Motor |      |        |     |     |     |     |     | Oval flange (N) |      |                |                           |      |      | Round flange (F) |      |                |                           |       |  |
|----------------|---------------|-------|------|--------|-----|-----|-----|-----|-----|-----------------|------|----------------|---------------------------|------|------|------------------|------|----------------|---------------------------|-------|--|
|                |               | kW    | Size | 1~     |     |     | 3 ~ |     | H2  | H2+H3           |      | Weight<br>Pump | Weight<br>Pump +<br>Motor |      | H2   | H2+H3            |      | Weight<br>Pump | Weight<br>Pump +<br>Motor |       |  |
|                |               |       |      | A<br>Ø | B   | C   | B   | C   |     | 1 ~             | 3 ~  |                | 1 ~                       | 3 ~  |      | 1 ~              | 3 ~  |                |                           |       |  |
|                |               |       |      |        |     |     |     |     |     |                 |      |                |                           |      |      |                  |      |                |                           |       |  |
| EVMSG10 2/0.75 | 1.6           | 0.75  | 80   | 120    | 160 | 142 | 141 | 102 | 343 | 572             | 576  | 21.6           | 31.6                      | 30.1 | 343  | 572              | 576  | 24.3           | 34.3                      | 32.8  |  |
| EVMSG10 3/1.5  | 1.6           | 1.5   | 90   | 140    | 172 | 140 | 160 | 119 | 383 | 661             | 674  | 22.5           | 40.3                      | 36.0 | 383  | 661              | 674  | 25.3           | 43.1                      | 38.8  |  |
| EVMSG10 4/2.2  | 1.6           | 2.2   | 90   | 140    | 172 | 140 | 160 | 119 | 413 | 691             | 704  | 23.3           | 42.8                      | 38.3 | 413  | 691              | 704  | 26             | 45.5                      | 41.0  |  |
| EVMSG10 5/2.2  | 1.6           | 2.2   | 90   | 140    | 172 | 140 | 160 | 119 | 443 | 721             | 734  | 24.2           | 43.7                      | 39.2 | 443  | 721              | 734  | 26.9           | 46.4                      | 41.9  |  |
| EVMSG10 6/2.2  | 1.6           | 2.2   | 90   | 140    | 172 | 140 | 160 | 119 | 473 | 751             | 764  | 25             | 44.5                      | 40.0 | 473  | 751              | 764  | 27.7           | 47.2                      | 42.7  |  |
| EVMSG10 7/3.0  | 1.6           | 3.0   | 100  | 160    | -   | -   | 176 | 123 | 513 | -               | 855  | 26             | -                         | 48.0 | 513  | -                | 855  | 28.7           | -                         | 50.7  |  |
| EVMSG10 8/3.0  | 1.6           | 3.0   | 100  | 160    | -   | -   | 176 | 123 | 543 | -               | 885  | 26.8           | -                         | 48.8 | 543  | -                | 885  | 29.5           | -                         | 51.5  |  |
| EVMSG10 9/4.0  | 1.6           | 4.0   | 112  | 160    | -   | -   | 193 | 138 | 573 | -               | 937  | 27.7           | -                         | 56.2 | 573  | -                | 937  | 30.4           | -                         | 58.9  |  |
| EVMSG10 10/4.0 | 1.6           | 4.0   | 112  | 160    | -   | -   | 193 | 138 | 603 | -               | 967  | 28.5           | -                         | 57.0 | 603  | -                | 967  | 31.2           | -                         | 59.7  |  |
| EVMSG10 11/4.0 | 1.6           | 4.0   | 112  | 160    | -   | -   | 193 | 138 | 633 | -               | 997  | 30.1           | -                         | 58.6 | 633  | -                | 997  | 32.9           | -                         | 61.4  |  |
| EVMSG10 12/5.5 | 1.6           | 5.5   | 132  | 300    | -   | -   | 220 | 152 | 761 | -               | 1160 | 39.9           | -                         | 78.9 | 761  | -                | 1160 | 42.7           | -                         | 81.7  |  |
| EVMSG10 14/5.5 | 1.6           | 5.5   | 132  | 300    | -   | -   | 220 | 152 | 821 | -               | 1220 | 41.8           | -                         | 80.8 | 821  | -                | 1220 | 44.5           | -                         | 83.5  |  |
| EVMSG10 15/5.5 | 1.6           | 5.5   | 132  | 300    | -   | -   | 220 | 152 | 851 | -               | 1250 | 42.7           | -                         | 81.7 | 851  | -                | 1250 | 45.4           | -                         | 84.4  |  |
| EVMSG10 16/7.5 | 2.5           | 7.5   | 132  | 300    | -   | -   | 220 | 152 | -   | -               | -    | -              | -                         | -    | 881  | -                | 1300 | 46.3           | -                         | 92.3  |  |
| EVMSG10 18/7.5 | 2.5           | 7.5   | 132  | 300    | -   | -   | 220 | 152 | -   | -               | -    | -              | -                         | -    | 941  | -                | 1360 | 47.7           | -                         | 93.7  |  |
| EVMSG10 19/7.5 | 2.5           | 7.5   | 132  | 300    | -   | -   | 220 | 152 | -   | -               | -    | -              | -                         | -    | 971  | -                | 1390 | 49.1           | -                         | 95.1  |  |
| EVMSG10 21/7.5 | 2.5           | 7.5   | 132  | 300    | -   | -   | 220 | 152 | -   | -               | -    | -              | -                         | -    | 1031 | -                | 1450 | 50.9           | -                         | 96.9  |  |
| EVMSG10 22/11  | 2.5           | 11    | 160  | 350    | -   | -   | 259 | 180 | -   | -               | -    | -              | -                         | -    | 1091 | -                | 1531 | 53.2           | -                         | 115.7 |  |
| EVMSG10 23/11  | 2.5           | 11    | 160  | 350    | -   | -   | 259 | 180 | -   | -               | -    | -              | -                         | -    | 1121 | -                | 1561 | 59.9           | -                         | 122.4 |  |

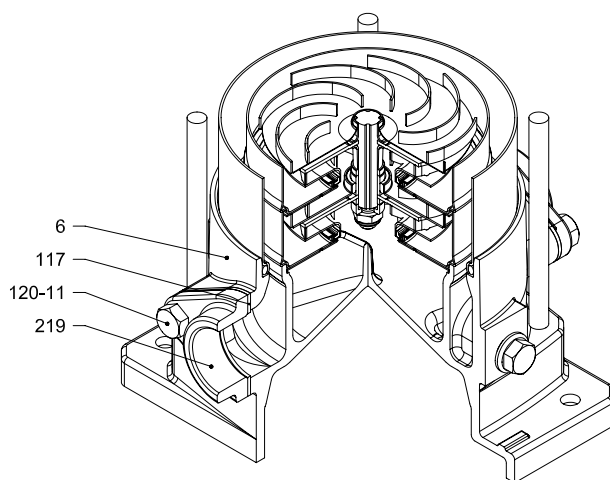
1.6 MPa=16 bar;      2.5 MPa=25 bar  
- not available model

SECTIONAL VIEW  
EVMSG10

with Round flange (F)



### PIPE CONNECTION EVMSG10



with Oval flange (N)

SECTIONAL TABLE  
EVMSG10

| N°     | PART NAME                                     |                       | MATERIAL<br>EVMSG                             | DIMENSIONS   | STANDARD |
|--------|-----------------------------------------------|-----------------------|-----------------------------------------------|--------------|----------|
| 4      | Casing cover                                  |                       | EN 1.4301 (AISI 304)                          |              |          |
| 5-1    | Suction casing                                |                       | EN 1.4301 (AISI 304)                          |              |          |
| 5-2    | Intermediate casing                           |                       | EN 1.4301 (AISI 304)                          |              |          |
| 5-3    | Intermediate casing with bearing              |                       | EN 1.4301 (AISI 304)                          |              |          |
| 5-4    | Discharge casing                              |                       | EN 1.4301 (AISI 304)                          |              |          |
| 6      | Bottom casing                                 |                       | Cast Iron EN-GJL-250                          |              |          |
| 7      | Outer casing                                  |                       | EN 1.4301 (AISI 304)                          |              |          |
| 21     | Impeller                                      |                       | EN 1.4301 (AISI 304)                          |              |          |
| 31     | Shaft                                         |                       | EN 1.4301 (AISI 304)                          |              |          |
| 32-1   | Adjuster key                                  |                       | EN 1.4301 (AISI 304)                          |              |          |
| 43-2   | Shaft sleeve (intermediate)                   |                       | EN 1.4301 (AISI 304)                          |              |          |
| 43-3   | Shaft sleeve (bearing + discharge casing)     |                       | EN 1.4301 (AISI 304)                          |              |          |
| 44-1   | Shaft sleeve bearing                          |                       | Tungsten carbide                              |              |          |
| 46     | Ring (mechanical seal)                        |                       | EN 1.4404 (AISI 316L)                         |              |          |
| 47     | Ring holder                                   |                       | EN 1.4404 (AISI 316L)                         |              |          |
| 48     | Impeller nut                                  |                       | EN 1.4301 (AISI 304) with inox insert         | M10          |          |
| 52-1   | Sleeve bearing                                |                       | Tungsten carbide                              |              |          |
| 75     | O-Ring (priming plug)                         |                       | EPDM / FPM                                    | Ø12.37x2.62  | OR 3050  |
| 75-1   | O-Ring (drainage plug)                        |                       | EPDM / FPM                                    |              |          |
| 107    | Liner ring                                    |                       | EN 1.4301 (AISI 304) + PPS                    |              |          |
| 111    | Mechanical seal                               |                       | see pages 6-7                                 |              |          |
| 111-3  | Mechanical seal seat                          |                       | EN 1.4308 (ASTM CF8)                          |              |          |
| 111-4  | Seal holder                                   |                       | EN 1.4301 (AISI 304)                          |              |          |
| 111-5  | Mechanical seal cartridge sleeve              |                       | EN 1.4301 (AISI 304)                          |              |          |
| 115-1  | O-Ring (outer casing)                         |                       | EPDM / FPM                                    | Ø164.46x5.34 | OR 6945  |
| 115-4  | O-Ring (cartridge sleeve)                     |                       | EPDM / FPM                                    | Ø15.88x2.62  | OR 4093  |
| 115-5  | O-Ring (seal flange)                          |                       | EPDM / FPM                                    | Ø37.77x2.62  | OR 4175  |
| 117    | Flange gasket                                 |                       | EPDM / FPM                                    |              |          |
| 120-1  | Tie-rod                                       |                       | EN 1.4057 (AISI 431)                          | M12          |          |
| 120-3  | Screw (seal flange)                           |                       | A2-70                                         | M5x12        | ISO 4762 |
| 120-6  | Screw (pump coupling)                         | up to 4.0 kW          | Galvanized steel                              | M6x25        | ISO 4762 |
|        |                                               | from 5.5 kw to 7.5 kW |                                               | M8x20        | ISO 4762 |
|        |                                               | above 11 kW           |                                               | M10x30       | ISO 4762 |
|        |                                               |                       |                                               |              |          |
| 120-11 | Screw (counterflange)                         |                       | A2-70                                         |              |          |
| 120-13 | Screw for motor                               | MEC 80                | Galvanized steel 8.8 strength class ISO 898/1 | M6x20        | ISO 4017 |
|        |                                               | MEC 90-100-112        |                                               | M8x20        | ISO 4017 |
|        |                                               | MEC 132               |                                               | M12x40       | UNI 5739 |
|        |                                               | MEC 160               |                                               | M16x50       | ISO 4017 |
| 128-1  | Nut (tie rod)                                 |                       | A2-70                                         | M12          | ISO 4032 |
| 128-3  | Nut (motor)                                   | MEC 132               | Galvanized steel                              | M12          | ISO 4032 |
|        |                                               | MEC 160               |                                               | M16          | ISO 4032 |
| 128-6  | Nut (aluminium coupling) MEC 71-80-90-100-112 |                       | Galvanized steel                              | M6           | ISO 4032 |
| 130-1  | Set screw                                     |                       | EN 1.4301 (AISI 304)                          | M5x8         | ISO 4026 |
| 130-2  | Screw for coupling guard                      |                       | A2-70                                         | M5x6         | UNI 7687 |
| 131-1  | Pin for shaft                                 |                       | Carbon Steel                                  | Ø5x35        | ISO 2338 |
| 135-1  | Washer (tie rod)                              |                       | EN 1.4301 (AISI 304)                          | Ø13x24x2.5   | ISO 7089 |
| 135-6  | Washer (aluminium coupling) up to 4.0 kW      |                       | Carbon Steel                                  | Ø6           |          |
| 137-1  | Impeller spacer                               |                       | EN 1.4301 (AISI 304)                          |              |          |
| 140    | Coupling                                      | up to 4.0 kW          | Die cast Aluminium EN AB-AISI11Cu2 (Fe)       |              |          |
|        |                                               | above 5.5 kW          | Cast Iron                                     |              |          |
| 162    | Motor bracket                                 |                       | Cast iron EN-GJL-250                          |              |          |
| 212    | Priming plug                                  |                       | EN 1.4301 (AISI 304)                          | G 3/8        |          |
| 212-1  | Drainage plug                                 |                       | EN 1.4301 (AISI 304)                          | G 3/8        |          |
| 212-2  | Venting plug                                  |                       | EN 1.4404 (AISI 316L)                         |              |          |
| 219    | Counter flange                                | flange type: N        | Galvanized steel                              |              |          |
|        |                                               | flange type: F        | Cast Iron EN-GJL-250                          |              |          |
| 245    | Coupling guard                                |                       | EN 1.4301 (AISI 304)                          |              |          |
| 273-1  | Washer (drainage plug)                        |                       | EN 1.4301 (AISI 304)                          |              |          |

### QUANTITY FOR MODEL EVMSG10

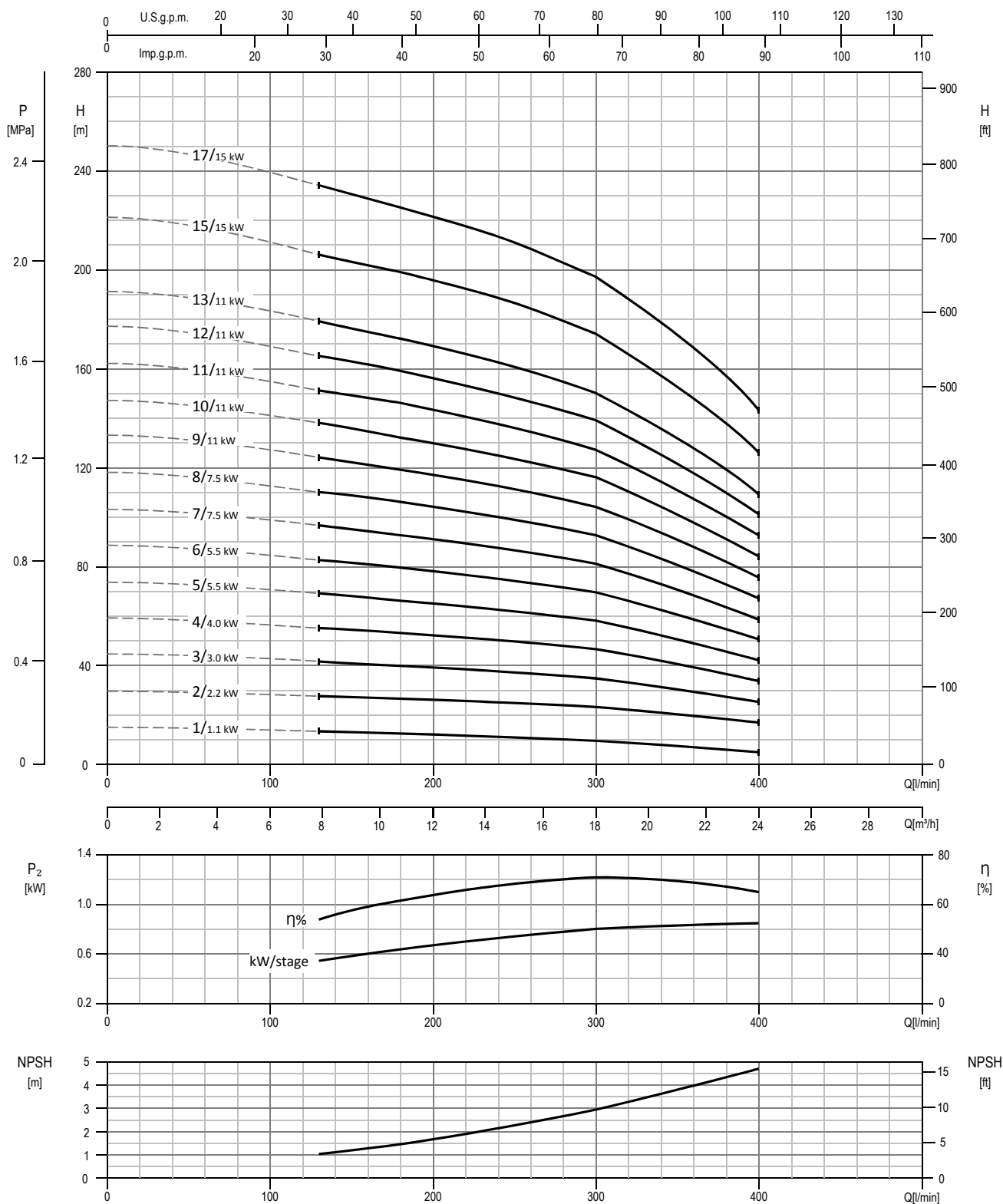
| Pump Type      | N° |     |    |    |    |   |   |    |    |      |      |      |      |    |    |    |      |    |      |     |     |       |       |       |       |       |       |  |
|----------------|----|-----|----|----|----|---|---|----|----|------|------|------|------|----|----|----|------|----|------|-----|-----|-------|-------|-------|-------|-------|-------|--|
|                | 4  | 5-1 | 52 | 53 | 54 | 6 | 7 | 21 | 31 | 32-1 | 43-2 | 43-3 | 44-1 | 46 | 47 | 48 | 52-1 | 75 | 75-1 | 107 | 111 | 111-3 | 111-4 | 111-5 | 115-1 | 115-4 | 115-5 |  |
| EVMSG10 2/0.75 | 1  | 1   | /  | 1  | 1  | 1 | 1 | 2  | 1  | 1    | /    | 2    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 2   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |  |
| EVMSG10 3/1.5  | 1  | 1   | 1  | 1  | 1  | 1 | 1 | 3  | 1  | 1    | 1    | 2    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 3   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |  |
| EVMSG10 4/2.2  | 1  | 1   | 2  | 1  | 1  | 1 | 1 | 4  | 1  | 1    | 2    | 2    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 4   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |  |
| EVMSG10 5/2.2  | 1  | 1   | 3  | 1  | 1  | 1 | 1 | 5  | 1  | 1    | 3    | 2    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 5   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |  |
| EVMSG10 6/2.2  | 1  | 1   | 4  | 1  | 1  | 1 | 1 | 6  | 1  | 1    | 4    | 2    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 6   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |  |
| EVMSG10 7/3.0  | 1  | 1   | 5  | 1  | 1  | 1 | 1 | 7  | 1  | 1    | 5    | 2    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 7   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |  |
| EVMSG10 8/3.0  | 1  | 1   | 6  | 1  | 1  | 1 | 1 | 8  | 1  | 1    | 6    | 2    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 8   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |  |
| EVMSG10 9/4.0  | 1  | 1   | 7  | 1  | 1  | 1 | 1 | 9  | 1  | 1    | 7    | 2    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 9   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |  |
| EVMSG10 10/4.0 | 1  | 1   | 8  | 1  | 1  | 1 | 1 | 10 | 1  | 1    | 8    | 2    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 10  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |  |
| EVMSG10 11/4.0 | 1  | 1   | 9  | 1  | 1  | 1 | 1 | 11 | 1  | 1    | 9    | 2    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 11  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |  |
| EVMSG10 12/5.5 | 1  | 1   | 9  | 2  | 1  | 1 | 1 | 12 | 1  | 1    | 9    | 3    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 12  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |  |
| EVMSG10 14/5.5 | 1  | 1   | 11 | 2  | 1  | 1 | 1 | 14 | 1  | 1    | 11   | 3    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 14  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |  |
| EVMSG10 15/5.5 | 1  | 1   | 12 | 2  | 1  | 1 | 1 | 15 | 1  | 1    | 12   | 3    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 15  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |  |
| EVMSG10 16/7.5 | 1  | 1   | 13 | 2  | 1  | 1 | 1 | 16 | 1  | 1    | 13   | 3    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 16  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |  |
| EVMSG10 18/7.5 | 1  | 1   | 15 | 2  | 1  | 1 | 1 | 18 | 1  | 1    | 15   | 3    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 18  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |  |
| EVMSG10 19/7.5 | 1  | 1   | 16 | 2  | 1  | 1 | 1 | 19 | 1  | 1    | 16   | 3    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 19  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |  |
| EVMSG10 21/7.5 | 1  | 1   | 18 | 2  | 1  | 1 | 1 | 21 | 1  | 1    | 18   | 3    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 21  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |  |
| EVMSG10 22/11  | 1  | 1   | 19 | 2  | 1  | 1 | 1 | 22 | 1  | 1    | 19   | 3    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 22  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |  |
| EVMSG10 23/11  | 1  | 1   | 19 | 3  | 1  | 1 | 1 | 23 | 1  | 1    | 19   | 4    | 3    | 2  | 1  | 1  | 3    | 1  | 4    | 23  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |  |

| Pump Type      | N°   |       |       |       |         |        |       |       |       |       |       |       |       |       |       |     |     |     |       |       |      |     |       |
|----------------|------|-------|-------|-------|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|-------|-------|------|-----|-------|
|                | 117" | 120-1 | 120-3 | 120-6 | 120-11" | 120-13 | 128-1 | 128-3 | 128-6 | 130-1 | 130-2 | 131-1 | 135-1 | 135-6 | 137-1 | 140 | 162 | 212 | 212-1 | 212-2 | 219" | 245 | 273-1 |
| EVMSG10 2/0.75 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG10 3/1.5  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG10 4/2.2  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG10 5/2.2  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG10 6/2.2  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG10 7/3.0  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG10 8/3.0  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG10 9/4.0  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG10 10/4.0 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG10 11/4.0 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG10 12/5.5 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG10 14/5.5 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG10 15/5.5 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |
| EVMSG10 16/7.5 | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |
| EVMSG10 18/7.5 | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |
| EVMSG10 19/7.5 | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |
| EVMSG10 21/7.5 | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |
| EVMSG10 22/11  | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |
| EVMSG10 23/11  | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |

\* only for Oval flange (N)

128-6 / 135-6: with Aluminium coupling (see drawing pag.18)

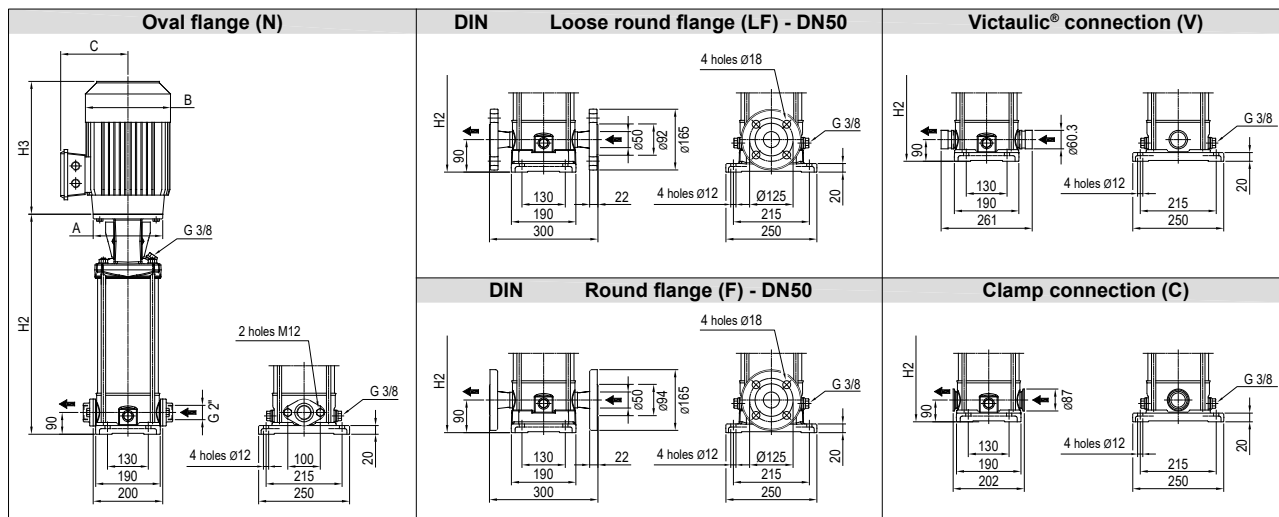
PERFORMANCE CURVE  
EVMS(L)15



Test standard: ISO 9906:2012 - Grade 3B

### TECHNICAL DATA EVMS(L)15

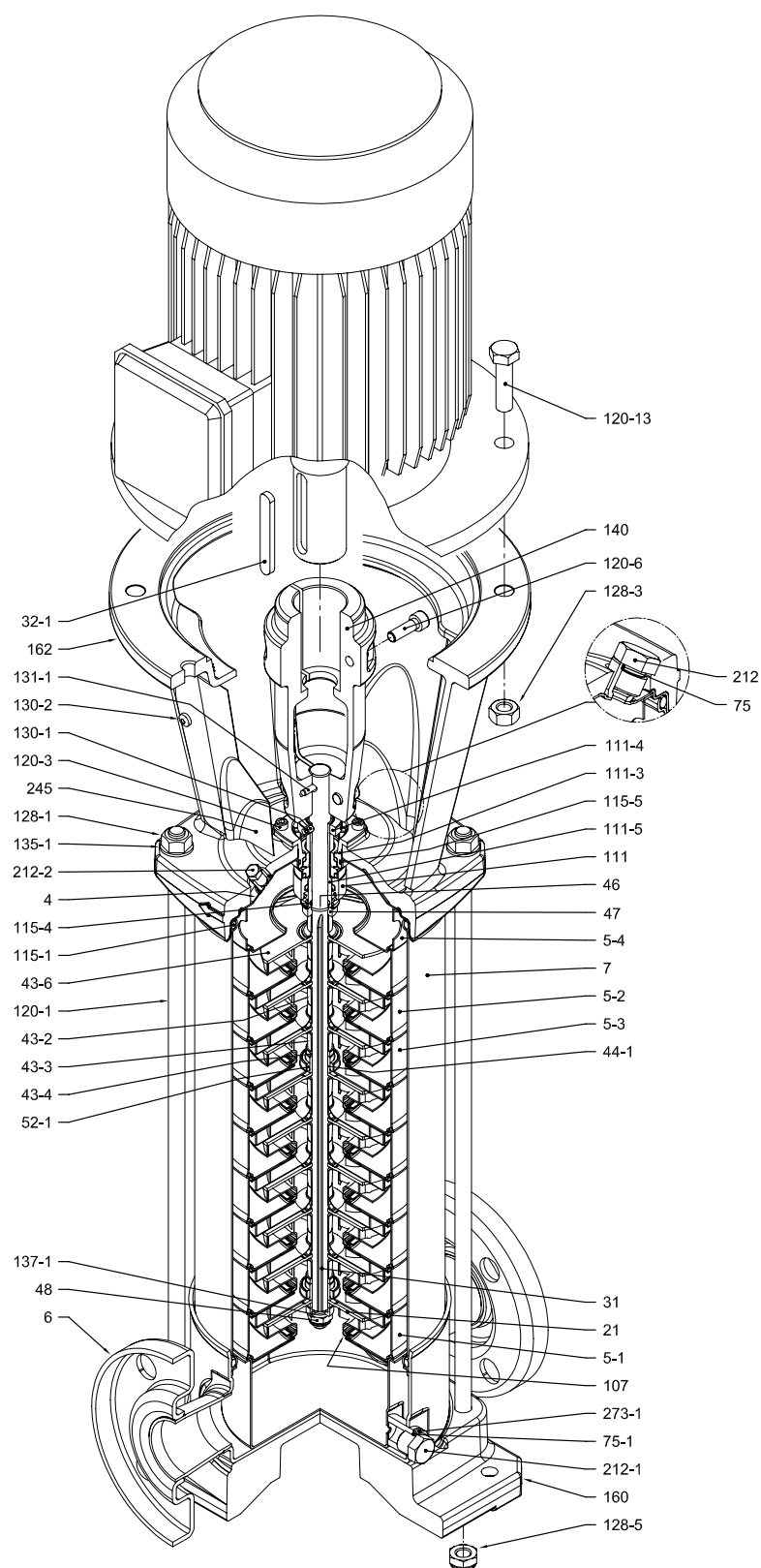
#### Dimensional sketch



#### Dimensions [mm] and Weights [Kg]

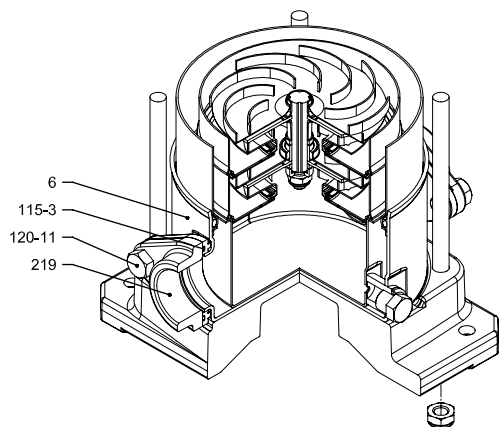
| Pump Type       | Pmax<br>[MPa] | Motor |      |     |     |     |     |     | Oval flange (N) |     |       |      |                |                           | Loose round flange (LF)<br>Round flange (F) |     |       |      |                |                           | Victaulic® connection (V)<br>Clamp connection (C) |     |       |      |                |                           |    |
|-----------------|---------------|-------|------|-----|-----|-----|-----|-----|-----------------|-----|-------|------|----------------|---------------------------|---------------------------------------------|-----|-------|------|----------------|---------------------------|---------------------------------------------------|-----|-------|------|----------------|---------------------------|----|
|                 |               | kW    | Size | 1~  |     |     | 3~  |     |                 | H2  | H2+H3 |      | Weight<br>Pump | Weight<br>Pump +<br>Motor |                                             | H2  | H2+H3 |      | Weight<br>Pump | Weight<br>Pump +<br>Motor |                                                   | H2  | H2+H3 |      | Weight<br>Pump | Weight<br>Pump +<br>Motor |    |
|                 |               |       |      | A   | B   | C   | B   | C   | 1~              |     | 3~    | 1~   |                | 3~                        | 1~                                          |     | 3~    | 1~   |                | 3~                        | 1~                                                |     | 3~    | 1~   |                | 3~                        | 1~ |
| EVMS(L)15 1/1.1 | 1.6           | 1.1   | 80   | 120 | 160 | 142 | 141 | 102 | 377             | 606 | 621   | 18.0 | 29.0           | 28.0                      | 377                                         | 606 | 621   | 18.8 | 29.8           | 28.8                      | 377                                               | 606 | 621   | 16.9 | 27.9           | 26.9                      |    |
| EVMS(L)15 2/2.2 | 1.6           | 2.2   | 90   | 140 | 172 | 140 | 160 | 119 | 387             | 665 | 678   | 18.3 | 37.8           | 33.3                      | 387                                         | 665 | 678   | 19.1 | 38.6           | 34.1                      | 387                                               | 665 | 678   | 17.2 | 36.7           | 32.2                      |    |
| EVMS(L)15 3/3.0 | 1.6           | 3.0   | 100  | 160 | -   | -   | 176 | 123 | 437             | -   | 779   | 19.6 | -              | 41.6                      | 437                                         | -   | 779   | 20.4 | -              | 42.4                      | 437                                               | -   | 779   | 18.5 | -              | 40.5                      |    |
| EVMS(L)15 4/4.0 | 1.6           | 4.0   | 112  | 160 | -   | -   | 193 | 138 | 477             | -   | 841   | 20.8 | -              | 49.3                      | 477                                         | -   | 841   | 21.6 | -              | 50.1                      | 477                                               | -   | 841   | 19.7 | -              | 48.2                      |    |
| EVMS(L)15 5/5.5 | 1.6           | 5.5   | 132  | 300 | -   | -   | 220 | 152 | 614             | -   | 1013  | 30.5 | -              | 69.5                      | 614                                         | -   | 1013  | 31.3 | -              | 70.3                      | 614                                               | -   | 1013  | 29.4 | -              | 68.4                      |    |
| EVMS(L)15 6/5.5 | 1.6           | 5.5   | 132  | 300 | -   | -   | 220 | 152 | 654             | -   | 1053  | 31.7 | -              | 70.7                      | 654                                         | -   | 1053  | 32.5 | -              | 71.5                      | 654                                               | -   | 1053  | 30.6 | -              | 69.6                      |    |
| EVMS(L)15 7/7.5 | 1.6           | 7.5   | 132  | 300 | -   | -   | 220 | 152 | 694             | -   | 1113  | 33.9 | -              | 79.9                      | 694                                         | -   | 1113  | 34.7 | -              | 80.7                      | 694                                               | -   | 1113  | 32.8 | -              | 78.8                      |    |
| EVMS(L)15 8/7.5 | 1.6           | 7.5   | 132  | 300 | -   | -   | 220 | 152 | 734             | -   | 1153  | 35.2 | -              | 81.2                      | 734                                         | -   | 1153  | 36.0 | -              | 82.0                      | 734                                               | -   | 1153  | 34.1 | -              | 80.1                      |    |
| EVMS(L)15 9/11  | 1.6           | 11    | 160  | 350 | -   | -   | 259 | 180 | 804             | -   | 1244  | 36.5 | -              | 99.0                      | 804                                         | -   | 1244  | 37.3 | -              | 99.8                      | 804                                               | -   | 1244  | 35.4 | -              | 97.9                      |    |
| EVMS(L)15 10/11 | 1.6           | 11    | 160  | 350 | -   | -   | 259 | 180 | 844             | -   | 1284  | 37.8 | -              | 100.3                     | 844                                         | -   | 1284  | 38.6 | -              | 101.1                     | 844                                               | -   | 1284  | 36.7 | -              | 99.2                      |    |
| EVMS(L)15 11/11 | 1.6           | 11    | 160  | 350 | -   | -   | 259 | 180 | 884             | -   | 1324  | 45.8 | -              | 108.3                     | 884                                         | -   | 1324  | 46.6 | -              | 109.1                     | 884                                               | -   | 1324  | 44.7 | -              | 107.2                     |    |
| EVMS(L)15 12/11 | 2.5           | 11    | 160  | 350 | -   | -   | 259 | 180 | -               | -   | -     | -    | -              | -                         | 924                                         | -   | 1364  | 47.9 | -              | 110.4                     | 924                                               | -   | 1364  | 46.0 | -              | 108.5                     |    |
| EVMS(L)15 13/11 | 2.5           | 11    | 160  | 350 | -   | -   | 259 | 180 | -               | -   | -     | -    | -              | -                         | 964                                         | -   | 1404  | 49.2 | -              | 111.7                     | 964                                               | -   | 1404  | 47.3 | -              | 109.8                     |    |
| EVMS(L)15 15/15 | 2.5           | 15    | 160  | 350 | -   | -   | 311 | 240 | -               | -   | -     | -    | -              | -                         | 1044                                        | -   | 1539  | 51.8 | -              | 152.8                     | 1044                                              | -   | 1539  | 49.9 | -              | 150.9                     |    |
| EVMS(L)15 17/15 | 2.5           | 15    | 160  | 350 | -   | -   | 311 | 240 | -               | -   | -     | -    | -              | -                         | 1124                                        | -   | 1619  | 54.7 | -              | 155.7                     | 1124                                              | -   | 1619  | 52.8 | -              | 153.8                     |    |

1.6 MPa=16 bar; 2.5 MPa=25 bar  
- not available model

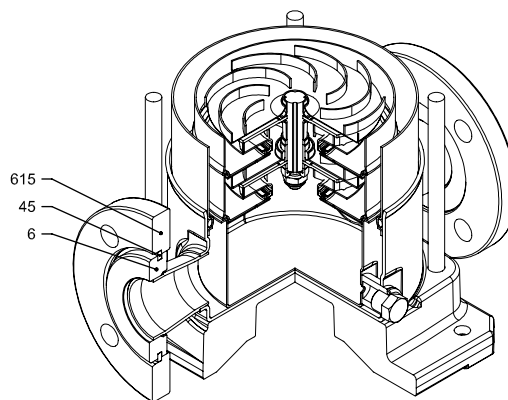
SECTIONAL VIEW  
EVMS(L)15

with Round flange (F)

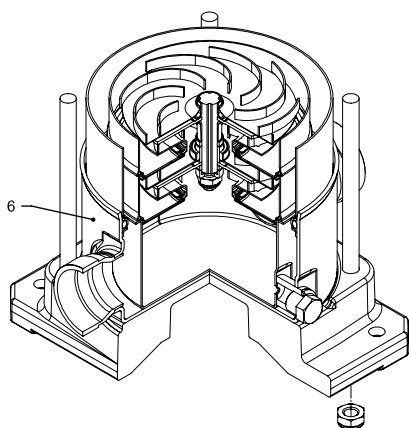
### PIPE CONNECTION EVMS(L)15



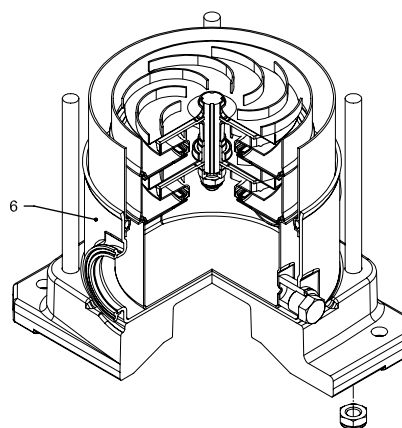
with Oval flange (N)



with Loose round flange (LF)



with Victaulic® connection (V)



with Clamp connection (C)



SECTIONAL TABLE  
EVMS(L)15

| N°     | PART NAME                                 |                       | MATERIAL                                        |                                                  | DIMENSIONS   | STANDARD |
|--------|-------------------------------------------|-----------------------|-------------------------------------------------|--------------------------------------------------|--------------|----------|
|        |                                           |                       | EVMS                                            | EVMSL                                            |              |          |
| 4      | Casing cover                              |                       | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                            |              |          |
| 5-1    | Suction casing                            |                       | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                            |              |          |
| 5-2    | Intermediate casing                       |                       | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                            |              |          |
| 5-3    | Intermediate casing with bearing          |                       | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                            |              |          |
| 5-4    | Discharge casing                          |                       | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                            |              |          |
| 6      | Bottom casing                             |                       | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                            |              |          |
| 7      | Outer casing                              |                       | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                            |              |          |
| 21     | Impeller                                  |                       | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                            |              |          |
| 31     | Shaft                                     |                       | EN 1.4301 (AISI 304) -<br>EN 1.4462 (AISI 329A) | EN 1.4404 (AISI 316L) -<br>EN 1.4462 (AISI 329A) |              |          |
| 32-1   | Adjuster key                              |                       | EN 1.4301 (AISI 304)                            |                                                  |              |          |
| 43-2   | Shaft sleeve (intermediate)               |                       | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                            |              |          |
| 43-3   | Shaft sleeve (bearing + discharge casing) |                       | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                            |              |          |
| 43-4   | Shaft sleeve (adjustment)                 |                       | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                            |              |          |
| 43-6   | Washer                                    |                       | EN 1.4404 (AISI 316L)                           |                                                  | Ø26x2.5      |          |
| 44-1   | Shaft sleeve bearing                      |                       | Tungsten carbide                                |                                                  |              |          |
| 45     | Flange holder                             |                       | EN 1.4301 (AISI 304)                            |                                                  |              |          |
| 46     | Ring (mechanical seal)                    |                       | EN 1.4404 (AISI 316L)                           |                                                  |              |          |
| 47     | Ring holder                               |                       | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                            |              |          |
| 48     | Impeller nut                              |                       | EN 1.4301 (AISI 304)<br>with inox insert        | EN 1.4401 (AISI 316)<br>with inox insert         | M10          |          |
| 52-1   | Sleeve bearing                            |                       | Tungsten carbide                                |                                                  |              |          |
| 75     | O-Ring (priming plug)                     |                       | EPDM / FPM                                      |                                                  | Ø12.37x2.62  | OR 3050  |
| 75-1   | O-Ring (drainage plug)                    |                       | EPDM / FPM                                      |                                                  |              |          |
| 107    | Liner ring                                |                       | EN 1.4301 (AISI 304) + PPS                      | EN 1.4404 (AISI 316L) + PPS                      |              |          |
| 111    | Mechanical seal                           |                       | see pages 6-7                                   |                                                  |              |          |
| 111-3  | Mechanical seal seat                      |                       | EN 1.4308 (ASTM CF8)                            | EN 1.4408 (ASTM CF8M)                            |              |          |
| 111-4  | Seal holder                               |                       | EN 1.4301 (AISI 304)                            |                                                  |              |          |
| 111-5  | Mechanical seal cartridge sleeve          |                       | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                            |              |          |
| 115-1  | O-Ring (outer casing)                     |                       | EPDM / FPM                                      |                                                  | Ø164.46x5.34 | OR 6945  |
| 115-3  | O-Ring                                    |                       | EPDM / FPM                                      |                                                  |              |          |
| 115-4  | O-Ring (cartridge sleeve)                 |                       | EPDM / FPM                                      |                                                  | Ø15.88x2.62  | OR 4093  |
| 115-5  | O-Ring (seal flange)                      |                       | EPDM / FPM                                      |                                                  | Ø37.77x2.62  | OR 4175  |
| 120-1  | Tie-rod                                   |                       | EN 1.4057 (AISI 431)                            |                                                  | M12          |          |
| 120-3  | Screw (seal flange)                       |                       | A2-70                                           |                                                  | M5x12        | ISO 4762 |
| 120-6  | Screw (pump coupling)                     | up to 4.0 kW          | Galvanized steel                                |                                                  | M6x25        | ISO 4762 |
|        |                                           | from 5.5 kW to 7.5 kW |                                                 |                                                  | M8x20        | ISO 4762 |
|        |                                           | above 11 kW           |                                                 |                                                  | M10x30       | ISO 4762 |
|        |                                           |                       |                                                 |                                                  |              |          |
| 120-11 | Screw (counterflange)                     |                       | A2-70                                           |                                                  |              |          |
| 120-13 | Screw for motor                           | MEC 80                | Galvanized steel 8.8 strength class ISO 898/1   |                                                  | M6x20        | ISO 4017 |
|        |                                           | MEC 90-100-112        |                                                 |                                                  | M8x20        | ISO 4017 |
|        |                                           | MEC 132               |                                                 |                                                  | M12x40       | ISO 4017 |
|        |                                           | MEC 160               |                                                 |                                                  | M16x50       | ISO 4017 |
| 128-1  | Nut (tie rod)                             |                       | A2-70                                           |                                                  | M12          | ISO 4032 |
| 128-3  | Nut (motor)                               | MEC 132               | Galvanized steel                                |                                                  | M12          | ISO 4032 |
|        |                                           | MEC 160               |                                                 |                                                  | M16          | ISO 4032 |
| 128-5  | Nut (tie rod)                             |                       | A2-70                                           |                                                  | M12          | UNI 7474 |
| 128-6  | Nut (aluminium coupling)                  |                       | Galvanized steel                                |                                                  | M6           | ISO 4032 |
| 130-1  | Set screw                                 |                       | EN 1.4301 (AISI 304)                            |                                                  | M5x8         | ISO 4026 |
| 130-2  | Screw for coupling guard                  |                       | A2-70                                           |                                                  | M5x6         | UNI 7687 |
| 131-1  | Pin for shaft                             |                       | Carbon Steel                                    |                                                  | Ø5x35        | ISO 2338 |
| 135-1  | Washer (tie rod)                          |                       | EN 1.4301 (AISI 304)                            |                                                  | Ø13x24x2.5   | ISO 7089 |
| 135-6  | Washer (aluminium coupling)               |                       | up to 4.0 kW                                    | Carbon Steel                                     | Ø6           |          |
| 137-1  | Impeller spacer                           |                       | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                            |              |          |
| 140    | Coupling                                  |                       | up to 4.0 kW                                    | Die cast Aluminium EN AB-AISI11 Cu2 (Fe)         |              |          |
|        |                                           |                       | above 5.5 kW                                    | Cast Iron                                        |              |          |
| 160    | Base                                      |                       | Die cast Aluminium EN AB-AISI11 Cu2 (Fe)        |                                                  |              |          |
| 162    | Motor bracket                             |                       | Cast iron EN-GJL-250                            |                                                  |              |          |
| 212    | Priming plug                              |                       | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                            | G 3/8        |          |
| 212-1  | Drainage plug                             |                       | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                            | G 3/8        |          |
| 212-2  | Venting plug                              |                       | EN 1.4404 (AISI 316L)                           |                                                  |              |          |
| 219    | Counter flange                            | flange type: N        | EN 1.4308 (ASTM CF8)                            | EN 1.4408 (ASTM CF8M)                            |              |          |
|        |                                           | flange type: LF-F-V-C | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                            |              |          |
| 245    | Coupling guard                            |                       | EN 1.4301 (AISI 304)                            |                                                  |              |          |
| 273-1  | Washer (drainage plug)                    |                       | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                            |              |          |
| 615    | Flange                                    |                       | Carbon Steel                                    |                                                  |              |          |

### QUANTITY FOR MODEL EVMS(L)15

| Pump Type       | N° |     |    |    |    |   |   |    |       |      |      |      |      |      |      |      |    |    |    |      |    |      |     |     |       |       |       |       |        |       |       |   |
|-----------------|----|-----|----|----|----|---|---|----|-------|------|------|------|------|------|------|------|----|----|----|------|----|------|-----|-----|-------|-------|-------|-------|--------|-------|-------|---|
|                 | 4  | 5-1 | 52 | 53 | 54 | 6 | 7 | 21 | 31*** | 32-1 | 43-2 | 43-3 | 43-4 | 43-6 | 44-1 | 45** | 46 | 47 | 48 | 52-1 | 75 | 75-1 | 107 | 111 | 111-3 | 111-4 | 111-5 | 115-1 | 115-3* | 115-4 | 115-5 |   |
| EVMS(L)15 1/1.1 | 1  | 1   | /  | 1  | 1  | 1 | 1 | 1  | 1     | 1    | /    | 1    | 1    | 1    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 1   | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1 |
| EVMS(L)15 2/2.2 | 1  | 1   | /  | 1  | 1  | 1 | 1 | 2  | 1     | 1    | /    | 1    | 1    | /    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 2   | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1 |
| EVMS(L)15 3/3.0 | 1  | 1   | 1  | 1  | 1  | 1 | 1 | 3  | 1     | 1    | 1    | 3    | 1    | /    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 3   | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1 |
| EVMS(L)15 4/4.0 | 1  | 1   | 2  | 1  | 1  | 1 | 1 | 4  | 1     | 1    | 2    | 5    | 1    | /    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 4   | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1 |
| EVMS(L)15 5/5.5 | 1  | 1   | 3  | 1  | 1  | 1 | 1 | 5  | 1     | 1    | 3    | 7    | 1    | /    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 5   | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1 |
| EVMS(L)15 6/5.5 | 1  | 1   | 4  | 1  | 1  | 1 | 1 | 6  | 1     | 1    | 4    | 9    | 1    | /    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 6   | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1 |
| EVMS(L)15 7/7.5 | 1  | 1   | 4  | 2  | 1  | 1 | 1 | 7  | 1     | 1    | 4    | 9    | 2    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 7   | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1 |
| EVMS(L)15 8/7.5 | 1  | 1   | 5  | 2  | 1  | 1 | 1 | 8  | 1     | 1    | 5    | 11   | 2    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 8   | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1 |
| EVMS(L)15 9/11  | 1  | 1   | 6  | 2  | 1  | 1 | 1 | 9  | 1     | 1    | 6    | 13   | 2    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 9   | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1 |
| EVMS(L)15 10/11 | 1  | 1   | 7  | 2  | 1  | 1 | 1 | 10 | 1     | 1    | 7    | 15   | 2    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 10  | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1 |
| EVMS(L)15 11/11 | 1  | 1   | 8  | 2  | 1  | 1 | 1 | 11 | 1     | 1    | 8    | 17   | 2    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 11  | 1   | 1     | 1     | 1     | 1     | 2      | 2     | 1     | 1 |
| EVMS(L)15 12/11 | 1  | 1   | 9  | 2  | 1  | 1 | 1 | 12 | 1     | 1    | 9    | 19   | 2    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 12  | 1   | 1     | 1     | 1     | 1     | 2      | /     | 1     | 1 |
| EVMS(L)15 13/11 | 1  | 1   | 10 | 2  | 1  | 1 | 1 | 13 | 1     | 1    | 10   | 21   | 2    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 13  | 1   | 1     | 1     | 1     | 1     | 2      | /     | 1     | 1 |
| EVMS(L)15 15/15 | 1  | 1   | 12 | 2  | 1  | 1 | 1 | 15 | 1     | 1    | 12   | 25   | 2    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 15  | 1   | 1     | 1     | 1     | 1     | 2      | /     | 1     | 1 |
| EVMS(L)15 17/15 | 1  | 1   | 13 | 3  | 1  | 1 | 1 | 17 | 1     | 1    | 13   | 27   | 3    | /    | 3    | 4    | 2  | 1  | 1  | 3    | 1  | 2    | 17  | 1   | 1     | 1     | 1     | 1     | 2      | /     | 1     | 1 |

| Pump Type       | N°    |       |       |         |        |       |       |       |       |       |       |       |       |       |       |     |     |     |     |       |       |      |     |       |       |  |  |  |
|-----------------|-------|-------|-------|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|-----|-------|-------|------|-----|-------|-------|--|--|--|
|                 | 120-1 | 120-3 | 120-6 | 120-11* | 120-13 | 128-1 | 128-3 | 128-5 | 128-6 | 130-1 | 130-2 | 131-1 | 135-1 | 135-6 | 137-1 | 140 | 160 | 162 | 212 | 212-1 | 212-2 | 219* | 245 | 273-1 | 615** |  |  |  |
| EVMS(L)15 1/1.1 | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |  |  |  |
| EVMS(L)15 2/2.2 | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |  |  |  |
| EVMS(L)15 3/3.0 | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |  |  |  |
| EVMS(L)15 4/4.0 | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |  |  |  |
| EVMS(L)15 5/5.5 | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |  |  |  |
| EVMS(L)15 6/5.5 | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |  |  |  |
| EVMS(L)15 7/7.5 | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |  |  |  |
| EVMS(L)15 8/7.5 | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |  |  |  |
| EVMS(L)15 9/11  | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |  |  |  |
| EVMS(L)15 10/11 | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |  |  |  |
| EVMS(L)15 11/11 | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |  |  |  |
| EVMS(L)15 12/11 | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |  |  |  |
| EVMS(L)15 13/11 | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |  |  |  |
| EVMS(L)15 15/15 | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |  |  |  |
| EVMS(L)15 17/15 | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |  |  |  |

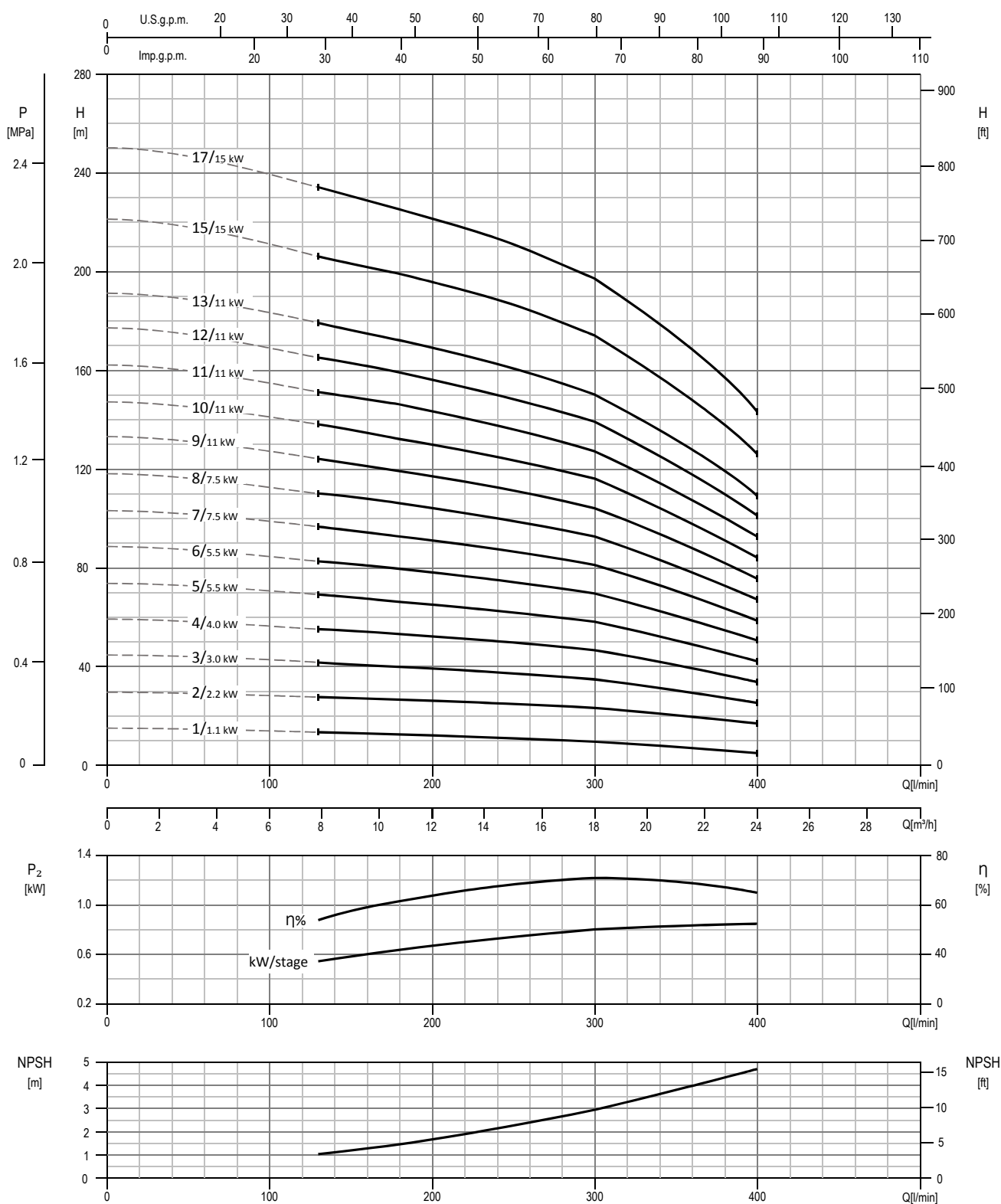
\* only for Oval flange (N)

\*\* only for Loose round flange (LF)

\*\*  shaft in EN 1.4462 (AISI 329A)

128-6 / 135-6: with Aluminium coupling (see drawing pag.18)

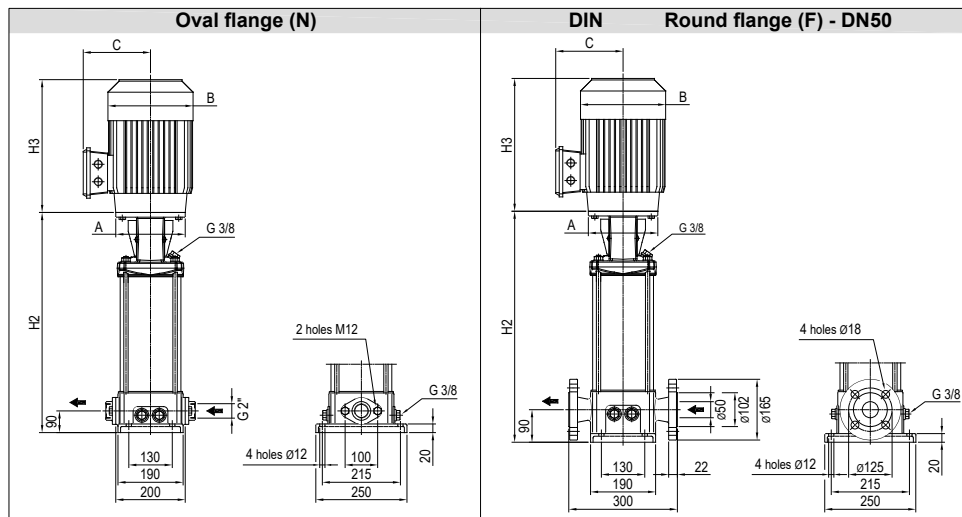
PERFORMANCE CURVE  
EVMSG15



Test standard: ISO 9906:2012 - Grade 3B

### TECHNICAL DATA EVMSG15

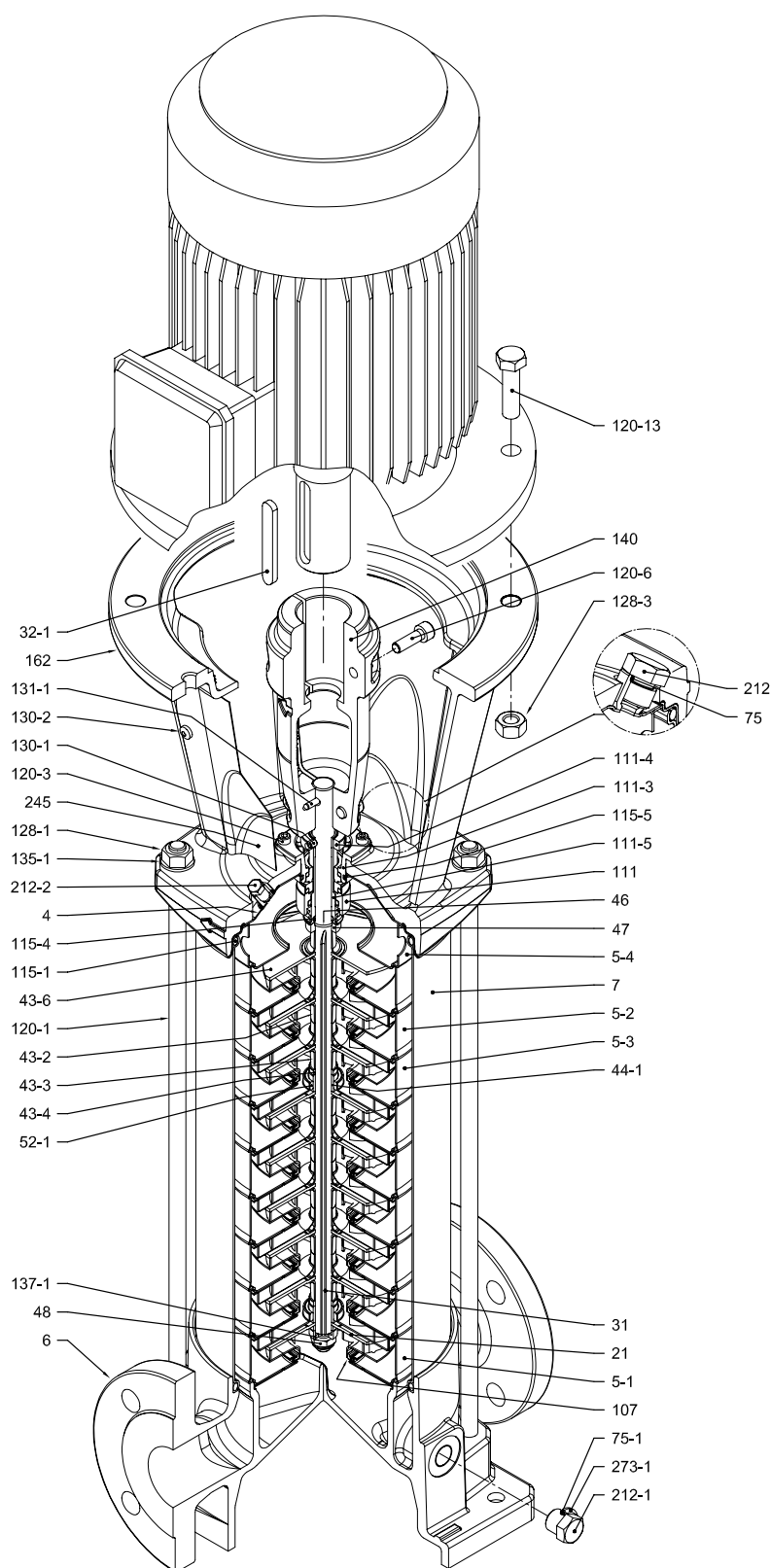
#### Dimensional sketch



#### Dimensions [mm] and Weights [Kg]

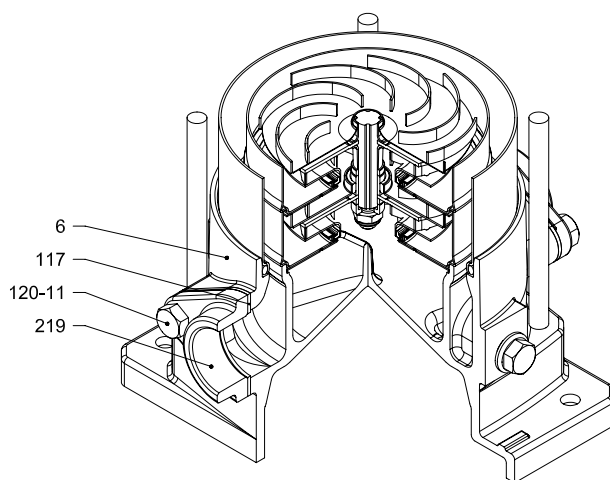
| Pump Type     |     | Pmax<br>[MPa] | Motor |      |        |     |     |     | Oval flange (N) |     |       |      |                |                           | Round flange (F) |     |       |      |                |                           |    |
|---------------|-----|---------------|-------|------|--------|-----|-----|-----|-----------------|-----|-------|------|----------------|---------------------------|------------------|-----|-------|------|----------------|---------------------------|----|
|               |     |               | kW    | Size | A<br>Ø | 1~  |     | 3~  |                 | H2  | H2+H3 |      | Weight<br>Pump | Weight<br>Pump +<br>Motor |                  | H2  | H2+H3 |      | Weight<br>Pump | Weight<br>Pump +<br>Motor |    |
|               |     |               |       |      |        | B   | C   | B   | C               |     | 1~    | 3~   |                | 1~                        | 3~               |     | 1~    | 3~   |                | 1~                        | 3~ |
| EVMSG15 1/1.1 | 1.6 | 1.1           | 80    | 120  | 160    | 142 | 141 | 102 | 377             | 606 | 621   | 22.4 | 33.4           | 32.4                      | 377              | 606 | 621   | 26.9 | 37.9           | 36.9                      |    |
| EVMSG15 2/2.2 | 1.6 | 2.2           | 90    | 140  | 172    | 140 | 160 | 119 | 387             | 665 | 678   | 22.6 | 42.1           | 37.6                      | 387              | 665 | 678   | 27.2 | 46.7           | 42.2                      |    |
| EVMSG15 3/3.0 | 1.6 | 3.0           | 100   | 160  | -      | -   | 176 | 123 | 437             | -   | 779   | 24.0 | -              | 46.0                      | 437              | -   | 779   | 28.5 | -              | 50.5                      |    |
| EVMSG15 4/4.0 | 1.6 | 4.0           | 112   | 160  | -      | -   | 193 | 138 | 477             | -   | 841   | 25.2 | -              | 53.7                      | 477              | -   | 841   | 29.7 | -              | 58.2                      |    |
| EVMSG15 5/5.5 | 1.6 | 5.5           | 132   | 300  | -      | -   | 220 | 152 | 614             | -   | 1013  | 34.9 | -              | 73.9                      | 614              | -   | 1013  | 39.5 | -              | 78.5                      |    |
| EVMSG15 6/5.5 | 1.6 | 5.5           | 132   | 300  | -      | -   | 220 | 152 | 654             | -   | 1053  | 36.1 | -              | 75.1                      | 654              | -   | 1053  | 40.7 | -              | 79.7                      |    |
| EVMSG15 7/7.5 | 1.6 | 7.5           | 132   | 300  | -      | -   | 220 | 152 | 694             | -   | 1113  | 38.3 | -              | 84.3                      | 694              | -   | 1113  | 42.9 | -              | 88.9                      |    |
| EVMSG15 8/7.5 | 1.6 | 7.5           | 132   | 300  | -      | -   | 220 | 152 | 734             | -   | 1153  | 39.6 | -              | 85.6                      | 734              | -   | 1153  | 44.2 | -              | 90.2                      |    |
| EVMSG15 9/11  | 1.6 | 11            | 160   | 350  | -      | -   | 259 | 180 | 804             | -   | 1244  | 40.9 | -              | 103.4                     | 804              | -   | 1244  | 45.5 | -              | 108.0                     |    |
| EVMSG15 10/11 | 1.6 | 11            | 160   | 350  | -      | -   | 259 | 180 | 844             | -   | 1284  | 42.2 | -              | 104.7                     | 844              | -   | 1284  | 46.8 | -              | 109.3                     |    |
| EVMSG15 11/11 | 1.6 | 11            | 160   | 350  | -      | -   | 259 | 180 | 884             | -   | 1324  | 50.2 | -              | 112.7                     | 884              | -   | 1324  | 54.7 | -              | 117.2                     |    |
| EVMSG15 12/11 | 2.5 | 11            | 160   | 350  | -      | -   | 259 | 180 | -               | -   | -     | -    | -              | -                         | 924              | -   | 1364  | 56.0 | -              | 118.5                     |    |
| EVMSG15 13/11 | 2.5 | 11            | 160   | 350  | -      | -   | 259 | 180 | -               | -   | -     | -    | -              | -                         | 964              | -   | 1404  | 57.3 | -              | 119.8                     |    |
| EVMSG15 15/15 | 2.5 | 15            | 160   | 350  | -      | -   | 311 | 240 | -               | -   | -     | -    | -              | -                         | 1044             | -   | 1539  | 59.9 | -              | 160.9                     |    |
| EVMSG15 17/15 | 2.5 | 15            | 160   | 350  | -      | -   | 311 | 240 | -               | -   | -     | -    | -              | -                         | 1124             | -   | 1619  | 62.8 | -              | 163.8                     |    |

1.6 MPa=16 bar; 2.5 MPa=25 bar  
- not available model

SECTIONAL VIEW  
EVMSG15

with Round flange (F)

### PIPE CONNECTION EVMSG15



with Oval flange (N)

SECTIONAL TABLE  
EVMSG15

| N°     | PART NAME                                 | MATERIAL<br>EVMSG                             | DIMENSIONS            | STANDARD |          |
|--------|-------------------------------------------|-----------------------------------------------|-----------------------|----------|----------|
| 4      | Casing cover                              | EN 1.4301 (AISI 304)                          |                       |          |          |
| 5-1    | Suction casing                            | EN 1.4301 (AISI 304)                          |                       |          |          |
| 5-2    | Intermediate casing                       | EN 1.4301 (AISI 304)                          |                       |          |          |
| 5-3    | Intermediate casing with bearing          | EN 1.4301 (AISI 304)                          |                       |          |          |
| 5-4    | Discharge casing                          | EN 1.4301 (AISI 304)                          |                       |          |          |
| 6      | Bottom casing                             | Cast Iron EN-GJL-250                          |                       |          |          |
| 7      | Outer casing                              | EN 1.4301 (AISI 304)                          |                       |          |          |
| 21     | Impeller                                  | EN 1.4301 (AISI 304)                          |                       |          |          |
| 31     | Shaft                                     | EN 1.4301 (AISI 304) - EN 1.4462 (AISI 329A)  |                       |          |          |
| 32-1   | Adjuster key                              | EN 1.4301 (AISI 304)                          |                       |          |          |
| 43-2   | Shaft sleeve (intermediate)               | EN 1.4301 (AISI 304)                          |                       |          |          |
| 43-3   | Shaft sleeve (bearing + discharge casing) | EN 1.4301 (AISI 304)                          |                       |          |          |
| 43-4   | Shaft sleeve (adjustment)                 | EN 1.4301 (AISI 304)                          |                       |          |          |
| 43-6   | Washer                                    | EN 1.4404 (AISI 316L)                         | Ø26x2.5               |          |          |
| 44-1   | Shaft sleeve bearing                      | Tungsten carbide                              |                       |          |          |
| 46     | Ring (mechanical seal)                    | EN 1.4404 (AISI 316L)                         |                       |          |          |
| 47     | Ring holder                               | EN 1.4404 (AISI 316L)                         |                       |          |          |
| 48     | Impeller nut                              | EN 1.4301 (AISI 304) with inox insert         | M10                   |          |          |
| 52-1   | Sleeve bearing                            | Tungsten carbide                              |                       |          |          |
| 75     | O-Ring (priming plug)                     | EPDM / FPM                                    | Ø12.37x2.62           | OR 3050  |          |
| 75-1   | O-Ring (drainage plug)                    | EPDM / FPM                                    |                       |          |          |
| 107    | Liner ring                                | EN 1.4301 (AISI 304) + PPS                    |                       |          |          |
| 111    | Mechanical seal                           | see pages 6-7                                 |                       |          |          |
| 111-3  | Mechanical seal seat                      | EN 1.4308 (ASTM CF8)                          |                       |          |          |
| 111-4  | Seal holder                               | EN 1.4301 (AISI 304)                          |                       |          |          |
| 111-5  | Mechanical seal cartridge sleeve          | EN 1.4301 (AISI 304)                          |                       |          |          |
| 115-1  | O-Ring (outer casing)                     | EPDM / FPM                                    | Ø164.46x5.34          | OR 6945  |          |
| 115-4  | O-Ring (cartridge sleeve)                 | EPDM / FPM                                    | Ø15.88x2.62           | OR 4093  |          |
| 115-5  | O-Ring (seal flange)                      | EPDM / FPM                                    | Ø37.77x2.62           | OR 4175  |          |
| 117    | Flange gasket                             | EPDM / FPM                                    |                       |          |          |
| 120-1  | Tie-rod                                   | EN 1.4057 (AISI 431)                          | M12                   |          |          |
| 120-3  | Screw (seal flange)                       | A2-70                                         | M5x12                 | ISO 4762 |          |
| 120-6  | Screw (pump coupling)                     | Galvanized steel 6.8 strenght class ISO 898/1 | up to 4.0 kW          | M6x25    | ISO 4762 |
|        |                                           |                                               | from 5.5 kW to 7.5 kW | M8x20    | ISO 4762 |
|        |                                           |                                               | above 11 kW           | M10x30   | ISO 4762 |
| 120-11 | Screw (counterflange)                     | A2-70                                         |                       |          |          |
| 120-13 | Screw for motor                           | Galvanized steel 8.8 strength class ISO 898/1 | MEC 80                | M6x20    | ISO 4017 |
|        |                                           |                                               | MEC 90-100-112        | M8x20    | ISO 4017 |
|        |                                           |                                               | MEC 132               | M12x40   | ISO 4017 |
|        |                                           |                                               | MEC 160               | M16x50   | ISO 4017 |
| 128-1  | Nut (tie rod)                             | A2-70                                         | M12                   | ISO 4032 |          |
| 128-3  | Nut (motor)                               | Galvanized steel                              | MEC 132               | M12      | ISO 4032 |
|        |                                           |                                               | MEC 160               | M16      | ISO 4032 |
| 128-6  | Nut (aluminium coupling)                  | Galvanized steel                              | M6                    | ISO 4032 |          |
| 130-1  | Set screw                                 | EN 1.4301 (AISI 304)                          | M5x8                  | ISO 4026 |          |
| 130-2  | Screw for coupling guard                  | A2-70                                         | M5x6                  | UNI 7687 |          |
| 131-1  | Pin for shaft                             | Carbon Steel                                  | Ø5x35                 | ISO 2338 |          |
| 135-1  | Washer (tie rod)                          | EN 1.4301 (AISI 304)                          | Ø13x24x2.5            | ISO 7089 |          |
| 135-6  | Washer (aluminium coupling)               | Carbon Steel                                  | Ø6                    |          |          |
| 137-1  | Impeller spacer                           | EN 1.4301 (AISI 304)                          |                       |          |          |
| 140    | Coupling                                  | Die cast Aluminium EN AB-AISI11Cu2 (Fe)       | up to 4.0 kW          |          |          |
|        |                                           | Cast Iron                                     | above 5.5 kW          |          |          |
| 162    | Motor bracket                             | Cast iron EN-GJL-250                          |                       |          |          |
| 212    | Priming plug                              | EN 1.4301 (AISI 304)                          | G 3/8                 |          |          |
| 212-1  | Drainage plug                             | EN 1.4301 (AISI 304)                          | G 3/8                 |          |          |
| 212-2  | Venting plug                              | EN 1.4404 (AISI 316L)                         |                       |          |          |
| 219    | Counter flange                            | Galvanized steel                              | flange type: N        |          |          |
|        |                                           | Cast Iron EN-GJL-250                          | flange type: F        |          |          |
| 245    | Coupling guard                            | EN 1.4301 (AISI 304)                          |                       |          |          |
| 273-1  | Washer (drainage plug)                    | EN 1.4301 (AISI 304)                          |                       |          |          |



### QUANTITY FOR MODEL EVMSG15

| Pump Type     | N° |     |    |    |    |   |   |    |       |      |     |     |     |      |      |    |    |    |      |    |      |     |     |       |       |       |       |       |       |   |
|---------------|----|-----|----|----|----|---|---|----|-------|------|-----|-----|-----|------|------|----|----|----|------|----|------|-----|-----|-------|-------|-------|-------|-------|-------|---|
|               | 4  | 5-1 | 52 | 53 | 54 | 6 | 7 | 21 | 31*** | 32-1 | 432 | 433 | 434 | 43-6 | 44-1 | 46 | 47 | 48 | 52-1 | 75 | 75-1 | 107 | 111 | 111-3 | 111-4 | 111-5 | 115-1 | 115-4 | 115-5 |   |
| EVMSG15 1/1.1 | 1  | 1   | /  | 1  | 1  | 1 | 1 | 1  | 1     | 1    | /   | 2   | 1   | 1    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 1   | 1   | 1     | 1     | 1     | 1     | 2     | 1     | 1 |
| EVMSG15 2/2.2 | 1  | 1   | /  | 1  | 1  | 1 | 1 | 2  | 1     | 1    | /   | 2   | 1   | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 2   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |   |
| EVMSG15 3/3.0 | 1  | 1   | 1  | 1  | 1  | 1 | 1 | 3  | 1     | 1    | 1   | 2   | 1   | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 3   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |   |
| EVMSG15 4/4.0 | 1  | 1   | 2  | 1  | 1  | 1 | 1 | 4  | 1     | 1    | 2   | 2   | 1   | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 4   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |   |
| EVMSG15 5/5.5 | 1  | 1   | 3  | 1  | 1  | 1 | 1 | 5  | 1     | 1    | 3   | 2   | 1   | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 5   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |   |
| EVMSG15 6/5.5 | 1  | 1   | 4  | 1  | 1  | 1 | 1 | 6  | 1     | 1    | 4   | 2   | 1   | /    | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 6   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |   |
| EVMSG15 7/7.5 | 1  | 1   | 4  | 2  | 1  | 1 | 1 | 7  | 1     | 1    | 4   | 3   | 2   | /    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 7   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |   |
| EVMSG15 8/7.5 | 1  | 1   | 5  | 2  | 1  | 1 | 1 | 8  | 1     | 1    | 5   | 3   | 2   | /    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 8   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |   |
| EVMSG15 9/11  | 1  | 1   | 6  | 2  | 1  | 1 | 1 | 9  | 1     | 1    | 6   | 3   | 2   | /    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 9   | 1   | 1     | 1     | 1     | 2     | 1     | 1     |   |
| EVMSG15 10/11 | 1  | 1   | 7  | 2  | 1  | 1 | 1 | 10 | 1     | 1    | 7   | 3   | 2   | /    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 10  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |   |
| EVMSG15 11/11 | 1  | 1   | 8  | 2  | 1  | 1 | 1 | 11 | 1     | 1    | 8   | 3   | 2   | /    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 11  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |   |
| EVMSG15 12/11 | 1  | 1   | 9  | 2  | 1  | 1 | 1 | 12 | 1     | 1    | 9   | 3   | 2   | /    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 12  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |   |
| EVMSG15 13/11 | 1  | 1   | 10 | 2  | 1  | 1 | 1 | 13 | 1     | 1    | 10  | 3   | 2   | /    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 13  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |   |
| EVMSG15 15/15 | 1  | 1   | 12 | 2  | 1  | 1 | 1 | 15 | 1     | 1    | 12  | 3   | 2   | /    | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 15  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |   |
| EVMSG15 17/15 | 1  | 1   | 13 | 3  | 1  | 1 | 1 | 17 | 1     | 1    | 13  | 4   | 3   | /    | 3    | 2  | 1  | 1  | 3    | 1  | 4    | 17  | 1   | 1     | 1     | 1     | 2     | 1     | 1     |   |

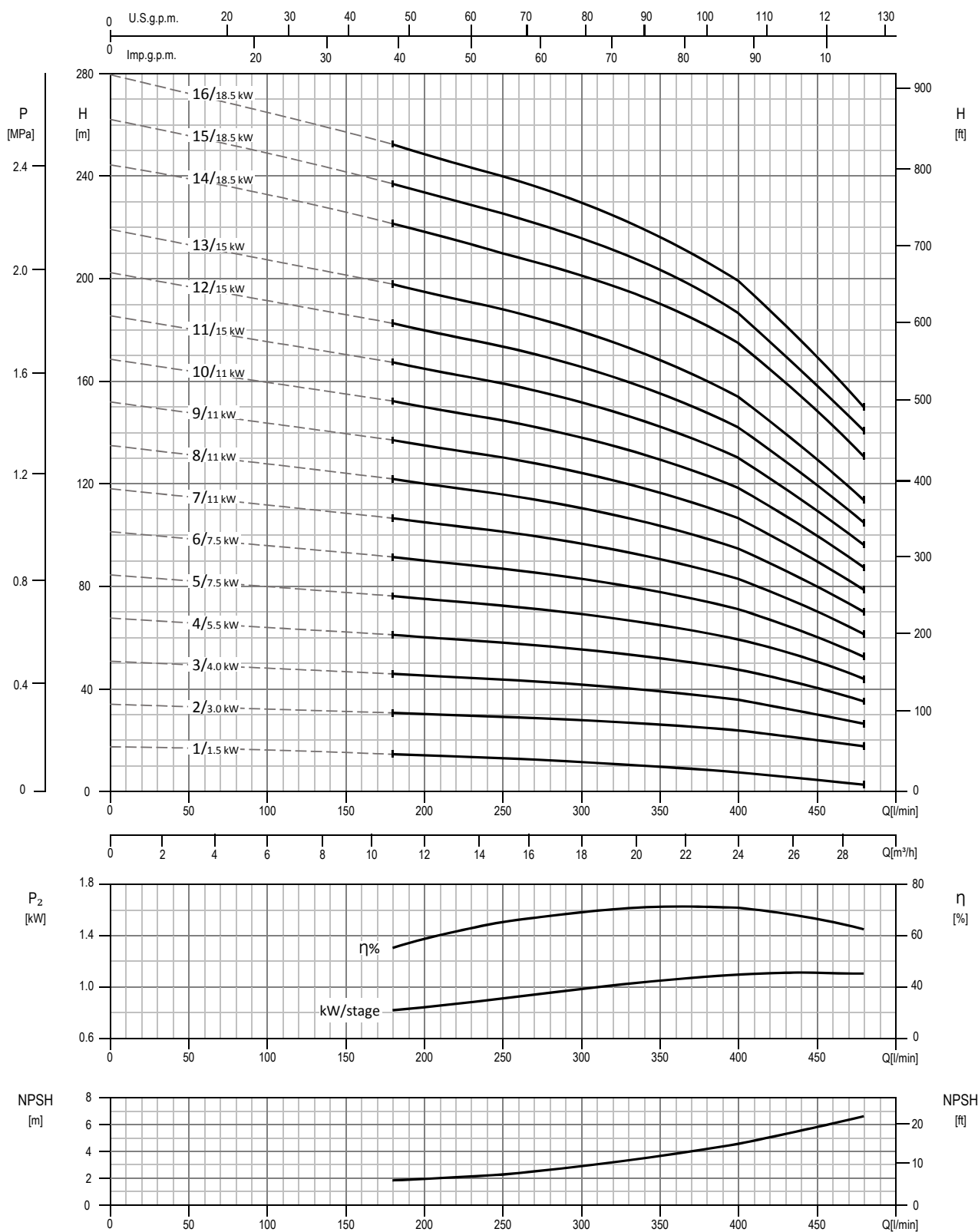
| Pump Type     | N°   |       |       |       |         |        |       |       |       |       |       |       |       |       |       |     |     |     |       |       |      |     |       |  |
|---------------|------|-------|-------|-------|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|-------|-------|------|-----|-------|--|
|               | 117* | 120-1 | 120-3 | 120-6 | 120-11* | 120-13 | 128-1 | 128-3 | 128-6 | 130-1 | 130-2 | 131-1 | 135-1 | 135-6 | 137-1 | 140 | 162 | 212 | 212-1 | 212-2 | 219* | 245 | 273-1 |  |
| EVMSG15 1/1.1 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |
| EVMSG15 2/2.2 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |
| EVMSG15 3/3.0 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |
| EVMSG15 4/4.0 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |
| EVMSG15 5/5.5 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |
| EVMSG15 6/5.5 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |
| EVMSG15 7/7.5 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |
| EVMSG15 8/7.5 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |
| EVMSG15 9/11  | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |
| EVMSG15 10/11 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |
| EVMSG15 11/11 | 2    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   | 4     |  |
| EVMSG15 12/11 | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |  |
| EVMSG15 13/11 | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |  |
| EVMSG15 15/15 | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |  |
| EVMSG15 17/15 | /    | 4     | 4     | 4     | /       | 4      | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   | 4     |  |

\* only for Oval flange (N)

\*\*\*  shaft in EN 1.4462 (AISI 329A)

128-6 / 135-6: with Aluminium coupling (see drawing pag.18)

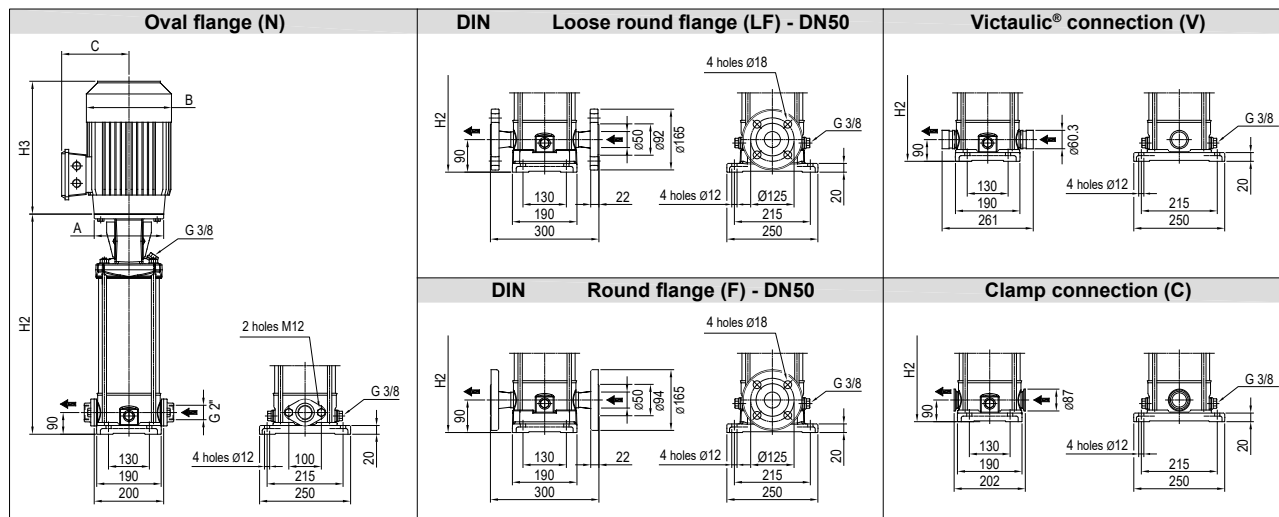
PERFORMANCE CURVE  
EVMS(L)20



Test standard: ISO 9906:2012 - Grade 3B

### TECHNICAL DATA EVMS(L)20

#### Dimensional sketch

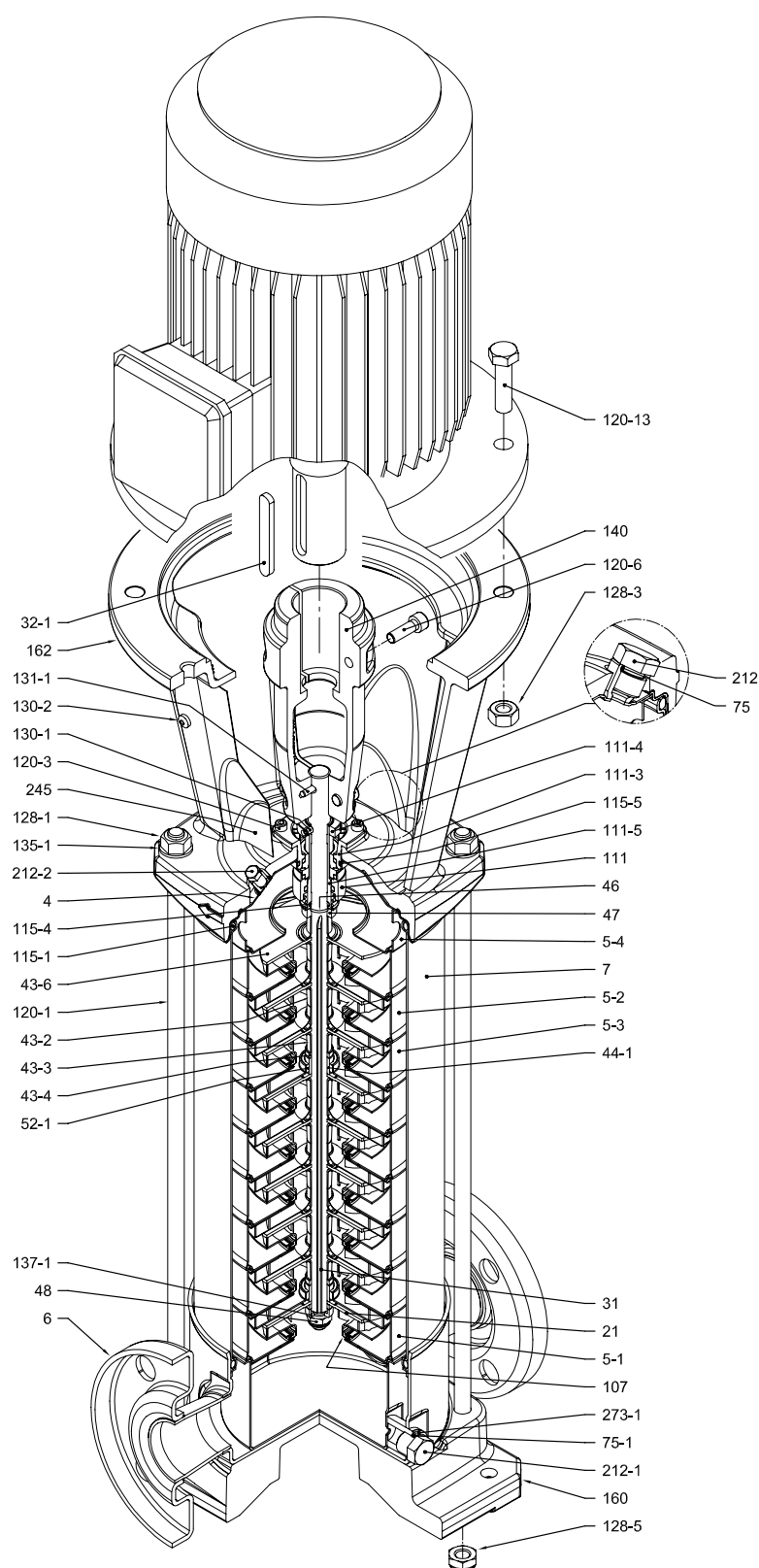


#### Dimensions [mm] and Weights [Kg]

| Pump Type |  | Pmax<br>[MPa] | Motor |  |      |    |   |   |    |   | Oval flange (N) |    |  |       |  |                | Loose round flange (LF)<br>Round flange (F) |    |  |       |  |                | Victaulic® connection (V)<br>Clamp connection (C) |    |  |       |  |                |                           |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|           |  |               | kW    |  | Size | 1~ |   |   | 3~ |   |                 | H2 |  | H2+H3 |  | Weight<br>Pump | Weight<br>Pump +<br>Motor                   | H2 |  | H2+H3 |  | Weight<br>Pump | Weight<br>Pump +<br>Motor                         | H2 |  | H2+H3 |  | Weight<br>Pump | Weight<br>Pump +<br>Motor |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|           |  |               |       |  |      | A  | B | C | B  | C | 1~              |    |  |       |  |                |                                             |    |  |       |  |                |                                                   |    |  |       |  |                |                           | 3~ | 1~ | 3~ | 1~ | 3~ | 1~ | 3~ | 1~ | 3~ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|           |  |               |       |  | Ø    |    |   |   |    |   |                 |    |  |       |  |                |                                             |    |  |       |  |                |                                                   |    |  |       |  |                |                           |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

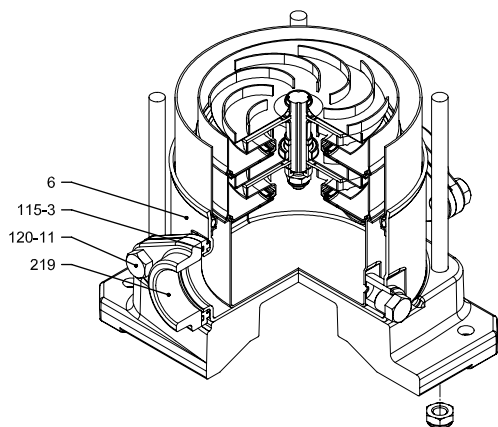
1.6 MPa=16 bar; 2.5 MPa=25 bar  
- not available model

# SECTIONAL VIEW EVMS(L)20

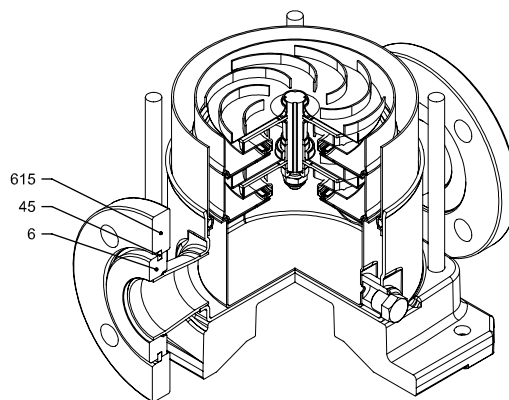


with Round flange (F)

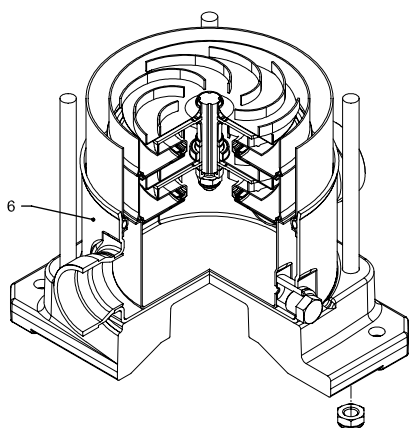
### PIPE CONNECTION EVMS(L)20



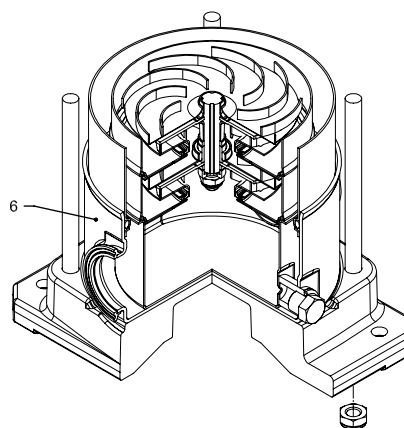
with Oval flange (N)



with Loose round flange (LF)



with Victaulic® connection (V)



with Clamp connection (C)

SECTIONAL TABLE  
EVMS(L)20

| N°     | PART NAME                                 |                       | MATERIAL                                        |                                                  | DIMENSIONS   | STANDARD |
|--------|-------------------------------------------|-----------------------|-------------------------------------------------|--------------------------------------------------|--------------|----------|
|        |                                           |                       | EVMS                                            | EVMSL                                            |              |          |
| 4      | Casing cover                              |                       | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                            |              |          |
| 5-1    | Suction casing                            |                       | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                            |              |          |
| 5-2    | Intermediate casing                       |                       | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                            |              |          |
| 5-3    | Intermediate casing with bearing          |                       | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                            |              |          |
| 5-4    | Discharge casing                          |                       | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                            |              |          |
| 6      | Bottom casing                             |                       | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                            |              |          |
| 7      | Outer casing                              |                       | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                            |              |          |
| 21     | Impeller                                  |                       | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                            |              |          |
| 31     | Shaft                                     |                       | EN 1.4301 (AISI 304) -<br>EN 1.4462 (AISI 329A) | EN 1.4404 (AISI 316L) -<br>EN 1.4462 (AISI 329A) |              |          |
| 32-1   | Adjuster key                              |                       | EN 1.4301 (AISI 304)                            |                                                  |              |          |
| 43-2   | Shaft sleeve (intermediate)               |                       | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                            |              |          |
| 43-3   | Shaft sleeve (bearing + discharge casing) |                       | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                            |              |          |
| 43-4   | Shaft sleeve (adjustment)                 |                       | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                            |              |          |
| 43-6   | Washer                                    |                       | EN 1.4404 (AISI 316L)                           |                                                  | Ø26x2.5      |          |
| 44-1   | Shaft sleeve bearing                      |                       | Tungsten carbide                                |                                                  |              |          |
| 45     | Flange holder                             |                       | EN 1.4301 (AISI 304)                            |                                                  |              |          |
| 46     | Ring (mechanical seal)                    |                       | EN 1.4404 (AISI 316L)                           |                                                  |              |          |
| 47     | Ring holder                               |                       | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                            |              |          |
| 48     | Impeller nut                              |                       | EN 1.4301 (AISI 304)<br>with inox insert        | EN 1.4401 (AISI 316)<br>with inox insert         | M10          |          |
| 52-1   | Sleeve bearing                            |                       | Tungsten carbide                                |                                                  |              |          |
| 75     | O-Ring (priming plug)                     |                       | EPDM / FPM                                      |                                                  | Ø12.37x2.62  | OR 3050  |
| 75-1   | O-Ring (drainage plug)                    |                       | EPDM / FPM                                      |                                                  |              |          |
| 107    | Liner ring                                |                       | EN 1.4301 (AISI 304) + PPS                      | EN 1.4404 (AISI 316L) + PPS                      |              |          |
| 111    | Mechanical seal                           |                       | see pages 6-7                                   |                                                  |              |          |
| 111-3  | Mechanical seal seat                      |                       | EN 1.4308 (ASTM CF8)                            | EN 1.4408 (ASTM CF8M)                            |              |          |
| 111-4  | Seal holder                               |                       | EN 1.4301 (AISI 304)                            |                                                  |              |          |
| 111-5  | Mechanical seal cartridge sleeve          |                       | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                            |              |          |
| 115-1  | O-Ring (outer casing)                     |                       | EPDM / FPM                                      |                                                  | Ø164.46x5.34 | OR 6945  |
| 115-3  | O-Ring                                    |                       | EPDM / FPM                                      |                                                  |              |          |
| 115-4  | O-Ring (cartridge sleeve)                 |                       | EPDM / FPM                                      |                                                  | Ø15.88x2.62  | OR 4093  |
| 115-5  | O-Ring (seal flange)                      |                       | EPDM / FPM                                      |                                                  | Ø37.77x2.62  | OR 4175  |
| 120-1  | Tie-rod                                   |                       | EN 1.4057 (AISI 431)                            |                                                  | M12          |          |
| 120-3  | Screw (seal flange)                       |                       | A2-70                                           |                                                  | M5x12        | ISO 4762 |
| 120-6  | Screw (pump coupling)                     | up to 4.0 kW          | Galvanized steel                                |                                                  | M6x25        | ISO 4762 |
|        |                                           | from 5.5 kW to 7.5 kW |                                                 |                                                  | M8x20        | ISO 4762 |
|        |                                           | above 11 kW           |                                                 |                                                  | M10x30       | ISO 4762 |
|        |                                           |                       |                                                 |                                                  |              |          |
| 120-11 | Screw (counterflange)                     |                       | A2-70                                           |                                                  |              |          |
| 120-13 | Screw for motor                           | MEC 90-100-112        | Galvanized steel 8.8 strength class ISO 898/1   |                                                  | M8x20        | ISO 4017 |
|        |                                           | MEC 132               |                                                 |                                                  | M12x40       | ISO 4017 |
|        |                                           | MEC 160               |                                                 |                                                  | M16x50       | ISO 4017 |
| 128-1  | Nut (tie rod)                             |                       | A2-70                                           |                                                  | M12          | ISO 4032 |
| 128-3  | Nut (motor)                               | MEC 132               | Galvanized steel                                |                                                  | M12          | ISO 4032 |
|        |                                           | MEC 160               |                                                 |                                                  | M16          | ISO 4032 |
| 128-5  | Nut (tie rod)                             |                       | A2-70                                           |                                                  | M12          | UNI 7474 |
| 128-6  | Nut (aluminium coupling)                  |                       | Galvanized steel                                |                                                  | M6           | ISO 4032 |
| 130-1  | Set screw                                 |                       | EN 1.4301 (AISI 304)                            |                                                  | M5x8         | ISO 4026 |
| 130-2  | Screw for coupling guard                  |                       | A2-70                                           |                                                  | M5x6         | UNI 7687 |
| 131-1  | Pin for shaft                             |                       | Carbon Steel                                    |                                                  | Ø5x35        | ISO 2338 |
| 135-1  | Washer (tie rod)                          |                       | EN 1.4301 (AISI 304)                            |                                                  | Ø13x24x2.5   | ISO 7089 |
| 135-6  | Washer (aluminium coupling)               |                       | up to 4.0 kW<br>Carbon Steel                    |                                                  | Ø6           |          |
| 137-1  | Impeller spacer                           |                       | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                            |              |          |
| 140    | Coupling                                  | up to 4.0 kW          | Die cast Aluminium EN AB-AISI11 Cu2 (Fe)        |                                                  |              |          |
| 160    |                                           | above 5.5 kW          | Cast Iron                                       |                                                  |              |          |
| 162    | Base                                      |                       | Die cast Aluminium EN AB-AISI11 Cu2 (Fe)        |                                                  |              |          |
| 162    | Motor bracket                             |                       | Cast iron EN-GJL-250                            |                                                  |              |          |
| 212    | Priming plug                              |                       | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                            | G 3/8        |          |
| 212-1  | Drainage plug                             |                       | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                            | G 3/8        |          |
| 212-2  | Venting plug                              |                       | EN 1.4404 (AISI 316L)                           |                                                  |              |          |
| 219    | Counter flange                            | flange type: N        | EN 1.4308 (ASTM CF8)                            | EN 1.4408 (ASTM CF8M)                            |              |          |
|        |                                           | flange type: LF-F-V-C | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                            |              |          |
| 245    | Coupling guard                            |                       | EN 1.4301 (AISI 304)                            |                                                  |              |          |
| 273-1  | Washer (drainage plug)                    |                       | EN 1.4301 (AISI 304)                            | EN 1.4404 (AISI 316L)                            |              |          |
| 615    | Flange                                    |                       | Carbon Steel                                    |                                                  |              |          |

### QUANTITY FOR MODEL EVMS(L)20

| Pump Type         | N° |     |     |     |     |   |   |    |       |      |      |      |      |      |      |      |    |    |    |      |    |      |     |     |       |       |       |       |        |       |       |
|-------------------|----|-----|-----|-----|-----|---|---|----|-------|------|------|------|------|------|------|------|----|----|----|------|----|------|-----|-----|-------|-------|-------|-------|--------|-------|-------|
|                   | 4  | 5-1 | 5-2 | 5-3 | 5-4 | 6 | 7 | 21 | 31*** | 32-1 | 43-2 | 43-3 | 43-4 | 43-6 | 44-1 | 45** | 46 | 47 | 48 | 52-1 | 75 | 75-1 | 107 | 111 | 111-3 | 111-4 | 111-5 | 115-1 | 115-3* | 115-4 | 115-5 |
| EVMS(L)20 1/1.5   | 1  | 1   | /   | 1   | 1   | 1 | 1 | 1  | 1     | 1    | 1    | 1    | 1    | 1    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 1   | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     |
| EVMS(L)20 2/3.0   | 1  | 1   | /   | 1   | 1   | 1 | 1 | 2  | 1     | 1    | 1    | 1    | 1    | /    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 2   | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     |
| EVMS(L)20 3/4.0   | 1  | 1   | 1   | 1   | 1   | 1 | 1 | 3  | 1     | 1    | 3    | 1    | 1    | /    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 3   | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     |
| EVMS(L)20 4/5.5   | 1  | 1   | 2   | 1   | 1   | 1 | 1 | 4  | 1     | 1    | 5    | 1    | 1    | /    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 4   | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     |
| EVMS(L)20 5/7.5   | 1  | 1   | 3   | 1   | 1   | 1 | 1 | 5  | 1     | 1    | 7    | 1    | 1    | /    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 5   | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     |
| EVMS(L)20 6/7.5   | 1  | 1   | 4   | 1   | 1   | 1 | 1 | 6  | 1     | 1    | 9    | 1    | 1    | /    | 1    | 4    | 2  | 1  | 1  | 1    | 1  | 2    | 6   | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     |
| EVMS(L)20 7/11    | 1  | 1   | 4   | 2   | 1   | 1 | 1 | 7  | 1     | 1    | 9    | 2    | 2    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 7   | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     |
| EVMS(L)20 8/11    | 1  | 1   | 5   | 2   | 1   | 1 | 1 | 8  | 1     | 1    | 11   | 2    | 2    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 8   | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     |
| EVMS(L)20 9/11    | 1  | 1   | 6   | 2   | 1   | 1 | 1 | 9  | 1     | 1    | 13   | 2    | 2    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 9   | 1   | 1     | 1     | 1     | 2     | 2      | 1     | 1     |
| EVMS(L)20 10/11   | 1  | 1   | 7   | 2   | 1   | 1 | 1 | 10 | 1     | 1    | 15   | 2    | 2    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 10  | 1   | 1     | 1     | 1     | 2     | /      | 1     | 1     |
| EVMS(L)20 11/15   | 1  | 1   | 8   | 2   | 1   | 1 | 1 | 11 | 1     | 1    | 17   | 2    | 2    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 11  | 1   | 1     | 1     | 1     | 2     | /      | 1     | 1     |
| EVMS(L)20 12/15   | 1  | 1   | 9   | 2   | 1   | 1 | 1 | 12 | 1     | 1    | 19   | 2    | 2    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 12  | 1   | 1     | 1     | 1     | 2     | /      | 1     | 1     |
| EVMS(L)20 13/15   | 1  | 1   | 10  | 2   | 1   | 1 | 1 | 13 | 1     | 1    | 21   | 2    | 2    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 13  | 1   | 1     | 1     | 1     | 2     | /      | 1     | 1     |
| EVMS(L)20 14/18.5 | 1  | 1   | 11  | 2   | 1   | 1 | 1 | 14 | 1     | 1    | 23   | 2    | 2    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 14  | 1   | 1     | 1     | 1     | 2     | /      | 1     | 1     |
| EVMS(L)20 15/18.5 | 1  | 1   | 12  | 2   | 1   | 1 | 1 | 15 | 1     | 1    | 25   | 2    | 2    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 15  | 1   | 1     | 1     | 1     | 2     | /      | 1     | 1     |
| EVMS(L)20 16/18.5 | 1  | 1   | 13  | 2   | 1   | 1 | 1 | 16 | 1     | 1    | 27   | 2    | 2    | /    | 2    | 4    | 2  | 1  | 1  | 2    | 1  | 2    | 16  | 1   | 1     | 1     | 1     | 2     | /      | 1     | 1     |

| Pump Type         | N°    |       |       |         |        |       |       |       |       |       |       |       |       |       |       |     |     |     |     |       |       |      |     |       |       |  |
|-------------------|-------|-------|-------|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|-----|-------|-------|------|-----|-------|-------|--|
|                   | 120-1 | 120-3 | 120-6 | 120-11* | 120-13 | 128-1 | 128-3 | 128-5 | 128-6 | 130-1 | 130-2 | 131-1 | 135-1 | 135-6 | 137-1 | 140 | 160 | 162 | 212 | 212-1 | 212-2 | 219* | 245 | 273-1 | 615** |  |
| EVMS(L)20 1/1.5   | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |  |
| EVMS(L)20 2/3.0   | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |  |
| EVMS(L)20 3/4.0   | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |  |
| EVMS(L)20 4/5.5   | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |  |
| EVMS(L)20 5/7.5   | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |  |
| EVMS(L)20 6/7.5   | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |  |
| EVMS(L)20 7/11    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |  |
| EVMS(L)20 8/11    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |  |
| EVMS(L)20 9/11    | 4     | 4     | 4     | 4       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | 2    | 2   | 2     | 2     |  |
| EVMS(L)20 10/11   | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |  |
| EVMS(L)20 11/15   | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |  |
| EVMS(L)20 12/15   | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |  |
| EVMS(L)20 13/15   | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |  |
| EVMS(L)20 14/18.5 | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |  |
| EVMS(L)20 15/18.5 | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |  |
| EVMS(L)20 16/18.5 | 4     | 4     | 4     | /       | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | /     | 1     | 2   | 1   | 1   | 1   | 2     | 1     | /    | 2   | 2     | 2     |  |

\* only for Oval flange (N)

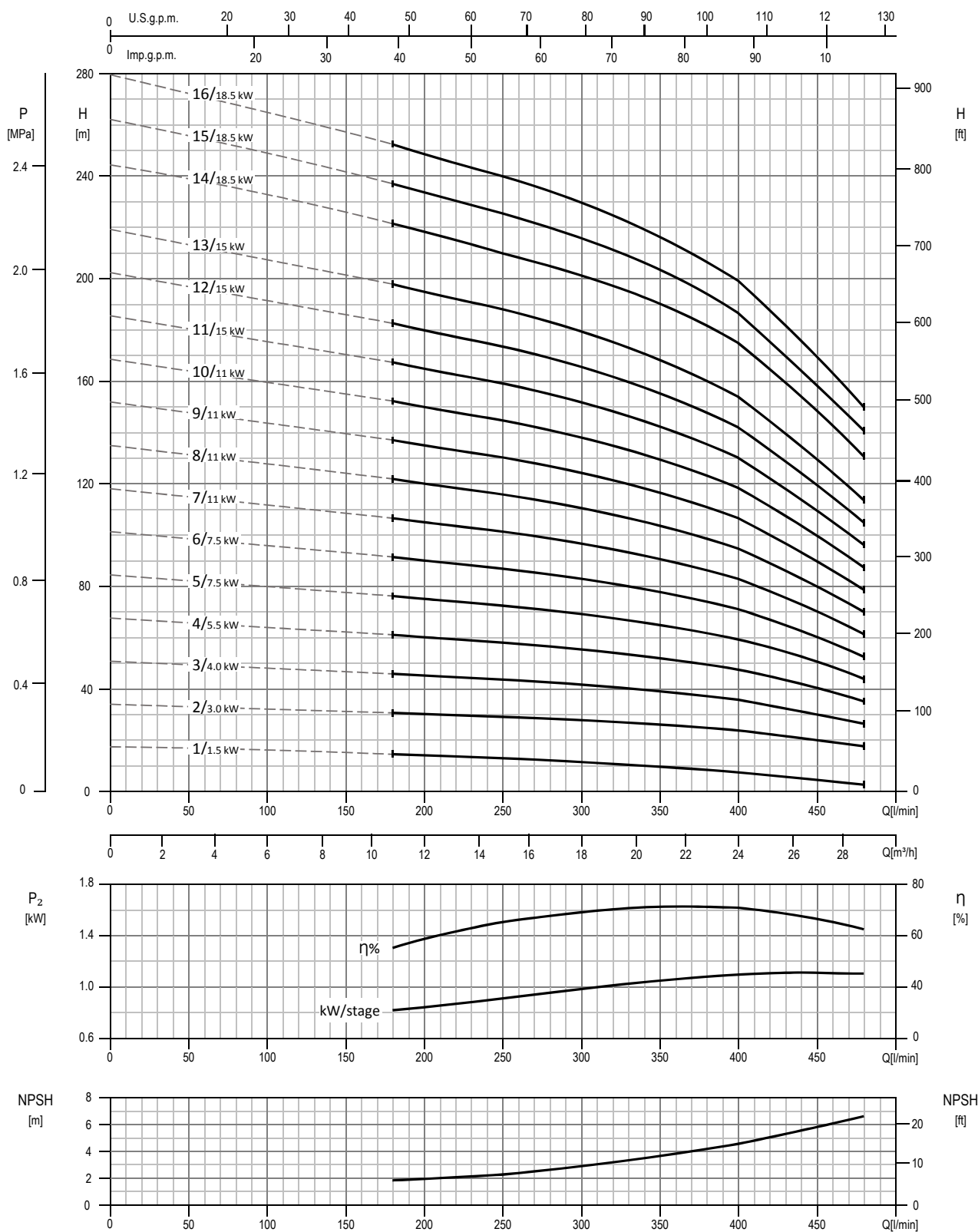
\*\* only for Loose round flange (LF)

\*\*\*  shaft in EN 1.4462 (AISI 329A)

128-6 / 135-6: with Aluminium coupling (see drawing pag.18)



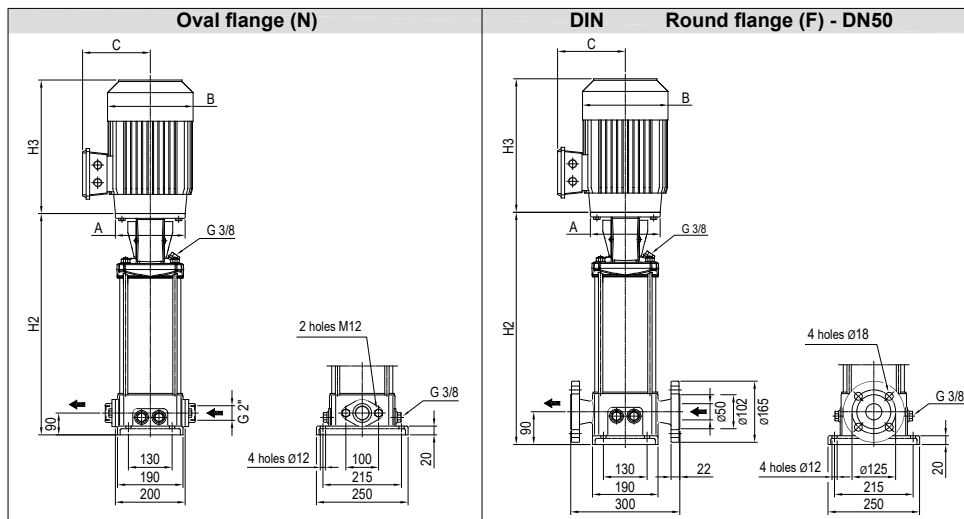
PERFORMANCE CURVE  
EVMSG20



Test standard: ISO 9906:2012 - Grade 3B

### TECHNICAL DATA EVMSG20

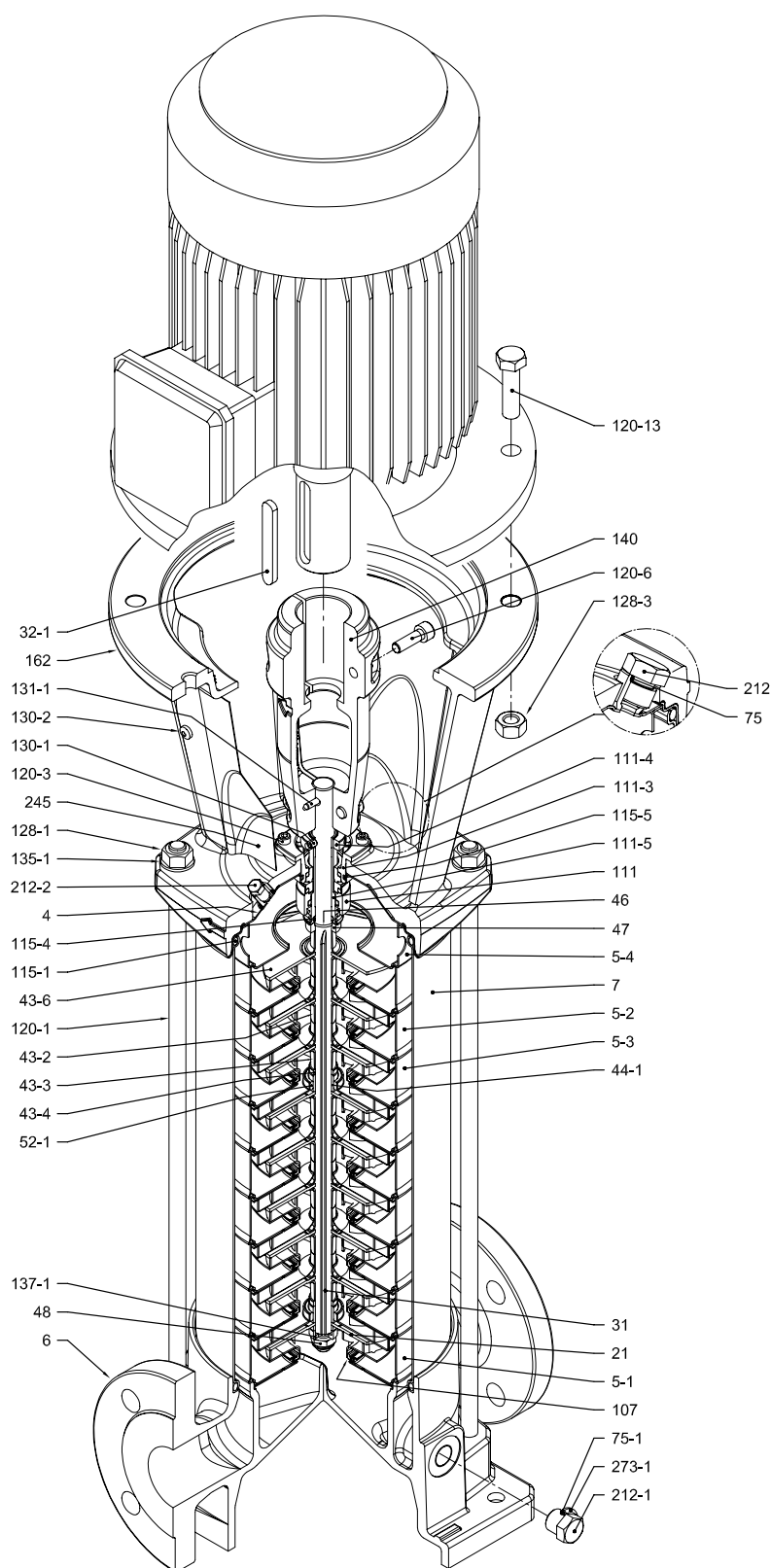
#### Dimensional sketch



#### Dimensions [mm] and Weights [Kg]

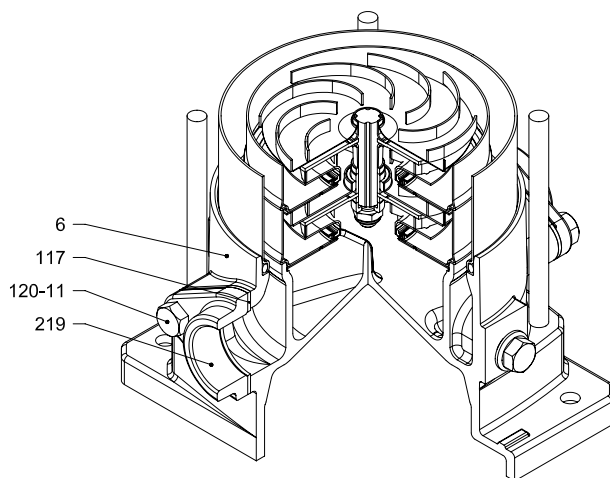
| Pump Type       |     | Pmax<br>[MPa] |     | Motor |     |      |     | Oval flange (N) |     |     |      |      |      | Round flange (F) |      |       |      |             |    |                     |    |    |  |       |    |             |    |                     |   |
|-----------------|-----|---------------|-----|-------|-----|------|-----|-----------------|-----|-----|------|------|------|------------------|------|-------|------|-------------|----|---------------------|----|----|--|-------|----|-------------|----|---------------------|---|
|                 |     |               |     | kW    |     | Size |     | A               |     | 1~  |      | 3~   |      | H2               |      | H2+H3 |      | Weight Pump |    | Weight Pump + Motor |    | H2 |  | H2+H3 |    | Weight Pump |    | Weight Pump + Motor |   |
|                 |     |               |     |       |     |      |     |                 |     | B   | C    | B    | C    |                  |      | 1~    | 3~   | 1~          | 3~ | 1~                  | 3~ |    |  | 1~    | 3~ | 1~          | 3~ |                     |   |
|                 |     |               |     |       |     |      |     |                 |     |     |      |      |      |                  |      |       |      |             |    |                     |    |    |  |       |    |             |    | Ø                   | B |
| EVMSG20 1/1.5   | 1.6 | 1.5           | 90  | 140   | 172 | 140  | 160 | 119             | 387 | 665 | 678  | 22.6 | 40.4 | 36.1             | 387  | 665   | 678  | 27.2        | 45 | 40.7                |    |    |  |       |    |             |    |                     |   |
| EVMSG20 2/3.0   | 1.6 | 3.0           | 100 | 160   | -   | -    | 176 | 123             | 397 | -   | 739  | 22.7 | -    | 44.7             | 397  | -     | 739  | 27.3        | -  | 49.3                |    |    |  |       |    |             |    |                     |   |
| EVMSG20 3/4.0   | 1.6 | 4.0           | 112 | 160   | -   | -    | 193 | 138             | 437 | -   | 801  | 24.1 | -    | 52.6             | 437  | -     | 801  | 28.7        | -  | 57.2                |    |    |  |       |    |             |    |                     |   |
| EVMSG20 4/5.5   | 1.6 | 5.5           | 132 | 300   | -   | -    | 220 | 152             | 574 | -   | 973  | 30.0 | -    | 69.0             | 574  | -     | 973  | 34.6        | -  | 73.6                |    |    |  |       |    |             |    |                     |   |
| EVMSG20 5/7.5   | 1.6 | 7.5           | 132 | 300   | -   | -    | 220 | 152             | 614 | -   | 1033 | 31.2 | -    | 77.2             | 614  | -     | 1033 | 35.9        | -  | 81.9                |    |    |  |       |    |             |    |                     |   |
| EVMSG20 6/7.5   | 1.6 | 7.5           | 132 | 300   | -   | -    | 220 | 152             | 654 | -   | 1073 | 32.5 | -    | 78.5             | 654  | -     | 1073 | 37.1        | -  | 83.1                |    |    |  |       |    |             |    |                     |   |
| EVMSG20 7/11    | 1.6 | 11            | 160 | 350   | -   | -    | 259 | 180             | 724 | -   | 1164 | 34.8 | -    | 97.3             | 724  | -     | 1164 | 39.4        | -  | 101.9               |    |    |  |       |    |             |    |                     |   |
| EVMSG20 8/11    | 1.6 | 11            | 160 | 350   | -   | -    | 259 | 180             | 764 | -   | 1204 | 46.6 | -    | 109.1            | 764  | -     | 1204 | 51.2        | -  | 113.7               |    |    |  |       |    |             |    |                     |   |
| EVMSG20 9/11    | 1.6 | 11            | 160 | 350   | -   | -    | 259 | 180             | 804 | -   | 1244 | 47.9 | -    | 110.4            | 804  | -     | 1244 | 52.5        | -  | 115.0               |    |    |  |       |    |             |    |                     |   |
| EVMSG20 10/11   | 2.5 | 11            | 160 | 350   | -   | -    | 259 | 180             | -   | -   | -    | -    | -    | -                | 844  | -     | 1284 | 53.9        | -  | 116.4               |    |    |  |       |    |             |    |                     |   |
| EVMSG20 11/15   | 2.5 | 15            | 160 | 350   | -   | -    | 311 | 240             | -   | -   | -    | -    | -    | -                | 884  | -     | 1379 | 55.2        | -  | 156.2               |    |    |  |       |    |             |    |                     |   |
| EVMSG20 12/15   | 2.5 | 15            | 160 | 350   | -   | -    | 311 | 240             | -   | -   | -    | -    | -    | -                | 924  | -     | 1419 | 56.5        | -  | 157.5               |    |    |  |       |    |             |    |                     |   |
| EVMSG20 13/15   | 2.5 | 15            | 160 | 350   | -   | -    | 311 | 240             | -   | -   | -    | -    | -    | -                | 964  | -     | 1459 | 57.9        | -  | 158.9               |    |    |  |       |    |             |    |                     |   |
| EVMSG20 14/18.5 | 2.5 | 18.5          | 160 | 350   | -   | -    | 311 | 240             | -   | -   | -    | -    | -    | -                | 1004 | -     | 1499 | 59.2        | -  | 168.2               |    |    |  |       |    |             |    |                     |   |
| EVMSG20 15/18.5 | 2.5 | 18.5          | 160 | 350   | -   | -    | 311 | 240             | -   | -   | -    | -    | -    | -                | 1044 | -     | 1539 | 60.5        | -  | 169.5               |    |    |  |       |    |             |    |                     |   |
| EVMSG20 16/18.5 | 2.5 | 18.5          | 160 | 350   | -   | -    | 311 | 240             | -   | -   | -    | -    | -    | -                | 1084 | -     | 1579 | 61.8        | -  | 170.8               |    |    |  |       |    |             |    |                     |   |

1.6 MPa=16 bar;      2.5 MPa=25 bar  
- not available model

SECTIONAL VIEW  
EVMSG20

with Round flange (F)

### PIPE CONNECTION EVMSG20



with Oval flange (N)

SECTIONAL TABLE  
EVMSG20

| N°     | PART NAME                                 |                       | MATERIAL<br>EVMSG                             | DIMENSIONS           | STANDARD |
|--------|-------------------------------------------|-----------------------|-----------------------------------------------|----------------------|----------|
| 4      | Casing cover                              |                       | EN 1.4301 (AISI 304)                          |                      |          |
| 5-1    | Suction casing                            |                       | EN 1.4301 (AISI 304)                          |                      |          |
| 5-2    | Intermediate casing                       |                       | EN 1.4301 (AISI 304)                          |                      |          |
| 5-3    | Intermediate casing with bearing          |                       | EN 1.4301 (AISI 304)                          |                      |          |
| 5-4    | Discharge casing                          |                       | EN 1.4301 (AISI 304)                          |                      |          |
| 6      | Bottom casing                             |                       | Cast Iron EN-GJL-250                          |                      |          |
| 7      | Outer casing                              |                       | EN 1.4301 (AISI 304)                          |                      |          |
| 21     | Impeller                                  |                       | EN 1.4301 (AISI 304)                          |                      |          |
| 31     | Shaft                                     |                       | EN 1.4301 (AISI 304) - EN 1.4462 (AISI 329A)  |                      |          |
| 32-1   | Adjuster key                              |                       | EN 1.4301 (AISI 304)                          |                      |          |
| 43-2   | Shaft sleeve (intermediate)               |                       | EN 1.4301 (AISI 304)                          |                      |          |
| 43-3   | Shaft sleeve (bearing + discharge casing) |                       | EN 1.4301 (AISI 304)                          |                      |          |
| 43-4   | Shaft sleeve (adjustment)                 |                       | EN 1.4301 (AISI 304)                          |                      |          |
| 43-6   | Washer                                    |                       | EN 1.4404 (AISI 316L)                         | Ø26x2.5              |          |
| 44-1   | Shaft sleeve bearing                      |                       | Tungsten carbide                              |                      |          |
| 46     | Ring (mechanical seal)                    |                       | EN 1.4404 (AISI 316L)                         |                      |          |
| 47     | Ring holder                               |                       | EN 1.4404 (AISI 316L)                         |                      |          |
| 48     | Impeller nut                              |                       | EN 1.4301 (AISI 304) with inox insert         | M10                  |          |
| 52-1   | Sleeve bearing                            |                       | Tungsten carbide                              |                      |          |
| 75     | O-Ring (priming plug)                     |                       | EPDM / FPM                                    | Ø12.37x2.62          | OR 3050  |
| 75-1   | O-Ring (drainage plug)                    |                       | EPDM / FPM                                    |                      |          |
| 107    | Liner ring                                |                       | EN 1.4301 (AISI 304) + PPS                    |                      |          |
| 111    | Mechanical seal                           |                       | see pages 6-7                                 |                      |          |
| 111-3  | Mechanical seal seat                      |                       | EN 1.4308 (ASTM CF8)                          |                      |          |
| 111-4  | Seal holder                               |                       | EN 1.4301 (AISI 304)                          |                      |          |
| 111-5  | Mechanical seal cartridge sleeve          |                       | EN 1.4301 (AISI 304)                          |                      |          |
| 115-1  | O-Ring (outer casing)                     |                       | EPDM / FPM                                    | Ø164.46x5.34         | OR 6945  |
| 115-4  | O-Ring (cartridge sleeve)                 |                       | EPDM / FPM                                    | Ø15.88x2.62          | OR 4093  |
| 115-5  | O-Ring (seal flange)                      |                       | EPDM / FPM                                    | Ø37.77x2.62          | OR 4175  |
| 117    | Flange gasket                             |                       | EPDM / FPM                                    |                      |          |
| 120-1  | Tie-rod                                   |                       | EN 1.4057 (AISI 431)                          | M12                  |          |
| 120-3  | Screw (seal flange)                       |                       | A2-70                                         | M5x12                | ISO 4762 |
| 120-6  | Screw (pump coupling)                     | up to 4.0 kW          | Galvanized steel 6.8 strenght class ISO 898/1 | M6x25                | ISO 4762 |
|        |                                           | from 5.5 kW to 7.5 kW |                                               | M8x20                | ISO 4762 |
|        |                                           | above 11 kW           |                                               | M10x30               | ISO 4762 |
|        |                                           |                       |                                               |                      |          |
| 120-11 | Screw (counterflange)                     |                       | A2-70                                         |                      |          |
| 120-13 | Screw for motor                           | MEC 90-100-112        | Galvanized steel 8.8 strength class ISO 898/1 | M8x20                | ISO 4017 |
|        |                                           | MEC 132               |                                               | M12x40               | ISO 4017 |
|        |                                           | MEC 160               |                                               | M16x50               | ISO 4017 |
| 128-1  | Nut (tie rod)                             |                       | A2-70                                         | M12                  | ISO 4032 |
| 128-3  | Nut (motor)                               | MEC 132               | Galvanized steel                              | M12                  | ISO 4032 |
|        |                                           | MEC 160               |                                               | M16                  | ISO 4032 |
| 128-6  | Nut (aluminium coupling)                  |                       | Galvanized steel                              | M6                   | ISO 4032 |
| 130-1  | Set screw                                 |                       | EN 1.4301 (AISI 304)                          | M5x8                 | ISO 4026 |
| 130-2  | Screw for coupling guard                  |                       | A2-70                                         | M5x6                 | UNI 7687 |
| 131-1  | Pin for shaft                             |                       | Carbon Steel                                  | Ø5x35                | ISO 2338 |
| 135-1  | Washer (tie rod)                          |                       | EN 1.4301 (AISI 304)                          | Ø13x24x2.5           | ISO 7089 |
| 135-6  | Washer (aluminium coupling)               |                       | Carbon Steel                                  | Ø6                   |          |
| 137-1  | Impeller spacer                           |                       | EN 1.4301 (AISI 304)                          |                      |          |
| 140    | Coupling                                  | up to 4.0 kW          | Die cast Aluminium EN AB-AISI11Cu2 (Fe)       |                      |          |
|        |                                           | above 5.5 kW          |                                               | Cast Iron            |          |
| 162    | Motor bracket                             |                       | Cast iron EN-GJL-250                          |                      |          |
| 212    | Priming plug                              |                       | EN 1.4301 (AISI 304)                          | G 3/8                |          |
| 212-1  | Drainage plug                             |                       | EN 1.4301 (AISI 304)                          | G 3/8                |          |
| 212-2  | Venting plug                              |                       | EN 1.4404 (AISI 316L)                         |                      |          |
| 219    | Counter flange                            | flange type: N        | Galvanized steel                              |                      |          |
|        |                                           | flange type: F        |                                               | Cast Iron EN-GJL-250 |          |
| 245    | Coupling guard                            |                       | EN 1.4301 (AISI 304)                          |                      |          |
| 273-1  | Washer (drainage plug)                    |                       | EN 1.4301 (AISI 304)                          |                      |          |

### QUANTITY FOR MODEL EVMSG20

EVMSG20

| Pump Type       | N° |     |    |    |    |   |   |    |       |      |     |     |     |     |      |    |    |    |      |    |      |     |
|-----------------|----|-----|----|----|----|---|---|----|-------|------|-----|-----|-----|-----|------|----|----|----|------|----|------|-----|
|                 | 4  | 5-1 | 52 | 53 | 54 | 6 | 7 | 21 | 31*** | 32-1 | 432 | 433 | 434 | 436 | 44-1 | 46 | 47 | 48 | 52-1 | 75 | 75-1 | 107 |
| EVMSG20 1/1.5   | 1  | 1   | /  | 1  | 1  | 1 | 1 | 1  | 1     | 1    | /   | 2   | 1   | 1   | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 1   |
| EVMSG20 2/3.0   | 1  | 1   | /  | 1  | 1  | 1 | 1 | 2  | 1     | 1    | /   | 2   | 1   | /   | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 2   |
| EVMSG20 3/4.0   | 1  | 1   | 1  | 1  | 1  | 1 | 1 | 3  | 1     | 1    | 1   | 2   | 1   | /   | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 3   |
| EVMSG20 4/5.5   | 1  | 1   | 2  | 1  | 1  | 1 | 1 | 4  | 1     | 1    | 2   | 2   | 1   | /   | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 4   |
| EVMSG20 5/7.5   | 1  | 1   | 3  | 1  | 1  | 1 | 1 | 5  | 1     | 1    | 3   | 2   | 1   | /   | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 5   |
| EVMSG20 6/7.5   | 1  | 1   | 4  | 1  | 1  | 1 | 1 | 6  | 1     | 1    | 4   | 2   | 1   | /   | 1    | 2  | 1  | 1  | 1    | 1  | 4    | 6   |
| EVMSG20 7/11    | 1  | 1   | 4  | 2  | 1  | 1 | 1 | 7  | 1     | 1    | 4   | 3   | 2   | /   | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 7   |
| EVMSG20 8/11    | 1  | 1   | 5  | 2  | 1  | 1 | 1 | 8  | 1     | 1    | 5   | 3   | 2   | /   | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 8   |
| EVMSG20 9/11    | 1  | 1   | 6  | 2  | 1  | 1 | 1 | 9  | 1     | 1    | 6   | 3   | 2   | /   | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 9   |
| EVMSG20 10/11   | 1  | 1   | 7  | 2  | 1  | 1 | 1 | 10 | 1     | 1    | 7   | 3   | 2   | /   | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 10  |
| EVMSG20 11/15   | 1  | 1   | 8  | 2  | 1  | 1 | 1 | 11 | 1     | 1    | 8   | 3   | 2   | /   | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 11  |
| EVMSG20 12/15   | 1  | 1   | 9  | 2  | 1  | 1 | 1 | 12 | 1     | 1    | 9   | 3   | 2   | /   | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 12  |
| EVMSG20 13/15   | 1  | 1   | 10 | 2  | 1  | 1 | 1 | 13 | 1     | 1    | 10  | 3   | 2   | /   | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 13  |
| EVMSG20 14/18.5 | 1  | 1   | 11 | 2  | 1  | 1 | 1 | 14 | 1     | 1    | 11  | 3   | 2   | /   | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 14  |
| EVMSG20 15/18.5 | 1  | 1   | 12 | 2  | 1  | 1 | 1 | 15 | 1     | 1    | 12  | 3   | 2   | /   | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 15  |
| EVMSG20 16/18.5 | 1  | 1   | 13 | 2  | 1  | 1 | 1 | 16 | 1     | 1    | 13  | 3   | 2   | /   | 2    | 2  | 1  | 1  | 2    | 1  | 4    | 16  |

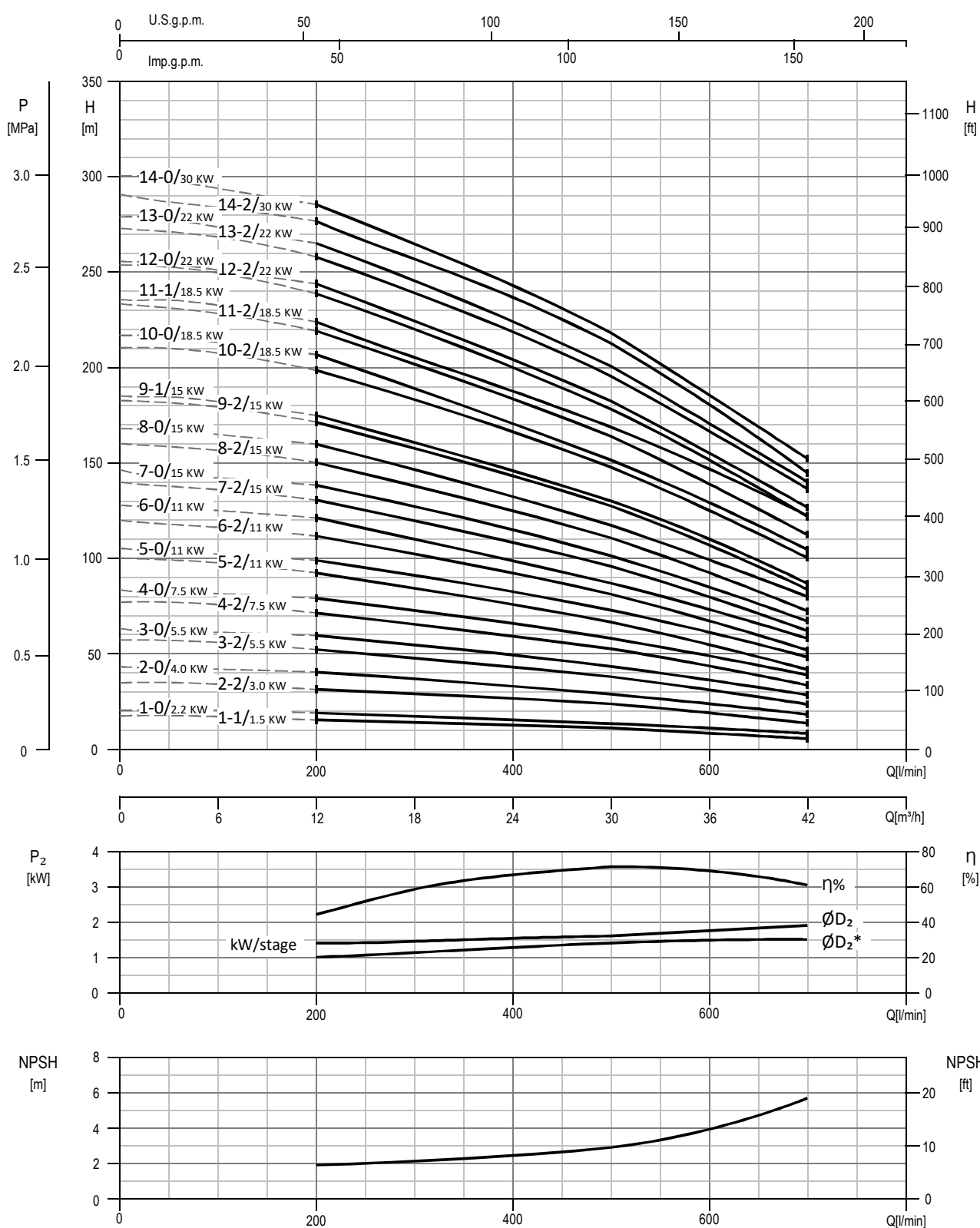
| Pump Type       | N°   |       |       |       |         |        |       |       |       |       |       |       |       |       |       |     |     |     |       |       |      |     |
|-----------------|------|-------|-------|-------|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|-------|-------|------|-----|
|                 | 117* | 120-1 | 120-3 | 120-6 | 120-11* | 120-13 | 128-1 | 128-3 | 128-6 | 130-1 | 130-2 | 131-1 | 135-1 | 135-6 | 137-1 | 140 | 162 | 212 | 212-1 | 212-2 | 219* | 245 |
| EVMSG20 1/1.5   | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   |
| EVMSG20 2/3.0   | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   |
| EVMSG20 3/4.0   | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 4     | 3     | 4     | 1     | 4     | 4     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   |
| EVMSG20 4/5.5   | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 3     | 4     | 1     | 4     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   |
| EVMSG20 5/7.5   | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 3     | 4     | 1     | 4     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   |
| EVMSG20 6/7.5   | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 3     | 4     | 1     | 4     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   |
| EVMSG20 7/11    | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 3     | 4     | 1     | 4     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   |
| EVMSG20 8/11    | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 3     | 4     | 1     | 4     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   |
| EVMSG20 9/11    | 2    | 4     | 4     | 4     | 4       | 4      | 4     | /     | 3     | 4     | 1     | 4     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | 2    | 2   |
| EVMSG20 10/11   | /    | 4     | 4     | 4     | /       | 4      | 4     | /     | 3     | 4     | 1     | 4     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   |
| EVMSG20 11/15   | /    | 4     | 4     | 4     | /       | 4      | 4     | /     | 3     | 4     | 1     | 4     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   |
| EVMSG20 12/15   | /    | 4     | 4     | 4     | /       | 4      | 4     | /     | 3     | 4     | 1     | 4     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   |
| EVMSG20 13/15   | /    | 4     | 4     | 4     | /       | 4      | 4     | /     | 3     | 4     | 1     | 4     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   |
| EVMSG20 14/18.5 | /    | 4     | 4     | 4     | /       | 4      | 4     | /     | 3     | 4     | 1     | 4     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   |
| EVMSG20 15/18.5 | /    | 4     | 4     | 4     | /       | 4      | 4     | /     | 3     | 4     | 1     | 4     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   |
| EVMSG20 16/18.5 | /    | 4     | 4     | 4     | /       | 4      | 4     | /     | 3     | 4     | 1     | 4     | 4     | /     | 1     | 2   | 1   | 1   | 4     | 1     | /    | 2   |

\* only for Oval flange (N)

\*\*\*  shaft in EN 1.4462 (AISI 329A)

128-6 / 135-6: with Aluminium coupling (see drawing pag.18)

# PERFORMANCE CURVE EVMS(L)32

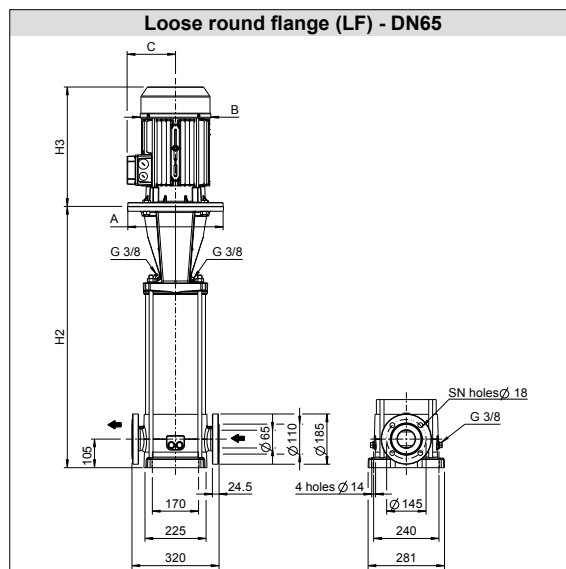


Test standard: ISO 9906:2012 - Grade 3B



### TECHNICAL DATA EVMS(L)32

#### Dimensional sketch



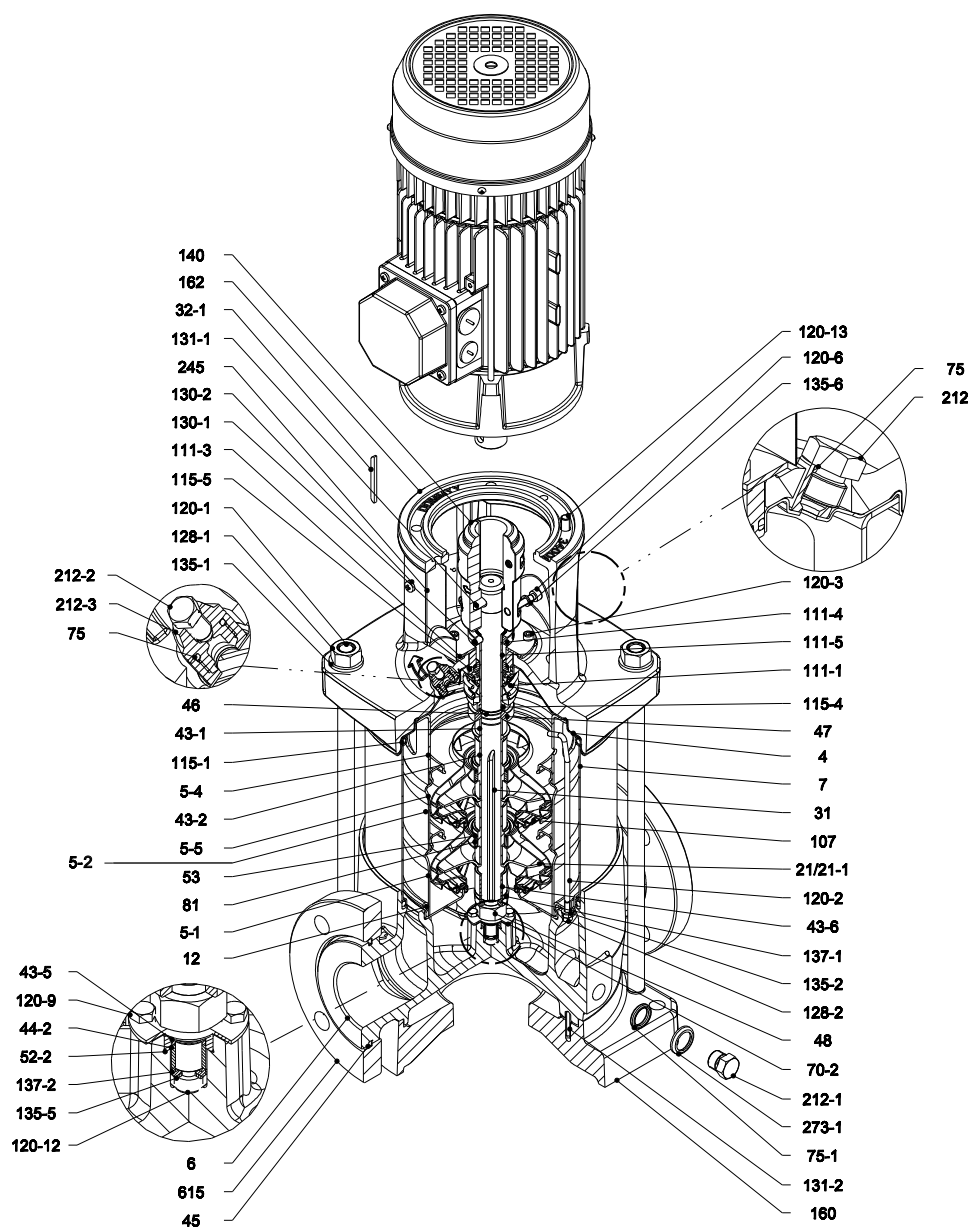
#### Dimensions [mm] and Weights [Kg]

| Pump Type           | Pmax<br>[MPa] | Motor |      |        |     |     | Loose round flange (LF) |       |    |                |                           |
|---------------------|---------------|-------|------|--------|-----|-----|-------------------------|-------|----|----------------|---------------------------|
|                     |               | kW    | Size | A<br>Ø | B   | C   | H2                      | H2+H3 | SN | Weight<br>Pump | Weight<br>Pump +<br>Motor |
| EVMS(L)32 1-1/1.5   | 1.6           | 1.5   | 90   | 140    | 160 | 119 | 451                     | 741   | 4  | 48.6           | 62.1                      |
| EVMS(L)32 1-0/2.2   | 1.6           | 2.2   | 90   | 140    | 160 | 119 | 451                     | 741   | 4  | 48.6           | 63.6                      |
| EVMS(L)32 2-2/3.0   | 1.6           | 3.0   | 100  | 160    | 176 | 123 | 531                     | 873   | 4  | 51.9           | 73.9                      |
| EVMS(L)32 2-0/4.0   | 1.6           | 4.0   | 112  | 160    | 193 | 138 | 531                     | 896   | 4  | 51.9           | 80.4                      |
| EVMS(L)32 3-2/5.5   | 1.6           | 5.5   | 132  | 300    | 220 | 152 | 705                     | 1105  | 4  | 65.8           | 104.8                     |
| EVMS(L)32 3-0/5.5   | 1.6           | 5.5   | 132  | 300    | 220 | 152 | 705                     | 1105  | 4  | 65.8           | 104.8                     |
| EVMS(L)32 4-2/7.5   | 1.6           | 7.5   | 132  | 300    | 220 | 152 | 775                     | 1195  | 4  | 69.0           | 115.0                     |
| EVMS(L)32 4-0/7.5   | 1.6           | 7.5   | 132  | 300    | 220 | 152 | 775                     | 1195  | 4  | 69.0           | 115.0                     |
| EVMS(L)32 5-2/11    | 1.6           | 11    | 160  | 350    | 259 | 180 | 875                     | 1314  | 4  | 79.0           | 141.5                     |
| EVMS(L)32 5-0/11    | 1.6           | 11    | 160  | 350    | 259 | 180 | 875                     | 1314  | 4  | 79.0           | 141.5                     |
| EVMS(L)32 6-2/11    | 1.6           | 11    | 160  | 350    | 259 | 180 | 945                     | 1384  | 4  | 82.3           | 144.8                     |
| EVMS(L)32 6-0/11    | 1.6           | 11    | 160  | 350    | 259 | 180 | 945                     | 1384  | 4  | 82.3           | 144.8                     |
| EVMS(L)32 7-2/15    | 1.6           | 15    | 160  | 350    | 311 | 240 | 1015                    | 1510  | 4  | 85.6           | 186.6                     |
| EVMS(L)32 7-0/15    | 1.6           | 15    | 160  | 350    | 311 | 240 | 1015                    | 1510  | 4  | 85.6           | 186.6                     |
| EVMS(L)32 8-2/15    | 2.5           | 15    | 160  | 350    | 311 | 240 | 1085                    | 1580  | 8  | 90.4           | 191.4                     |
| EVMS(L)32 8-0/15    | 2.5           | 15    | 160  | 350    | 311 | 240 | 1085                    | 1580  | 8  | 90.4           | 191.4                     |
| EVMS(L)32 9-2/15    | 2.5           | 15    | 160  | 350    | 311 | 240 | 1155                    | 1650  | 8  | 93.9           | 194.9                     |
| EVMS(L)32 9-1/15    | 2.5           | 15    | 160  | 350    | 311 | 240 | 1155                    | 1650  | 8  | 93.9           | 194.9                     |
| EVMS(L)32 10-2/18.5 | 2.5           | 18.5  | 160  | 350    | 311 | 240 | 1225                    | 1720  | 8  | 97.3           | 206.3                     |
| EVMS(L)32 10-0/18.5 | 2.5           | 18.5  | 160  | 350    | 311 | 240 | 1225                    | 1720  | 8  | 97.3           | 206.3                     |
| EVMS(L)32 11-2/18.5 | 2.5           | 18.5  | 160  | 350    | 311 | 240 | 1295                    | 1847  | 8  | 100.8          | 209.8                     |
| EVMS(L)32 11-1/18.5 | 2.5           | 18.5  | 160  | 350    | 311 | 240 | 1295                    | 1847  | 8  | 100.8          | 209.8                     |
| EVMS(L)32 12-2/22   | 3.0           | 22    | 180  | 350    | 354 | 260 | 1365                    | 1917  | 8  | 106.8          | 241.8                     |
| EVMS(L)32 12-0/22   | 3.0           | 22    | 180  | 350    | 354 | 260 | 1365                    | 1917  | 8  | 106.8          | 241.8                     |
| EVMS(L)32 13-2/22   | 3.0           | 22    | 180  | 350    | 354 | 260 | 1435                    | 1987  | 8  | 110.6          | 245.6                     |
| EVMS(L)32 13-0/22   | 3.0           | 22    | 180  | 350    | 354 | 260 | 1435                    | 1987  | 8  | 110.6          | 245.6                     |
| EVMS(L)32 14-2/30   | 3.0           | 30    | 200  | 400    | 354 | 280 | 1505                    | 2057  | 8  | 119.5          | 287.5                     |
| EVMS(L)32 14-0/30   | 3.0           | 30    | 200  | 400    | 354 | 280 | 1505                    | 2057  | 8  | 119.5          | 287.5                     |

1.6 MPa=16 bar;

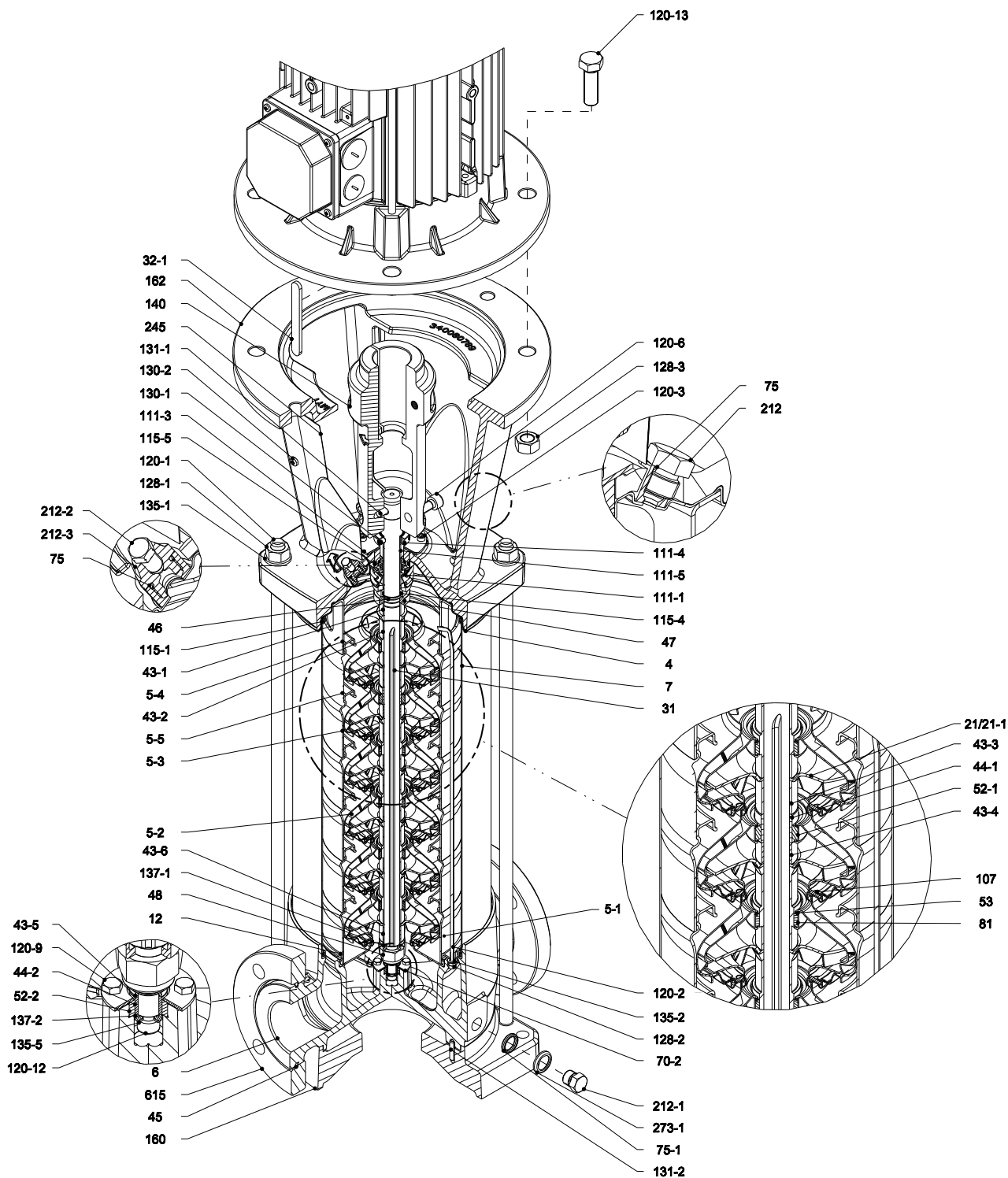
2.5 MPa=25 bar;

3.0 MPa=30 bar

SECTIONAL VIEW  
EVMS(L)32

Pump without ball bearing  
up to 4.0 kW

### SECTIONAL VIEW EVMS(L)32



Pump without ball bearing  
from 5.5 kW to 30 kW

SECTIONAL TABLE  
EVMS(L)32

| N°    | PART NAME                        | MATERIAL                                 |                                          | DIMENSIONS   | STANDARD |
|-------|----------------------------------|------------------------------------------|------------------------------------------|--------------|----------|
|       |                                  | EVMS                                     | EVMSL                                    |              |          |
| 4     | Casing cover                     | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                    |              |          |
| 5-1   | Suction casing                   | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                    |              |          |
| 5-2   | Intermediate casing              | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                    |              |          |
| 5-3   | Intermediate casing with bearing | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                    |              |          |
| 5-4   | Discharge casing                 | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                    |              |          |
| 5-5   | Top intermediate casing          | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                    |              |          |
| 6     | Bottom casing                    | EN 1.4308 (ASTM CF8)                     | EN 1.4408 (ASTM CF8M)                    |              |          |
| 7     | Outer casing                     | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                    |              |          |
| 12    | Suction cover                    | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                    |              |          |
| 21    | Impeller                         | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                    |              |          |
| 21-1  | Reduced impeller                 | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                    |              |          |
| 31    | Shaft                            | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                    |              |          |
| 32-1  | Adjuster key                     | EN 1.4301 (AISI 304)                     |                                          |              |          |
| 43-1  | Shaft sleeve (mechanical seal)   | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                    |              |          |
| 43-2  | Shaft sleeve (intermediate)      | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                    |              |          |
| 43-3  | Shaft sleeve (bearing)           | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                    |              |          |
| 43-4  | Shaft sleeve (adjustment)        | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                    |              |          |
| 43-5  | Shaft sleeve (last stage)        | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                    |              |          |
| 43-6  | Shaft sleeve (adjustment)        | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                    |              |          |
| 44-1  | Shaft sleeve bearing             | Tungsten carbide                         |                                          |              |          |
| 44-2  | Shaft sleeve (bearing)           | Tungsten carbide                         |                                          |              |          |
| 45    | Flange holder                    | EN 1.4301 (AISI 304)                     |                                          |              |          |
| 46    | Ring (mechanical seal)           | EN 1.4404 (AISI 316L)                    |                                          |              |          |
| 47    | Ring holder                      | EN 1.4404 (AISI 316L)                    |                                          |              |          |
| 48    | Impeller nut                     | EN 1.4301 (AISI 304)<br>with inox insert | EN 1.4401 (AISI 316)<br>with inox insert |              |          |
| 52-1  | Sleeve bearing                   | Tungsten carbide                         |                                          |              |          |
| 52-2  | Sleeve bearing (bottom casing)   | Tungsten carbide                         |                                          |              |          |
| 53    | Bush holder                      | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                    |              |          |
| 70-2  | Ring for bearing sleeve          | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                    |              |          |
| 75    | O-Ring (priming plug)            | EPDM / FPM                               |                                          | Ø12.37x2.62  | OR 3050  |
| 75-1  | O-Ring (drainage plug)           | EPDM / FPM                               |                                          |              |          |
| 81    | Bush                             | PTFE                                     |                                          |              |          |
| 107   | Liner ring                       | EN 1.4301 (AISI 304) + PPS               | EN 1.4404 (AISI 316L) + PPS              |              |          |
| 111-1 | Mechanical seal                  | see pages 6-7                            |                                          |              |          |
| 111-3 | Mechanical seal seat             | EN 1.4301 (AISI 304)                     | EN 1.4401 (AISI 316)                     |              |          |
| 111-4 | Seal holder                      | EN 1.4404 (AISI 316L)                    |                                          |              |          |
| 111-5 | Mechanical seal cartridge sleeve | EN 1.4301 (AISI 304)                     | EN 1.4404 (AISI 316L)                    |              |          |
| 115-1 | O-Ring (outer casing)            | EPDM / FPM                               |                                          | Ø240.66x5.34 | OR 6945  |
| 115-4 | O-Ring (cartridge sleeve)        | EPDM / FPM                               |                                          | Ø23.39x3.53  | OR 4093  |
| 115-5 | O-Ring (seal flange)             | EPDM / FPM                               |                                          | Ø44.04x3.53  | OR 4175  |
| 120-1 | Tie rod                          | EN 1.4057 (AISI 431)                     |                                          |              |          |
| 120-2 | Tie rod (stage)                  | EN 1.4301 (AISI 304)                     | EN 1.4401 (AISI 316)                     |              |          |
| 120-3 | Screw (seal flange)              | A2-70                                    |                                          | M5x12        | ISO 4762 |

### SECTIONAL TABLE EVMS(L)32

| N°     | PART NAME                   | MATERIAL                       |                                               | DIMENSIONS | STANDARD |
|--------|-----------------------------|--------------------------------|-----------------------------------------------|------------|----------|
|        |                             | EVMS                           | EVMSL                                         |            |          |
| 120-6  | Screw (pump coupling)       | up to 4.0 kW                   | Galvanized steel 8.8 strength class ISO 898/1 | M6x25      | ISO 4762 |
|        |                             | from 5.5 kW to 7.5 kW          | Galvanized steel 8.8 strength class ISO 898/1 | M8x25      | ISO 4762 |
|        |                             | above 11 kW                    | Galvanized steel 8.8 strength class ISO 898/1 | M10x30     | ISO 4762 |
| 120-9  | Screw (bottom casing)       | A2-70                          |                                               | M5x8       | ISO 4017 |
| 120-12 | Screw (shaft)               | A2-70                          |                                               | M6x16      | ISO 4762 |
| 120-13 | Screw for motor             | MEC 90-100-112                 | Galvanized steel 8.8 strength class ISO 898/1 | M8x20      | ISO 4017 |
|        |                             | MEC 132                        | Galvanized steel 8.8 strength class ISO 898/1 | M12x45     | ISO 4017 |
|        |                             | MEC 160-180                    | Galvanized steel 8.8 strength class ISO 898/1 | M16x50     | ISO 4017 |
|        |                             | MEC 200                        | Galvanized steel 8.8 strength class ISO 898/1 | M16x60     | ISO 4014 |
| 128-1  | Nut (tie rod)               | A2-70                          |                                               | M16        | ISO 4032 |
| 128-2  | Nut (casing tie rod)        | A2-70                          |                                               | M5         | ISO 4032 |
| 128-3  | Nut (motor)                 | MEC 132                        | Galvanized steel                              | M12        | ISO 4032 |
|        |                             | MEC 160-180-200                | Galvanized steel                              | M16        | ISO 4032 |
| 128-6  | Nut (aluminium coupling)    | MEC 90-100-112                 | Galvanized steel                              | M6         | ISO 4032 |
| 130-1  | Set screw                   | EN 1.4301 (AISI 304)           |                                               | M6x8       | ISO 4026 |
| 130-2  | Screw for coupling guard    | A2-70                          |                                               | M5x6       | UNI 7687 |
| 131-1  | Pin for shaft               | up to 4.0 kW                   | Carbon Steel                                  | Ø8x42      | ISO 2338 |
|        |                             | above 5.5 kW                   | Carbon Steel                                  | Ø8x50      | ISO 2338 |
| 131-2  | Elastic pin                 | EN 1.4301 (AISI 304)           |                                               | Ø6x26      | ISO 8752 |
| 135-1  | Washer (tie rod)            | EN 1.4301 (AISI 304)           |                                               | Ø16        | ISO 7089 |
| 135-2  | Washer (casing tie rod)     | EN 1.4301 (AISI 304)           | EN 1.4404 (AISI 316)                          | Ø5.1       | UNI 1751 |
| 135-5  | Washer (impeller nut)       | EN 1.4301 (AISI 304)           | EN 1.4404 (AISI 316L)                         |            |          |
| 135-6  | Washer (aluminium coupling) | up to 4.0 kW                   | Carbon Steel                                  |            |          |
| 137-1  | Impeller spacer             | EN 1.4301 (AISI 304)           | EN 1.4404 (AISI 316L)                         |            |          |
| 137-2  | Shaft spacer                | EN 1.4301 (AISI 304)           | EN 1.4404 (AISI 316L)                         |            |          |
| 140    | Coupling                    | up to 4.0 kW                   | Die cast Aluminium EN AB-AISI11 Cu2 (Fe)      |            |          |
|        |                             | from 5.5 kW to 30 kW           | Cast Iron EN GJL250 EN 1561                   |            |          |
| 160    | Base                        | Cast Iron EN GJL200 EN 1561    |                                               |            |          |
| 162    | Motor bracket               | up to 30 kW                    | Cast Iron EN GJS 400-15 EN 1563               |            |          |
| 212    | Priming plug                | EN 1.4301 (AISI 304)           | EN 1.4404 (AISI 316L)                         |            |          |
| 212-1  | Drainage plug               | EN 1.4301 (AISI 304)           | EN 1.4404 (AISI 316L)                         |            |          |
| 212-2  | Venting plug                | EN 1.4401 (AISI 316)           |                                               |            |          |
| 212-3  | Priming plug                | EN 1.4301 (AISI 304)           | EN 1.4404 (AISI 316L)                         |            |          |
| 245    | Coupling guard              | EN 1.4301 (AISI 304)           |                                               |            |          |
| 273-1  | Washer (drainage plug)      | EN 1.4301 (AISI 304)           | EN 1.4404 (AISI 316L)                         |            |          |
| 615    | Loose flange                | Cast Iron EN GJS 500-7 EN 1563 |                                               |            |          |

### QUANTITY FOR MODEL EVMS(L)32

| Pump Type           | N° |     |     |     |     |     |   |   |    |    |      |    |      |      |      |      |      |      |      |      |      |    |    |    |    |      |      |    |      |   |  |  |  |
|---------------------|----|-----|-----|-----|-----|-----|---|---|----|----|------|----|------|------|------|------|------|------|------|------|------|----|----|----|----|------|------|----|------|---|--|--|--|
|                     | 4  | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 6 | 7 | 12 | 21 | 21-1 | 31 | 32-1 | 43-1 | 43-2 | 43-3 | 43-4 | 43-5 | 43-6 | 44-1 | 44-2 | 45 | 46 | 47 | 48 | 52-1 | 52-2 | 53 | 70-2 |   |  |  |  |
| EVMS(L)32 1-1/1.5   | 1  | 1   | /   | /   | /   | 1   | 1 | 1 | 1  | /  | 1    | 1  | 1    | 1    | 1    | /    | /    | 1    | 1    | /    | 1    | 4  | 1  | 1  | 1  | /    | 1    | 1  | 1    |   |  |  |  |
| EVMS(L)32 1-0/2.2   | 1  | 1   | /   | /   | /   | 1   | 1 | 1 | 1  | 1  | /    | 1  | 1    | 1    | 1    | /    | /    | 1    | 1    | /    | 1    | 4  | 1  | 1  | 1  | /    | 1    | 1  | 1    |   |  |  |  |
| EVMS(L)32 2-2/3     | 1  | 1   | /   | /   | 1   | 1   | 1 | 1 | 1  | 1  | /    | 2  | 1    | 1    | 1    | 2    | /    | /    | 1    | 1    | /    | 1  | 4  | 1  | 1  | 1    | /    | 1  | 2    | 1 |  |  |  |
| EVMS(L)32 2-0/4     | 1  | 1   | /   | /   | 1   | 1   | 1 | 1 | 1  | 1  | 2    | /  | 1    | 1    | 1    | 2    | /    | /    | 1    | 1    | /    | 1  | 4  | 1  | 1  | 1    | /    | 1  | 2    | 1 |  |  |  |
| EVMS(L)32 3-2/5.5   | 1  | 1   | /   | 1   | 1   | 1   | 1 | 1 | 1  | 1  | 2    | 1  | 1    | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | 1    | 1    | 1  | 2    | 1 |  |  |  |
| EVMS(L)32 3-0/5.5   | 1  | 1   | /   | 1   | 1   | 1   | 1 | 1 | 1  | 1  | 3    | /  | 1    | 1    | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | 1    | 1    | 1  | 2    | 1 |  |  |  |
| EVMS(L)32 4-2/7.5   | 1  | 1   | 1   | 1   | 1   | 1   | 1 | 1 | 1  | 1  | 2    | 2  | 1    | 1    | 1    | 3    | 1    | 1    | 1    | 1    | 1    | 1  | 4  | 1  | 1  | 1    | 1    | 1  | 4    | 1 |  |  |  |
| EVMS(L)32 4-0/7.5   | 1  | 1   | 1   | 1   | 1   | 1   | 1 | 1 | 1  | 1  | 4    | /  | 1    | 1    | 1    | 3    | 1    | 1    | 1    | 1    | 1    | 1  | 4  | 1  | 1  | 1    | 1    | 1  | 4    | 1 |  |  |  |
| EVMS(L)32 5-2/11    | 1  | 1   | 2   | 1   | 1   | 1   | 1 | 1 | 1  | 1  | 3    | 2  | 1    | 1    | 1    | 4    | 1    | 1    | 1    | 1    | 1    | 1  | 4  | 1  | 1  | 1    | 1    | 1  | 5    | 1 |  |  |  |
| EVMS(L)32 5-0/11    | 1  | 1   | 2   | 1   | 1   | 1   | 1 | 1 | 1  | 1  | 5    | /  | 1    | 1    | 1    | 4    | 1    | 1    | 1    | 1    | 1    | 1  | 4  | 1  | 1  | 1    | 1    | 1  | 5    | 1 |  |  |  |
| EVMS(L)32 6-2/11    | 1  | 1   | 3   | 1   | 1   | 1   | 1 | 1 | 1  | 1  | 4    | 2  | 1    | 1    | 1    | 5    | 1    | 1    | 1    | 1    | 1    | 1  | 4  | 1  | 1  | 1    | 1    | 1  | 6    | 1 |  |  |  |
| EVMS(L)32 6-0/11    | 1  | 1   | 3   | 1   | 1   | 1   | 1 | 1 | 1  | 1  | 6    | /  | 1    | 1    | 1    | 5    | 1    | 1    | 1    | 1    | 1    | 1  | 4  | 1  | 1  | 1    | 1    | 1  | 6    | 1 |  |  |  |
| EVMS(L)32 7-2/15    | 1  | 1   | 4   | 1   | 1   | 1   | 1 | 1 | 1  | 1  | 5    | 2  | 1    | 1    | 1    | 6    | 1    | 1    | 1    | 1    | 1    | 1  | 4  | 1  | 1  | 1    | 1    | 1  | 7    | 1 |  |  |  |
| EVMS(L)32 7-0/15    | 1  | 1   | 4   | 1   | 1   | 1   | 1 | 1 | 1  | 1  | 7    | /  | 1    | 1    | 1    | 6    | 1    | 1    | 1    | 1    | 1    | 1  | 4  | 1  | 1  | 1    | 1    | 1  | 7    | 1 |  |  |  |
| EVMS(L)32 8-2/15    | 1  | 1   | 5   | 1   | 1   | 1   | 1 | 1 | 1  | 1  | 6    | 2  | 1    | 1    | 1    | 7    | 1    | 1    | 1    | 1    | 1    | 1  | 4  | 1  | 1  | 1    | 1    | 1  | 8    | 1 |  |  |  |
| EVMS(L)32 8-0/15    | 1  | 1   | 5   | 1   | 1   | 1   | 1 | 1 | 1  | 1  | 8    | /  | 1    | 1    | 1    | 7    | 1    | 1    | 1    | 1    | 1    | 1  | 4  | 1  | 1  | 1    | 1    | 1  | 8    | 1 |  |  |  |
| EVMS(L)32 9-2/15    | 1  | 1   | 6   | 1   | 1   | 1   | 1 | 1 | 1  | 1  | 7    | 2  | 1    | 1    | 1    | 8    | 1    | 1    | 1    | 1    | 1    | 1  | 4  | 1  | 1  | 1    | 1    | 1  | 9    | 1 |  |  |  |
| EVMS(L)32 9-1/15    | 1  | 1   | 6   | 1   | 1   | 1   | 1 | 1 | 1  | 1  | 8    | 1  | 1    | 1    | 1    | 8    | 1    | 1    | 1    | 1    | 1    | 1  | 4  | 1  | 1  | 1    | 1    | 1  | 9    | 1 |  |  |  |
| EVMS(L)32 10-2/18.5 | 1  | 1   | 7   | 1   | 1   | 1   | 1 | 1 | 1  | 1  | 8    | 2  | 1    | 1    | 1    | 9    | 1    | 1    | 1    | 1    | 1    | 1  | 4  | 1  | 1  | 1    | 1    | 1  | 10   | 1 |  |  |  |
| EVMS(L)32 10-0/18.5 | 1  | 1   | 7   | 1   | 1   | 1   | 1 | 1 | 1  | 1  | 10   | /  | 1    | 1    | 1    | 9    | 1    | 1    | 1    | 1    | 1    | 1  | 4  | 1  | 1  | 1    | 1    | 1  | 10   | 1 |  |  |  |
| EVMS(L)32 11-2/18.5 | 1  | 1   | 7   | 2   | 1   | 1   | 1 | 1 | 1  | 1  | 9    | 2  | 1    | 1    | 1    | 9    | 2    | 2    | 1    | 1    | 2    | 1  | 4  | 1  | 1  | 1    | 2    | 1  | 10   | 1 |  |  |  |
| EVMS(L)32 11-1/18.5 | 1  | 1   | 7   | 2   | 1   | 1   | 1 | 1 | 1  | 1  | 10   | 1  | 1    | 1    | 1    | 9    | 2    | 2    | 1    | 1    | 2    | 1  | 4  | 1  | 1  | 1    | 2    | 1  | 10   | 1 |  |  |  |
| EVMS(L)32 12-2/22   | 1  | 1   | 8   | 2   | 1   | 1   | 1 | 1 | 1  | 1  | 10   | 2  | 1    | 1    | 1    | 10   | 2    | 2    | 1    | 1    | 2    | 1  | 4  | 1  | 1  | 1    | 2    | 1  | 11   | 1 |  |  |  |
| EVMS(L)32 12-0/22   | 1  | 1   | 8   | 2   | 1   | 1   | 1 | 1 | 1  | 1  | 12   | /  | 1    | 1    | 1    | 10   | 2    | 2    | 1    | 1    | 2    | 1  | 4  | 1  | 1  | 1    | 2    | 1  | 11   | 1 |  |  |  |
| EVMS(L)32 13-2/22   | 1  | 1   | 9   | 2   | 1   | 1   | 1 | 1 | 1  | 1  | 11   | 2  | 1    | 1    | 1    | 11   | 2    | 2    | 1    | 1    | 2    | 1  | 4  | 1  | 1  | 1    | 2    | 1  | 12   | 1 |  |  |  |
| EVMS(L)32 13-0/22   | 1  | 1   | 9   | 2   | 1   | 1   | 1 | 1 | 1  | 1  | 13   | /  | 1    | 1    | 1    | 11   | 2    | 2    | 1    | 1    | 2    | 1  | 4  | 1  | 1  | 1    | 2    | 1  | 12   | 1 |  |  |  |
| EVMS(L)32 14-2/30   | 1  | 1   | 10  | 2   | 1   | 1   | 1 | 1 | 1  | 1  | 12   | 2  | 1    | 1    | 1    | 12   | 2    | 2    | 1    | 1    | 2    | 1  | 4  | 1  | 1  | 1    | 2    | 1  | 13   | 1 |  |  |  |
| EVMS(L)32 14-0/30   | 1  | 1   | 10  | 2   | 1   | 1   | 1 | 1 | 1  | 1  | 14   | /  | 1    | 1    | 1    | 12   | 2    | 2    | 1    | 1    | 2    | 1  | 4  | 1  | 1  | 1    | 2    | 1  | 13   | 1 |  |  |  |

| Pump Type           | N° |      |    |     |       |       |       |       |       |       |       |       |       |       |       |       |        |        |       |       |       |       |       |       |       |       |       |       |  |  |  |  |
|---------------------|----|------|----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|
|                     | 75 | 75-1 | 81 | 107 | 111-1 | 111-3 | 111-4 | 111-5 | 115-1 | 115-4 | 115-5 | 120-1 | 120-2 | 120-3 | 120-6 | 120-9 | 120-12 | 120-13 | 128-1 | 128-2 | 128-3 | 128-6 | 130-1 | 130-2 | 131-1 | 131-2 | 135-1 | 135-2 |  |  |  |  |
| EVMS(L)32 1-1/1.5   | 2  | 4    | 1  | 1   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 8     | /     | 4     | 3     | 4     | 1     | 1     | 4     | 2     |  |  |  |  |
| EVMS(L)32 1-0/2.2   | 2  | 4    | 1  | 1   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 8     | /     | 4     | 3     | 4     | 1     | 1     | 4     | 2     |  |  |  |  |
| EVMS(L)32 2-2/3     | 2  | 4    | 2  | 2   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 8     | /     | 4     | 3     | 4     | 1     | 1     | 4     | 2     |  |  |  |  |
| EVMS(L)32 2-0/4     | 2  | 4    | 2  | 2   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 8     | /     | 4     | 3     | 4     | 1     | 1     | 4     | 2     |  |  |  |  |
| EVMS(L)32 3-2/5.5   | 2  | 4    | 2  | 3   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 8     | /     | /     | 3     | 4     | 1     | 1     | 4     | 2     |  |  |  |  |
| EVMS(L)32 3-0/5.5   | 2  | 4    | 2  | 3   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 8     | /     | /     | 3     | 4     | 1     | 1     | 4     | 2     |  |  |  |  |
| EVMS(L)32 4-2/7.5   | 2  | 4    | 3  | 4   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 8     | /     | /     | 3     | 4     | 1     | 1     | 4     | 2     |  |  |  |  |
| EVMS(L)32 4-0/7.5   | 2  | 4    | 3  | 4   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 8     | /     | /     | 3     | 4     | 1     | 1     | 4     | 2     |  |  |  |  |
| EVMS(L)32 5-2/11    | 2  | 4    | 4  | 5   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | /     | /     | 3     | 4     | 1     | 1     | 4     | 2     |  |  |  |  |
| EVMS(L)32 5-0/11    | 2  | 4    | 4  | 5   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | /     | /     | 3     | 4     | 1     | 1     | 4     | 2     |  |  |  |  |
| EVMS(L)32 6-2/11    | 2  | 4    | 5  | 6   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | /     | /     | 3     | 4     | 1     | 1     | 4     | 2     |  |  |  |  |
| EVMS(L)32 6-0/11    | 2  | 4    | 5  | 6   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | /     | /     | 3     | 4     | 1     | 1     | 4     | 2     |  |  |  |  |
| EVMS(L)32 7-2/15    | 2  | 4    | 6  | 7   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | /     | /     | 3     | 4     | 1     | 1     | 4     | 2     |  |  |  |  |
| EVMS(L)32 7-0/15    | 2  | 4    | 6  | 7   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | /     | /     | 3     | 4     | 1     | 1     | 4     | 2     |  |  |  |  |
| EVMS(L)32 8-2/15    | 2  | 4    | 7  | 8   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | /     | /     | 3     | 4     | 1     | 1     | 4     | 2     |  |  |  |  |
| EVMS(L)32 8-0/15    | 2  | 4    | 7  | 8   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | /     | /     | 3     | 4     | 1     | 1     | 4     | 2     |  |  |  |  |
| EVMS(L)32 9-2/15    | 2  | 4    | 8  | 9   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | /     | /     | 3     | 4     | 1     | 1     | 4     | 2     |  |  |  |  |
| EVMS(L)32 9-1/15    | 2  | 4    | 8  | 9   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | /     | /     | 3     | 4     | 1     | 1     | 4     | 2     |  |  |  |  |
| EVMS(L)32 10-2/18.5 | 2  | 4    | 9  | 10  | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | /     | /     | 3     | 4     | 1     | 1     | 4     | 2     |  |  |  |  |
| EVMS(L)32 10-0/18.5 | 2  | 4    | 9  | 10  | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | /     | /     | 3     | 4     | 1     | 1     | 4     | 2     |  |  |  |  |
| EVMS(L)32 11-2/18.5 | 2  | 4    | 9  | 11  | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | /     | /     | 3     | 4     | 1     | 1     | 4     | 2     |  |  |  |  |
| EVMS(L)32 11-1/18.5 | 2  | 4    | 9  | 11  | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | /     | /     | 3     | 4     | 1     | 1     | 4     | 2     |  |  |  |  |
| EVMS(L)32 12-2/22   | 2  | 4    | 10 | 12  | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | /     | /     | 3     | 4     | 1     | 1     | 4     | 2     |  |  |  |  |
| EVMS(L)32 12-0/22   | 2  | 4    | 10 | 12  | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | /     | /     | 3     | 4     | 1     | 1     | 4     | 2     |  |  |  |  |
| EVMS(L)32 13-2/22   | 2  | 4    | 11 | 13  | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | /     | /     | 3     | 4     | 1     | 1     | 4     | 2     |  |  |  |  |
| EVMS(L)32 13-0/22   | 2  | 4    | 11 | 13  | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | /     | /     | 3     | 4     | 1     | 1     | 4     | 2     |  |  |  |  |
| EVMS(L)32 14-2/30   | 2  | 4    | 12 | 14  | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | /     | /     | 3     | 4     | 1     | 1     | 4     | 2     |  |  |  |  |
| EVMS(L)32 14-0/30   | 2  | 4    | 12 | 14  | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | /     | /     | 3     | 4     | 1     | 1     | 4     | 2     |  |  |  |  |

### QUANTITY FOR MODEL EVMS(L)32

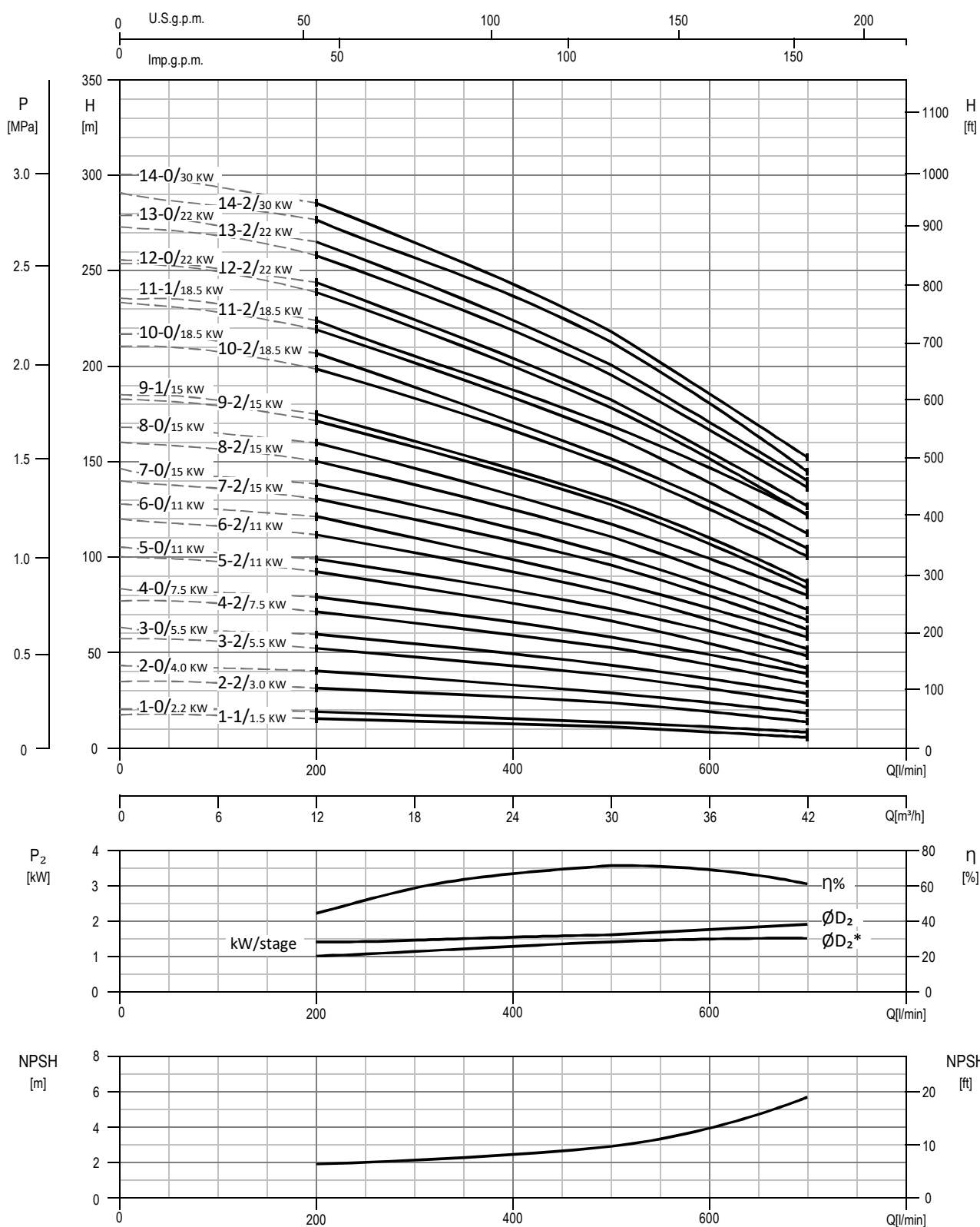
| Pump Type           | N°    |       |       |       |     |     |     |     |       |       |       |     |       |     |
|---------------------|-------|-------|-------|-------|-----|-----|-----|-----|-------|-------|-------|-----|-------|-----|
|                     | 135-5 | 135-6 | 137-1 | 137-2 | 140 | 160 | 162 | 212 | 212-1 | 212-2 | 212-3 | 245 | 273-1 | 615 |
| EVMS(L)32 1-1/1.5   | 1     | 4     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |
| EVMS(L)32 1-0/2.2   | 1     | 4     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |
| EVMS(L)32 2-2/3     | 1     | 4     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |
| EVMS(L)32 2-0/4     | 1     | 4     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |
| EVMS(L)32 3-2/5.5   | 1     | /     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |
| EVMS(L)32 3-0/5.5   | 1     | /     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |
| EVMS(L)32 4-2/7.5   | 1     | /     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |
| EVMS(L)32 4-0/7.5   | 1     | /     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |
| EVMS(L)32 5-2/11    | 1     | /     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |
| EVMS(L)32 5-0/11    | 1     | /     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |
| EVMS(L)32 6-2/11    | 1     | /     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |
| EVMS(L)32 6-0/11    | 1     | /     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |
| EVMS(L)32 7-2/15    | 1     | /     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |
| EVMS(L)32 7-0/15    | 1     | /     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |
| EVMS(L)32 8-2/15    | 1     | /     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |
| EVMS(L)32 8-0/15    | 1     | /     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |
| EVMS(L)32 9-2/15    | 1     | /     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |
| EVMS(L)32 9-1/15    | 1     | /     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |
| EVMS(L)32 10-2/18.5 | 1     | /     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |
| EVMS(L)32 10-0/18.5 | 1     | /     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |
| EVMS(L)32 11-2/18.5 | 1     | /     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |
| EVMS(L)32 11-1/18.5 | 1     | /     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |
| EVMS(L)32 12-2/22   | 1     | /     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |
| EVMS(L)32 12-0/22   | 1     | /     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |
| EVMS(L)32 13-2/22   | 1     | /     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |
| EVMS(L)32 13-0/22   | 1     | /     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |
| EVMS(L)32 14-2/30   | 1     | /     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |
| EVMS(L)32 14-0/30   | 1     | /     | 1     | 1     | 2   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 2   |

### BEARINGS EVMS(L)32

| Pump Type           | N° 56 |
|---------------------|-------|
| EVMS(L)32 1-1/1.5   | /     |
| EVMS(L)32 1-0/2.2   | /     |
| EVMS(L)32 2-2/3.0   | /     |
| EVMS(L)32 2-0/4.0   | /     |
| EVMS(L)32 3-2/5.5   | /     |
| EVMS(L)32 3-0/5.5   | /     |
| EVMS(L)32 4-2/7.5   | /     |
| EVMS(L)32 4-0/7.5   | /     |
| EVMS(L)32 5-2/11    | /     |
| EVMS(L)32 5-0/11    | /     |
| EVMS(L)32 6-2/11    | /     |
| EVMS(L)32 6-0/11    | /     |
| EVMS(L)32 7-2/15    | /     |
| EVMS(L)32 7-0/15    | /     |
| EVMS(L)32 8-2/15    | /     |
| EVMS(L)32 8-0/15    | /     |
| EVMS(L)32 9-2/15    | /     |
| EVMS(L)32 9-1/15    | /     |
| EVMS(L)32 10-2/18.5 | /     |
| EVMS(L)32 10-0/18.5 | /     |
| EVMS(L)32 11-2/18.5 | /     |
| EVMS(L)32 11-1/18.5 | /     |
| EVMS(L)32 12-2/22   | /     |
| EVMS(L)32 12-0/22   | /     |
| EVMS(L)32 13-2/22   | /     |
| EVMS(L)32 13-0/22   | /     |
| EVMS(L)32 14-2/30   | /     |
| EVMS(L)32 14-0/30   | /     |

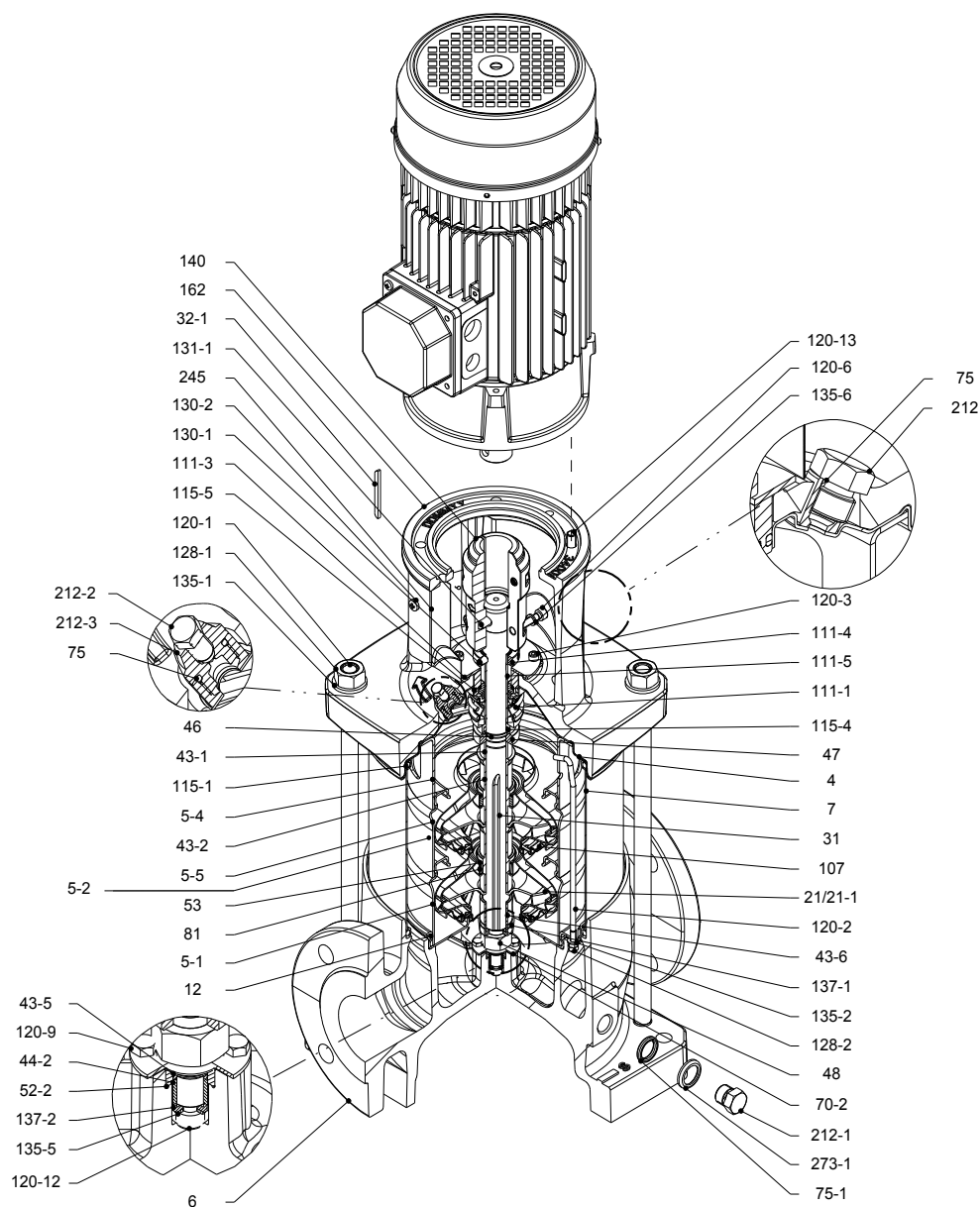


PERFORMANCE CURVE  
EVMSG32



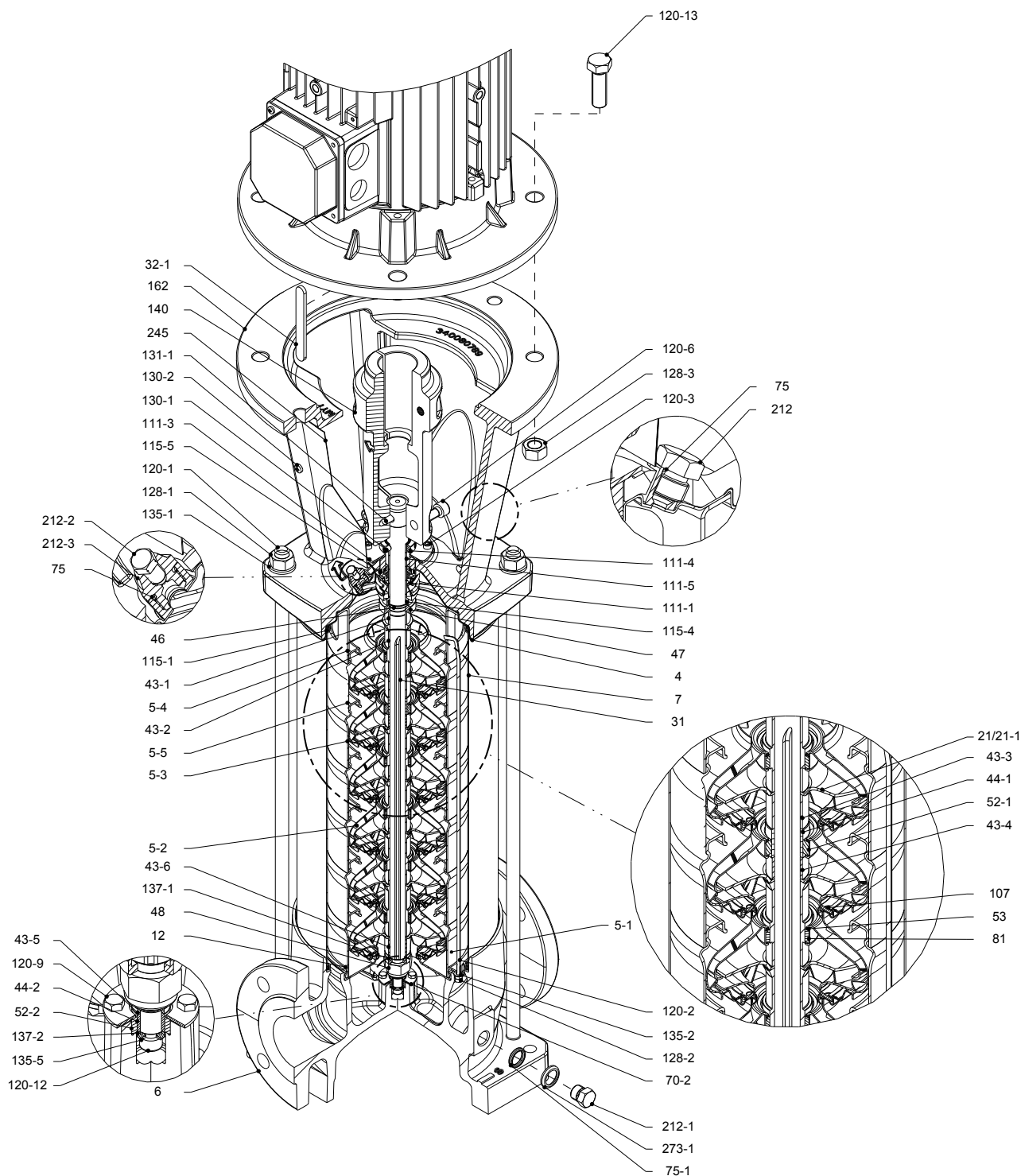
Test standard: ISO 9906:2012 - Grade 3B



SECTIONAL VIEW  
EVMSG32

Pump without ball bearing  
up to 4.0 kW

### SECTIONAL VIEW EVMSG32



Pump without ball bearing  
from 5.5 kW to 30 kW

SECTIONAL TABLE  
EVMSG32

| N°    | PART NAME                        | MATERIAL<br>EVMSG                     | DIMENSIONS   | STANDARD |
|-------|----------------------------------|---------------------------------------|--------------|----------|
| 4     | Casing cover                     | EN 1.4301 (AISI 304)                  |              |          |
| 5-1   | Suction casing                   | EN 1.4301 (AISI 304)                  |              |          |
| 5-2   | Intermediate casing              | EN 1.4301 (AISI 304)                  |              |          |
| 5-3   | Intermediate casing with bearing | EN 1.4301 (AISI 304)                  |              |          |
| 5-4   | Discharge casing                 | EN 1.4301 (AISI 304)                  |              |          |
| 5-5   | Top intermediate casing          | EN 1.4301 (AISI 304)                  |              |          |
| 6     | Bottom casing                    | Cast Iron EN GJL-250 EN 1561          |              |          |
| 7     | Outer casing                     | EN 1.4301 (AISI 304)                  |              |          |
| 12    | Suction cover                    | EN 1.4301 (AISI 304)                  |              |          |
| 21    | Impeller                         | EN 1.4301 (AISI 304)                  |              |          |
| 21-1  | Reduced impeller                 | EN 1.4301 (AISI 304)                  |              |          |
| 31    | Shaft                            | EN 1.4301 (AISI 304)                  |              |          |
| 32-1  | Adjuster key                     | EN 1.4301 (AISI 304)                  |              |          |
| 43-1  | Shaft sleeve (mechanical seal)   | EN 1.4301 (AISI 304)                  |              |          |
| 43-2  | Shaft sleeve (intermediate)      | EN 1.4301 (AISI 304)                  |              |          |
| 43-3  | Shaft sleeve (bearing)           | EN 1.4301 (AISI 304)                  |              |          |
| 43-4  | Shaft sleeve (adjustment)        | EN 1.4301 (AISI 304)                  |              |          |
| 43-5  | Shaft sleeve (last stage)        | EN 1.4301 (AISI 304)                  |              |          |
| 43-6  | Shaft sleeve (adjustment)        | EN 1.4301 (AISI 304)                  |              |          |
| 44-1  | Shaft sleeve bearing             | Tungsten carbide                      |              |          |
| 44-2  | Shaft sleeve (bearing)           | Tungsten carbide                      |              |          |
| 46    | Ring (mechanical seal)           | EN 1.4404 (AISI 316L)                 |              |          |
| 47    | Ring holder                      | EN 1.4301 (AISI 304)                  |              |          |
| 48    | Impeller nut                     | EN 1.4301 (AISI 304) with inox insert |              |          |
| 52-1  | Sleeve bearing                   | Tungsten carbide                      |              |          |
| 52-2  | Bearing sleeve (bottom casing)   | Tungsten carbide                      |              |          |
| 53    | Bush holder                      | EN 1.4301 (AISI 304)                  |              |          |
| 70-2  | Ring for bearing sleeve          | EN 1.4301 (AISI 304)                  |              |          |
| 75    | O-Ring (priming plug)            | EPDM / FPM                            | Ø12.37x2.62  | OR 3050  |
| 75-1  | O-Ring (drainage plug)           | EPDM / FPM                            |              |          |
| 81    | Bush                             | PTFE                                  |              |          |
| 107   | Liner ring                       | EN 1.4301 (AISI 304) + PPS            |              |          |
| 111-1 | Mechanical seal                  | see pages 6-7                         |              |          |
| 111-3 | Mechanical seal seat             | EN 1.4301 (AISI 304)                  |              |          |
| 111-4 | Seal holder                      | EN 1.4404 (AISI 316L)                 |              |          |
| 111-5 | Mechanical seal cartridge sleeve | EN 1.4301 (AISI 304)                  |              |          |
| 115-1 | O-Ring (outer casing)            | EPDM / FPM                            | Ø240.66x5.34 | OR 6945  |
| 115-4 | O-Ring (cartridge sleeve)        | EPDM / FPM                            | Ø23.39x3.53  | OR 4093  |
| 115-5 | O-Ring (seal flange)             | EPDM / FPM                            | Ø44.04x3.53  | OR 4175  |
| 120-1 | Tie rod                          | EN 1.4057 (AISI 431)                  |              |          |
| 120-2 | Tie rod (stage)                  | EN 1.4301 (AISI 304)                  |              |          |
| 120-3 | Screw (seal flange)              | A2-70                                 | M5x12        | ISO 4762 |

### SECTIONAL TABLE EVMSG32

| N°     | PART NAME                   |                       | MATERIAL<br>EVMSG                             | DIMENSIONS | STANDARD |
|--------|-----------------------------|-----------------------|-----------------------------------------------|------------|----------|
| 120-6  | Screw (pump coupling)       | up to 4.0 kW          | Galvanized steel 8.8 strength class ISO 898/1 | M6x25      | ISO 4762 |
|        |                             | from 5.5 kW to 7.5 kW | Galvanized steel 8.8 strength class ISO 898/1 | M8x25      | ISO 4762 |
|        |                             | above 11 kW           | Galvanized steel 8.8 strength class ISO 898/1 | M10x30     | ISO 4762 |
| 120-9  | Screw (bottom casing)       |                       | A2-70                                         | M5x8       | ISO 4017 |
| 120-12 | Screw (shaft)               |                       | A2-70                                         | M6x16      | ISO 4762 |
| 120-13 | Screw for motor             | MEC 90-100-112        | Galvanized steel 8.8 strength class ISO 898/1 | M8x20      | ISO 4017 |
|        |                             | MEC 132               | Galvanized steel 8.8 strength class ISO 898/1 | M12x45     | ISO 4017 |
|        |                             | MEC 160-180           | Galvanized steel 8.8 strength class ISO 898/1 | M16x50     | ISO 4017 |
|        |                             | MEC 200-225           | Galvanized steel 8.8 strength class ISO 898/1 | M16x60     | ISO 4014 |
| 128-1  | Nut (tie rod)               |                       | A2-70                                         | M16        | ISO 4032 |
| 128-2  | Nut (casing tie rod)        |                       | A2-70                                         | M5         | ISO 4032 |
| 128-3  | Nut (motor)                 | MEC 132               | Galvanized steel                              | M12        | ISO 4032 |
|        |                             | MEC 160-180-200-225   | Galvanized steel                              | M16        | ISO 4032 |
| 128-6  | Nut (aluminium coupling)    | MEC 90-100-112        | Galvanized steel                              | M6         | ISO 4032 |
| 130-1  | Set screw                   |                       | EN 1.4301 (AISI 304)                          | M6x8       | ISO 4026 |
| 130-2  | Screw for coupling guard    |                       | A2-70                                         | M5x6       | UNI 7687 |
| 131-1  | Pin for shaft               | up to 4.0 kW          | Carbon Steel                                  | Ø8x42      | ISO 2338 |
|        |                             | above 5.5 kW          | Carbon Steel                                  | Ø8x50      | ISO 2338 |
| 135-1  | Washer (tie rod)            |                       | EN 1.4301 (AISI 304)                          | Ø16        | ISO 7089 |
| 135-2  | Washer (casing tie rod)     |                       | EN 1.4301 (AISI 304)                          | Ø5,1       | UNI 1751 |
| 135-5  | Washer (impeller nut)       |                       | EN 1.4301 (AISI 304)                          |            |          |
| 135-6  | Washer (aluminium coupling) | up to 4.0 kW          | Carbon Steel                                  |            |          |
| 137-1  | Impeller spacer             |                       | EN 1.4301 (AISI 304)                          |            |          |
| 137-2  | Shaft spacer                |                       | EN 1.4301 (AISI 304)                          |            |          |
| 140    | Coupling                    | up to 4.0 kW          | Die cast Aluminium EN AB-AISI11 Cu2 (Fe)      |            |          |
|        |                             | from 5.5 kW to 30 kW  | Cast Iron EN GJL250 EN 1561                   |            |          |
| 162    | Motor bracket               | up to 30 kW           | Cast Iron EN GJS 400-15 EN 1563               |            |          |
| 212    | Priming plug                |                       | EN 1.4301 (AISI 304)                          |            |          |
| 212-1  | Drainage plug               |                       | EN 1.4301 (AISI 304)                          |            |          |
| 212-2  | Venting plug                |                       | EN 1.4401 (AISI 316)                          |            |          |
| 212-3  | Priming plug                |                       | EN 1.4301 (AISI 304)                          |            |          |
| 245    | Coupling guard              |                       | EN 1.4301 (AISI 304)                          |            |          |
| 273-1  | Washer (drainage plug)      |                       | EN 1.4301 (AISI 304)                          |            |          |

### QUANTITY FOR MODEL EVMSG32

| Pump Type         | 1N° |     |     |     |     |     |   |   |    |    |      |    |      |      |      |      |      |      |      |      |      |    |    |    |      |      |    |      |    |   |  |  |  |
|-------------------|-----|-----|-----|-----|-----|-----|---|---|----|----|------|----|------|------|------|------|------|------|------|------|------|----|----|----|------|------|----|------|----|---|--|--|--|
|                   | 4   | 5-1 | 5-2 | 5-3 | 5-4 | 5-5 | 6 | 7 | 12 | 21 | 21-1 | 31 | 32-1 | 43-1 | 43-2 | 43-3 | 43-4 | 43-5 | 43-6 | 44-1 | 44-2 | 46 | 47 | 48 | 52-1 | 52-2 | 53 | 70-2 | 75 |   |  |  |  |
| EVMSG32 1-1/1.5   | 1   | 1   | /   | /   | /   | 1   | 1 | 1 | 1  | /  | 1    | 1  | 1    | 1    | 1    | /    | /    | 1    | 1    | /    | 1    | 1  | 1  | 1  | 1    | /    | 1  | 1    | 1  | 2 |  |  |  |
| EVMSG32 1-0/2.2   | 1   | 1   | /   | /   | /   | 1   | 1 | 1 | 1  | 1  | /    | 1  | 1    | 1    | 1    | /    | /    | 1    | 1    | /    | 1    | 1  | 1  | 1  | 1    | /    | 1  | 1    | 1  | 2 |  |  |  |
| EVMSG32 2-2/3.0   | 1   | 1   | /   | /   | 1   | 1   | 1 | 1 | 1  | /  | 2    | 1  | 1    | 1    | 2    | /    | /    | 1    | 1    | /    | 1    | 1  | 1  | 1  | 1    | /    | 1  | 2    | 1  | 2 |  |  |  |
| EVMSG32 2-0/4.0   | 1   | 1   | /   | /   | 1   | 1   | 1 | 1 | 1  | 2  | /    | 1  | 1    | 1    | 2    | /    | /    | 1    | 1    | /    | 1    | 1  | 1  | 1  | 1    | /    | 1  | 2    | 1  | 2 |  |  |  |
| EVMSG32 3-2/5.5   | 1   | 1   | /   | 1   | 1   | 1   | 1 | 1 | 1  | 1  | 2    | 1  | 1    | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1    | 1    | 1  | 2    | 1  | 2 |  |  |  |
| EVMSG32 3-0/5.5   | 1   | 1   | /   | 1   | 1   | 1   | 1 | 1 | 1  | 3  | /    | 1  | 1    | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1    | 1    | 1  | 2    | 1  | 2 |  |  |  |
| EVMSG32 4-2/7.5   | 1   | 1   | 1   | 1   | 1   | 1   | 1 | 1 | 1  | 2  | 2    | 1  | 1    | 1    | 3    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1    | 1    | 1  | 4    | 1  | 2 |  |  |  |
| EVMSG32 4-0/7.5   | 1   | 1   | 1   | 1   | 1   | 1   | 1 | 1 | 1  | 4  | /    | 1  | 1    | 1    | 3    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1    | 1    | 1  | 4    | 1  | 2 |  |  |  |
| EVMSG32 5-2/11    | 1   | 1   | 2   | 1   | 1   | 1   | 1 | 1 | 1  | 3  | 2    | 1  | 1    | 1    | 4    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1    | 1    | 1  | 5    | 1  | 2 |  |  |  |
| EVMSG32 5-0/11    | 1   | 1   | 2   | 1   | 1   | 1   | 1 | 1 | 1  | 5  | /    | 1  | 1    | 1    | 4    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1    | 1    | 1  | 5    | 1  | 2 |  |  |  |
| EVMSG32 6-2/11    | 1   | 1   | 3   | 1   | 1   | 1   | 1 | 1 | 1  | 4  | 2    | 1  | 1    | 1    | 5    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1    | 1    | 1  | 6    | 1  | 2 |  |  |  |
| EVMSG32 6-0/11    | 1   | 1   | 3   | 1   | 1   | 1   | 1 | 1 | 1  | 6  | /    | 1  | 1    | 1    | 5    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1    | 1    | 1  | 6    | 1  | 2 |  |  |  |
| EVMSG32 7-2/15    | 1   | 1   | 4   | 1   | 1   | 1   | 1 | 1 | 1  | 5  | 2    | 1  | 1    | 1    | 6    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1    | 1    | 1  | 7    | 1  | 2 |  |  |  |
| EVMSG32 7-0/15    | 1   | 1   | 4   | 1   | 1   | 1   | 1 | 1 | 1  | 7  | /    | 1  | 1    | 1    | 6    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1    | 1    | 1  | 7    | 1  | 2 |  |  |  |
| EVMSG32 8-2/15    | 1   | 1   | 5   | 1   | 1   | 1   | 1 | 1 | 1  | 6  | 2    | 1  | 1    | 1    | 7    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1    | 1    | 1  | 8    | 1  | 2 |  |  |  |
| EVMSG32 8-0/15    | 1   | 1   | 5   | 1   | 1   | 1   | 1 | 1 | 1  | 8  | /    | 1  | 1    | 1    | 7    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1    | 1    | 1  | 8    | 1  | 2 |  |  |  |
| EVMSG32 9-2/15    | 1   | 1   | 6   | 1   | 1   | 1   | 1 | 1 | 1  | 7  | 2    | 1  | 1    | 1    | 8    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1    | 1    | 1  | 9    | 1  | 2 |  |  |  |
| EVMSG32 9-1/15    | 1   | 1   | 6   | 1   | 1   | 1   | 1 | 1 | 1  | 8  | 1    | 1  | 1    | 1    | 8    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1    | 1    | 1  | 9    | 1  | 2 |  |  |  |
| EVMSG32 10-2/18.5 | 1   | 1   | 7   | 1   | 1   | 1   | 1 | 1 | 1  | 8  | 2    | 1  | 1    | 1    | 9    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1    | 1    | 1  | 10   | 1  | 2 |  |  |  |
| EVMSG32 10-0/18.5 | 1   | 1   | 7   | 1   | 1   | 1   | 1 | 1 | 1  | 10 | /    | 1  | 1    | 1    | 9    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1    | 1    | 1  | 10   | 1  | 2 |  |  |  |
| EVMSG32 11-2/18.5 | 1   | 1   | 7   | 2   | 1   | 1   | 1 | 1 | 1  | 9  | 2    | 1  | 1    | 1    | 9    | 2    | 2    | 1    | 1    | 2    | 1    | 1  | 1  | 1  | 1    | 2    | 1  | 10   | 1  | 2 |  |  |  |
| EVMSG32 11-1/18.5 | 1   | 1   | 7   | 2   | 1   | 1   | 1 | 1 | 1  | 10 | 1    | 1  | 1    | 1    | 9    | 2    | 2    | 1    | 1    | 2    | 1    | 1  | 1  | 1  | 1    | 2    | 1  | 10   | 1  | 2 |  |  |  |
| EVMSG32 12-2/22   | 1   | 1   | 8   | 2   | 1   | 1   | 1 | 1 | 1  | 10 | 2    | 1  | 1    | 1    | 10   | 2    | 2    | 1    | 1    | 2    | 1    | 1  | 1  | 1  | 1    | 2    | 1  | 11   | 1  | 2 |  |  |  |
| EVMSG32 12-0/22   | 1   | 1   | 8   | 2   | 1   | 1   | 1 | 1 | 1  | 12 | /    | 1  | 1    | 1    | 10   | 2    | 2    | 1    | 1    | 2    | 1    | 1  | 1  | 1  | 1    | 2    | 1  | 11   | 1  | 2 |  |  |  |
| EVMSG32 13-2/22   | 1   | 1   | 9   | 2   | 1   | 1   | 1 | 1 | 1  | 11 | 2    | 1  | 1    | 1    | 11   | 2    | 2    | 1    | 1    | 2    | 1    | 1  | 1  | 1  | 1    | 2    | 1  | 12   | 1  | 2 |  |  |  |
| EVMSG32 13-0/22   | 1   | 1   | 9   | 2   | 1   | 1   | 1 | 1 | 1  | 13 | /    | 1  | 1    | 1    | 11   | 2    | 2    | 1    | 1    | 2    | 1    | 1  | 1  | 1  | 1    | 2    | 1  | 12   | 1  | 2 |  |  |  |
| EVMSG32 14-2/30   | 1   | 1   | 10  | 2   | 1   | 1   | 1 | 1 | 1  | 12 | 2    | 1  | 1    | 1    | 12   | 2    | 2    | 1    | 1    | 2    | 1    | 1  | 1  | 1  | 1    | 2    | 1  | 13   | 1  | 2 |  |  |  |
| EVMSG32 14-0/30   | 1   | 1   | 10  | 2   | 1   | 1   | 1 | 1 | 1  | 14 | /    | 1  | 1    | 1    | 12   | 2    | 2    | 1    | 1    | 2    | 1    | 1  | 1  | 1  | 1    | 2    | 1  | 13   | 1  | 2 |  |  |  |

| Pump Type         | N°   |    |     |       |       |       |       |       |       |       |       |       |       |       |       |        |        |       |       |       |       |       |       |       |       |       |       |       |  |  |
|-------------------|------|----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|
|                   | 75-1 | 81 | 107 | 111-1 | 111-3 | 111-4 | 111-5 | 115-1 | 115-4 | 115-5 | 120-1 | 120-2 | 120-3 | 120-6 | 120-9 | 120-12 | 120-13 | 128-1 | 128-2 | 128-3 | 128-6 | 130-1 | 130-2 | 131-1 | 135-1 | 135-2 | 135-5 | 135-6 |  |  |
| EVMSG32 1-1/1.5   | 4    | 1  | 1   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 8     | /     | 4     | 3     | 4     | 1     | 4     | 2     | 1     | 4     |  |  |
| EVMSG32 1-0/2.2   | 4    | 1  | 1   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 8     | /     | 4     | 3     | 4     | 1     | 4     | 2     | 1     | 4     |  |  |
| EVMSG32 2-2/3.0   | 4    | 2  | 2   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 8     | /     | 4     | 3     | 4     | 1     | 4     | 2     | 1     | 4     |  |  |
| EVMSG32 2-0/4.0   | 4    | 2  | 2   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 8     | /     | 4     | 3     | 4     | 1     | 4     | 2     | 1     | 4     |  |  |
| EVMSG32 3-2/5.5   | 4    | 2  | 3   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 8     | /     | /     | 3     | 4     | 1     | 4     | 2     | 1     | /     |  |  |
| EVMSG32 3-0/5.5   | 4    | 2  | 3   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 8     | /     | /     | 3     | 4     | 1     | 4     | 2     | 1     | /     |  |  |
| EVMSG32 4-2/7.5   | 4    | 3  | 4   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 8     | /     | /     | 3     | 4     | 1     | 4     | 2     | 1     | /     |  |  |
| EVMSG32 4-0/7.5   | 4    | 3  | 4   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 8     | /     | /     | 3     | 4     | 1     | 4     | 2     | 1     | /     |  |  |
| EVMSG32 5-2/11    | 4    | 4  | 5   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | 2     | 1     | /     |  |  |
| EVMSG32 5-0/11    | 4    | 4  | 5   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | 2     | 1     | /     |  |  |
| EVMSG32 6-2/11    | 4    | 5  | 6   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | 2     | 1     | /     |  |  |
| EVMSG32 6-0/11    | 4    | 5  | 6   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | 2     | 1     | /     |  |  |
| EVMSG32 7-2/15    | 4    | 6  | 7   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | 2     | 1     | /     |  |  |
| EVMSG32 7-0/15    | 4    | 6  | 7   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | 2     | 1     | /     |  |  |
| EVMSG32 8-2/15    | 4    | 7  | 8   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | 2     | 1     | /     |  |  |
| EVMSG32 8-0/15    | 4    | 7  | 8   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | 2     | 1     | /     |  |  |
| EVMSG32 9-2/15    | 4    | 8  | 9   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | 2     | 1     | /     |  |  |
| EVMSG32 9-1/15    | 4    | 8  | 9   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | 2     | 1     | /     |  |  |
| EVMSG32 10-2/18.5 | 4    | 9  | 10  | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | 2     | 1     | /     |  |  |
| EVMSG32 10-0/18.5 | 4    | 9  | 10  | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | 2     | 1     | /     |  |  |
| EVMSG32 11-2/18.5 | 4    | 9  | 11  | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | 2     | 1     | /     |  |  |
| EVMSG32 11-1/18.5 | 4    | 9  | 11  | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | 2     | 1     | /     |  |  |
| EVMSG32 12-2/22   | 4    | 10 | 12  | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | 2     | 1     | /     |  |  |
| EVMSG32 12-0/22   | 4    | 10 | 12  | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | 2     | 1     | /     |  |  |
| EVMSG32 13-2/22   | 4    | 11 | 13  | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | 2     | 1     | /     |  |  |
| EVMSG32 13-0/22   | 4    | 11 | 13  | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | 2     | 1     | /     |  |  |
| EVMSG32 14-2/30   | 4    | 12 | 14  | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | 2     | 1     | /     |  |  |
| EVMSG32 14-0/30   | 4    | 12 | 14  | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | /     | 3     | 4     | 1     | 4     | 2     | 1     | /     |  |  |



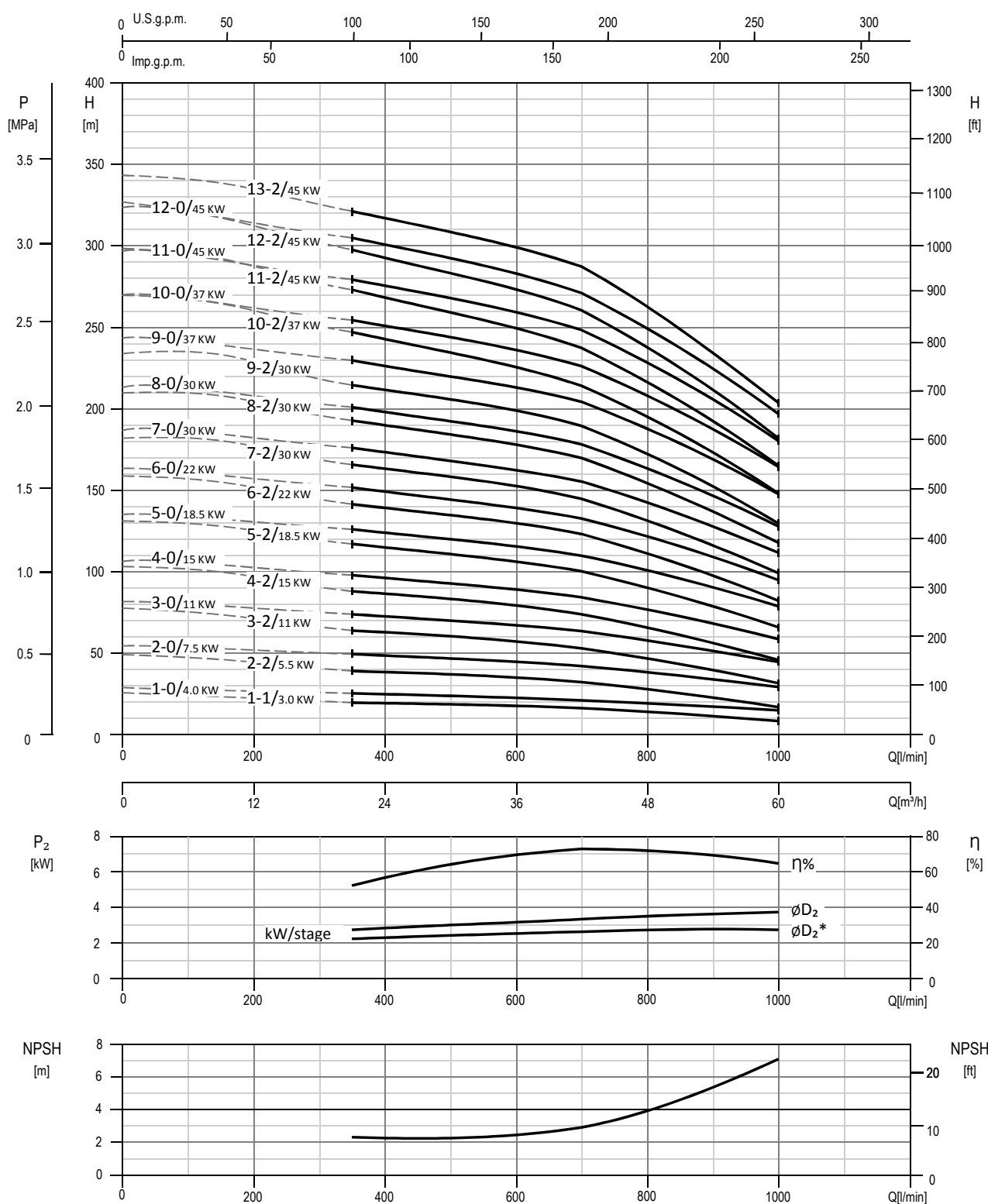
### QUANTITY FOR MODEL EVMSG32

| Pump Type         | N°    |       |     |     |     |       |       |       |     |       |
|-------------------|-------|-------|-----|-----|-----|-------|-------|-------|-----|-------|
|                   | 137-1 | 137-2 | 140 | 162 | 212 | 212-1 | 212-2 | 212-3 | 245 | 273-1 |
| EVMSG32 1-1/1.5   | 1     | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |
| EVMSG32 1-0/2.2   | 1     | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |
| EVMSG32 2-2/3.0   | 1     | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |
| EVMSG32 2-0/4.0   | 1     | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |
| EVMSG32 3-2/5.5   | 1     | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |
| EVMSG32 3-0/5.5   | 1     | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |
| EVMSG32 4-2/7.5   | 1     | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |
| EVMSG32 4-0/7.5   | 1     | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |
| EVMSG32 5-2/11    | 1     | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |
| EVMSG32 5-0/11    | 1     | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |
| EVMSG32 6-2/11    | 1     | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |
| EVMSG32 6-0/11    | 1     | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |
| EVMSG32 7-2/15    | 1     | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |
| EVMSG32 7-0/15    | 1     | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |
| EVMSG32 8-2/15    | 1     | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |
| EVMSG32 8-0/15    | 1     | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |
| EVMSG32 9-2/15    | 1     | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |
| EVMSG32 9-1/15    | 1     | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |
| EVMSG32 10-2/18.5 | 1     | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |
| EVMSG32 10-0/18.5 | 1     | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |
| EVMSG32 11-2/18.5 | 1     | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |
| EVMSG32 11-1/18.5 | 1     | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |
| EVMSG32 12-2/22   | 1     | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |
| EVMSG32 12-0/22   | 1     | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |
| EVMSG32 13-2/22   | 1     | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |
| EVMSG32 13-0/22   | 1     | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |
| EVMSG32 14-2/30   | 1     | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |
| EVMSG32 14-0/30   | 1     | 1     | 2   | 1   | 1   | 4     | 1     | 1     | 2   | 4     |

### BEARINGS EVMSG32

| Pump Type         | N° 56 |
|-------------------|-------|
| EVMSG32 1-1/1.5   | /     |
| EVMSG32 1-0/2.2   | /     |
| EVMSG32 2-2/3.0   | /     |
| EVMSG32 2-0/4.0   | /     |
| EVMSG32 3-2/5.5   | /     |
| EVMSG32 3-0/5.5   | /     |
| EVMSG32 4-2/7.5   | /     |
| EVMSG32 4-0/7.5   | /     |
| EVMSG32 5-2/11    | /     |
| EVMSG32 5-0/11    | /     |
| EVMSG32 6-2/11    | /     |
| EVMSG32 6-0/11    | /     |
| EVMSG32 7-2/15    | /     |
| EVMSG32 7-0/15    | /     |
| EVMSG32 8-2/15    | /     |
| EVMSG32 8-0/15    | /     |
| EVMSG32 9-2/15    | /     |
| EVMSG32 9-1/15    | /     |
| EVMSG32 10-2/18.5 | /     |
| EVMSG32 10-0/18.5 | /     |
| EVMSG32 11-2/18.5 | /     |
| EVMSG32 11-1/18.5 | /     |
| EVMSG32 12-2/22   | /     |
| EVMSG32 12-0/22   | /     |
| EVMSG32 13-2/22   | /     |
| EVMSG32 13-0/22   | /     |
| EVMSG32 14-2/30   | /     |
| EVMSG32 14-0/30   | /     |

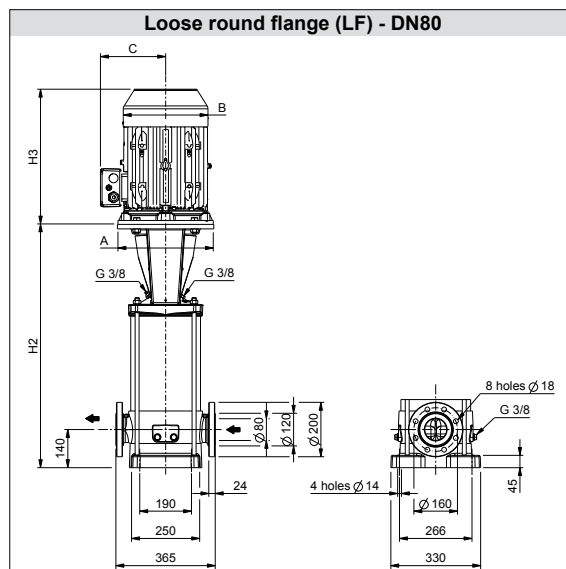
# PERFORMANCE CURVE EVMS(L)45



Test standard: ISO 9906:2012 - Grade 3B

### TECHNICAL DATA EVMS(L)45

#### Dimensional sketch



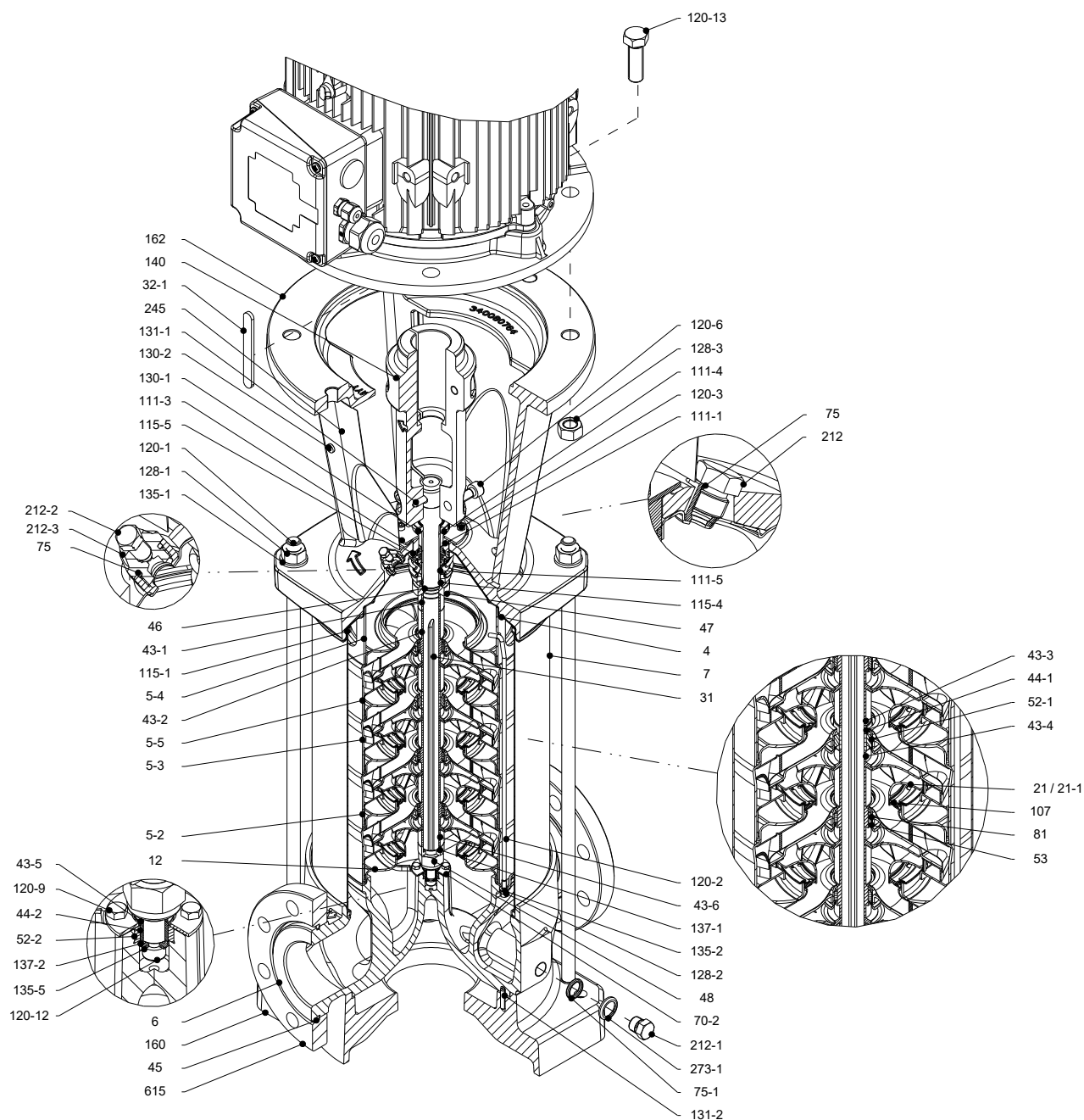
#### Dimensions [mm] and Weights [Kg]

| Pump Type          | P <sub>max</sub><br>[MPa] | Motor |      |        |     |     | Loose round flange (LF) |       |                |                           |
|--------------------|---------------------------|-------|------|--------|-----|-----|-------------------------|-------|----------------|---------------------------|
|                    |                           | kW    | Size | A<br>Ø | B   | C   | H2                      | H2+H3 | Weight<br>Pump | Weight<br>Pump +<br>Motor |
| EVMS(L)45 1-1/3.0  | 1.6                       | 3.0   | 100  | 160    | 176 | 123 | 546                     | 888   | 62.4           | 84.4                      |
| EVMS(L)45 1-0/4.0  | 1.6                       | 4.0   | 112  | 160    | 193 | 138 | 546                     | 910   | 62.4           | 90.9                      |
| EVMS(L)45 2-2/5.5  | 1.6                       | 5.5   | 132  | 300    | 220 | 152 | 722                     | 1121  | 77.7           | 116.7                     |
| EVMS(L)45 2-0/7.5  | 1.6                       | 7.5   | 132  | 300    | 220 | 152 | 722                     | 1141  | 77.7           | 123.7                     |
| EVMS(L)45 3-2/11   | 1.6                       | 11    | 160  | 350    | 259 | 180 | 824                     | 1263  | 89.9           | 152.4                     |
| EVMS(L)45 3-0/11   | 1.6                       | 11    | 160  | 350    | 259 | 180 | 824                     | 1263  | 89.9           | 152.4                     |
| EVMS(L)45 4-2/15   | 1.6                       | 15    | 160  | 350    | 311 | 240 | 896                     | 1391  | 96.4           | 197.4                     |
| EVMS(L)45 4-0/15   | 1.6                       | 15    | 160  | 350    | 311 | 240 | 896                     | 1391  | 96.4           | 197.4                     |
| EVMS(L)45 5-2/18.5 | 1.6                       | 18.5  | 160  | 350    | 311 | 240 | 968                     | 1463  | 101.7          | 210.7                     |
| EVMS(L)45 5-0/18.5 | 1.6                       | 18.5  | 160  | 350    | 311 | 240 | 968                     | 1463  | 101.7          | 210.7                     |
| EVMS(L)45 6-2/22   | 2.5                       | 22    | 180  | 350    | 354 | 260 | 1040                    | 1592  | 107.1          | 242.1                     |
| EVMS(L)45 6-0/22   | 2.5                       | 22    | 180  | 350    | 354 | 260 | 1040                    | 1592  | 107.1          | 242.1                     |
| EVMS(L)45 7-2/30   | 2.5                       | 30    | 200  | 400    | 354 | 280 | 1112                    | 1664  | 117.7          | 285.7                     |
| EVMS(L)45 7-0/30   | 2.5                       | 30    | 200  | 400    | 354 | 280 | 1112                    | 1664  | 117.7          | 285.7                     |
| EVMS(L)45 8-2/30   | 2.5                       | 30    | 200  | 400    | 354 | 280 | 1184                    | 1736  | 123.0          | 291.0                     |
| EVMS(L)45 8-0/30   | 2.5                       | 30    | 200  | 400    | 354 | 280 | 1184                    | 1736  | 123.0          | 291.0                     |
| EVMS(L)45 9-2/30   | 2.5                       | 30    | 200  | 400    | 354 | 280 | 1256                    | 1808  | 128.5          | 296.5                     |
| EVMS(L)45 9-0/37   | 2.5                       | 37    | 200  | 400    | 382 | 295 | 1273                    | 1950  | 140.0          | 400.0                     |
| EVMS(L)45 10-2/37  | 3.5                       | 37    | 200  | 400    | 382 | 295 | 1345                    | 2022  | 145.2          | 405.2                     |
| EVMS(L)45 10-0/37  | 3.5                       | 37    | 200  | 400    | 382 | 295 | 1345                    | 2022  | 145.2          | 405.2                     |
| EVMS(L)45 11-2/45  | 3.5                       | 45    | 225  | 450    | 449 | 335 | 1417                    | 2183  | 156.1          | 530.1                     |
| EVMS(L)45 11-0/45  | 3.5                       | 45    | 225  | 450    | 449 | 335 | 1417                    | 2183  | 156.1          | 530.1                     |
| EVMS(L)45 12-2/45  | 3.5                       | 45    | 225  | 450    | 449 | 335 | 1489                    | 2255  | 161.4          | 535.4                     |
| EVMS(L)45 12-0/45  | 3.5                       | 45    | 225  | 450    | 449 | 335 | 1489                    | 2255  | 161.4          | 535.4                     |
| EVMS(L)45 13-2/45  | 3.5                       | 45    | 225  | 450    | 449 | 335 | 1561                    | 2327  | 166.7          | 540.7                     |

1.6 MPa=16 bar;

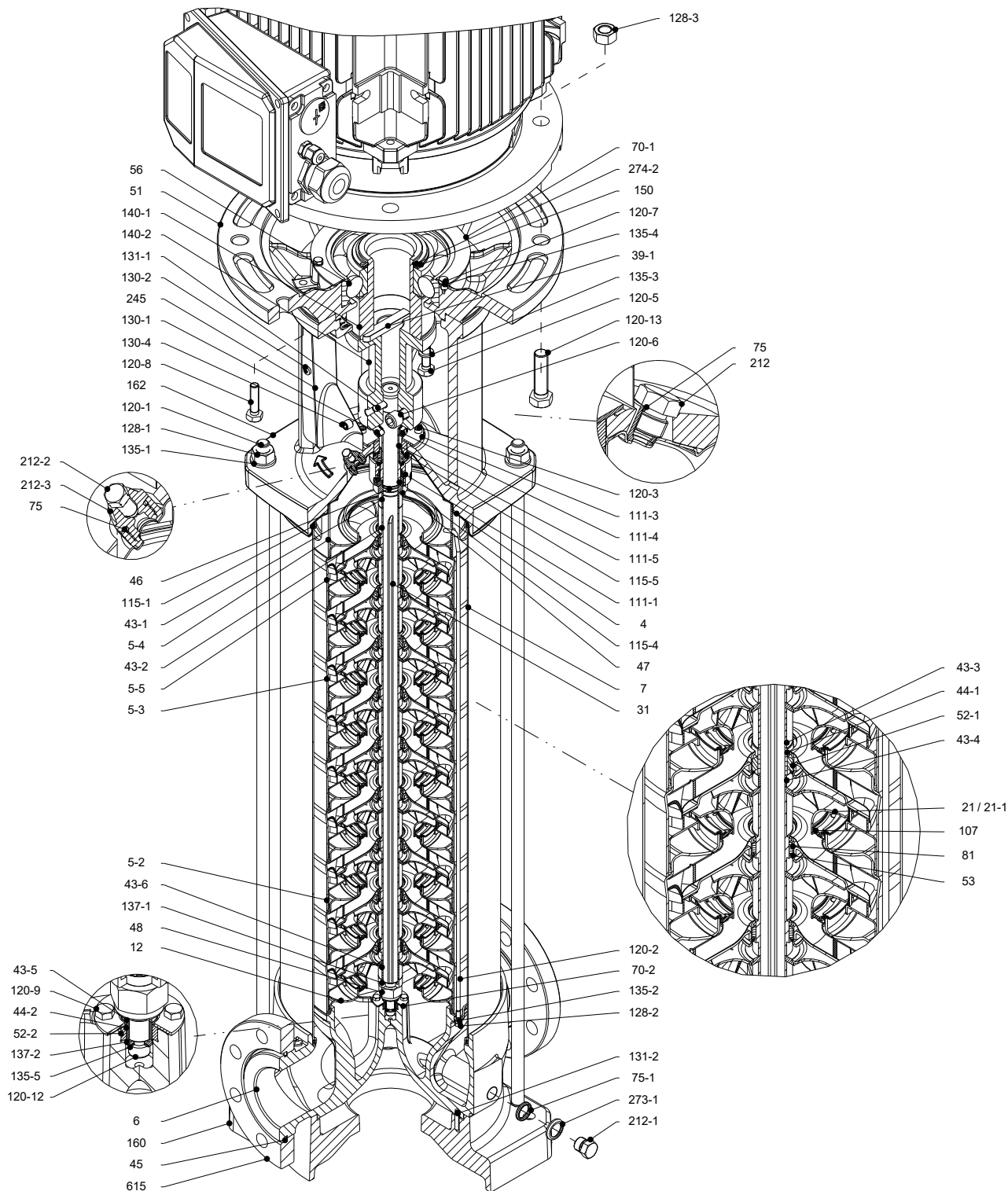
2.5 MPa=25 bar;

3.5 MPa=35 bar

SECTIONAL VIEW  
EVMS(L)45

Pump without ball bearing  
up to 30 kW

### SECTIONAL VIEW EVMS(L)45



Pump with single ball bearing  
above 37 kW

SECTIONAL TABLE  
EVMS(L)45

| N°    | PART NAME                              | MATERIAL                                      |                                                  | DIMENSIONS   | STANDARD |
|-------|----------------------------------------|-----------------------------------------------|--------------------------------------------------|--------------|----------|
|       |                                        | EVMS                                          | EVMSL                                            |              |          |
| 4     | Casing cover                           | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                            |              |          |
| 5-2   | Intermediate casing                    | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                            |              |          |
| 5-3   | Intermediate casing with bearing       | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                            |              |          |
| 5-4   | Discharge casing                       | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                            |              |          |
| 5-5   | Top intermediate casing                | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                            |              |          |
| 6     | Bottom casing                          | EN 1.4308 (ASTM CF8)                          | EN 1.4408 (ASTM CF8M)                            |              |          |
| 7     | Outer casing                           | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                            |              |          |
| 12    | Suction cover                          | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                            |              |          |
| 21    | Impeller                               | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                            |              |          |
| 21-1  | Reduced impeller                       | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                            |              |          |
| 31    | Shaft                                  | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L) -<br>EN 1.4462 (AISI 329A) |              |          |
| 32-1  | Adjuster key                           | EN 1.4301 (AISI 304)                          |                                                  |              |          |
| 39-1  | Coupling key above 37 kW               | Carbon Steel                                  |                                                  |              |          |
| 43-1  | Shaft sleeve (mechanical seal)         | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                            |              |          |
| 43-2  | Shaft sleeve (intermediate)            | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                            |              |          |
| 43-3  | Shaft sleeve (bearing)                 | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                            |              |          |
| 43-4  | Shaft sleeve (adjustment)              | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                            |              |          |
| 43-5  | Shaft sleeve (last stage)              | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                            |              |          |
| 43-6  | Shaft sleeve (adjustment)              | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                            |              |          |
| 44-1  | Shaft sleeve bearing                   | Tungsten carbide                              |                                                  |              |          |
| 44-2  | Shaft sleeve (bearing)                 | Tungsten carbide                              |                                                  |              |          |
| 45    | Flange holder                          | EN 1.4301 (AISI 304)                          |                                                  |              |          |
| 46    | Ring (mechanical seal)                 | EN 1.4404 (AISI 316L)                         |                                                  |              |          |
| 47    | Ring holder                            | EN 1.4404 (AISI 316L)                         |                                                  |              |          |
| 48    | Impeller nut                           | EN 1.4301 (AISI 304)<br>with inox insert      | EN 1.4401 (AISI 316)<br>with inox insert         |              |          |
| 51    | Motor adapter above 37 kW              | Cast Iron EN GJL250 EN 1561                   |                                                  |              |          |
| 52-1  | Sleeve bearing                         | Tungsten carbide                              |                                                  |              |          |
| 52-2  | Bearing sleeve (bottom casing)         | Tungsten carbide                              |                                                  |              |          |
| 53    | Bush holder                            | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                            |              |          |
| 56    | Ball bearing above 37 kW               | see table page 111                            |                                                  |              |          |
| 70-1  | Ring for ball bearing above 37 kW      | EN 1.4301 (AISI 304)                          |                                                  |              |          |
| 70-2  | Ring for bearing sleeve                | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                            |              |          |
| 75    | O-Ring (priming plug)                  | EPDM / FPM                                    |                                                  | Ø12.37x2.62  | OR 3050  |
| 75-1  | O-Ring (drainage plug)                 | EPDM / FPM                                    |                                                  |              |          |
| 81    | Bush                                   | PTFE                                          |                                                  |              |          |
| 107   | Liner ring                             | EN 1.4301 (AISI 304) + PPS                    | EN 1.4404 (AISI 316L) + PPS                      |              |          |
| 111-1 | Mechanical seal                        | see pages 6-7                                 |                                                  |              |          |
| 111-3 | Mechanical seal seat                   | EN 1.4301 (AISI 304)                          | EN 1.4401 (AISI 316)                             |              |          |
| 111-4 | Seal holder                            | EN 1.4404 (AISI 316L)                         |                                                  |              |          |
| 111-5 | Mechanical seal cartridge sleeve       | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                            |              |          |
| 115-1 | O-Ring (outer casing)                  | EPDM / FPM                                    |                                                  | Ø240.66x5.34 | OR 6945  |
| 115-4 | O-Ring (cartridge sleeve)              | EPDM / FPM                                    |                                                  | Ø23.39x3.53  | OR 4093  |
| 115-5 | O-Ring (seal flange)                   | EPDM / FPM                                    |                                                  | Ø44.04x3.53  | OR 4175  |
| 120-1 | Tie rod                                | EN 1.4057 (AISI 431)                          |                                                  |              |          |
| 120-2 | Tie rod (stage)                        | EN 1.4301 (AISI 304)                          | EN 1.4401 (AISI 316)                             |              |          |
| 120-3 | Screw (seal flange)                    | A2-70                                         |                                                  | M5x12        | ISO 4762 |
| 120-5 | Screw (extension coupling) above 37 kW | Galvanized steel 8.8 strength class ISO 898/1 |                                                  | M10x30       | ISO 4017 |

### SECTIONAL TABLE EVMS(L)45

| N°     | PART NAME                   |                       | MATERIAL                                      |                       | DIMENSIONS | STANDARD |
|--------|-----------------------------|-----------------------|-----------------------------------------------|-----------------------|------------|----------|
|        |                             |                       | EVMS                                          | EVMSL                 |            |          |
| 120-6  | Screw (pump coupling)       | up to 4.0 kW          | Galvanized steel 8.8 strength class ISO 898/1 |                       | M6x25      | ISO 4762 |
|        |                             | from 5.5 kW to 7.5 kW | Galvanized steel 8.8 strength class ISO 898/1 |                       | M8x25      | ISO 4762 |
|        |                             | from 11 kW to 30 kW   | Galvanized steel 8.8 strength class ISO 898/1 |                       | M10x30     | ISO 4762 |
|        |                             | above 37 kW           | Galvanized steel 8.8 strength class ISO 898/1 |                       | M12x30     | ISO 4762 |
| 120-7  | Screw (ball bearing)        | above 37 kW           | Galvanized steel 8.8 strength class ISO 898/1 |                       | M6x10      | ISO 4017 |
| 120-8  | Screw (motor adapter)       | above 37 kW           | Galvanized steel 8.8 strength class ISO 898/1 |                       | M10x40     | ISO 4017 |
| 120-9  | Screw (bottom casing)       |                       | A2-70                                         |                       | M5x8       | ISO 4017 |
| 120-12 | Screw (shaft)               |                       | A2-70                                         |                       | M6x16      | ISO 4762 |
| 120-13 | Screw for motor             | MEC 100-112           | Galvanized steel 8.8 strength class ISO 898/1 |                       | M8x20      | ISO 4017 |
|        |                             | MEC 132               | Galvanized steel 8.8 strength class ISO 898/1 |                       | M12x45     | ISO 4017 |
|        |                             | MEC 160-180           | Galvanized steel 8.8 strength class ISO 898/1 |                       | M16x50     | ISO 4017 |
|        |                             | MEC 200-225           | Galvanized steel 8.8 strength class ISO 898/1 |                       | M16x60     | ISO 4014 |
| 128-1  | Nut (tie rod)               |                       | A2-70                                         |                       | M16        | ISO 4032 |
| 128-2  | Nut (casing tie rod)        |                       | A2-70                                         |                       | M5         | ISO 4032 |
| 128-3  | Nut (motor)                 | MEC 132               | Galvanized steel                              |                       | M12        | ISO 4032 |
|        |                             | MEC 160-180-200-225   | Galvanized steel                              |                       | M16        | ISO 4032 |
| 128-6  | Nut (aluminium coupling)    | MEC 100-112           | Galvanized steel                              |                       | M6         | ISO 4032 |
| 130-1  | Set screw                   |                       | EN 1.4301 (AISI 304)                          |                       | M6x8       | ISO 4026 |
| 130-2  | Screw for coupling guard    |                       | A2-70                                         |                       | M5x6       | UNI 7687 |
| 130-4  | Set screw (pump coupling)   | above 37 kW           | Galvanized steel                              |                       | M10x10     | ISO 4026 |
| 131-1  | Pin for shaft               | up to 4.0 kW          | Carbon Steel                                  |                       | Ø8x42      | ISO 2338 |
|        |                             | above 5.5 kW          | Carbon Steel                                  |                       | Ø8x50      | ISO 2338 |
| 131-2  | Elastic pin                 |                       | EN 1.4301 (AISI 304)                          |                       | Ø6x26      | ISO 8752 |
| 135-1  | Washer (tie rod)            |                       | EN 1.4301 (AISI 304)                          |                       | Ø16        | ISO 7089 |
| 135-2  | Washer (casing tie rod)     |                       | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316)  | Ø5,1       | UNI 1751 |
| 135-3  | Washer (extension coupling) | above 37 kW           | Galvanized steel                              |                       | Ø10,2      | UNI 1751 |
| 135-4  | Washer (ball bearing)       | above 37 kW           | Plated carbon steel                           |                       | Ø6,1       | UNI 1751 |
| 135-5  | Washer (impeller nut)       |                       | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L) |            |          |
| 135-6  | Washer (aluminium coupling) | up to 4.0 kW          | Carbon Steel                                  |                       |            |          |
| 137-1  | Impeller spacer             |                       | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L) |            |          |
| 137-2  | Shaft spacer                |                       | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L) |            |          |
| 140    | Coupling                    | up to 4.0 kW          | Die cast Aluminium EN AB-AISI11 Cu2 (Fe)      |                       |            |          |
|        |                             | from 5.5 kW to 30 kW  | Cast Iron EN GJL250 EN 1561                   |                       |            |          |
| 140-1  | Extension coupling          | above 37 kW           | Carbon Steel                                  |                       |            |          |
| 140-2  | Coupling                    | above 37 kW           | Carbon Steel                                  |                       |            |          |
| 150    | Spacer (snap ring)          | above 37 kW           | Carbon Steel                                  |                       |            |          |
| 160    | Base                        |                       | Cast Iron EN GJL200 EN 1561                   |                       |            |          |
| 162    | Motor bracket               | up to 30 kW           | Cast Iron EN GJS 400-15 EN 1563               |                       |            |          |
| 212    | Priming plug                |                       | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L) |            |          |
| 212-1  | Drainage plug               |                       | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L) |            |          |
| 212-2  | Venting plug                |                       | EN 1.4401 (AISI 316)                          |                       |            |          |
| 212-3  | Priming plug                |                       | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L) |            |          |
| 245    | Coupling guard              |                       | EN 1.4301 (AISI 304)                          |                       |            |          |
| 273-1  | Washer (drainage plug)      |                       | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L) |            |          |
| 274-2  | C-type snap ring (coupling) | above 37 kW           | Carbon Steel TC80                             |                       | Ø75        | UNI 7435 |
| 615    | Loose flange                |                       | Cast Iron EN GJS 500-7 EN 1563                |                       |            |          |



# QUANTITY FOR MODEL EVMS(L)45

| Pump Type          | N° |     |     |     |     |   |   |    |    |      |    |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |      |      |
|--------------------|----|-----|-----|-----|-----|---|---|----|----|------|----|------|------|------|------|------|------|------|------|------|------|----|----|----|----|----|------|------|
|                    | 4  | 5-2 | 5-3 | 5-4 | 5-5 | 6 | 7 | 12 | 21 | 21-1 | 31 | 32-1 | 39-1 | 43-1 | 43-2 | 43-3 | 43-4 | 43-5 | 43-6 | 44-1 | 44-2 | 45 | 46 | 47 | 48 | 51 | 52-1 | 52-2 |
| EVMS(L)45 1-1/3.0  | 1  | /   | /   | 1   | 1   | 1 | 1 | 1  | /  | 1    | 1  | 1    | /    | 1    | 1    | /    | /    | 1    | 1    | /    | 1    | 4  | 1  | 1  | 1  | /  | /    | 1    |
| EVMS(L)45 1-0/4.0  | 1  | /   | /   | 1   | 1   | 1 | 1 | 1  | 1  | /    | 1  | 1    | /    | 1    | 1    | /    | /    | 1    | 1    | /    | 1    | 4  | 1  | 1  | 1  | /  | /    | 1    |
| EVMS(L)45 2-2/5.5  | 1  | 1   | /   | 1   | 1   | 1 | 1 | 1  | /  | 2    | 1  | 1    | /    | 1    | 2    | /    | /    | 1    | 1    | /    | 1    | 4  | 1  | 1  | 1  | /  | /    | 1    |
| EVMS(L)45 2-0/7.5  | 1  | 1   | /   | 1   | 1   | 1 | 1 | 1  | 2  | /    | 1  | 1    | /    | 1    | 2    | /    | /    | 1    | 1    | /    | 1    | 4  | 1  | 1  | 1  | /  | /    | 1    |
| EVMS(L)45 3-2/11   | 1  | 1   | 1   | 1   | 1   | 1 | 1 | 1  | 1  | 2    | 1  | 1    | /    | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    | 1    |
| EVMS(L)45 3-0/11   | 1  | 1   | 1   | 1   | 1   | 1 | 1 | 1  | 3  | /    | 1  | 1    | /    | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    | 1    |
| EVMS(L)45 4-2/15   | 1  | 2   | 1   | 1   | 1   | 1 | 1 | 1  | 2  | 2    | 1  | 1    | /    | 1    | 3    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    | 1    |
| EVMS(L)45 4-0/15   | 1  | 2   | 1   | 1   | 1   | 1 | 1 | 1  | 4  | /    | 1  | 1    | /    | 1    | 3    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    | 1    |
| EVMS(L)45 5-2/18.5 | 1  | 3   | 1   | 1   | 1   | 1 | 1 | 1  | 3  | 2    | 1  | 1    | /    | 1    | 4    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    | 1    |
| EVMS(L)45 5-0/18.5 | 1  | 3   | 1   | 1   | 1   | 1 | 1 | 1  | 5  | /    | 1  | 1    | /    | 1    | 4    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    | 1    |
| EVMS(L)45 6-2/22   | 1  | 4   | 1   | 1   | 1   | 1 | 1 | 1  | 4  | 2    | 1  | 1    | /    | 1    | 5    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    | 1    |
| EVMS(L)45 6-0/22   | 1  | 4   | 1   | 1   | 1   | 1 | 1 | 1  | 6  | /    | 1  | 1    | /    | 1    | 5    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    | 1    |
| EVMS(L)45 7-2/30   | 1  | 5   | 1   | 1   | 1   | 1 | 1 | 1  | 5  | 2    | 1  | 1    | /    | 1    | 6    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    | 1    |
| EVMS(L)45 7-0/30   | 1  | 5   | 1   | 1   | 1   | 1 | 1 | 1  | 7  | /    | 1  | 1    | /    | 1    | 6    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    | 1    |
| EVMS(L)45 8-2/30   | 1  | 6   | 1   | 1   | 1   | 1 | 1 | 1  | 6  | 2    | 1  | 1    | /    | 1    | 7    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    | 1    |
| EVMS(L)45 8-0/30   | 1  | 6   | 1   | 1   | 1   | 1 | 1 | 1  | 8  | /    | 1  | 1    | /    | 1    | 7    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    | 1    |
| EVMS(L)45 9-2/30   | 1  | 7   | 1   | 1   | 1   | 1 | 1 | 1  | 7  | 2    | 1  | 1    | /    | 1    | 8    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    | 1    |
| EVMS(L)45 9-0/37   | 1  | 7   | 1   | 1   | 1   | 1 | 1 | 1  | 9  | /    | 1  | 1    | /    | 1    | 8    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | 1  | 1    | 1    |
| EVMS(L)45 10-2/37  | 1  | 8   | 1   | 1   | 1   | 1 | 1 | 1  | 8  | 2    | 1  | 1    | /    | 1    | 9    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | 1  | 1    | 1    |
| EVMS(L)45 10-0/37  | 1  | 8   | 1   | 1   | 1   | 1 | 1 | 1  | 10 | /    | 1  | 1    | /    | 1    | 9    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | 1  | 1    | 1    |
| EVMS(L)45 11-2/45  | 1  | 9   | 1   | 1   | 1   | 1 | 1 | 1  | 9  | 2    | 1  | 1    | /    | 1    | 10   | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | 1  | 1    | 1    |
| EVMS(L)45 11-0/45  | 1  | 9   | 1   | 1   | 1   | 1 | 1 | 1  | 11 | /    | 1  | 1    | /    | 1    | 10   | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | 1  | 1    | 1    |
| EVMS(L)45 12-2/45  | 1  | 9   | 2   | 1   | 1   | 1 | 1 | 1  | 10 | 2    | 1  | 1    | /    | 1    | 10   | 2    | 2    | 1    | 1    | 2    | 1    | 4  | 1  | 1  | 1  | 1  | 2    | 1    |
| EVMS(L)45 12-0/45  | 1  | 9   | 2   | 1   | 1   | 1 | 1 | 1  | 12 | /    | 1  | 1    | /    | 1    | 10   | 2    | 2    | 1    | 1    | 2    | 1    | 4  | 1  | 1  | 1  | 1  | 2    | 1    |
| EVMS(L)45 13-2/45  | 1  | 10  | 2   | 1   | 1   | 1 | 1 | 1  | 11 | 2    | 1  | 1    | /    | 1    | 11   | 2    | 2    | 1    | 1    | 2    | 1    | 4  | 1  | 1  | 1  | 1  | 2    | 1    |

□ shaft in EN 1.4462 (AISI 329A)

| Pump Type          | N° |    |      |      |    |      |    |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |       |       |       |
|--------------------|----|----|------|------|----|------|----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|
|                    | 53 | 56 | 70-1 | 70-2 | 75 | 75-1 | 81 | 107 | 111-1 | 111-3 | 111-4 | 111-5 | 115-1 | 115-4 | 115-5 | 120-1 | 120-2 | 120-3 | 120-5 | 120-6 | 120-7 | 120-8 | 120-9 | 120-12 | 120-13 | 128-1 | 128-2 | 128-3 |
| EVMS(L)45 1-1/3.0  | 1  | /  | /    | 1    | 2  | 4    | 1  | 1   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | /     |
| EVMS(L)45 1-0/4.0  | 1  | /  | /    | 1    | 2  | 4    | 1  | 1   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | /     |
| EVMS(L)45 2-2/5.5  | 2  | /  | /    | 1    | 2  | 4    | 2  | 2   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)45 2-0/7.5  | 2  | /  | /    | 1    | 2  | 4    | 2  | 2   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)45 3-2/11   | 2  | /  | /    | 1    | 2  | 4    | 2  | 3   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)45 3-0/11   | 2  | /  | /    | 1    | 2  | 4    | 2  | 3   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)45 4-2/15   | 4  | /  | /    | 1    | 2  | 4    | 3  | 4   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)45 4-0/15   | 4  | /  | /    | 1    | 2  | 4    | 3  | 4   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)45 5-2/18.5 | 5  | /  | /    | 1    | 2  | 4    | 4  | 5   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)45 5-0/18.5 | 5  | /  | /    | 1    | 2  | 4    | 4  | 5   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)45 6-2/22   | 6  | /  | /    | 1    | 2  | 4    | 5  | 6   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)45 6-0/22   | 6  | /  | /    | 1    | 2  | 4    | 5  | 6   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)45 7-2/30   | 7  | /  | /    | 1    | 2  | 4    | 6  | 7   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)45 7-0/30   | 7  | /  | /    | 1    | 2  | 4    | 6  | 7   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)45 8-2/30   | 8  | /  | /    | 1    | 2  | 4    | 7  | 8   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)45 8-0/30   | 8  | /  | /    | 1    | 2  | 4    | 7  | 8   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)45 9-2/30   | 9  | /  | /    | 1    | 2  | 4    | 8  | 9   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)45 9-0/37   | 9  | 1  | 1    | 1    | 2  | 4    | 8  | 9   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)45 10-2/37  | 10 | 1  | 1    | 1    | 2  | 4    | 9  | 10  | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)45 10-0/37  | 10 | 1  | 1    | 1    | 2  | 4    | 9  | 10  | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)45 11-2/45  | 11 | 1  | 1    | 1    | 2  | 4    | 10 | 11  | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 8      | 4     | 4     | 8     |
| EVMS(L)45 11-0/45  | 11 | 1  | 1    | 1    | 2  | 4    | 10 | 11  | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 8      | 4     | 4     | 8     |
| EVMS(L)45 12-2/45  | 11 | 1  | 1    | 1    | 2  | 4    | 10 | 12  | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 8      | 4     | 4     | 8     |
| EVMS(L)45 12-0/45  | 11 | 1  | 1    | 1    | 2  | 4    | 10 | 12  | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 8      | 4     | 4     | 8     |
| EVMS(L)45 13-2/45  | 12 | 1  | 1    | 1    | 2  | 4    | 11 | 13  | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 8      | 4     | 4     | 8     |

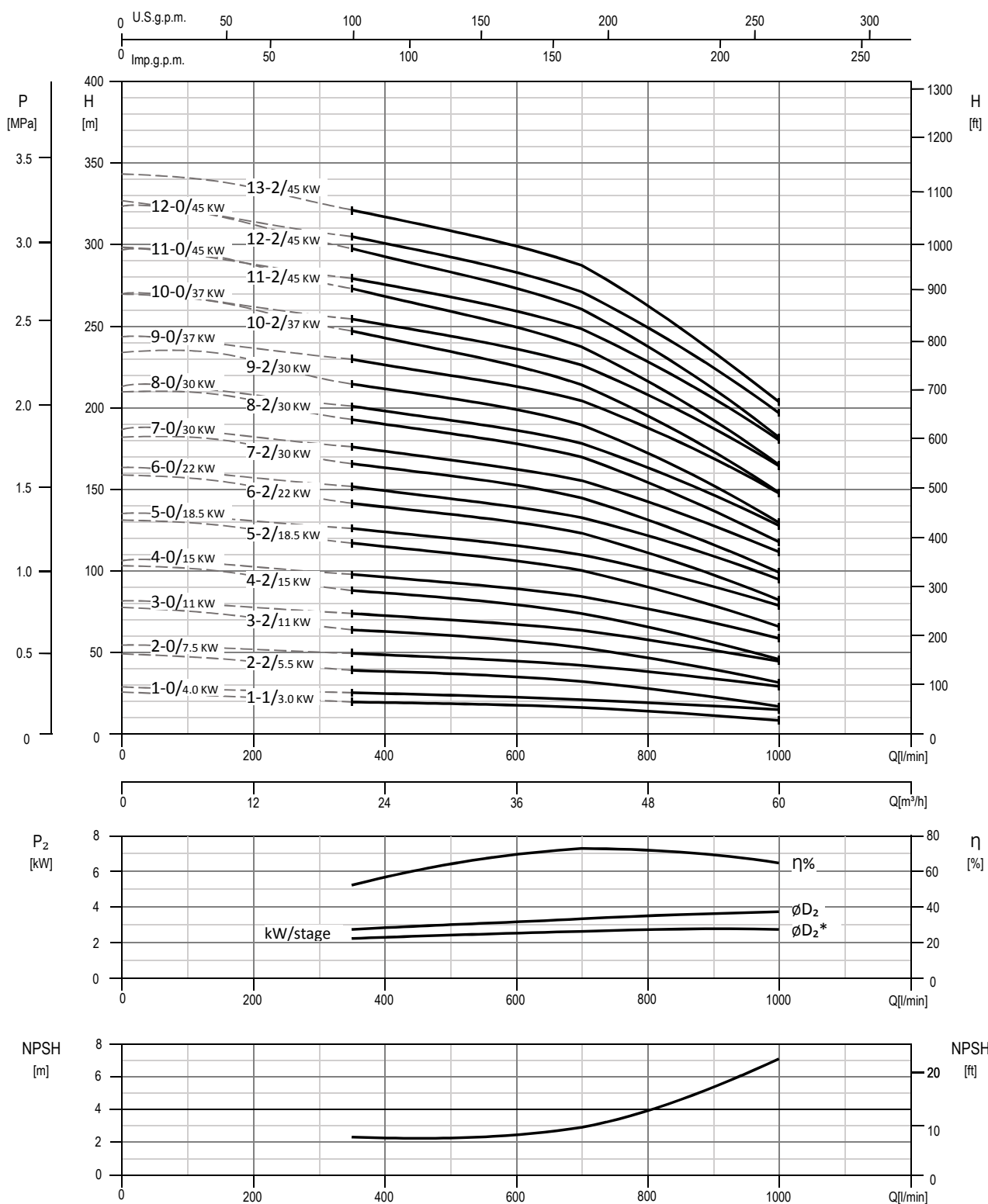
### QUANTITY FOR MODEL EVMS(L)45

| Pump Type          | N°    |       |       |       |       |       |       |       |       |       |       |       |       |       |     |       |       |     |     |     |     |       |       |       |     |       |       |     |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-------|-------|-----|-----|-----|-----|-------|-------|-------|-----|-------|-------|-----|
|                    | 128-6 | 130-1 | 130-2 | 130-4 | 131-1 | 131-2 | 135-1 | 135-2 | 135-3 | 135-4 | 135-5 | 135-6 | 137-1 | 137-2 | 140 | 140-1 | 140-2 | 150 | 160 | 162 | 212 | 212-1 | 212-2 | 212-3 | 245 | 273-1 | 274-2 | 615 |
| EVMS(L)45 1-1/3.0  | 4     | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | 4     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)45 1-0/4.0  | 4     | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | 4     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)45 2-2/5.5  | /     | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | /     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)45 2-0/7.5  | /     | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | /     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)45 3-2/11   | /     | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | /     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)45 3-0/11   | /     | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | /     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)45 4-2/15   | /     | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | /     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)45 4-0/15   | /     | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | /     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)45 5-2/18.5 | /     | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | /     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)45 5-0/18.5 | /     | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | /     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)45 6-2/22   | /     | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | /     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)45 6-0/22   | /     | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | /     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)45 7-2/30   | /     | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | /     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)45 7-0/30   | /     | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | /     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)45 8-2/30   | /     | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | /     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)45 8-0/30   | /     | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | /     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)45 9-2/30   | /     | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | /     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)45 9-0/37   | /     | 3     | 4     | 1     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | /     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     | 2   |
| EVMS(L)45 10-2/37  | /     | 3     | 4     | 1     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | /     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     | 2   |
| EVMS(L)45 10-0/37  | /     | 3     | 4     | 1     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | /     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     | 2   |
| EVMS(L)45 11-2/45  | /     | 3     | 4     | 1     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | /     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     | 2   |
| EVMS(L)45 11-0/45  | /     | 3     | 4     | 1     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | /     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     | 2   |
| EVMS(L)45 12-2/45  | /     | 3     | 4     | 1     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | /     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     | 2   |
| EVMS(L)45 12-0/45  | /     | 3     | 4     | 1     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | /     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     | 2   |
| EVMS(L)45 13-2/45  | /     | 3     | 4     | 1     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | /     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     | 2   |

### BEARINGS EVMS(L)45

| Pump Type          | N° 56      |
|--------------------|------------|
| EVMS(L)45 1-1/3.0  | /          |
| EVMS(L)45 1-0/4.0  | /          |
| EVMS(L)45 2-2/5.5  | /          |
| EVMS(L)45 2-0/7.5  | /          |
| EVMS(L)45 3-2/11   | /          |
| EVMS(L)45 3-0/11   | /          |
| EVMS(L)45 4-2/15   | /          |
| EVMS(L)45 4-0/15   | /          |
| EVMS(L)45 5-2/18.5 | /          |
| EVMS(L)45 5-0/18.5 | /          |
| EVMS(L)45 6-2/22   | /          |
| EVMS(L)45 6-0/22   | /          |
| EVMS(L)45 7-2/30   | /          |
| EVMS(L)45 7-0/30   | /          |
| EVMS(L)45 8-2/30   | /          |
| EVMS(L)45 8-0/30   | /          |
| EVMS(L)45 9-2/30   | /          |
| EVMS(L)45 9-0/37   | 6315 ZZ C3 |
| EVMS(L)45 10-2/37  | 6315 ZZ C3 |
| EVMS(L)45 10-0/37  | 6315 ZZ C3 |
| EVMS(L)45 11-2/45  | 6315 ZZ C3 |
| EVMS(L)45 11-0/45  | 6315 ZZ C3 |
| EVMS(L)45 12-2/45  | 6315 ZZ C3 |
| EVMS(L)45 12-0/45  | 6315 ZZ C3 |
| EVMS(L)45 13-2/45  | 6315 ZZ C3 |

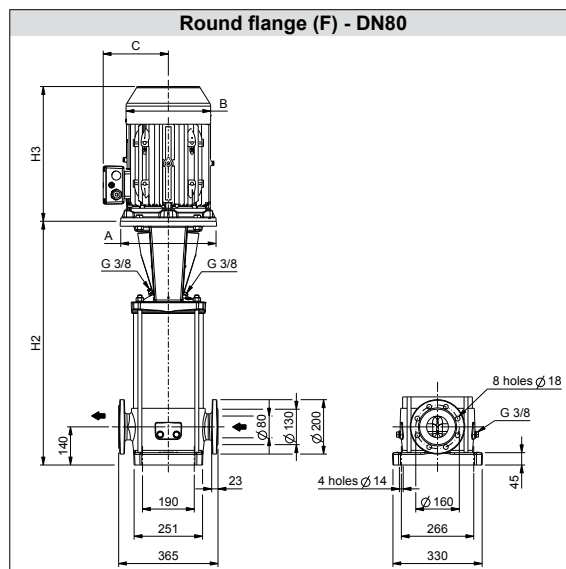
PERFORMANCE CURVE  
EVMSG45



Test standard: ISO 9906:2012 - Grade 3B

### TECHNICAL DATA EVMSG45

#### Dimensional sketch



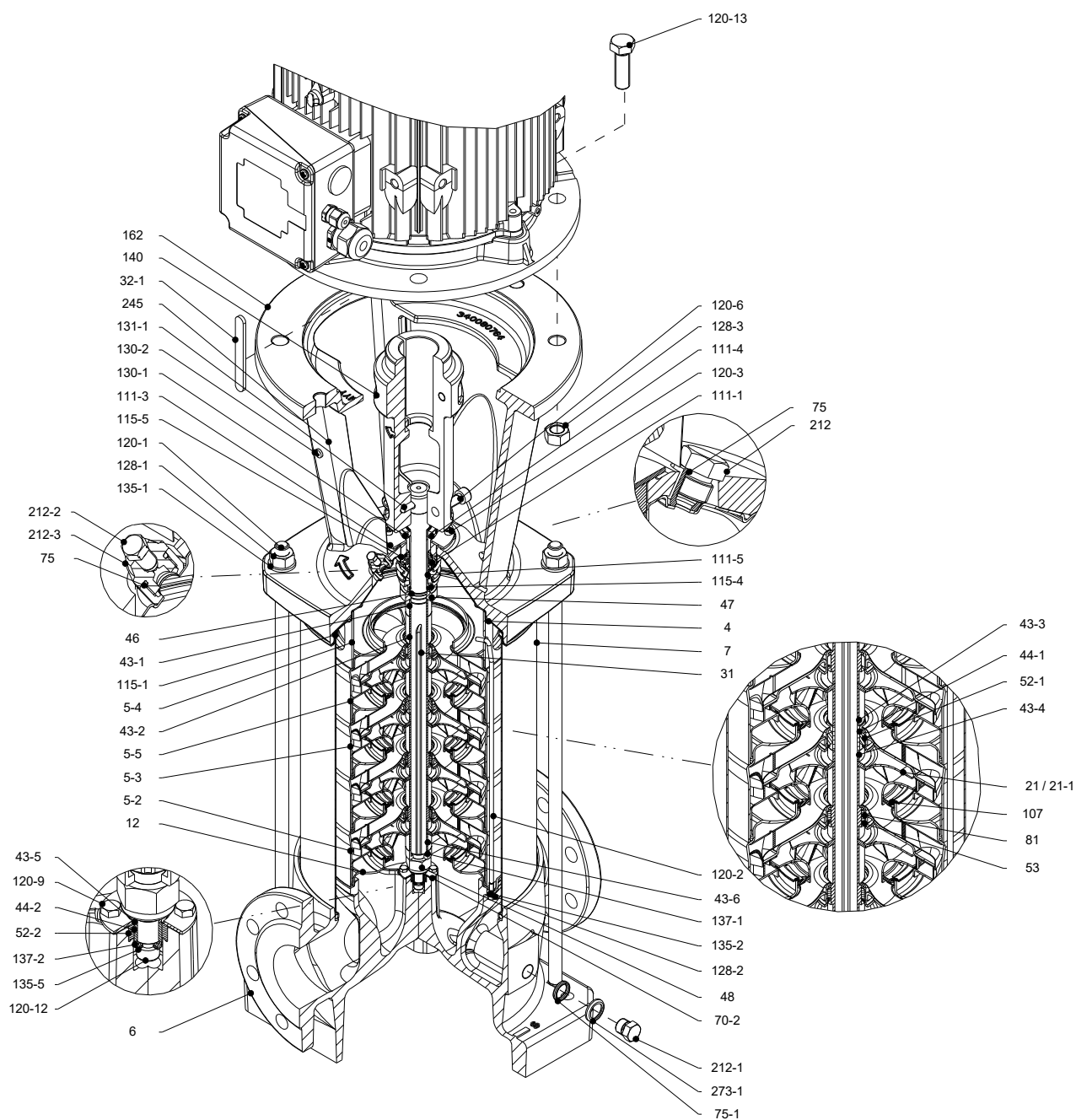
#### Dimensions [mm] and Weights [Kg]

| Pump Type        | Pmax<br>[MPa] | Motor |      |        |     |     | Round flange (F) |       |                |                           |
|------------------|---------------|-------|------|--------|-----|-----|------------------|-------|----------------|---------------------------|
|                  |               | kW    | Size | A<br>Ø | B   | C   | H2               | H2+H3 | Weight<br>Pump | Weight<br>Pump +<br>Motor |
| EVMSG45 1-1/3.0  | 1.6           | 3.0   | 100  | 160    | 176 | 123 | 546              | 888   | 60.2           | 82.2                      |
| EVMSG45 1-0/4.0  | 1.6           | 4.0   | 112  | 160    | 193 | 138 | 546              | 910   | 60.2           | 88.7                      |
| EVMSG45 2-2/5.5  | 1.6           | 5.5   | 132  | 300    | 220 | 152 | 722              | 1121  | 75.6           | 114.6                     |
| EVMSG45 2-0/7.5  | 1.6           | 7.5   | 132  | 300    | 220 | 152 | 722              | 1141  | 75.6           | 121.6                     |
| EVMSG45 3-2/11   | 1.6           | 11    | 160  | 350    | 259 | 180 | 824              | 1263  | 87.7           | 150.2                     |
| EVMSG45 3-0/11   | 1.6           | 11    | 160  | 350    | 259 | 180 | 824              | 1263  | 87.7           | 150.2                     |
| EVMSG45 4-2/15   | 1.6           | 15    | 160  | 350    | 311 | 240 | 896              | 1391  | 94.3           | 195.3                     |
| EVMSG45 4-0/15   | 1.6           | 15    | 160  | 350    | 311 | 240 | 896              | 1391  | 94.3           | 195.3                     |
| EVMSG45 5-2/18.5 | 1.6           | 18.5  | 160  | 350    | 311 | 240 | 968              | 1463  | 99.5           | 208.5                     |
| EVMSG45 5-0/18.5 | 1.6           | 18.5  | 160  | 350    | 311 | 240 | 968              | 1463  | 99.6           | 208.6                     |
| EVMSG45 6-2/22   | 2.5           | 22    | 180  | 350    | 354 | 260 | 1040             | 1592  | 105.0          | 240.0                     |
| EVMSG45 6-0/22   | 2.5           | 22    | 180  | 350    | 354 | 260 | 1040             | 1592  | 105.0          | 240.0                     |
| EVMSG45 7-2/30   | 2.5           | 30    | 200  | 400    | 354 | 280 | 1112             | 1664  | 115.6          | 283.6                     |
| EVMSG45 7-0/30   | 2.5           | 30    | 200  | 400    | 354 | 280 | 1112             | 1664  | 115.6          | 283.6                     |
| EVMSG45 8-2/30   | 2.5           | 30    | 200  | 400    | 354 | 280 | 1184             | 1736  | 120.9          | 288.9                     |
| EVMSG45 8-0/30   | 2.5           | 30    | 200  | 400    | 354 | 280 | 1184             | 1736  | 120.9          | 288.9                     |
| EVMSG45 9-2/30   | 2.5           | 30    | 200  | 400    | 354 | 280 | 1256             | 1808  | 126.4          | 294.4                     |
| EVMSG45 9-0/37   | 2.5           | 37    | 200  | 400    | 382 | 295 | 1273             | 1950  | 137.8          | 397.8                     |
| EVMSG45 10-2/37  | 3.5           | 37    | 200  | 400    | 382 | 295 | 1345             | 2022  | 143.1          | 403.1                     |
| EVMSG45 10-0/37  | 3.5           | 37    | 200  | 400    | 382 | 295 | 1345             | 2022  | 143.1          | 403.1                     |
| EVMSG45 11-2/45  | 3.5           | 45    | 225  | 450    | 449 | 335 | 1417             | 2183  | 153.9          | 527.9                     |
| EVMSG45 11-0/45  | 3.5           | 45    | 225  | 450    | 449 | 335 | 1417             | 2183  | 153.9          | 527.9                     |
| EVMSG45 12-2/45  | 3.5           | 45    | 225  | 450    | 449 | 335 | 1489             | 2255  | 159.2          | 533.2                     |
| EVMSG45 12-0/45  | 3.5           | 45    | 225  | 450    | 449 | 335 | 1489             | 2255  | 159.2          | 533.2                     |
| EVMSG45 13-2/45  | 3.5           | 45    | 225  | 450    | 449 | 335 | 1561             | 2327  | 164.5          | 538.5                     |

1.6 MPa=16 bar;

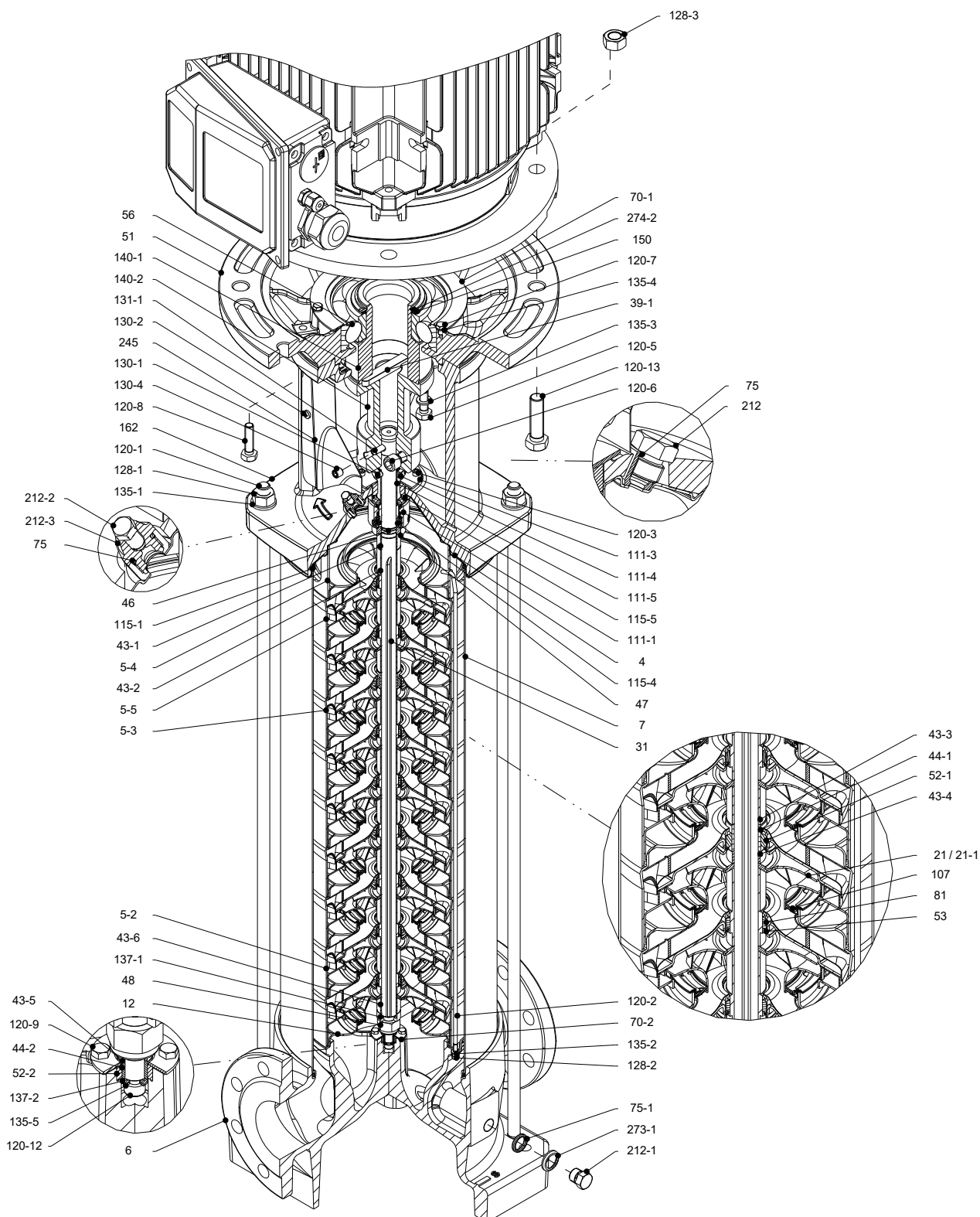
2.5 MPa=25 bar;

3.5 MPa=35 bar

SECTIONAL VIEW  
EVMSG45

Pump without ball bearing  
up to 30 kW

### SECTIONAL VIEW EVMSG45



Pump with single ball bearing  
above 37 kW

SECTIONAL TABLE  
EVMSG45

| N°    | PART NAME                              | MATERIAL<br>EVMSG                                               | DIMENSIONS   | STANDARD |
|-------|----------------------------------------|-----------------------------------------------------------------|--------------|----------|
| 4     | Casing cover                           | EN 1.4301 (AISI 304)                                            |              |          |
| 5-2   | Intermediate casing                    | EN 1.4301 (AISI 304)                                            |              |          |
| 5-3   | Intermediate casing with bearing       | EN 1.4301 (AISI 304)                                            |              |          |
| 5-4   | Discharge casing                       | EN 1.4301 (AISI 304)                                            |              |          |
| 5-5   | Top intermediate casing                | EN 1.4301 (AISI 304)                                            |              |          |
| 6     | Bottom casing                          | Cast Iron EN GJL-250 EN 1561<br>Cast Iron EN GJS 400-15 EN 1563 |              |          |
| 7     | Outer casing                           | EN 1.4301 (AISI 304)                                            |              |          |
| 12    | Suction cover                          | EN 1.4301 (AISI 304)                                            |              |          |
| 21    | Impeller                               | EN 1.4301 (AISI 304)                                            |              |          |
| 21-1  | Reduced impeller                       | EN 1.4301 (AISI 304)                                            |              |          |
| 31    | Shaft                                  | EN 1.4301 (AISI 304)                                            |              |          |
| 32-1  | Adjuster key                           | EN 1.4301 (AISI 304)                                            |              |          |
| 39-1  | Coupling key above 37 kW               | Carbon Steel                                                    |              |          |
| 43-1  | Shaft sleeve (mechanical seal)         | EN 1.4301 (AISI 304)                                            |              |          |
| 43-2  | Shaft sleeve (intermediate)            | EN 1.4301 (AISI 304)                                            |              |          |
| 43-3  | Shaft sleeve (bearing)                 | EN 1.4301 (AISI 304)                                            |              |          |
| 43-4  | Shaft sleeve (adjustment)              | EN 1.4301 (AISI 304)                                            |              |          |
| 43-5  | Shaft sleeve (last stage)              | EN 1.4301 (AISI 304)                                            |              |          |
| 43-6  | Shaft sleeve (adjustment)              | EN 1.4301 (AISI 304)                                            |              |          |
| 44-1  | Shaft sleeve bearing                   | Tungsten carbide                                                |              |          |
| 44-2  | Shaft sleeve (bearing)                 | Tungsten carbide                                                |              |          |
| 46    | Ring (mechanical seal)                 | EN 1.4404 (AISI 316L)                                           |              |          |
| 47    | Ring holder                            | EN 1.4301 (AISI 304)                                            |              |          |
| 48    | Impeller nut                           | EN 1.4301 (AISI 304) with inox insert                           |              |          |
| 51    | Motor adapter above 37 kW              | Cast Iron EN GJL250 EN 1561                                     |              |          |
| 52-1  | Sleeve bearing                         | Tungsten carbide                                                |              |          |
| 52-2  | Bearing sleeve (bottom casing)         | Tungsten carbide                                                |              |          |
| 53    | Bush holder                            | EN 1.4301 (AISI 304)                                            |              |          |
| 56    | Ball bearing above 37 kW               | see table page 119                                              |              |          |
| 70-1  | Ring for ball bearing above 37 kW      | EN 1.4301 (AISI 304)                                            |              |          |
| 70-2  | Ring for bearing sleeve                | EN 1.4301 (AISI 304)                                            |              |          |
| 75    | O-Ring (priming plug)                  | EPDM / FPM                                                      | Ø12.37x2.62  | OR 3050  |
| 75-1  | O-Ring (drainage plug)                 | EPDM / FPM                                                      |              |          |
| 81    | Bush                                   | PTFE                                                            |              |          |
| 107   | Liner ring                             | EN 1.4301 (AISI 304) + PPS                                      |              |          |
| 111-1 | Mechanical seal                        | see pages 6-7                                                   |              |          |
| 111-3 | Mechanical seal flange                 | EN 1.4301 (AISI 304)                                            |              |          |
| 111-4 | Seal holder                            | EN 1.4404 (AISI 316L)                                           |              |          |
| 111-5 | Mechanical seal cartridge sleeve       | EN 1.4301 (AISI 304)                                            |              |          |
| 115-1 | O-Ring (outer casing)                  | EPDM / FPM                                                      | Ø240.66x5.34 | OR 6945  |
| 115-4 | O-Ring (cartridge sleeve)              | EPDM / FPM                                                      | Ø23.39x3.53  | OR 4093  |
| 115-5 | O-Ring (seal flange)                   | EPDM / FPM                                                      | Ø44.04x3.53  | OR 4175  |
| 120-1 | Tie rod                                | EN 1.4057 (AISI 431)                                            |              |          |
| 120-2 | Tie rod (stage)                        | EN 1.4301 (AISI 304)                                            |              |          |
| 120-3 | Screw (seal flange)                    | A2-70                                                           | M5x12        | ISO 4762 |
| 120-5 | Screw (extension coupling) above 37 kW | Galvanized steel 8.8 strength class ISO 898/1                   | M10x30       | ISO 4017 |



### SECTIONAL TABLE EVMSG45

| N°     | PART NAME                   |                       | MATERIAL<br>EVMSG                             | DIMENSIONS | STANDARD |
|--------|-----------------------------|-----------------------|-----------------------------------------------|------------|----------|
| 120-6  | Screw (pump coupling)       | up to 4.0 kW          | Galvanized steel 8.8 strength class ISO 898/1 | M6x25      | ISO 4762 |
|        |                             | from 5.5 kW to 7.5 kW | Galvanized steel 8.8 strength class ISO 898/1 | M8x25      | ISO 4762 |
|        |                             | from 11 kW to 30 kW   | Galvanized steel 8.8 strength class ISO 898/1 | M10x30     | ISO 4762 |
|        |                             | above 37 kW           | Galvanized steel 8.8 strength class ISO 898/1 | M12x30     | ISO 4762 |
| 120-7  | Screw (ball bearing)        | above 37 kW           | Galvanized steel 8.8 strength class ISO 898/1 | M6x10      | ISO 4017 |
| 120-8  | Screw (motor adapter)       | above 37 kW           | Galvanized steel 8.8 strength class ISO 898/1 | M10x40     | ISO 4017 |
| 120-9  | Screw (bottom casing)       |                       | A2-70                                         | M5x8       | ISO 4017 |
| 120-12 | Screw (shaft)               |                       | A2-70                                         | M6x16      | ISO 4762 |
| 120-13 | Screw for motor             | MEC 100-112           | Galvanized steel 8.8 strength class ISO 898/1 | M8x20      | ISO 4017 |
|        |                             | MEC 132               | Galvanized steel 8.8 strength class ISO 898/1 | M12x45     | ISO 4017 |
|        |                             | MEC 160-180           | Galvanized steel 8.8 strength class ISO 898/1 | M16x50     | ISO 4017 |
|        |                             | MEC 200-225           | Galvanized steel 8.8 strength class ISO 898/1 | M16x60     | ISO 4014 |
| 128-1  | Nut (tie rod)               |                       | A2-70 UNI 7323 with                           | M16        | ISO 4032 |
| 128-2  | Nut (casing tie rod)        |                       | A2-70                                         | M5         | ISO 4032 |
| 128-3  | Nut (motor)                 | MEC 132               | Galvanized steel                              | M12        | ISO 4032 |
|        |                             | MEC 160-180-200-225   | Galvanized steel                              | M16        | ISO 4032 |
| 128-6  | Nut (aluminium coupling)    | MEC 100-112           | Galvanized steel                              | M6         | ISO 4032 |
| 130-1  | Set screw                   |                       | EN 1.4301 (AISI 304)                          | M6x8       | ISO 4026 |
| 130-2  | Screw for coupling guard    |                       | A2-70                                         | M5x6       | UNI 7687 |
| 130-4  | Set screw (pump coupling)   | above 37 kW           | Galvanized steel                              | M10x10     | ISO 4026 |
| 131-1  | Pin for shaft               | up to 4.0 kW          | Carbon Steel                                  | Ø8x42      | ISO 2338 |
|        |                             | above 5.5 kW          | Carbon Steel                                  | Ø8X50      | ISO 2338 |
| 135-1  | Washer (tie rod)            |                       | EN 1.4301 (AISI 304)                          | Ø16        | ISO 7089 |
| 135-2  | Washer (casing tie rod)     |                       | EN 1.4301 (AISI 304)                          | Ø5,1       | UNI 1751 |
| 135-3  | Washer (extension coupling) | above 37 kW           | Galvanized steel                              | Ø10,2      | UNI 1751 |
| 135-4  | Washer (ball bearing)       | above 37 kW           | Plated carbon steel                           | Ø6,1       | UNI 1751 |
| 135-5  | Washer (impeller nut)       |                       | EN 1.4301 (AISI 304)                          |            |          |
| 135-6  | Washer (aluminium coupling) | up to 4.0 kW          | Carbon Steel                                  |            |          |
| 137-1  | Impeller spacer             |                       | EN 1.4301 (AISI 304)                          |            |          |
| 137-2  | Shaft spacer                |                       | EN 1.4301 (AISI 304)                          |            |          |
| 140    | Coupling                    | up to 4.0 kW          | Die cast Aluminium EN AB-AISI11 Cu2 (Fe)      |            |          |
|        |                             | from 5.5 kW to 30 kW  | Cast Iron EN GJL250 EN 1561                   |            |          |
| 140-1  | Extension coupling          | above 37 kW           | Carbon Steel                                  |            |          |
| 140-2  | Coupling                    | above 37 kW           | Carbon Steel                                  |            |          |
| 150    | Spacer (snap ring)          | above 37 kW           | Carbon Steel                                  |            |          |
| 162    | Motor bracket               | up to 30 kW           | Cast Iron EN GJS 400-15 EN 1563               |            |          |
| 212    | Priming plug                |                       | EN 1.4301 (AISI 304)                          |            |          |
| 212-1  | Drainage plug               |                       | EN 1.4301 (AISI 304)                          |            |          |
| 212-2  | Venting plug                |                       | EN 1.4401 (AISI 316)                          |            |          |
| 212-3  | Priming plug                |                       | EN 1.4301 (AISI 304)                          |            |          |
| 245    | Coupling guard              |                       | EN 1.4301 (AISI 304)                          |            |          |
| 273-1  | Washer (drainage plug)      |                       | EN 1.4301 (AISI 304)                          |            |          |
| 274-2  | C-type snap ring (coupling) | above 37 kW           | Carbon Steel TC80                             | Ø75        | UNI 7435 |

# QUANTITY FOR MODEL EVMSG45

| Pump Type        | N° |     |     |     |     |   |   |    |    |      |    |      |      |      |      |      |      |      |      |      |      |    |    |    |    |      |      |    |
|------------------|----|-----|-----|-----|-----|---|---|----|----|------|----|------|------|------|------|------|------|------|------|------|------|----|----|----|----|------|------|----|
|                  | 4  | 5-2 | 5-3 | 5-4 | 5-5 | 6 | 7 | 12 | 21 | 21-1 | 31 | 32-1 | 39-1 | 43-1 | 43-2 | 43-3 | 43-4 | 43-5 | 43-6 | 44-1 | 44-2 | 46 | 47 | 48 | 51 | 52-1 | 52-2 | 53 |
| EVMSG45 1-1/3.0  | 1  | /   | /   | 1   | 1   | 1 | 1 | 1  | /  | 1    | 1  | 1    | /    | 1    | 1    | /    | /    | 1    | 1    | /    | 1    | 1  | 1  | 1  | /  | /    | 1    | 1  |
| EVMSG45 1-0/4.0  | 1  | /   | /   | 1   | 1   | 1 | 1 | 1  | 1  | /    | 1  | 1    | /    | 1    | 1    | /    | /    | 1    | 1    | /    | 1    | 1  | 1  | 1  | /  | /    | 1    | 1  |
| EVMSG45 2-2/5.5  | 1  | 1   | /   | 1   | 1   | 1 | 1 | 1  | /  | 2    | 1  | 1    | /    | 1    | 2    | /    | /    | 1    | 1    | /    | 1    | 1  | 1  | 1  | /  | /    | 1    | 2  |
| EVMSG45 2-0/7.5  | 1  | 1   | /   | 1   | 1   | 1 | 1 | 1  | 2  | /    | 1  | 1    | /    | 1    | 2    | /    | /    | 1    | 1    | /    | 1    | 1  | 1  | 1  | /  | /    | 1    | 2  |
| EVMSG45 3-2/11   | 1  | 1   | 1   | 1   | 1   | 1 | 1 | 1  | 1  | 2    | 1  | 1    | /    | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | 1    | 1    | 2  |
| EVMSG45 3-0/11   | 1  | 1   | 1   | 1   | 1   | 1 | 1 | 1  | 3  | /    | 1  | 1    | /    | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | 1    | 1    | 2  |
| EVMSG45 4-2/15   | 1  | 2   | 1   | 1   | 1   | 1 | 1 | 1  | 2  | 2    | 1  | 1    | /    | 1    | 3    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | 1    | 1    | 4  |
| EVMSG45 4-0/15   | 1  | 2   | 1   | 1   | 1   | 1 | 1 | 1  | 4  | /    | 1  | 1    | /    | 1    | 3    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | 1    | 1    | 4  |
| EVMSG45 5-2/18.5 | 1  | 3   | 1   | 1   | 1   | 1 | 1 | 1  | 3  | 2    | 1  | 1    | /    | 1    | 4    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | 1    | 1    | 5  |
| EVMSG45 5-0/18.5 | 1  | 3   | 1   | 1   | 1   | 1 | 1 | 1  | 5  | /    | 1  | 1    | /    | 1    | 4    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | 1    | 1    | 5  |
| EVMSG45 6-2/22   | 1  | 4   | 1   | 1   | 1   | 1 | 1 | 1  | 4  | 2    | 1  | 1    | /    | 1    | 5    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | 1    | 1    | 6  |
| EVMSG45 6-0/22   | 1  | 4   | 1   | 1   | 1   | 1 | 1 | 1  | 6  | /    | 1  | 1    | /    | 1    | 5    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | 1    | 1    | 6  |
| EVMSG45 7-2/30   | 1  | 5   | 1   | 1   | 1   | 1 | 1 | 1  | 5  | 2    | 1  | 1    | /    | 1    | 6    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | 1    | 1    | 7  |
| EVMSG45 7-0/30   | 1  | 5   | 1   | 1   | 1   | 1 | 1 | 1  | 7  | /    | 1  | 1    | /    | 1    | 6    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | 1    | 1    | 7  |
| EVMSG45 8-2/30   | 1  | 6   | 1   | 1   | 1   | 1 | 1 | 1  | 6  | 2    | 1  | 1    | /    | 1    | 7    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | 1    | 1    | 8  |
| EVMSG45 8-0/30   | 1  | 6   | 1   | 1   | 1   | 1 | 1 | 1  | 8  | /    | 1  | 1    | /    | 1    | 7    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | 1    | 1    | 8  |
| EVMSG45 9-2/30   | 1  | 7   | 1   | 1   | 1   | 1 | 1 | 1  | 7  | 2    | 1  | 1    | /    | 1    | 8    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | 1    | 1    | 9  |
| EVMSG45 9-0/37   | 1  | 7   | 1   | 1   | 1   | 1 | 1 | 1  | 9  | /    | 1  | /    | 1    | 1    | 8    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | 1    | 1    | 9  |
| EVMSG45 10-2/37  | 1  | 8   | 1   | 1   | 1   | 1 | 1 | 1  | 8  | 2    | 1  | /    | 1    | 1    | 9    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | 1    | 1    | 10 |
| EVMSG45 10-0/37  | 1  | 8   | 1   | 1   | 1   | 1 | 1 | 1  | 10 | /    | 1  | /    | 1    | 1    | 9    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | 1    | 1    | 10 |
| EVMSG45 11-2/45  | 1  | 9   | 1   | 1   | 1   | 1 | 1 | 1  | 9  | 2    | 1  | /    | 1    | 1    | 10   | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | 1    | 1    | 11 |
| EVMSG45 11-0/45  | 1  | 9   | 1   | 1   | 1   | 1 | 1 | 1  | 11 | /    | 1  | /    | 1    | 1    | 10   | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | 1    | 1    | 11 |
| EVMSG45 12-2/45  | 1  | 9   | 2   | 1   | 1   | 1 | 1 | 1  | 10 | 2    | 1  | /    | 1    | 1    | 10   | 2    | 2    | 1    | 1    | 2    | 1    | 1  | 1  | 1  | 1  | 2    | 1    | 11 |
| EVMSG45 12-0/45  | 1  | 9   | 2   | 1   | 1   | 1 | 1 | 1  | 12 | /    | 1  | /    | 1    | 1    | 10   | 2    | 2    | 1    | 1    | 2    | 1    | 1  | 1  | 1  | 1  | 2    | 1    | 11 |
| EVMSG45 13-2/45  | 1  | 10  | 2   | 1   | 1   | 1 | 1 | 1  | 11 | 2    | 1  | /    | 1    | 1    | 11   | 2    | 2    | 1    | 1    | 2    | 1    | 1  | 1  | 1  | 1  | 2    | 1    | 12 |

□ shaft in EN 1.4462 (AISI 329A)

| Pump Type        | N° |      |      |    |      |    |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |       |       |       |       |
|------------------|----|------|------|----|------|----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|
|                  | 56 | 70-1 | 70-2 | 75 | 75-1 | 81 | 107 | 111-1 | 111-3 | 111-4 | 111-5 | 115-1 | 115-4 | 115-5 | 120-1 | 120-2 | 120-3 | 120-5 | 120-6 | 120-7 | 120-8 | 120-9 | 120-12 | 120-13 | 128-1 | 128-2 | 128-3 | 128-6 |
| EVMSG45 1-1/3.0  | /  | /    | 1    | 2  | 4    | 1  | 1   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | /     | 4     |
| EVMSG45 1-0/4.0  | /  | /    | 1    | 2  | 4    | 1  | 1   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | /     | 4     |
| EVMSG45 2-2/5.5  | /  | /    | 1    | 2  | 4    | 2  | 2   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | /     |
| EVMSG45 2-0/7.5  | /  | /    | 1    | 2  | 4    | 2  | 2   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | /     |
| EVMSG45 3-2/11   | /  | /    | 1    | 2  | 4    | 2  | 3   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | /     |
| EVMSG45 3-0/11   | /  | /    | 1    | 2  | 4    | 2  | 3   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | /     |
| EVMSG45 4-2/15   | /  | /    | 1    | 2  | 4    | 3  | 4   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | /     |
| EVMSG45 4-0/15   | /  | /    | 1    | 2  | 4    | 3  | 4   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | /     |
| EVMSG45 5-2/18.5 | /  | /    | 1    | 2  | 4    | 4  | 5   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | /     |
| EVMSG45 5-0/18.5 | /  | /    | 1    | 2  | 4    | 4  | 5   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | /     |
| EVMSG45 6-2/22   | /  | /    | 1    | 2  | 4    | 5  | 6   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | /     |
| EVMSG45 6-0/22   | /  | /    | 1    | 2  | 4    | 5  | 6   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | /     |
| EVMSG45 7-2/30   | /  | /    | 1    | 2  | 4    | 6  | 7   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | /     |
| EVMSG45 7-0/30   | /  | /    | 1    | 2  | 4    | 6  | 7   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | /     |
| EVMSG45 8-2/30   | /  | /    | 1    | 2  | 4    | 7  | 8   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | /     |
| EVMSG45 8-0/30   | /  | /    | 1    | 2  | 4    | 7  | 8   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | /     |
| EVMSG45 9-2/30   | /  | /    | 1    | 2  | 4    | 8  | 9   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | /     |
| EVMSG45 9-0/37   | 1  | 1    | 1    | 2  | 4    | 8  | 9   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | /     |
| EVMSG45 10-2/37  | 1  | 1    | 1    | 2  | 4    | 9  | 10  | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | /     |
| EVMSG45 10-0/37  | 1  | 1    | 1    | 2  | 4    | 9  | 10  | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | /     |
| EVMSG45 11-2/45  | 1  | 1    | 1    | 2  | 4    | 10 | 11  | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 8      | 4     | 4     | 8     | /     |
| EVMSG45 11-0/45  | 1  | 1    | 1    | 2  | 4    | 10 | 11  | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 8      | 4     | 4     | 8     | /     |
| EVMSG45 12-2/45  | 1  | 1    | 1    | 2  | 4    | 10 | 12  | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 8      | 4     | 4     | 8     | /     |
| EVMSG45 12-0/45  | 1  | 1    | 1    | 2  | 4    | 10 | 12  | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 8      | 4     | 4     | 8     | /     |
| EVMSG45 13-2/45  | 1  | 1    | 1    | 2  | 4    | 11 | 13  | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 8      | 4     | 4     | 8     | /     |

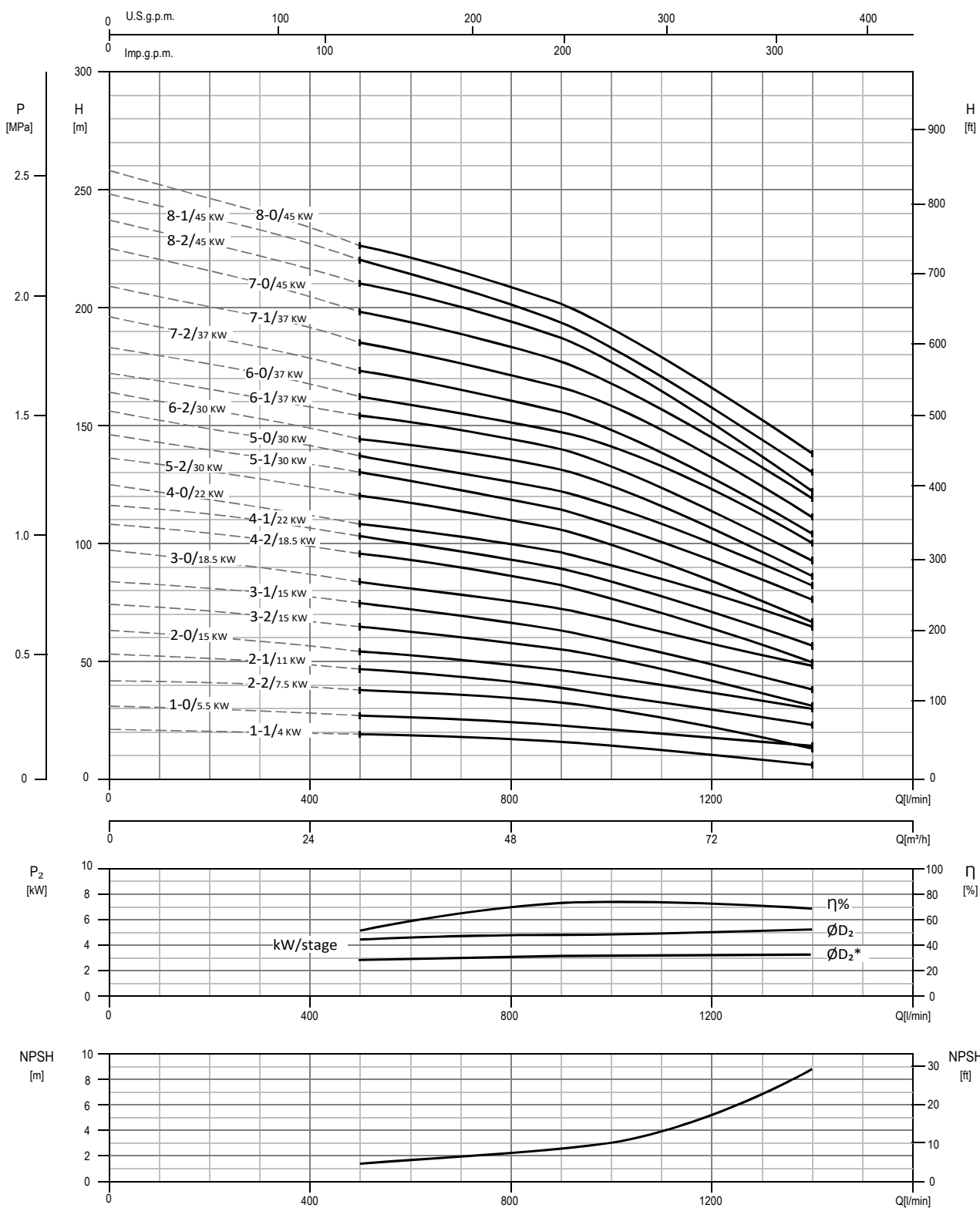
### QUANTITY FOR MODEL EVMSG45

| Pump Type        | N°    |       |       |       |       |       |       |       |       |       |       |       |     |       |       |     |     |     |       |       |       |     |       |       |  |  |  |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-------|-------|-----|-----|-----|-------|-------|-------|-----|-------|-------|--|--|--|
|                  | 130-1 | 130-2 | 130-4 | 131-1 | 135-1 | 135-2 | 135-3 | 135-4 | 135-5 | 135-6 | 137-1 | 137-2 | 140 | 140-1 | 140-2 | 150 | 162 | 212 | 212-1 | 212-2 | 212-3 | 245 | 273-1 | 274-2 |  |  |  |
| EVMSG45 1-1/3.0  | 3     | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | 4     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |
| EVMSG45 1-0/4.0  | 3     | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | 4     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |
| EVMSG45 2-2/5.5  | 3     | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | /     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |
| EVMSG45 2-0/7.5  | 3     | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | /     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |
| EVMSG45 3-2/11   | 3     | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | /     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |
| EVMSG45 3-0/11   | 3     | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | /     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |
| EVMSG45 4-2/15   | 3     | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | /     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |
| EVMSG45 4-0/15   | 3     | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | /     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |
| EVMSG45 5-2/18.5 | 3     | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | /     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |
| EVMSG45 5-0/18.5 | 3     | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | /     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |
| EVMSG45 6-2/22   | 3     | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | /     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |
| EVMSG45 6-0/22   | 3     | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | /     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |
| EVMSG45 7-2/30   | 3     | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | /     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |
| EVMSG45 7-0/30   | 3     | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | /     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |
| EVMSG45 8-2/30   | 3     | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | /     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |
| EVMSG45 8-0/30   | 3     | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | /     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |
| EVMSG45 9-2/30   | 3     | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | /     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |
| EVMSG45 9-0/37   | 3     | 4     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | /     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 4   | 1     | 1     | 2     | 4   | 1     |       |  |  |  |
| EVMSG45 10-2/37  | 3     | 4     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | /     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 4   | 1     | 1     | 2     | 4   | 1     |       |  |  |  |
| EVMSG45 10-0/37  | 3     | 4     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | /     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 4   | 1     | 1     | 2     | 4   | 1     |       |  |  |  |
| EVMSG45 11-2/45  | 3     | 4     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | /     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 4   | 1     | 1     | 2     | 4   | 1     |       |  |  |  |
| EVMSG45 11-0/45  | 3     | 4     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | /     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 4   | 1     | 1     | 2     | 4   | 1     |       |  |  |  |
| EVMSG45 12-2/45  | 3     | 4     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | /     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 4   | 1     | 1     | 2     | 4   | 1     |       |  |  |  |
| EVMSG45 12-0/45  | 3     | 4     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | /     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 4   | 1     | 1     | 2     | 4   | 1     |       |  |  |  |
| EVMSG45 13-2/45  | 3     | 4     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | /     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 4   | 1     | 1     | 2     | 4   | 1     |       |  |  |  |

### BEARINGS EVMSG45

| Pump Type        | N° 56      |
|------------------|------------|
| EVMSG45 1-1/3.0  | /          |
| EVMSG45 1-0/4.0  | /          |
| EVMSG45 2-2/5.5  | /          |
| EVMSG45 2-0/7.5  | /          |
| EVMSG45 3-2/11   | /          |
| EVMSG45 3-0/11   | /          |
| EVMSG45 4-2/15   | /          |
| EVMSG45 4-0/15   | /          |
| EVMSG45 5-2/18.5 | /          |
| EVMSG45 5-0/18.5 | /          |
| EVMSG45 6-2/22   | /          |
| EVMSG45 6-0/22   | /          |
| EVMSG45 7-2/30   | /          |
| EVMSG45 7-0/30   | /          |
| EVMSG45 8-2/30   | /          |
| EVMSG45 8-0/30   | /          |
| EVMSG45 9-2/30   | /          |
| EVMSG45 9-0/37   | 6315 ZZ C3 |
| EVMSG45 10-2/37  | 6315 ZZ C3 |
| EVMSG45 10-0/37  | 6315 ZZ C3 |
| EVMSG45 11-2/45  | 6315 ZZ C3 |
| EVMSG45 11-0/45  | 6315 ZZ C3 |
| EVMSG45 12-2/45  | 6315 ZZ C3 |
| EVMSG45 12-0/45  | 6315 ZZ C3 |
| EVMSG45 13-2/45  | 6315 ZZ C3 |

PERFORMANCE CURVE  
EVMS(L)64

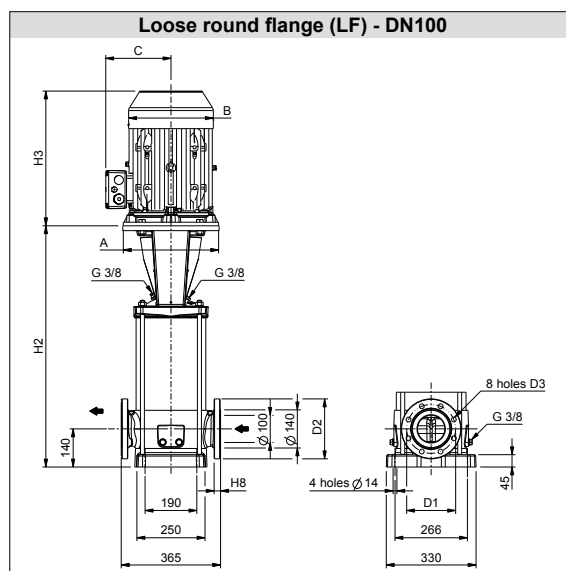


Test standard: ISO 9906:2012 - Grade 3B

# TECHNICAL DATA

## EVMS(L)64

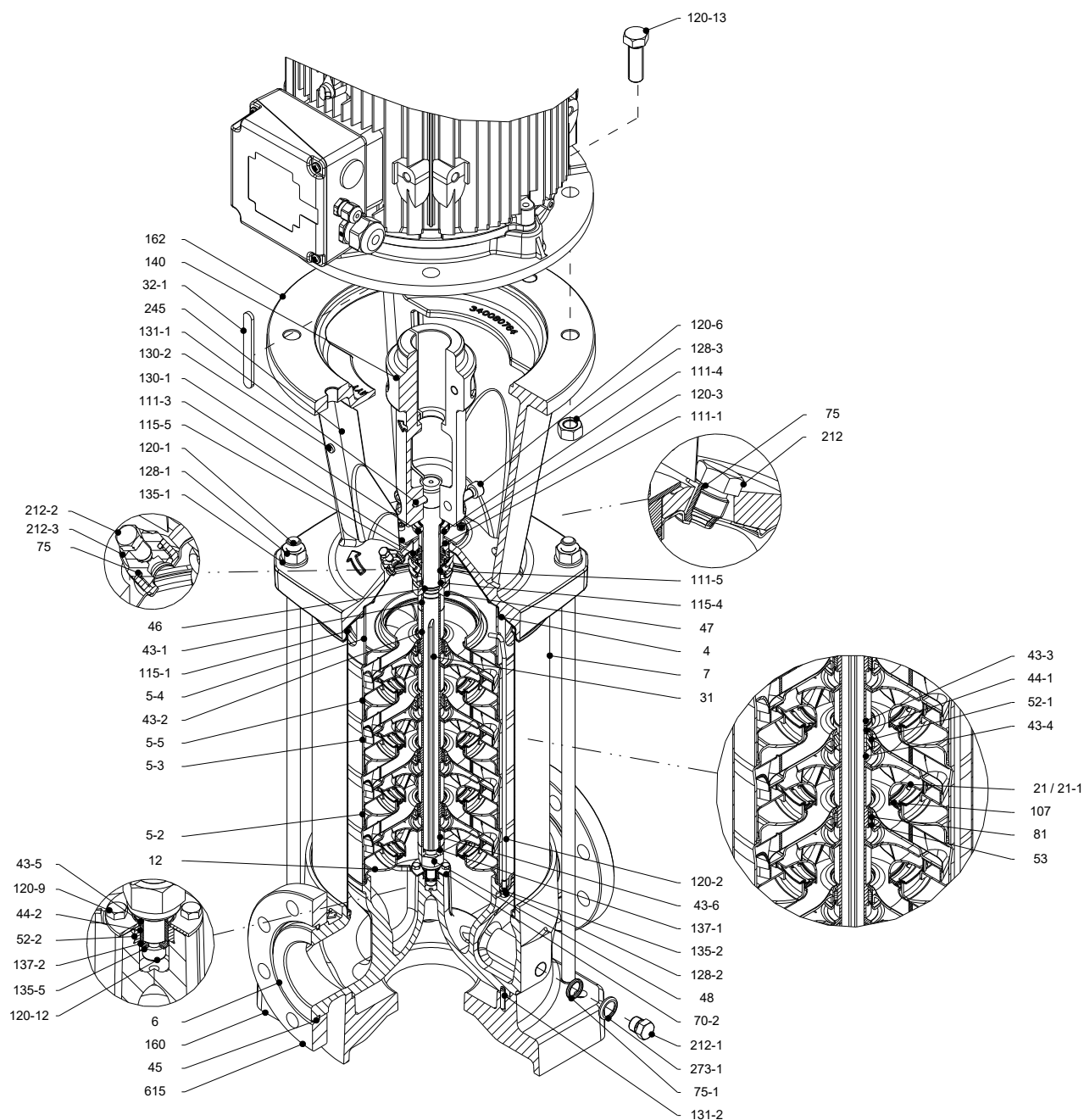
### Dimensional sketch



### Dimensions [mm] and Weights [Kg]

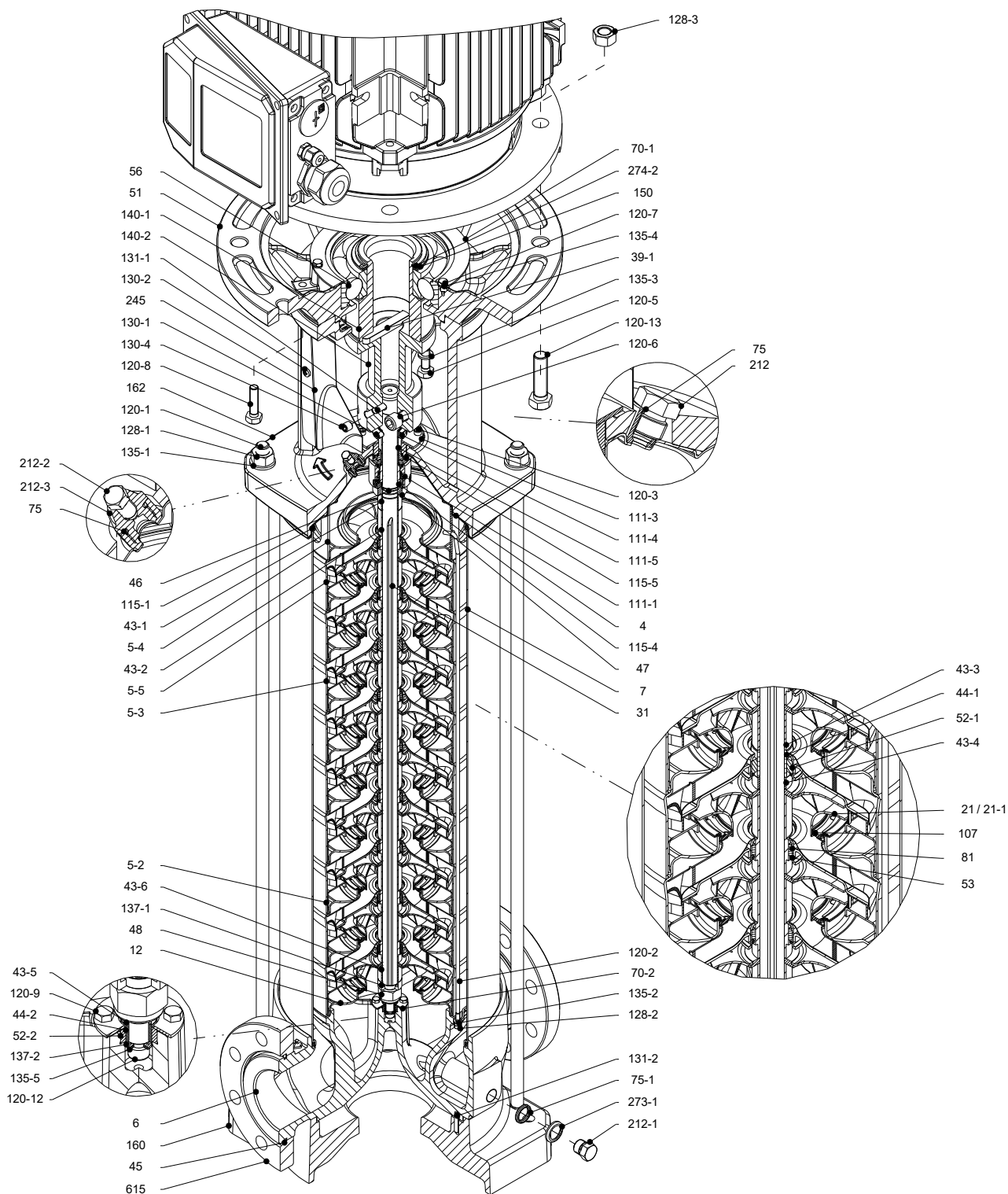
| Pump Type          |     | Pmax<br>[MPa] | Motor |      |        |     | Loose round flange (LF) |      |       |     |    |    |       |       | Weight<br>Pump | Weight<br>Pump + Motor |
|--------------------|-----|---------------|-------|------|--------|-----|-------------------------|------|-------|-----|----|----|-------|-------|----------------|------------------------|
|                    |     |               | kW    | Size | A<br>Ø | B   | C                       | H2   | H2+H3 | D1  | D2 | D3 | H8    |       |                |                        |
|                    |     |               |       |      |        |     |                         |      |       |     |    |    |       |       |                |                        |
| EVMS(L)64 1-1/4.0  | 1.6 | 4.0           | 112   | 160  | 193    | 138 | 546                     | 910  | 180   | 220 | 18 | 24 | 67.8  | 96.3  |                |                        |
| EVMS(L)64 1-0/5.5  | 1.6 | 5.5           | 132   | 300  | 220    | 152 | 650                     | 1049 | 180   | 220 | 18 | 24 | 77.6  | 116.6 |                |                        |
| EVMS(L)64 2-2/7.5  | 1.6 | 7.5           | 132   | 300  | 220    | 152 | 722                     | 1141 | 180   | 220 | 18 | 24 | 82.7  | 128.7 |                |                        |
| EVMS(L)64 2-1/11   | 1.6 | 11            | 160   | 350  | 259    | 180 | 752                     | 1191 | 180   | 220 | 18 | 24 | 90.0  | 152.5 |                |                        |
| EVMS(L)64 2-0/15   | 1.6 | 15            | 160   | 350  | 311    | 240 | 752                     | 1247 | 180   | 220 | 18 | 24 | 90.0  | 191.0 |                |                        |
| EVMS(L)64 3-2/15   | 1.6 | 15            | 160   | 350  | 311    | 240 | 824                     | 1319 | 180   | 220 | 18 | 24 | 95.1  | 196.1 |                |                        |
| EVMS(L)64 3-1/15   | 1.6 | 15            | 160   | 350  | 311    | 240 | 824                     | 1319 | 180   | 220 | 18 | 24 | 95.1  | 196.1 |                |                        |
| EVMS(L)64 3-0/18.5 | 1.6 | 18.5          | 160   | 350  | 311    | 240 | 824                     | 1319 | 180   | 220 | 18 | 24 | 95.1  | 204.1 |                |                        |
| EVMS(L)64 4-2/18.5 | 1.6 | 18.5          | 160   | 350  | 311    | 240 | 896                     | 1391 | 180   | 220 | 18 | 24 | 100.2 | 209.2 |                |                        |
| EVMS(L)64 4-1/22   | 1.6 | 22            | 180   | 350  | 354    | 260 | 896                     | 1448 | 180   | 220 | 18 | 24 | 100.4 | 235.4 |                |                        |
| EVMS(L)64 4-0/22   | 1.6 | 22            | 180   | 350  | 354    | 260 | 896                     | 1448 | 180   | 220 | 18 | 24 | 100.4 | 235.4 |                |                        |
| EVMS(L)64 5-2/30   | 1.6 | 30            | 200   | 400  | 354    | 280 | 968                     | 1520 | 180   | 220 | 18 | 24 | 110.9 | 278.9 |                |                        |
| EVMS(L)64 5-1/30   | 1.6 | 30            | 200   | 400  | 354    | 280 | 968                     | 1520 | 180   | 220 | 18 | 24 | 110.9 | 278.9 |                |                        |
| EVMS(L)64 5-0/30   | 1.6 | 30            | 200   | 400  | 354    | 280 | 968                     | 1520 | 180   | 220 | 18 | 24 | 110.9 | 278.9 |                |                        |
| EVMS(L)64 6-2/30   | 2.5 | 30            | 200   | 400  | 354    | 280 | 1040                    | 1592 | 190   | 235 | 22 | 30 | 121.2 | 289.2 |                |                        |
| EVMS(L)64 6-1/37   | 2.5 | 37            | 200   | 400  | 382    | 295 | 1057                    | 1734 | 190   | 235 | 22 | 30 | 133.2 | 393.2 |                |                        |
| EVMS(L)64 6-0/37   | 2.5 | 37            | 200   | 400  | 382    | 295 | 1057                    | 1734 | 190   | 235 | 22 | 30 | 133.2 | 393.2 |                |                        |
| EVMS(L)64 7-2/37   | 2.5 | 37            | 200   | 400  | 382    | 295 | 1129                    | 1806 | 190   | 235 | 22 | 30 | 138.6 | 398.6 |                |                        |
| EVMS(L)64 7-1/37   | 2.5 | 37            | 200   | 400  | 382    | 295 | 1129                    | 1806 | 190   | 235 | 22 | 30 | 138.6 | 398.6 |                |                        |
| EVMS(L)64 7-0/45   | 2.5 | 45            | 225   | 450  | 449    | 335 | 1129                    | 1895 | 190   | 235 | 22 | 30 | 144.2 | 518.2 |                |                        |
| EVMS(L)64 8-2/45   | 2.5 | 45            | 225   | 450  | 449    | 335 | 1201                    | 1967 | 190   | 235 | 22 | 30 | 149.9 | 523.9 |                |                        |
| EVMS(L)64 8-1/45   | 2.5 | 45            | 225   | 450  | 449    | 335 | 1201                    | 1967 | 190   | 235 | 22 | 30 | 149.4 | 523.4 |                |                        |
| EVMS(L)64 8-0/45   | 2.5 | 45            | 225   | 450  | 449    | 335 | 1201                    | 1967 | 190   | 235 | 22 | 30 | 149.4 | 523.3 |                |                        |

1.6 MPa=16 bar;      2.5 MPa=25 bar

SECTIONAL VIEW  
EVMS(L)64

Pump without ball bearing  
up to 30 kW

### SECTIONAL VIEW EVMS(L)64



Pump with single ball bearing  
above 37 kW



SECTIONAL TABLE  
EVMS(L)64

| N°    | PART NAME                              | MATERIAL                                      |                                                  | DIMENSIONS   | STANDARD |
|-------|----------------------------------------|-----------------------------------------------|--------------------------------------------------|--------------|----------|
|       |                                        | EVMS                                          | EVMSL                                            |              |          |
| 4     | Casing cover                           | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                            |              |          |
| 5-2   | Intermediate casing                    | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                            |              |          |
| 5-3   | Intermediate casing with bearing       | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                            |              |          |
| 5-4   | Discharge casing                       | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                            |              |          |
| 5-5   | Top intermediate casing                | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                            |              |          |
| 6     | Bottom casing                          | EN 1.4308 (ASTM CF8)                          | EN 1.4408 (ASTM CF8M)                            |              |          |
| 7     | Outer casing                           | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                            |              |          |
| 12    | Suction cover                          | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                            |              |          |
| 21    | Impeller                               | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                            |              |          |
| 21-1  | Reduced impeller                       | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                            |              |          |
| 31    | Shaft                                  | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L) -<br>EN 1.4462 (AISI 329A) |              |          |
| 32-1  | Adjuster key                           | EN 1.4301 (AISI 304)                          |                                                  |              |          |
| 39-1  | Coupling key above 37 kW               | Carbon Steel                                  |                                                  |              |          |
| 43-1  | Shaft sleeve (mechanical seal)         | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                            |              |          |
| 43-2  | Shaft sleeve (intermediate)            | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                            |              |          |
| 43-3  | Shaft sleeve (bearing)                 | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                            |              |          |
| 43-4  | Shaft sleeve (adjustment)              | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                            |              |          |
| 43-5  | Shaft sleeve (last stage)              | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                            |              |          |
| 43-6  | Shaft sleeve (adjustment)              | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                            |              |          |
| 44-1  | Shaft sleeve bearing                   | Tungsten carbide                              |                                                  |              |          |
| 44-2  | Shaft sleeve (bearing)                 | Tungsten carbide                              |                                                  |              |          |
| 45    | Flange holder                          | EN 1.4301 (AISI 304)                          |                                                  |              |          |
| 46    | Ring (mechanical seal)                 | EN 1.4404 (AISI 316L)                         |                                                  |              |          |
| 47    | Ring holder                            | EN 1.4404 (AISI 316L)                         |                                                  |              |          |
| 48    | Impeller nut                           | EN 1.4301 (AISI 304)<br>with inox insert      | EN 1.4401 (AISI 316)<br>with inox insert         |              |          |
| 51    | Motor adapter above 37 kW              | Cast Iron EN GJL250 EN 1561                   |                                                  |              |          |
| 52-1  | Sleeve bearing                         | Tungsten carbide                              |                                                  |              |          |
| 52-2  | Bearing sleeve (bottom casing)         | Tungsten carbide                              |                                                  |              |          |
| 53    | Bush holder                            | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                            |              |          |
| 56    | Ball bearing above 37 kW               | see table page 127                            |                                                  |              |          |
| 70-1  | Ring for ball bearing above 37 kW      | EN 1.4301 (AISI 304)                          |                                                  |              |          |
| 70-2  | Ring for bearing sleeve                | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                            |              |          |
| 75    | O-Ring (priming plug)                  | EPDM / FPM                                    |                                                  | Ø12.37x2.62  | OR 3050  |
| 75-1  | O-Ring (drainage plug)                 | EPDM / FPM                                    |                                                  |              |          |
| 81    | Bush                                   | PTFE                                          |                                                  |              |          |
| 107   | Liner ring                             | EN 1.4301 (AISI 304) + PPS                    | EN 1.4404 (AISI 316L) + PPS                      |              |          |
| 111-1 | Mechanical seal                        | See pages 6-7                                 |                                                  |              |          |
| 111-3 | Mechanical seal seat                   | EN 1.4301 (AISI 304)                          | EN 1.4401 (AISI 316)                             |              |          |
| 111-4 | Seal holder                            | EN 1.4404 (AISI 316L)                         |                                                  |              |          |
| 111-5 | Mechanical seal cartridge sleeve       | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                            |              |          |
| 115-1 | O-Ring (outer casing)                  | EPDM / FPM                                    |                                                  | Ø240.66x5.34 | OR 6945  |
| 115-4 | O-Ring (cartridge sleeve)              | EPDM / FPM                                    |                                                  | Ø23.39x3.53  | OR 4093  |
| 115-5 | O-Ring (seal flange)                   | EPDM / FPM                                    |                                                  | Ø44.04x3.53  | OR 4175  |
| 120-1 | Tie rod                                | EN 1.4057 (AISI 431)                          |                                                  |              |          |
| 120-2 | Tie rod (stage)                        | EN 1.4301 (AISI 304)                          | EN 1.4401 (AISI 316)                             |              |          |
| 120-3 | Screw (seal flange)                    | A2-70                                         |                                                  | M5x12        | ISO 4762 |
| 120-5 | Screw (extension coupling) above 37 kW | Galvanized steel 8.8 strength class ISO 898/1 |                                                  | M10x30       | ISO 4017 |

### SECTIONAL TABLE EVMS(L)64

| N°     | PART NAME                   | MATERIAL              |                                               | DIMENSIONS | STANDARD |
|--------|-----------------------------|-----------------------|-----------------------------------------------|------------|----------|
|        |                             | EVMS                  | EVMSL                                         |            |          |
| 120-6  | Screw (pump coupling)       | up to 4.0 kW          | Galvanized steel 8.8 strength class ISO 898/1 | M6x25      | ISO 4762 |
|        |                             | from 5.5 kW to 7.5 kW | Galvanized steel 8.8 strength class ISO 898/1 | M8x25      | ISO 4762 |
|        |                             | from 11 kW to 30 kW   | Galvanized steel 8.8 strength class ISO 898/1 | M10x30     | ISO 4762 |
|        |                             | above 37 kW           | Galvanized steel 8.8 strength class ISO 898/1 | M12x30     | ISO 4762 |
| 120-7  | Screw (ball bearing)        | above 37 kW           | Galvanized steel 8.8 strength class ISO 898/1 | M6x10      | ISO 4017 |
| 120-8  | Screw (motor adapter)       | above 37 kW           | Galvanized steel 8.8 strength class ISO 898/1 | M10x40     | ISO 4017 |
| 120-9  | Screw (bottom casing)       |                       | A2-70                                         | M5x8       | ISO 4017 |
| 120-12 | Screw (shaft)               |                       | A2-70                                         | M6x16      | ISO 4762 |
| 120-13 | Screw for motor             | MEC 112               | Galvanized steel 8.8 strength class ISO 898/1 | M8x20      | ISO 4017 |
|        |                             | MEC 132               | Galvanized steel 8.8 strength class ISO 898/1 | M12x45     | ISO 4017 |
|        |                             | MEC 160-180           | Galvanized steel 8.8 strength class ISO 898/1 | M16x50     | ISO 4017 |
|        |                             | MEC 200-225           | Galvanized steel 8.8 strength class ISO 898/1 | M16x60     | ISO 4014 |
| 128-1  | Nut (tie rod)               |                       | A2-70                                         | M16        | ISO 4032 |
| 128-2  | Nut (casing tie rod)        |                       | A2-70 UNI 7323                                | M5         | ISO 4032 |
| 128-3  | Nut (motor)                 | MEC 132               | Galvanized steel                              | M12        | ISO 4032 |
|        |                             | MEC 160-180-200-225   | Galvanized steel                              | M16        | ISO 4032 |
| 128-6  | Nut (aluminium coupling)    | MEC 112               | Galvanized steel                              | M6         | ISO 4032 |
| 130-1  | Set screw                   |                       | EN 1.4301 (AISI 304)                          | M6x8       | ISO 4026 |
| 130-2  | Screw for coupling guard    |                       | A2-70                                         | M5x6       | UNI 7687 |
| 130-4  | Set screw (pump coupling)   | above 37 kW           | Galvanized steel                              | M10x10     | ISO 4026 |
| 131-1  | Pin for shaft               | up to 4.0 kW          | Carbon Steel                                  | Ø8x42      | ISO 2338 |
|        |                             | above 5.5 kW          | Carbon Steel                                  | Ø8x50      | ISO 2338 |
| 131-2  | Elastic pin                 |                       | EN 1.4301 (AISI 304)                          | Ø6x26      | ISO 8752 |
| 135-1  | Washer (tie rod)            |                       | EN 1.4301 (AISI 304)                          | Ø16        | ISO 7089 |
| 135-2  | Washer (casing tie rod)     |                       | EN 1.4301 (AISI 304)    EN 1.4404 (AISI 316)  | Ø5,1       | UNI 1751 |
| 135-3  | Washer (extension coupling) | above 37 kW           | Galvanized steel                              | Ø10,2      | UNI 1751 |
| 135-4  | Washer (ball bearing)       | above 37 kW           | Plated carbon steel                           | Ø6,1       | UNI 1751 |
| 135-5  | Washer (impeller nut)       |                       | EN 1.4301 (AISI 304)    EN 1.4404 (AISI 316L) |            |          |
| 135-6  | Washer (aluminium coupling) | up to 4.0 kW          | Carbon Steel                                  |            |          |
| 137-1  | Impeller spacer             |                       | EN 1.4301 (AISI 304)    EN 1.4404 (AISI 316L) |            |          |
| 137-2  | Shaft spacer                |                       | EN 1.4301 (AISI 304)    EN 1.4404 (AISI 316L) |            |          |
| 140    | Coupling                    | up to 4.0 kW          | Die cast Aluminium EN AB-AISI11 Cu2 (Fe)      |            |          |
|        |                             | from 5.5 kW to 30 kW  | Cast Iron EN GJL250 EN 1561                   |            |          |
| 140-1  | Extension coupling          | above 37 kW           | Carbon Steel                                  |            |          |
| 140-2  | Coupling                    | above 37 kW           | Carbon Steel                                  |            |          |
| 150    | Spacer (snap ring)          | above 37 kW           | Carbon Steel                                  |            |          |
| 160    | Base                        |                       | Cast Iron EN GJL200 EN 1561                   |            |          |
| 162    | Motor bracket               | up to 30 kW           | Cast Iron EN GJS 400-15 EN 1563               |            |          |
| 212    | Priming plug                |                       | EN 1.4301 (AISI 304)    EN 1.4404 (AISI 316L) |            |          |
| 212-1  | Drainage plug               |                       | EN 1.4301 (AISI 304)    EN 1.4404 (AISI 316L) |            |          |
| 212-2  | Venting plug                |                       | EN 1.4401 (AISI 316)                          |            |          |
| 212-3  | Priming plug                |                       | EN 1.4301 (AISI 304)    EN 1.4404 (AISI 316L) |            |          |
| 245    | Coupling guard              |                       | EN 1.4301 (AISI 304)                          |            |          |
| 273-1  | Washer (drainage plug)      |                       | EN 1.4301 (AISI 304)    EN 1.4404 (AISI 316L) |            |          |
| 274-2  | C-type snap ring (coupling) | above 37 kW           | Carbon Steel TC80                             | Ø75        | UNI 7435 |
| 615    | Loose flange                |                       | Cast Iron EN GJS 500-7 EN 1563                |            |          |

# QUANTITY FOR MODEL EVMS(L)64

| Pump Type          | N° |     |     |     |     |   |   |    |    |      |    |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |      |      |
|--------------------|----|-----|-----|-----|-----|---|---|----|----|------|----|------|------|------|------|------|------|------|------|------|------|----|----|----|----|----|------|------|
|                    | 4  | 5-2 | 5-3 | 5-4 | 5-5 | 6 | 7 | 12 | 21 | 21-1 | 31 | 32-1 | 39-1 | 43-1 | 43-2 | 43-3 | 43-4 | 43-5 | 43-6 | 44-1 | 44-2 | 45 | 46 | 47 | 48 | 51 | 52-1 | 52-2 |
| EVMS(L)64 1-1/4.0  | 1  | /   | /   | 1   | 1   | 1 | 1 | 1  | /  | 1    | 1  | 1    | /    | 1    | 1    | /    | /    | 1    | 1    | /    | 1    | 4  | 1  | 1  | 1  | /  | /    | 1    |
| EVMS(L)64 1-0/5.5  | 1  | /   | /   | 1   | 1   | 1 | 1 | 1  | 1  | /    | 1  | 1    | /    | 1    | 1    | /    | /    | 1    | 1    | /    | 1    | 4  | 1  | 1  | 1  | /  | /    | 1    |
| EVMS(L)64 2-2/7.5  | 1  | 1   | /   | 1   | 1   | 1 | 1 | 1  | /  | 2    | 1  | 1    | /    | 1    | 2    | /    | /    | 1    | 1    | /    | 1    | 4  | 1  | 1  | 1  | /  | /    | 1    |
| EVMS(L)64 2-1/11   | 1  | 1   | /   | 1   | 1   | 1 | 1 | 1  | 1  | 1    | 1  | 1    | /    | 1    | 2    | /    | /    | 1    | 1    | /    | 1    | 4  | 1  | 1  | 1  | /  | /    | 1    |
| EVMS(L)64 2-0/15   | 1  | 1   | /   | 1   | 1   | 1 | 1 | 1  | 2  | /    | 1  | 1    | /    | 1    | 2    | /    | /    | 1    | 1    | /    | 1    | 4  | 1  | 1  | 1  | /  | /    | 1    |
| EVMS(L)64 3-2/15   | 1  | 1   | 1   | 1   | 1   | 1 | 1 | 1  | 1  | 2    | 1  | 1    | /    | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    | 1    |
| EVMS(L)64 3-1/15   | 1  | 1   | 1   | 1   | 1   | 1 | 1 | 1  | 2  | 1    | 1  | 1    | /    | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    | 1    |
| EVMS(L)64 3-0/18.5 | 1  | 1   | 1   | 1   | 1   | 1 | 1 | 1  | 3  | /    | 1  | 1    | /    | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    | 1    |
| EVMS(L)64 4-2/18.5 | 1  | 2   | 1   | 1   | 1   | 1 | 1 | 1  | 2  | 2    | 1  | 1    | /    | 1    | 3    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    | 1    |
| EVMS(L)64 4-1/22   | 1  | 2   | 1   | 1   | 1   | 1 | 1 | 1  | 3  | 1    | 1  | 1    | /    | 1    | 3    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    | 1    |
| EVMS(L)64 4-0/22   | 1  | 2   | 1   | 1   | 1   | 1 | 1 | 1  | 4  | /    | 1  | 1    | /    | 1    | 3    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    | 1    |
| EVMS(L)64 5-2/30   | 1  | 3   | 1   | 1   | 1   | 1 | 1 | 1  | 3  | 2    | 1  | 1    | /    | 1    | 4    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    | 1    |
| EVMS(L)64 5-1/30   | 1  | 3   | 1   | 1   | 1   | 1 | 1 | 1  | 4  | 1    | 1  | 1    | /    | 1    | 4    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    | 1    |
| EVMS(L)64 5-0/30   | 1  | 3   | 1   | 1   | 1   | 1 | 1 | 1  | 5  | /    | 1  | 1    | /    | 1    | 4    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    | 1    |
| EVMS(L)64 6-2/30   | 1  | 4   | 1   | 1   | 1   | 1 | 1 | 1  | 4  | 2    | 1  | 1    | /    | 1    | 5    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    | 1    |
| EVMS(L)64 6-1/37   | 1  | 4   | 1   | 1   | 1   | 1 | 1 | 1  | 5  | 1    | 1  | /    | 1    | 1    | 5    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | 1  | 1    | 1    |
| EVMS(L)64 6-0/37   | 1  | 4   | 1   | 1   | 1   | 1 | 1 | 1  | 6  | /    | 1  | /    | 1    | 1    | 5    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | 1  | 1    | 1    |
| EVMS(L)64 7-2/37   | 1  | 5   | 1   | 1   | 1   | 1 | 1 | 1  | 5  | 2    | 1  | /    | 1    | 1    | 6    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | 1  | 1    | 1    |
| EVMS(L)64 7-1/37   | 1  | 5   | 1   | 1   | 1   | 1 | 1 | 1  | 6  | 1    | 1  | /    | 1    | 1    | 6    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | 1  | 1    | 1    |
| EVMS(L)64 7-0/45   | 1  | 5   | 1   | 1   | 1   | 1 | 1 | 1  | 7  | /    | 1  | /    | 1    | 1    | 6    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | 1  | 1    | 1    |
| EVMS(L)64 8-2/45   | 1  | 6   | 1   | 1   | 1   | 1 | 1 | 1  | 6  | 2    | 1  | /    | 1    | 1    | 7    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | 1  | 1    | 1    |
| EVMS(L)64 8-1/45   | 1  | 6   | 1   | 1   | 1   | 1 | 1 | 1  | 7  | 1    | 1  | /    | 1    | 1    | 7    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | 1  | 1    | 1    |
| EVMS(L)64 8-0/45   | 1  | 6   | 1   | 1   | 1   | 1 | 1 | 1  | 8  | 0    | 1  | /    | 1    | 1    | 7    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | 1  | 1    | 1    |

 shaft in EN 1.4462 (AISI 329A)

| Pump Type          | N° |    |      |      |    |      |    |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |       |       |       |
|--------------------|----|----|------|------|----|------|----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|
|                    | 53 | 56 | 70-1 | 70-2 | 75 | 75-1 | 81 | 107 | 111-1 | 111-3 | 111-4 | 111-5 | 115-1 | 115-4 | 115-5 | 120-1 | 120-2 | 120-3 | 120-6 | 120-5 | 120-7 | 120-8 | 120-9 | 120-12 | 120-13 | 128-1 | 128-2 | 128-3 |
| EVMS(L)64 1-1/4.0  | 1  | /  | /    | 1    | 2  | 4    | 1  | 1   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | /     | /     | /     | 4     | 1      | 4      | 4     | 4     | /     |
| EVMS(L)64 1-0/5.5  | 1  | /  | /    | 1    | 2  | 4    | 1  | 1   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | /     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)64 2-2/7.5  | 2  | /  | /    | 1    | 2  | 4    | 2  | 2   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | /     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)64 2-1/11   | 2  | /  | /    | 1    | 2  | 4    | 2  | 2   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | /     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)64 2-0/15   | 2  | /  | /    | 1    | 2  | 4    | 2  | 2   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | /     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)64 3-2/15   | 2  | /  | /    | 1    | 2  | 4    | 2  | 3   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | /     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)64 3-1/15   | 2  | /  | /    | 1    | 2  | 4    | 2  | 3   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | /     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)64 3-0/18.5 | 2  | /  | /    | 1    | 2  | 4    | 2  | 3   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | /     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)64 4-2/18.5 | 4  | /  | /    | 1    | 2  | 4    | 3  | 4   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | /     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)64 4-1/22   | 4  | /  | /    | 1    | 2  | 4    | 3  | 4   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | /     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)64 4-0/22   | 4  | /  | /    | 1    | 2  | 4    | 3  | 4   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | /     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)64 5-2/30   | 5  | /  | /    | 1    | 2  | 4    | 4  | 5   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | /     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)64 5-1/30   | 5  | /  | /    | 1    | 2  | 4    | 4  | 5   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | /     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)64 5-0/30   | 5  | /  | /    | 1    | 2  | 4    | 4  | 5   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | /     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)64 6-2/30   | 6  | /  | /    | 1    | 2  | 4    | 5  | 6   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | /     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)64 6-1/37   | 6  | 1  | 1    | 1    | 2  | 4    | 5  | 6   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 2     | 4     | 3     | 4     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)64 6-0/37   | 6  | 1  | 1    | 1    | 2  | 4    | 5  | 6   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 2     | 4     | 3     | 4     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)64 7-2/37   | 7  | 1  | 1    | 1    | 2  | 4    | 6  | 7   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 2     | 4     | 3     | 4     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)64 7-1/37   | 7  | 1  | 1    | 1    | 2  | 4    | 6  | 7   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 2     | 4     | 3     | 4     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)64 7-0/45   | 7  | 1  | 1    | 1    | 2  | 4    | 6  | 7   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 2     | 4     | 3     | 4     | 4     | 1      | 8      | 4     | 4     | 8     |
| EVMS(L)64 8-2/45   | 8  | 1  | 1    | 1    | 2  | 4    | 7  | 8   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 2     | 4     | 3     | 4     | 4     | 1      | 8      | 4     | 4     | 8     |
| EVMS(L)64 8-1/45   | 8  | 1  | 1    | 1    | 2  | 4    | 7  | 8   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 2     | 4     | 3     | 4     | 4     | 1      | 8      | 4     | 4     | 8     |
| EVMS(L)64 8-0/45   | 8  | 1  | 1    | 1    | 2  | 4    | 7  | 8   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 2     | 4     | 3     | 4     | 4     | 1      | 8      | 4     | 4     | 8     |

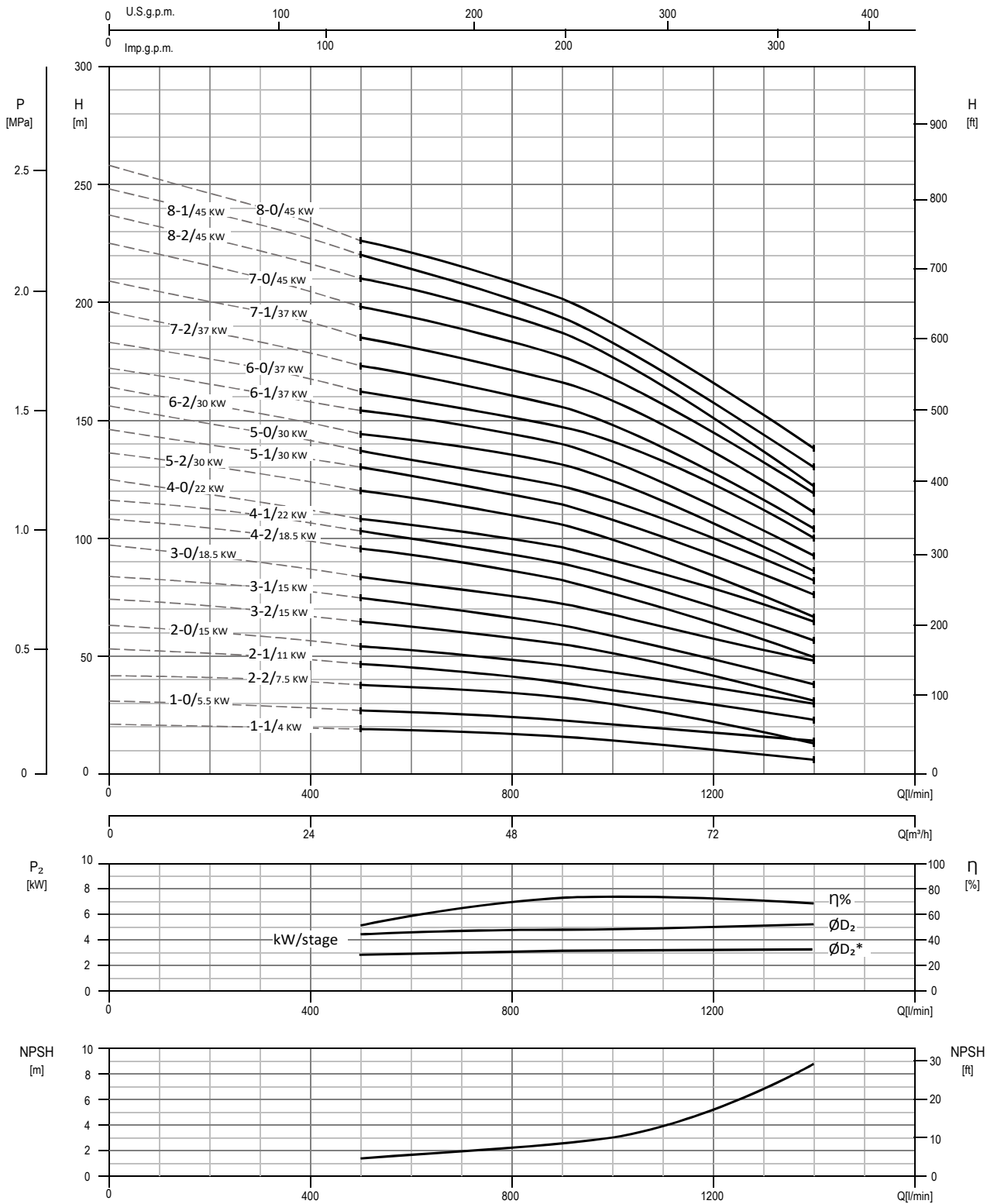
### QUANTITY FOR MODEL EVMS(L)64

| Pump Type          | N°    |       |       |       |       |       |       |       |       |       |       |       |       |       |     |       |       |     |     |     |     |       |       |       |     |       |       |     |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-------|-------|-----|-----|-----|-----|-------|-------|-------|-----|-------|-------|-----|
|                    | 128-6 | 130-1 | 130-2 | 130-4 | 131-1 | 131-2 | 135-1 | 137-1 | 135-2 | 135-3 | 135-4 | 135-5 | 135-6 | 137-2 | 140 | 140-1 | 140-2 | 150 | 160 | 162 | 212 | 212-1 | 212-2 | 212-3 | 245 | 273-1 | 274-2 | 615 |
| EVMS(L)64 1-1/4.0  | 4     | 3     | 4     | /     | 1     | 1     | 4     | 1     | 2     | /     | /     | 1     | 4     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)64 1-0/5.5  | /     | 3     | 4     | /     | 1     | 1     | 4     | 1     | 2     | /     | /     | 1     | /     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)64 2-2/7.5  | /     | 3     | 4     | /     | 1     | 1     | 4     | 1     | 2     | /     | /     | 1     | /     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)64 2-1/11   | /     | 3     | 4     | /     | 1     | 1     | 4     | 1     | 2     | /     | /     | 1     | /     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)64 2-0/15   | /     | 3     | 4     | /     | 1     | 1     | 4     | 1     | 2     | /     | /     | 1     | /     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)64 3-2/15   | /     | 3     | 4     | /     | 1     | 1     | 4     | 1     | 2     | /     | /     | 1     | /     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)64 3-1/15   | /     | 3     | 4     | /     | 1     | 1     | 4     | 1     | 2     | /     | /     | 1     | /     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)64 3-0/18.5 | /     | 3     | 4     | /     | 1     | 1     | 4     | 1     | 2     | /     | /     | 1     | /     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)64 4-2/18.5 | /     | 3     | 4     | /     | 1     | 1     | 4     | 1     | 2     | /     | /     | 1     | /     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)64 4-1/22   | /     | 3     | 4     | /     | 1     | 1     | 4     | 1     | 2     | /     | /     | 1     | /     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)64 4-0/22   | /     | 3     | 4     | /     | 1     | 1     | 4     | 1     | 2     | /     | /     | 1     | /     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)64 5-2/30   | /     | 3     | 4     | /     | 1     | 1     | 4     | 1     | 2     | /     | /     | 1     | /     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)64 5-1/30   | /     | 3     | 4     | /     | 1     | 1     | 4     | 1     | 2     | /     | /     | 1     | /     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)64 5-0/30   | /     | 3     | 4     | /     | 1     | 1     | 4     | 1     | 2     | /     | /     | 1     | /     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)64 6-2/30   | /     | 3     | 4     | /     | 1     | 1     | 4     | 1     | 2     | /     | /     | 1     | /     | 1     | 2   | /     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |
| EVMS(L)64 6-1/37   | /     | 3     | 4     | 1     | 1     | 1     | 4     | 1     | 2     | 4     | 3     | 1     | /     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     | 2   |
| EVMS(L)64 6-0/37   | /     | 3     | 4     | 1     | 1     | 1     | 4     | 1     | 2     | 4     | 3     | 1     | /     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     | 2   |
| EVMS(L)64 7-2/37   | /     | 3     | 4     | 1     | 1     | 1     | 4     | 1     | 2     | 4     | 3     | 1     | /     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     | 2   |
| EVMS(L)64 7-1/37   | /     | 3     | 4     | 1     | 1     | 1     | 4     | 1     | 2     | 4     | 3     | 1     | /     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     | 2   |
| EVMS(L)64 7-0/45   | /     | 3     | 4     | 1     | 1     | 1     | 4     | 1     | 2     | 4     | 3     | 1     | /     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     | 2   |
| EVMS(L)64 8-2/45   | /     | 3     | 4     | 1     | 1     | 1     | 4     | 1     | 2     | 4     | 3     | 1     | /     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     | 2   |
| EVMS(L)64 8-1/45   | /     | 3     | 4     | 1     | 1     | 1     | 4     | 1     | 2     | 4     | 3     | 1     | /     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     | 2   |
| EVMS(L)64 8-0/45   | /     | 3     | 4     | 1     | 1     | 1     | 4     | 1     | 2     | 4     | 3     | 1     | /     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     | 2   |

### BEARINGS EVMS(L)64

| Pump Type          | N° 56      |
|--------------------|------------|
| EVMS(L)64 1-1/4.0  | /          |
| EVMS(L)64 1-0/5.5  | /          |
| EVMS(L)64 2-2/7.5  | /          |
| EVMS(L)64 2-1/11   | /          |
| EVMS(L)64 2-0/15   | /          |
| EVMS(L)64 3-2/15   | /          |
| EVMS(L)64 3-1/15   | /          |
| EVMS(L)64 3-0/18.5 | /          |
| EVMS(L)64 4-2/18.5 | /          |
| EVMS(L)64 4-1/22   | /          |
| EVMS(L)64 4-0/22   | /          |
| EVMS(L)64 5-2/30   | /          |
| EVMS(L)64 5-1/30   | /          |
| EVMS(L)64 5-0/30   | /          |
| EVMS(L)64 6-2/30   | /          |
| EVMS(L)64 6-1/37   | 6315 ZZ C3 |
| EVMS(L)64 6-0/37   | 6315 ZZ C3 |
| EVMS(L)64 7-2/37   | 6315 ZZ C3 |
| EVMS(L)64 7-1/37   | 6315 ZZ C3 |
| EVMS(L)64 7-0/45   | 6315 ZZ C3 |
| EVMS(L)64 8-2/45   | 6315 ZZ C3 |
| EVMS(L)64 8-1/45   | 6315 ZZ C3 |
| EVMS(L)64 8-0/45   | 6315 ZZ C3 |

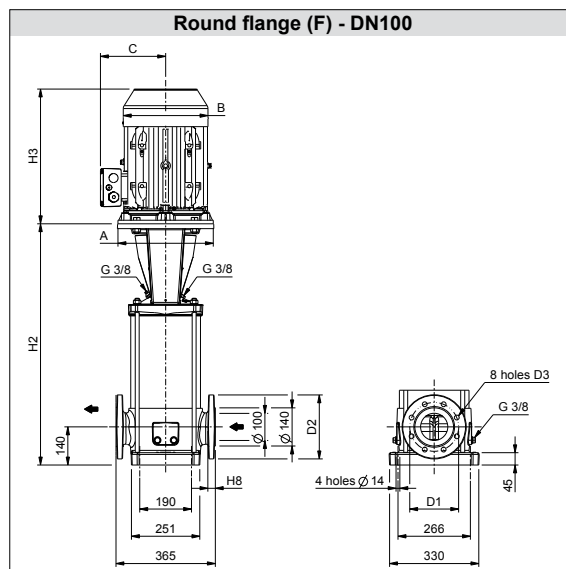
PERFORMANCE CURVE  
EVMSG64



Test standard: ISO 9906:2012 - Grade 3B

### TECHNICAL DATA EVMSG64

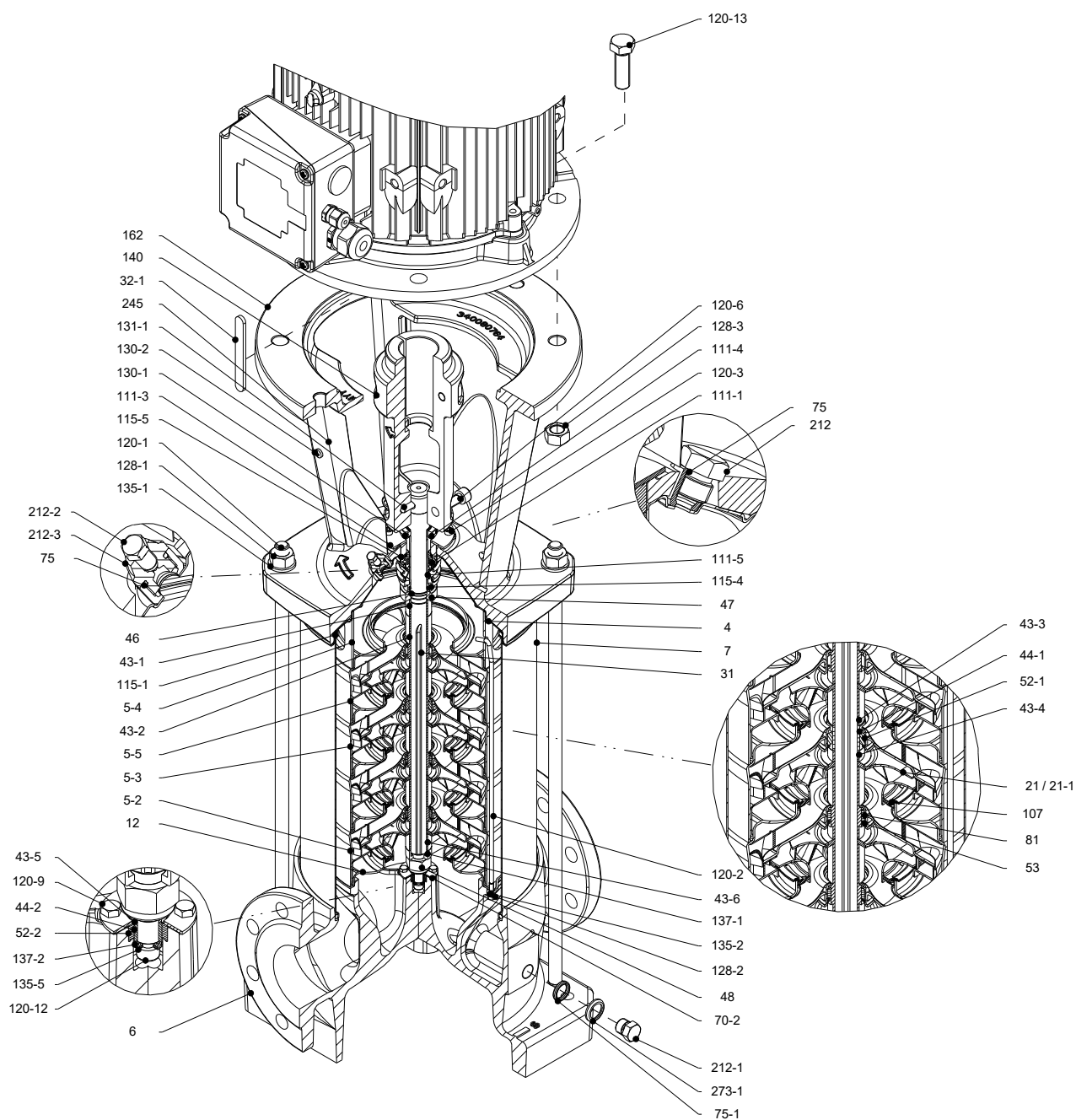
#### Dimensional sketch



#### Dimensions [mm] and Weights [Kg]

|                  |               | Motor |      |     |     |     | Round flange (F) |       |     |     |    |    |                |                           |  |  |
|------------------|---------------|-------|------|-----|-----|-----|------------------|-------|-----|-----|----|----|----------------|---------------------------|--|--|
| Pump Type        | Pmax<br>[MPa] | kW    | Size | A   | B   | C   | H2               | H2+H3 | D1  | D2  | D3 | H8 | Weight<br>Pump | Weight<br>Pump +<br>Motor |  |  |
|                  |               |       |      | Ø   |     |     |                  |       |     |     |    |    |                |                           |  |  |
| EVMSG64 1-1/4.0  | 1.6           | 4.0   | 112  | 160 | 193 | 138 | 546              | 910   | 180 | 235 | 18 | 24 | 64.8           | 93.3                      |  |  |
| EVMSG64 1-0/5.5  | 1.6           | 5.5   | 132  | 300 | 220 | 152 | 650              | 1049  | 180 | 235 | 18 | 24 | 74.6           | 113.6                     |  |  |
| EVMSG64 2-2/7.5  | 1.6           | 7.5   | 132  | 300 | 220 | 152 | 722              | 1141  | 180 | 235 | 18 | 24 | 79.7           | 125.7                     |  |  |
| EVMSG64 2-1/11   | 1.6           | 11    | 160  | 350 | 259 | 180 | 752              | 1191  | 180 | 235 | 18 | 24 | 87.0           | 149.5                     |  |  |
| EVMSG64 2-0/15   | 1.6           | 15    | 160  | 350 | 311 | 240 | 752              | 1247  | 180 | 235 | 18 | 24 | 87.0           | 188.0                     |  |  |
| EVMSG64 3-2/15   | 1.6           | 15    | 160  | 350 | 311 | 240 | 824              | 1319  | 180 | 235 | 18 | 24 | 92.1           | 193.1                     |  |  |
| EVMSG64 3-1/15   | 1.6           | 15    | 160  | 350 | 311 | 240 | 824              | 1319  | 180 | 235 | 18 | 24 | 92.1           | 193.1                     |  |  |
| EVMSG64 3-0/18.5 | 1.6           | 18.5  | 160  | 350 | 311 | 240 | 824              | 1319  | 180 | 235 | 18 | 24 | 92.1           | 201.1                     |  |  |
| EVMSG64 4-2/18.5 | 1.6           | 18.5  | 160  | 350 | 311 | 240 | 896              | 1391  | 180 | 235 | 18 | 24 | 97.2           | 206.2                     |  |  |
| EVMSG64 4-1/22   | 1.6           | 22    | 180  | 350 | 354 | 260 | 896              | 1448  | 180 | 235 | 18 | 24 | 97.4           | 232.4                     |  |  |
| EVMSG64 4-0/22   | 1.6           | 22    | 180  | 350 | 354 | 260 | 896              | 1448  | 180 | 235 | 18 | 24 | 97.4           | 232.4                     |  |  |
| EVMSG64 5-2/30   | 1.6           | 30    | 200  | 400 | 354 | 280 | 968              | 1520  | 180 | 235 | 18 | 24 | 107.9          | 275.9                     |  |  |
| EVMSG64 5-1/30   | 1.6           | 30    | 200  | 400 | 354 | 280 | 968              | 1520  | 180 | 235 | 18 | 24 | 107.9          | 275.9                     |  |  |
| EVMSG64 5-0/30   | 1.6           | 30    | 200  | 400 | 354 | 280 | 968              | 1520  | 180 | 235 | 18 | 24 | 107.9          | 275.9                     |  |  |
| EVMSG64 6-2/30   | 2.5           | 30    | 200  | 400 | 354 | 280 | 1040             | 1592  | 190 | 254 | 22 | 31 | 119.5          | 287.5                     |  |  |
| EVMSG64 6-1/37   | 2.5           | 37    | 200  | 400 | 382 | 295 | 1057             | 1734  | 190 | 254 | 22 | 31 | 131.6          | 391.6                     |  |  |
| EVMSG64 6-0/37   | 2.5           | 37    | 200  | 400 | 382 | 295 | 1057             | 1734  | 190 | 254 | 22 | 31 | 131.6          | 391.6                     |  |  |
| EVMSG64 7-2/37   | 2.5           | 37    | 200  | 400 | 382 | 295 | 1129             | 1806  | 190 | 254 | 22 | 31 | 136.9          | 396.9                     |  |  |
| EVMSG64 7-1/37   | 2.5           | 37    | 200  | 400 | 382 | 295 | 1129             | 1806  | 190 | 254 | 22 | 31 | 136.9          | 396.9                     |  |  |
| EVMSG64 7-0/45   | 2.5           | 45    | 225  | 450 | 449 | 335 | 1129             | 1895  | 190 | 254 | 22 | 31 | 142.5          | 516.5                     |  |  |
| EVMSG64 8-2/45   | 2.5           | 45    | 225  | 450 | 449 | 335 | 1201             | 1967  | 190 | 254 | 22 | 31 | 148.3          | 522.3                     |  |  |
| EVMSG64 8-1/45   | 2.5           | 45    | 225  | 450 | 449 | 335 | 1201             | 1967  | 190 | 254 | 22 | 31 | 147.8          | 521.8                     |  |  |
| EVMSG64 8-0/45   | 2.5           | 45    | 225  | 450 | 449 | 335 | 1201             | 1967  | 190 | 254 | 22 | 31 | 147.8          | 521.8                     |  |  |

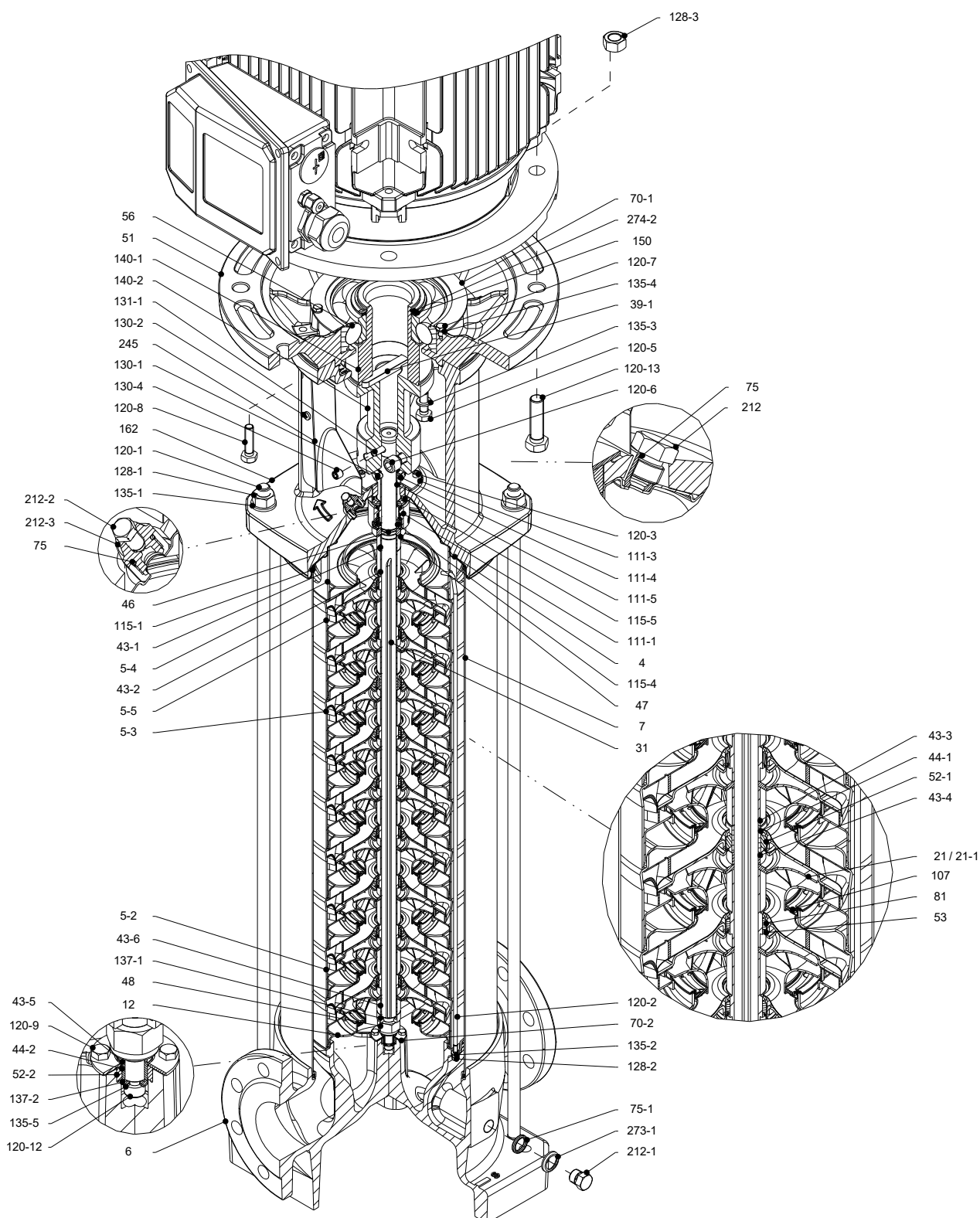
1.6 MPa=16 bar; 2.5 MPa=25 bar

SECTIONAL VIEW  
EVMSG64

Pump without ball bearing  
up to 30 kW



### SECTIONAL VIEW EVMSG64



Pump with single ball bearing  
above 37 kW

SECTIONAL TABLE  
EVMSG64

| N°    | PART NAME                              | MATERIAL<br>EVMSG                                               | DIMENSIONS   | STANDARD |
|-------|----------------------------------------|-----------------------------------------------------------------|--------------|----------|
| 4     | Casing cover                           | EN 1.4301 (AISI 304)                                            |              |          |
| 5-2   | Intermediate casing                    | EN 1.4301 (AISI 304)                                            |              |          |
| 5-3   | Intermediate casing with bearing       | EN 1.4301 (AISI 304)                                            |              |          |
| 5-4   | Discharge casing                       | EN 1.4301 (AISI 304)                                            |              |          |
| 5-5   | Top intermediate casing                | EN 1.4301 (AISI 304)                                            |              |          |
| 6     | Bottom casing                          | Cast Iron EN GJL-250 EN 1561<br>Cast Iron EN GJS 400-15 EN 1563 |              |          |
| 7     | Outer casing                           | EN 1.4301 (AISI 304)                                            |              |          |
| 12    | Suction cover                          | EN 1.4301 (AISI 304)                                            |              |          |
| 21    | Impeller                               | EN 1.4301 (AISI 304)                                            |              |          |
| 21-1  | Reduced impeller                       | EN 1.4301 (AISI 304)                                            |              |          |
| 31    | Shaft                                  | EN 1.4301 (AISI 304)                                            |              |          |
| 32-1  | Adjuster key                           | EN 1.4301 (AISI 304)                                            |              |          |
| 39-1  | Coupling key above 37 kW               | Carbon Steel                                                    |              |          |
| 43-1  | Shaft sleeve (mechanical seal)         | EN 1.4301 (AISI 304)                                            |              |          |
| 43-2  | Shaft sleeve (intermediate)            | EN 1.4301 (AISI 304)                                            |              |          |
| 43-3  | Shaft sleeve (bearing)                 | EN 1.4301 (AISI 304)                                            |              |          |
| 43-4  | Shaft sleeve (adjustment)              | EN 1.4301 (AISI 304)                                            |              |          |
| 43-5  | Shaft sleeve (last stage)              | EN 1.4301 (AISI 304)                                            |              |          |
| 43-6  | Shaft sleeve (adjustment)              | EN 1.4301 (AISI 304)                                            |              |          |
| 44-1  | Shaft sleeve bearing                   | Tungsten carbide                                                |              |          |
| 44-2  | Shaft sleeve (bearing)                 | Tungsten carbide                                                |              |          |
| 46    | Ring (mechanical seal)                 | EN 1.4404 (AISI 316L)                                           |              |          |
| 47    | Ring holder                            | EN 1.4301 (AISI 304)                                            |              |          |
| 48    | Impeller nut                           | EN 1.4301 (AISI 304) with inox insert                           |              |          |
| 51    | Motor adapter above 37 kW              | Cast Iron EN GJL250 EN 1561                                     |              |          |
| 52-1  | Sleeve bearing                         | Tungsten carbide                                                |              |          |
| 52-2  | Bearing sleeve (bottom casing)         | Tungsten carbide                                                |              |          |
| 53    | Bush holder                            | EN 1.4301 (AISI 304)                                            |              |          |
| 56    | Ball bearing above 37 kW               | see table page 135                                              |              |          |
| 70-1  | Ring for ball bearing above 37 kW      | EN 1.4301 (AISI 304)                                            |              |          |
| 70-2  | Ring for bearing sleeve                | EN 1.4301 (AISI 304)                                            |              |          |
| 75    | O-Ring (priming plug)                  | EPDM / FPM                                                      | Ø12.37x2.62  | OR 3050  |
| 75-1  | O-Ring (drainage plug)                 | EPDM / FPM                                                      |              |          |
| 81    | Bush                                   | PTFE                                                            |              |          |
| 107   | Liner ring                             | EN 1.4301 (AISI 304) + PPS                                      |              |          |
| 111-1 | Mechanical seal                        | see pages 6-7                                                   |              |          |
| 111-3 | Mechanical seal seat                   | EN 1.4301 (AISI 304)                                            |              |          |
| 111-4 | Seal holder                            | EN 1.4404 (AISI 316L)                                           |              |          |
| 111-5 | Mechanical seal cartridge sleeve       | EN 1.4301 (AISI 304)                                            |              |          |
| 115-1 | O-Ring (outer casing)                  | EPDM / FPM                                                      | Ø240.66x5.34 | OR 6945  |
| 115-4 | O-Ring (cartridge sleeve)              | EPDM / FPM                                                      | Ø23.39x3.53  | OR 4093  |
| 115-5 | O-Ring (seal flange)                   | EPDM / FPM                                                      | Ø44.04x3.53  | OR 4175  |
| 120-1 | Tie rod                                | EN 1.4057 (AISI 431)                                            |              |          |
| 120-2 | Tie rod (stage)                        | EN 1.4301 (AISI 304)                                            |              |          |
| 120-3 | Screw (seal flange)                    | A2-70                                                           | M5x12        | ISO 4762 |
| 120-5 | Screw (extension coupling) above 37 kW | Galvanized steel 8.8 strength class ISO 898/1                   | M10x30       | ISO 4017 |

### SECTIONAL TABLE EVMSG64

| N°     | PART NAME                   |                       | MATERIAL<br>EVMSG                             | DIMENSIONS | STANDARD |
|--------|-----------------------------|-----------------------|-----------------------------------------------|------------|----------|
| 120-6  | Screw (pump coupling)       | up to 4.0 kW          | Galvanized steel 8.8 strength class ISO 898/1 | M6x25      | ISO 4762 |
|        |                             | from 5.5 kW to 7.5 kW | Galvanized steel 8.8 strength class ISO 898/1 | M8x25      | ISO 4762 |
|        |                             | from 11 kW to 30 kW   | Galvanized steel 8.8 strength class ISO 898/1 | M10x30     | ISO 4762 |
|        |                             | above 37 kW           | Galvanized steel 8.8 strength class ISO 898/1 | M12x30     | ISO 4762 |
| 120-7  | Screw (ball bearing)        | above 37 kW           | Galvanized steel 8.8 strength class ISO 898/1 | M6x10      | ISO 4017 |
| 120-8  | Screw (motor adapter)       | above 37 kW           | Galvanized steel 8.8 strength class ISO 898/1 | M10x40     | ISO 4017 |
| 120-9  | Screw (bottom casing)       |                       | A2-70                                         | M5x8       | ISO 4017 |
| 120-12 | Screw (shaft)               |                       | A2-70                                         | M6x16      | ISO 4762 |
| 120-13 | Screw for motor             | MEC 112               | Galvanized steel 8.8 strength class ISO 898/1 | M8x20      | ISO 4017 |
|        |                             | MEC 132               | Galvanized steel 8.8 strength class ISO 898/1 | M12x45     | ISO 4017 |
|        |                             | MEC 160-180           | Galvanized steel 8.8 strength class ISO 898/1 | M16x50     | ISO 4017 |
|        |                             | MEC 200-225           | Galvanized steel 8.8 strength class ISO 898/1 | M16x60     | ISO 4014 |
| 128-1  | Nut (tie rod)               |                       | A2-70                                         | M16        | ISO 4032 |
| 128-2  | Nut (casing tie rod)        |                       | A2-70                                         | M5         | ISO 4032 |
| 128-3  | Nut (motor)                 | MEC 132               | Galvanized steel                              | M12        | ISO 4032 |
|        |                             | MEC 160-180-200-225   | Galvanized steel                              | M16        | ISO 4032 |
| 128-6  | Nut (aluminium coupling)    | MEC 112               | Galvanized steel                              | M6         | ISO 4032 |
| 130-1  | Set screw                   |                       | EN 1.4301 (AISI 304)                          | M6x8       | ISO 4026 |
| 130-2  | Screw for coupling guard    |                       | A2-70                                         | M5x6       | UNI 7687 |
| 130-4  | Set screw (pump coupling)   | above 37 kW           | Galvanized steel                              | M10x10     | ISO 4026 |
| 131-1  | Pin for shaft               | up to 4.0 kW          | Carbon Steel                                  | Ø8x42      | ISO 2338 |
|        |                             | above 5.5 kW          | Carbon Steel                                  | Ø8X50      | ISO 2338 |
| 135-1  | Washer (tie rod)            |                       | EN 1.4301 (AISI 304)                          | Ø16        | ISO 7089 |
| 135-2  | Washer (casing tie rod)     |                       | EN 1.4301 (AISI 304)                          | Ø5,1       | UNI 1751 |
| 135-3  | Washer (extension coupling) | above 37 kW           | Galvanized steel                              | Ø10,2      | UNI 1751 |
| 135-4  | Washer (ball bearing)       | above 37 kW           | Plated carbon steel                           | Ø6,1       | UNI 1751 |
| 135-5  | Washer (impeller nut)       |                       | EN 1.4301 (AISI 304)                          |            |          |
| 135-6  | Washer (aluminium coupling) | up to 4.0 kW          | Carbon Steel                                  |            |          |
| 137-1  | Impeller spacer             |                       | EN 1.4301 (AISI 304)                          |            |          |
| 137-2  | Shaft spacer                |                       | EN 1.4301 (AISI 304)                          |            |          |
| 140    | Coupling                    | up to 4.0 kW          | Die cast Aluminium EN AB-AISI11 Cu2 (Fe)      |            |          |
|        |                             | from 5.5 kW to 30 kW  | Cast Iron EN GJL250 EN 1561                   |            |          |
| 140-1  | Extension coupling          | above 37 kW           | Carbon Steel                                  |            |          |
| 140-2  | Coupling                    | above 37 kW           | Carbon Steel                                  |            |          |
| 150    | Spacer (snap ring)          | above 37 kW           | Carbon Steel                                  |            |          |
| 162    | Motor bracket               | up to 30 kW           | Cast Iron EN GJS 400-15 EN 1563               |            |          |
| 212    | Priming plug                |                       | EN 1.4301 (AISI 304)                          |            |          |
| 212-1  | Drainage plug               |                       | EN 1.4301 (AISI 304)                          |            |          |
| 212-2  | Venting plug                |                       | EN 1.4401 (AISI 316)                          |            |          |
| 212-3  | Priming plug                |                       | EN 1.4301 (AISI 304)                          |            |          |
| 245    | Coupling guard              |                       | EN 1.4301 (AISI 304)                          |            |          |
| 273-1  | Washer (drainage plug)      |                       | EN 1.4301 (AISI 304)                          |            |          |
| 274-2  | C-type snap ring (coupling) | above 37 kW           | Carbon Steel TC80                             | Ø75        | UNI 7435 |

# QUANTITY FOR MODEL EVMSG64

| Pump Type        | N° |     |     |     |     |   |   |    |    |      |    |      |      |      |      |      |      |      |      |      |      |    |    |    |    |      |      |    |
|------------------|----|-----|-----|-----|-----|---|---|----|----|------|----|------|------|------|------|------|------|------|------|------|------|----|----|----|----|------|------|----|
|                  | 4  | 5-2 | 5-3 | 5-4 | 5-5 | 6 | 7 | 12 | 21 | 21-1 | 31 | 32-1 | 39-1 | 43-1 | 43-2 | 43-3 | 43-4 | 43-5 | 43-6 | 44-1 | 44-2 | 46 | 47 | 48 | 51 | 52-1 | 52-2 | 53 |
| EVMSG64 1-1/4,0  | 1  | /   | /   | 1   | 1   | 1 | 1 | 1  | /  | 1    | 1  | 1    | /    | 1    | 1    | /    | /    | 1    | 1    | /    | 1    | 1  | 1  | 1  | /  | /    | 1    | 1  |
| EVMSG64 1-0/5,5  | 1  | /   | /   | 1   | 1   | 1 | 1 | 1  | 1  | /    | 1  | 1    | /    | 1    | 1    | /    | /    | 1    | 1    | /    | 1    | 1  | 1  | 1  | /  | /    | 1    | 1  |
| EVMSG64 2-2/7,5  | 1  | 1   | /   | 1   | 1   | 1 | 1 | 1  | /  | 2    | 1  | 1    | /    | 1    | 2    | /    | /    | 1    | 1    | /    | 1    | 1  | 1  | 1  | /  | /    | 1    | 2  |
| EVMSG64 2-1/11   | 1  | 1   | /   | 1   | 1   | 1 | 1 | 1  | 1  | 1    | 1  | 1    | /    | 1    | 2    | /    | /    | 1    | 1    | /    | 1    | 1  | 1  | 1  | /  | /    | 1    | 2  |
| EVMSG64 2-0/15   | 1  | 1   | /   | 1   | 1   | 1 | 1 | 1  | 2  | /    | 1  | 1    | /    | 1    | 2    | /    | /    | 1    | 1    | /    | 1    | 1  | 1  | 1  | /  | /    | 1    | 2  |
| EVMSG64 3-2/15   | 1  | 1   | 1   | 1   | 1   | 1 | 1 | 1  | 1  | 2    | 1  | 1    | /    | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | /    | 1    | 2  |
| EVMSG64 3-1/15   | 1  | 1   | 1   | 1   | 1   | 1 | 1 | 1  | 2  | 1    | 1  | 1    | /    | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | /    | 1    | 2  |
| EVMSG64 3-0/18,5 | 1  | 1   | 1   | 1   | 1   | 1 | 1 | 1  | 3  | /    | 1  | 1    | /    | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | /    | 1    | 2  |
| EVMSG64 4-2/18,5 | 1  | 2   | 1   | 1   | 1   | 1 | 1 | 1  | 2  | 2    | 1  | 1    | /    | 1    | 3    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | /    | 1    | 4  |
| EVMSG64 4-1/22   | 1  | 2   | 1   | 1   | 1   | 1 | 1 | 1  | 3  | 1    | 1  | 1    | /    | 1    | 3    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | /    | 1    | 4  |
| EVMSG64 4-0/22   | 1  | 2   | 1   | 1   | 1   | 1 | 1 | 1  | 4  | /    | 1  | 1    | /    | 1    | 3    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | /    | 1    | 4  |
| EVMSG64 5-2/30   | 1  | 3   | 1   | 1   | 1   | 1 | 1 | 1  | 3  | 2    | 1  | 1    | /    | 1    | 4    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | /    | 1    | 5  |
| EVMSG64 5-1/30   | 1  | 3   | 1   | 1   | 1   | 1 | 1 | 1  | 4  | 1    | 1  | 1    | /    | 1    | 4    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | /    | 1    | 5  |
| EVMSG64 5-0/30   | 1  | 3   | 1   | 1   | 1   | 1 | 1 | 1  | 5  | /    | 1  | 1    | /    | 1    | 4    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | /    | 1    | 5  |
| EVMSG64 6-2/30   | 1  | 4   | 1   | 1   | 1   | 1 | 1 | 1  | 4  | 2    | 1  | 1    | /    | 1    | 5    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | /    | 1    | 6  |
| EVMSG64 6-1/37   | 1  | 4   | 1   | 1   | 1   | 1 | 1 | 1  | 5  | 1    | 1  | 1    | /    | 1    | 5    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | /    | 1    | 6  |
| EVMSG64 6-0/37   | 1  | 4   | 1   | 1   | 1   | 1 | 1 | 1  | 6  | /    | 1  | 1    | /    | 1    | 5    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | /    | 1    | 6  |
| EVMSG64 7-2/37   | 1  | 5   | 1   | 1   | 1   | 1 | 1 | 1  | 5  | 2    | 1  | 1    | /    | 1    | 6    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | /    | 1    | 7  |
| EVMSG64 7-1/37   | 1  | 5   | 1   | 1   | 1   | 1 | 1 | 1  | 6  | 1    | 1  | 1    | /    | 1    | 6    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | /    | 1    | 7  |
| EVMSG64 7-0/45   | 1  | 5   | 1   | 1   | 1   | 1 | 1 | 1  | 7  | /    | 1  | 1    | /    | 1    | 6    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | /    | 1    | 7  |
| EVMSG64 8-2/45   | 1  | 6   | 1   | 1   | 1   | 1 | 1 | 1  | 6  | 2    | 1  | 1    | /    | 1    | 7    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | /    | 1    | 8  |
| EVMSG64 8-1/45   | 1  | 6   | 1   | 1   | 1   | 1 | 1 | 1  | 7  | 1    | 1  | 1    | /    | 1    | 7    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | /    | 1    | 8  |
| EVMSG64 8-0/45   | 1  | 6   | 1   | 1   | 1   | 1 | 1 | 1  | 8  | 0    | 1  | 1    | /    | 1    | 7    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | /  | /    | 1    | 8  |

□ shaft in EN 1.4462 (AISI 329A)

| Pump Type        | N° |      |      |    |      |    |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |       |       |       |       |
|------------------|----|------|------|----|------|----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|
|                  | 56 | 70-1 | 70-2 | 75 | 75-1 | 81 | 107 | 111-1 | 111-3 | 111-4 | 111-5 | 115-1 | 115-4 | 115-5 | 120-1 | 120-2 | 120-3 | 120-5 | 120-6 | 120-7 | 120-8 | 120-9 | 120-12 | 120-13 | 128-1 | 128-2 | 128-3 | 128-6 |
| EVMSG64 1-1/4,0  | /  | /    | 1    | 2  | 4    | 1  | 1   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | /     | 4     |
| EVMSG64 1-0/5,5  | /  | /    | 1    | 2  | 4    | 1  | 1   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | /     |
| EVMSG64 2-2/7,5  | /  | /    | 1    | 2  | 4    | 2  | 2   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | /     |
| EVMSG64 2-1/11   | /  | /    | 1    | 2  | 4    | 2  | 2   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | /     |
| EVMSG64 2-0/15   | /  | /    | 1    | 2  | 4    | 2  | 2   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | /     |
| EVMSG64 3-2/15   | /  | /    | 1    | 2  | 4    | 2  | 3   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | /     |
| EVMSG64 3-1/15   | /  | /    | 1    | 2  | 4    | 2  | 3   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | /     |
| EVMSG64 3-0/18,5 | /  | /    | 1    | 2  | 4    | 2  | 3   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | /     |
| EVMSG64 4-2/18,5 | /  | /    | 1    | 2  | 4    | 3  | 4   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | /     |
| EVMSG64 4-1/22   | /  | /    | 1    | 2  | 4    | 3  | 4   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | /     |
| EVMSG64 4-0/22   | /  | /    | 1    | 2  | 4    | 3  | 4   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | /     |
| EVMSG64 5-2/30   | /  | /    | 1    | 2  | 4    | 4  | 5   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | /     |
| EVMSG64 5-1/30   | /  | /    | 1    | 2  | 4    | 4  | 5   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | /     |
| EVMSG64 5-0/30   | /  | /    | 1    | 2  | 4    | 4  | 5   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | /     |
| EVMSG64 6-2/30   | /  | /    | 1    | 2  | 4    | 5  | 6   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | /     |
| EVMSG64 6-1/37   | 1  | 1    | 1    | 2  | 4    | 5  | 6   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | /     |
| EVMSG64 6-0/37   | 1  | 1    | 1    | 2  | 4    | 5  | 6   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | /     |
| EVMSG64 7-2/37   | 1  | 1    | 1    | 2  | 4    | 6  | 7   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | /     |
| EVMSG64 7-1/37   | 1  | 1    | 1    | 2  | 4    | 6  | 7   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | /     |
| EVMSG64 7-0/45   | 1  | 1    | 1    | 2  | 4    | 6  | 7   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 8      | 4     | 4     | 8     | /     |
| EVMSG64 8-2/45   | 1  | 1    | 1    | 2  | 4    | 7  | 8   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 8      | 4     | 4     | 8     | /     |
| EVMSG64 8-1/45   | 1  | 1    | 1    | 2  | 4    | 7  | 8   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 8      | 4     | 4     | 8     | /     |
| EVMSG64 8-0/45   | 1  | 1    | 1    | 2  | 4    | 7  | 8   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 8      | 4     | 4     | 8     | /     |

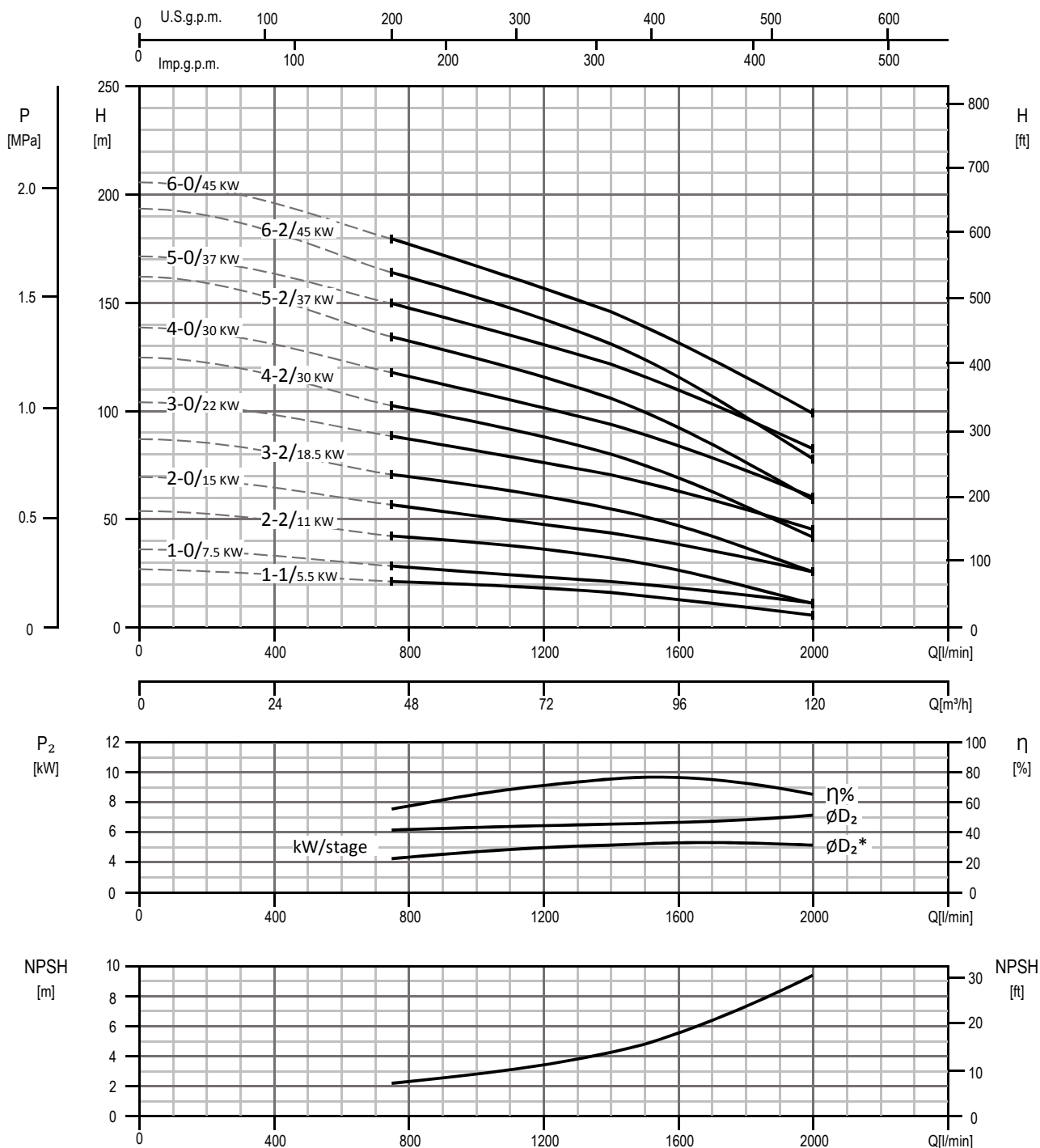
### QUANTITY FOR MODEL EVMSG64

| Pump Type        | N°    |       |       |       |       |       |       |       |       |       |       |       |     |       |       |     |     |     |       |       |       |     |       |       |  |  |  |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-------|-------|-----|-----|-----|-------|-------|-------|-----|-------|-------|--|--|--|
|                  | 130-1 | 130-2 | 130-4 | 131-1 | 135-1 | 135-2 | 135-3 | 135-4 | 135-5 | 135-6 | 137-1 | 137-2 | 140 | 140-1 | 140-2 | 150 | 162 | 212 | 212-1 | 212-2 | 212-3 | 245 | 273-1 | 274-2 |  |  |  |
| EVMSG64 1-1/4,0  | 3     | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | 4     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |
| EVMSG64 1-0/5,5  | 3     | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | /     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |
| EVMSG64 2-2/7,5  | 3     | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | /     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |
| EVMSG64 2-1/11   | 3     | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | /     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |
| EVMSG64 2-0/15   | 3     | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | /     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |
| EVMSG64 3-2/15   | 3     | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | /     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |
| EVMSG64 3-1/15   | 3     | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | /     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |
| EVMSG64 3-0/18,5 | 3     | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | /     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |
| EVMSG64 4-2/18,5 | 3     | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | /     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |
| EVMSG64 4-1/22   | 3     | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | /     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |
| EVMSG64 4-0/22   | 3     | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | /     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |
| EVMSG64 5-2/30   | 3     | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | /     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |
| EVMSG64 5-1/30   | 3     | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | /     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |
| EVMSG64 5-0/30   | 3     | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | /     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |
| EVMSG64 6-2/30   | 3     | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | /     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |  |  |
| EVMSG64 6-1/37   | 3     | 4     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | /     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     |  |  |  |
| EVMSG64 6-0/37   | 3     | 4     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | /     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     |  |  |  |
| EVMSG64 7-2/37   | 3     | 4     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | /     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     |  |  |  |
| EVMSG64 7-1/37   | 3     | 4     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | /     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     |  |  |  |
| EVMSG64 7-0/45   | 3     | 4     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | /     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     |  |  |  |
| EVMSG64 8-2/45   | 3     | 4     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | /     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     |  |  |  |
| EVMSG64 8-1/45   | 3     | 4     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | /     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     |  |  |  |
| EVMSG64 8-0/45   | 3     | 4     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | /     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     |  |  |  |

### BEARINGS EVMSG64

| Pump Type        | N° 56      |
|------------------|------------|
| EVMSG64 1-1/4,0  | /          |
| EVMSG64 1-0/5,5  | /          |
| EVMSG64 2-2/7,5  | /          |
| EVMSG64 2-1/11   | /          |
| EVMSG64 2-0/15   | /          |
| EVMSG64 3-2/15   | /          |
| EVMSG64 3-1/15   | /          |
| EVMSG64 3-0/18,5 | /          |
| EVMSG64 4-2/18,5 | /          |
| EVMSG64 4-1/22   | /          |
| EVMSG64 4-0/22   | /          |
| EVMSG64 5-2/30   | /          |
| EVMSG64 5-1/30   | /          |
| EVMSG64 5-0/30   | /          |
| EVMSG64 6-2/30   | /          |
| EVMSG64 6-1/37   | 6315 ZZ C3 |
| EVMSG64 6-0/37   | 6315 ZZ C3 |
| EVMSG64 7-2/37   | 6315 ZZ C3 |
| EVMSG64 7-1/37   | 6315 ZZ C3 |
| EVMSG64 7-0/45   | 6315 ZZ C3 |
| EVMSG64 8-2/45   | 6315 ZZ C3 |
| EVMSG64 8-1/45   | 6315 ZZ C3 |
| EVMSG64 8-0/45   | 6315 ZZ C3 |

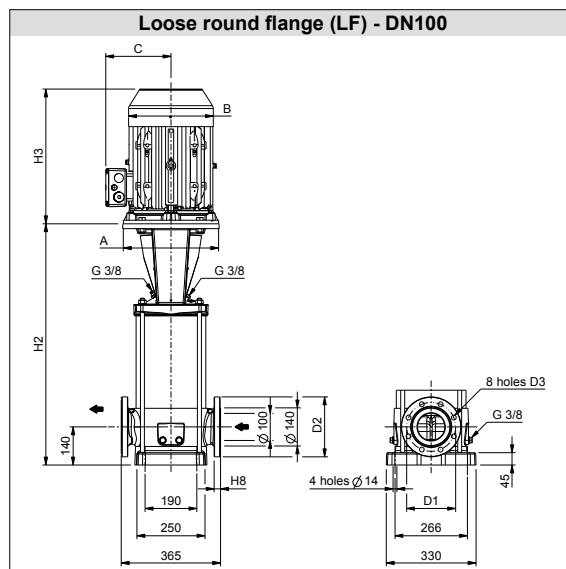
PERFORMANCE CURVE  
EVMS(L)90



Test standard: ISO 9906:2012 - Grade 3B

### TECHNICAL DATA EVMS(L)90

#### Dimensional sketch

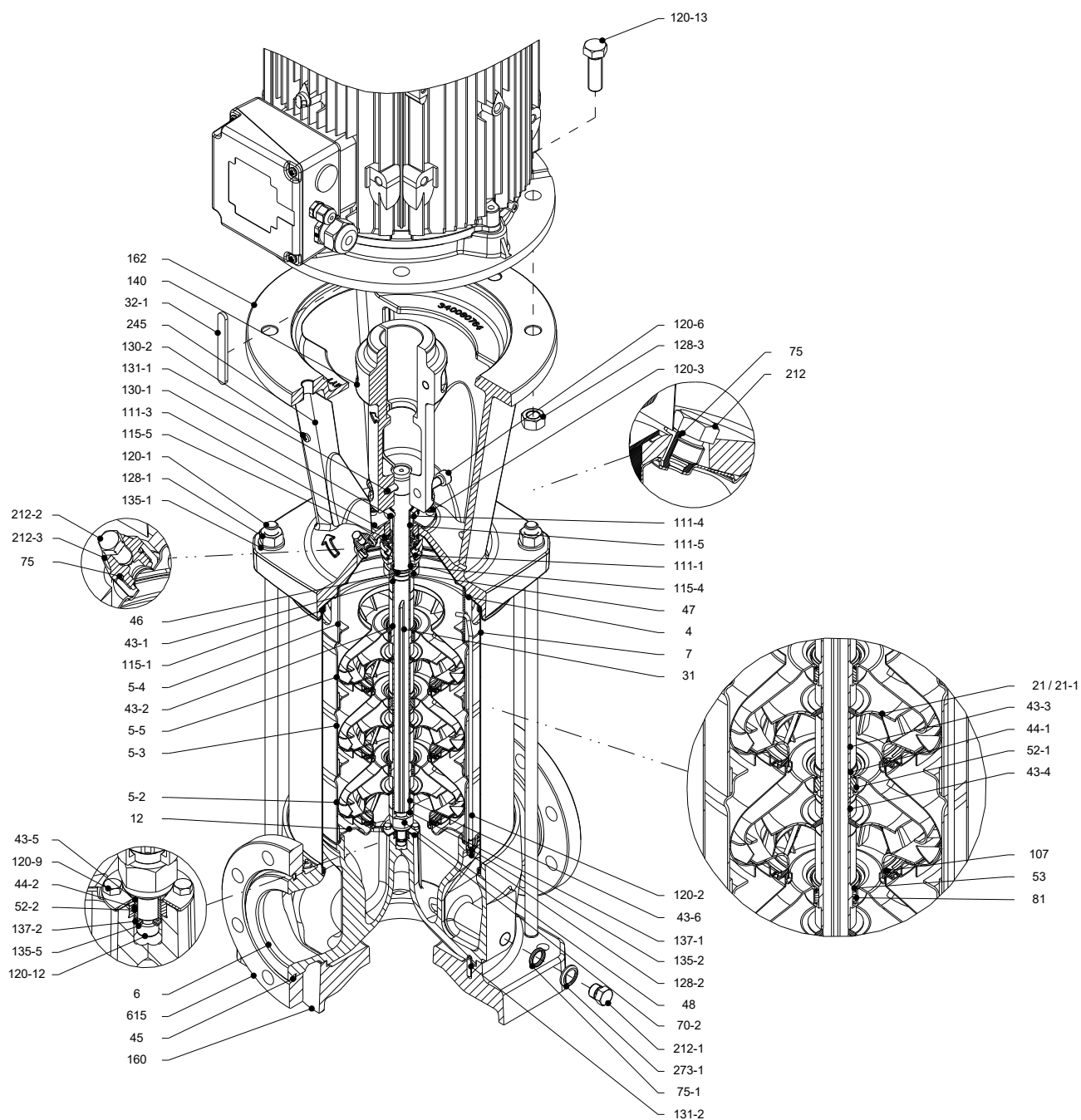


#### Dimensions [mm] and Weights [Kg]

| Pump Type          | Pmax<br>[MPa] | Motor |      |     |     |     | Loose round flange (LF) |       |     |     |    |    |       |       |  |  | Weight<br>Pump | Weight<br>Pump +<br>Motor |
|--------------------|---------------|-------|------|-----|-----|-----|-------------------------|-------|-----|-----|----|----|-------|-------|--|--|----------------|---------------------------|
|                    |               | kW    | Size | A   | B   | C   | H2                      | H2+H3 | D1  | D2  | D3 | H8 |       |       |  |  |                |                           |
|                    |               |       |      | Ø   |     |     |                         |       |     |     |    |    |       |       |  |  |                |                           |
| EVMS(L)90 1-1/5.5  | 1.6           | 5.5   | 132  | 300 | 220 | 152 | 671                     | 1070  | 180 | 220 | 18 | 24 | 77.9  | 116.9 |  |  |                |                           |
| EVMS(L)90 1-0/7.5  | 1.6           | 7.5   | 132  | 300 | 220 | 152 | 671                     | 1090  | 180 | 220 | 18 | 24 | 77.9  | 123.9 |  |  |                |                           |
| EVMS(L)90 2-2/11   | 1.6           | 11    | 160  | 350 | 259 | 180 | 794                     | 1233  | 180 | 220 | 18 | 24 | 90.2  | 152.7 |  |  |                |                           |
| EVMS(L)90 2-0/15   | 1.6           | 15    | 160  | 350 | 311 | 240 | 794                     | 1289  | 180 | 220 | 18 | 24 | 90.2  | 191.2 |  |  |                |                           |
| EVMS(L)90 3-2/18.5 | 1.6           | 18.5  | 160  | 350 | 311 | 240 | 887                     | 1382  | 180 | 220 | 18 | 24 | 95.8  | 204.8 |  |  |                |                           |
| EVMS(L)90 3-0/22   | 1.6           | 22    | 180  | 350 | 354 | 260 | 887                     | 1439  | 180 | 220 | 18 | 24 | 95.6  | 230.6 |  |  |                |                           |
| EVMS(L)90 4-2/30   | 1.6           | 30    | 200  | 400 | 354 | 280 | 980                     | 1532  | 180 | 220 | 18 | 24 | 106.1 | 274.1 |  |  |                |                           |
| EVMS(L)90 4-0/30   | 1.6           | 30    | 200  | 400 | 354 | 280 | 980                     | 1532  | 180 | 220 | 18 | 24 | 106.2 | 274.2 |  |  |                |                           |
| EVMS(L)90 5-2/37   | 2.5           | 37    | 200  | 400 | 382 | 295 | 1090                    | 1767  | 190 | 235 | 22 | 30 | 129.8 | 389.8 |  |  |                |                           |
| EVMS(L)90 5-0/37   | 2.5           | 37    | 200  | 400 | 382 | 295 | 1090                    | 1767  | 190 | 235 | 22 | 30 | 128.6 | 388.6 |  |  |                |                           |
| EVMS(L)90 6-2/45   | 2.5           | 45    | 225  | 450 | 449 | 335 | 1183                    | 1949  | 190 | 235 | 22 | 30 | 139.7 | 513.7 |  |  |                |                           |
| EVMS(L)90 6-0/45   | 2.5           | 45    | 225  | 450 | 449 | 335 | 1183                    | 1949  | 190 | 235 | 22 | 30 | 139.7 | 513.7 |  |  |                |                           |

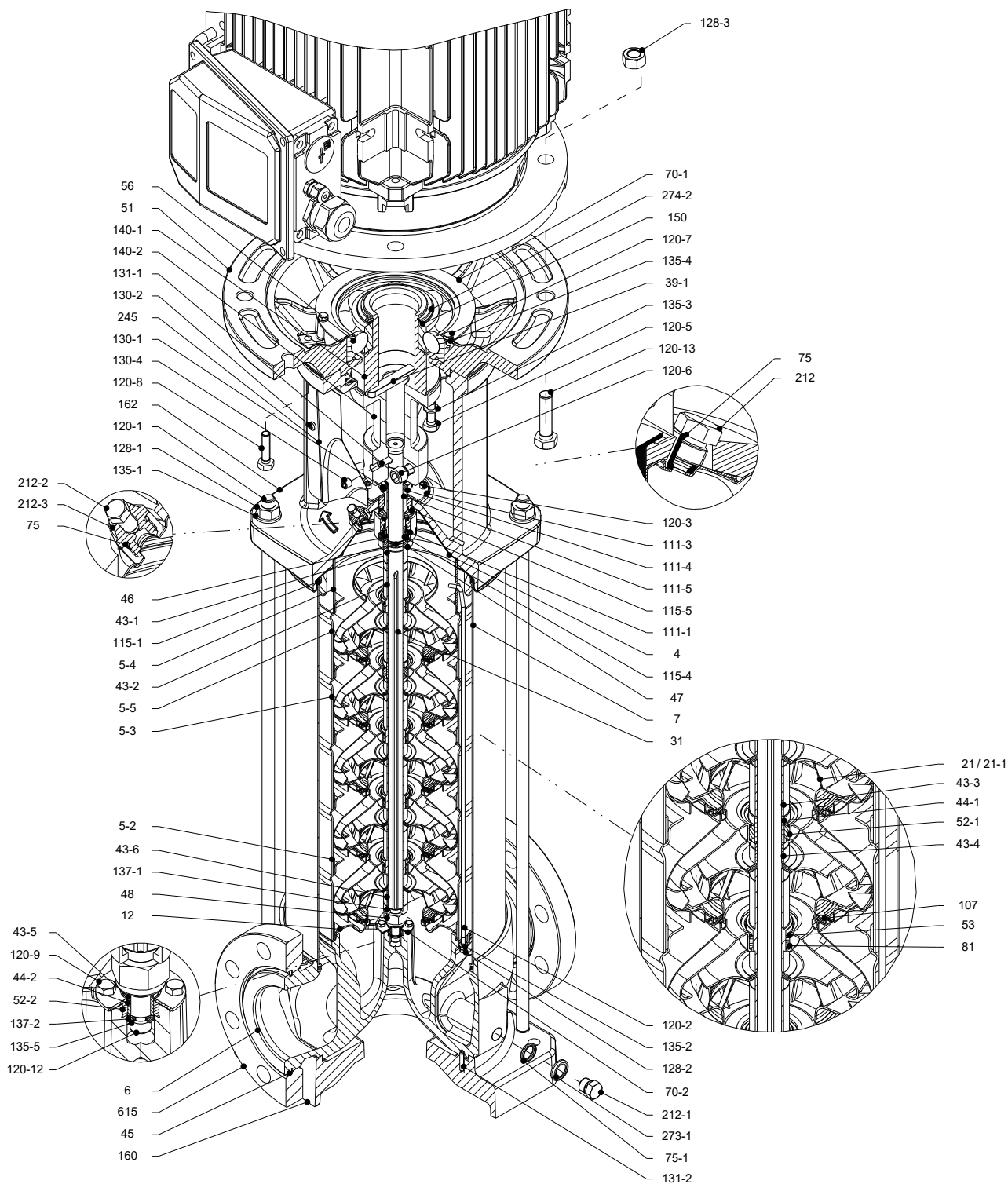
1.6 MPa=16 bar; 2.5 MPa=25 bar



SECTIONAL VIEW  
EVMS(L)90

Pump without ball bearing  
up to 30 kW

### SECTIONAL VIEW EVMS(L)90



Pump with single ball bearing  
above 37 kW

SECTIONAL TABLE  
EVMS(L)90

| N°    | PART NAME                        | MATERIAL                                      |                                          | DIMENSIONS   | STANDARD |
|-------|----------------------------------|-----------------------------------------------|------------------------------------------|--------------|----------|
|       |                                  | EVMS                                          | EVMSL                                    |              |          |
| 4     | Casing cover                     | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 5-2   | Intermediate casing              | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 5-3   | Intermediate casing with bearing | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 5-4   | Discharge casing                 | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 5-5   | Top intermediate casing          | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 6     | Bottom casing                    | EN 1.4308 (ASTM CF8)                          | EN 1.4408 (ASTM CF8M)                    |              |          |
| 7     | Outer casing                     | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 12    | Suction cover                    | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 21    | Impeller                         | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 21-1  | Reduced impeller                 | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 31    | Shaft                            | EN 1.4301 (AISI 304)                          | EN 1.4462 (AISI 329A)                    |              |          |
| 32-1  | Adjuster key                     | EN 1.4301 (AISI 304)                          |                                          |              |          |
| 39-1  | Coupling key                     | Carbon Steel                                  |                                          |              |          |
| 43-1  | Shaft sleeve (mechanical seal)   | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 43-2  | Shaft sleeve (intermediate)      | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 43-3  | Shaft sleeve (bearing)           | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 43-4  | Shaft sleeve (adjustment)        | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 43-5  | Shaft sleeve (last stage)        | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 43-6  | Shaft sleeve (adjustment)        | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 44-1  | Shaft sleeve bearing             | Tungsten carbide                              |                                          |              |          |
| 44-2  | Shaft sleeve (bearing)           | Tungsten carbide                              |                                          |              |          |
| 45    | Flange holder                    | EN 1.4301 (AISI 304)                          |                                          |              |          |
| 46    | Ring (mechanical seal)           | EN 1.4404 (AISI 316L)                         |                                          |              |          |
| 47    | Ring holder                      | EN 1.4404 (AISI 316L)                         |                                          |              |          |
| 48    | Impeller nut                     | EN 1.4301 (AISI 304)<br>with inox insert      | EN 1.4401 (AISI 316)<br>with inox insert |              |          |
| 51    | Motor adapter                    | Cast Iron EN GJL250 EN 1561                   |                                          |              |          |
| 52-1  | Sleeve bearing                   | Tungsten carbide                              |                                          |              |          |
| 52-2  | Bearing sleeve (bottom casing)   | Tungsten carbide                              |                                          |              |          |
| 53    | Bush holder                      | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 56    | Ball bearing                     | see table page 143                            |                                          |              |          |
| 70-1  | Ring for ball bearing            | EN 1.4301 (AISI 304)                          |                                          |              |          |
| 70-2  | Ring for bearing sleeve          | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 75    | O-Ring (priming plug)            | EPDM / FPM                                    |                                          | Ø12.37x2.62  | OR 3050  |
| 75-1  | O-Ring (drainage plug)           | EPDM / FPM                                    |                                          |              |          |
| 81    | Bush                             | PTFE                                          |                                          |              |          |
| 107   | Liner ring                       | EN 1.4301 (AISI 304) + PPS                    | EN 1.4404 (AISI 316L) + PPS              |              |          |
| 111-1 | Mechanical seal                  | see pages 6-7                                 |                                          |              |          |
| 111-3 | Mechanical seal seat             | EN 1.4301 (AISI 304)                          | EN 1.4401 (AISI 316)                     |              |          |
| 111-4 | Seal holder                      | EN 1.4404 (AISI 316L)                         |                                          |              |          |
| 111-5 | Mechanical seal cartridge sleeve | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L)                    |              |          |
| 115-1 | O-Ring (outer casing)            | EPDM / FPM                                    |                                          | Ø240.66x5.34 | OR 6945  |
| 115-4 | O-Ring (cartridge sleeve)        | EPDM / FPM                                    |                                          | Ø23.39x3.53  | OR 4093  |
| 115-5 | O-Ring (seal flange)             | EPDM / FPM                                    |                                          | Ø44.04x3.53  | OR 4175  |
| 120-1 | Tie rod                          | EN 1.4057 (AISI 431)                          |                                          |              |          |
| 120-2 | Tie rod (stage)                  | EN 1.4301 (AISI 304)                          | EN 1.4401 (AISI 316)                     |              |          |
| 120-3 | Screw (seal flange)              | A2-70                                         |                                          | M5x12        | ISO 4762 |
| 120-5 | Screw (extension coupling)       | Galvanized steel 8.8 strength class ISO 898/1 |                                          | M10x30       | ISO 4017 |

### SECTIONAL TABLE EVMS(L)90

| N°     | PART NAME                   |                     | MATERIAL                                      |                       | DIMENSIONS | STANDARD |
|--------|-----------------------------|---------------------|-----------------------------------------------|-----------------------|------------|----------|
|        |                             |                     | EVMS                                          | EVMSL                 |            |          |
| 120-6  | Screw (pump coupling)       | up to 7.5 kW        | Galvanized steel 8.8 strength class ISO 898/1 |                       | M8x25      | ISO 4762 |
|        |                             | from 11 kW to 30 kW | Galvanized steel 8.8 strength class ISO 898/1 |                       | M10x30     | ISO 4762 |
|        |                             | above 37 kW         | Galvanized steel 8.8 strength class ISO 898/1 |                       | M12x30     | ISO 4762 |
| 120-7  | Screw (ball bearing)        | above 37 kW         | Galvanized steel 8.8 strength class ISO 898/1 |                       | M6x10      | ISO 4017 |
| 120-8  | Screw (motor adapter)       | above 37 kW         | Galvanized steel 8.8 strength class ISO 898/1 |                       | M10x40     | ISO 4017 |
| 120-9  | Screw (bottom casing)       |                     | A2-70                                         |                       | M5x8       | ISO 4017 |
| 120-12 | Screw (shaft)               |                     | A2-70                                         |                       | M6x16      | ISO 4762 |
| 120-13 | Screw for motor             | MEC 132             | Galvanized steel 8.8 strength class ISO 898/1 |                       | M12x45     | ISO 4017 |
|        |                             | MEC 160-180         | Galvanized steel 8.8 strength class ISO 898/1 |                       | M16x50     | ISO 4017 |
|        |                             | MEC 200-225         | Galvanized steel 8.8 strength class ISO 898/1 |                       | M16x60     | ISO 4014 |
| 128-1  | Nut (tie rod)               |                     | A2-70                                         |                       | M16        | ISO 4032 |
| 128-2  | Nut (casing tie rod)        |                     | A2-70                                         |                       | M5         | ISO 4032 |
| 128-3  | Nut (motor)                 | MEC 132             | Galvanized steel                              |                       | M12        | ISO 4032 |
|        |                             | MEC 160-180-200-225 | Galvanized steel                              |                       | M16        | ISO 4032 |
| 130-1  | Set screw                   |                     | EN 1.4301 (AISI 304)                          |                       | M6x8       | ISO 4026 |
| 130-2  | Screw for coupling guard    |                     | A2-70                                         |                       | M5x6       | UNI 7687 |
| 130-4  | Set screw (pump coupling)   | above 37 kW         | Galvanized steel                              |                       | M10x10     | ISO 4026 |
| 131-1  | Pin for shaft               |                     | Carbon Steel                                  |                       | Ø8x50      | ISO 2338 |
| 131-2  | Elastic pin                 |                     | EN 1.4301 (AISI 304)                          |                       | Ø6x26      | ISO 8752 |
| 135-1  | Washer (tie rod)            |                     | EN 1.4301 (AISI 304)                          |                       | Ø16        | ISO 7089 |
| 135-2  | Washer (casing tie rod)     |                     | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316)  | Ø5,1       | UNI 1751 |
| 135-3  | Washer (extension coupling) | above 37 kW         | Galvanized steel                              |                       | Ø10,2      | UNI 1751 |
| 135-4  | Washer (ball bearing)       | above 37 kW         | Plated carbon steel                           |                       | Ø6,1       | UNI 1751 |
| 135-5  | Washer (impeller nut)       |                     | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L) |            |          |
| 137-1  | Impeller spacer             |                     | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L) |            |          |
| 137-2  | Shaft spacer                |                     | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L) |            |          |
| 140    | Coupling                    | up to 30 kW         | Cast Iron EN GJL250 EN 1561                   |                       |            |          |
| 140-1  | Extension coupling          | above 37 kW         | Carbon Steel                                  |                       |            |          |
| 140-2  | Coupling                    | above 37 kW         | Carbon Steel                                  |                       |            |          |
| 150    | Spacer (snap ring)          | above 37 kW         | Carbon Steel                                  |                       |            |          |
| 160    | Base                        |                     | Cast Iron EN GJL200 EN 1561                   |                       |            |          |
| 162    | Motor bracket               | up to 30 kW         | Cast Iron EN GJS 400-15 EN 1563               |                       |            |          |
| 212    | Priming plug                |                     | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L) |            |          |
| 212-1  | Drainage plug               |                     | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L) |            |          |
| 212-2  | Venting plug                |                     | EN 1.4401 (AISI 316)                          |                       |            |          |
| 212-3  | Priming plug                |                     | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L) |            |          |
| 245    | Coupling guard              |                     | EN 1.4301 (AISI 304)                          |                       |            |          |
| 273-1  | Washer (drainage plug)      |                     | EN 1.4301 (AISI 304)                          | EN 1.4404 (AISI 316L) |            |          |
| 274-2  | C-type snap ring (coupling) | above 37 kW         | Carbon Steel TC80                             |                       | Ø75        | UNI 7435 |
| 615    | Loose flange                |                     | Cast Iron EN GJS 500-7 EN 1563                |                       |            |          |

# QUANTITY FOR MODEL EVMS(L)90

| Pump Type          | N° |     |     |     |     |   |   |    |    |      |    |      |      |      |      |      |      |      |      |      |      |    |    |    |    |    |      |      |
|--------------------|----|-----|-----|-----|-----|---|---|----|----|------|----|------|------|------|------|------|------|------|------|------|------|----|----|----|----|----|------|------|
|                    | 4  | 5-2 | 5-3 | 5-4 | 5-5 | 6 | 7 | 12 | 21 | 21-1 | 31 | 32-1 | 39-1 | 43-1 | 43-2 | 43-3 | 43-4 | 43-5 | 43-6 | 44-1 | 44-2 | 45 | 46 | 47 | 48 | 51 | 52-1 | 52-2 |
| EVMS(L)90 1-1/5.5  | 1  | /   | /   | 1   | 1   | 1 | 1 | 1  | /  | 1    | 1  | 1    | /    | 1    | 1    | /    | /    | 1    | 1    | /    | 1    | 4  | 1  | 1  | 1  | /  | /    | 1    |
| EVMS(L)90 1-0/7.5  | 1  | /   | /   | 1   | 1   | 1 | 1 | 1  | 1  | /    | 1  | 1    | /    | 1    | 1    | /    | /    | 1    | 1    | /    | 1    | 4  | 1  | 1  | 1  | /  | /    | 1    |
| EVMS(L)90 2-2/11   | 1  | /   | 1   | 1   | 1   | 1 | 1 | 1  | /  | 2    | 1  | 1    | /    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    | 1    |
| EVMS(L)90 2-0/15   | 1  | /   | 1   | 1   | 1   | 1 | 1 | 1  | 2  | /    | 1  | 1    | /    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    | 1    |
| EVMS(L)90 3-2/18.5 | 1  | 1   | 1   | 1   | 1   | 1 | 1 | 1  | 1  | 2    | 1  | 1    | /    | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    | 1    |
| EVMS(L)90 3-0/22   | 1  | 1   | 1   | 1   | 1   | 1 | 1 | 1  | 3  | /    | 1  | 1    | /    | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    | 1    |
| EVMS(L)90 4-2/30   | 1  | 2   | 1   | 1   | 1   | 1 | 1 | 1  | 2  | 2    | 1  | 1    | /    | 1    | 3    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    | 1    |
| EVMS(L)90 4-0/30   | 1  | 2   | 1   | 1   | 1   | 1 | 1 | 1  | 4  | /    | 1  | 1    | /    | 1    | 3    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | /  | 1    | 1    |
| EVMS(L)90 5-2/37   | 1  | 3   | 1   | 1   | 1   | 1 | 1 | 1  | 3  | 2    | 1  | /    | 1    | 1    | 4    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | 1  | 1    | 1    |
| EVMS(L)90 5-0/37   | 1  | 3   | 1   | 1   | 1   | 1 | 1 | 1  | 5  | /    | 1  | /    | 1    | 1    | 4    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | 1  | 1    | 1    |
| EVMS(L)90 6-2/45   | 1  | 4   | 1   | 1   | 1   | 1 | 1 | 1  | 5  | 1    | 1  | /    | 1    | 1    | 5    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | 1  | 1    | 1    |
| EVMS(L)90 6-0/45   | 1  | 4   | 1   | 1   | 1   | 1 | 1 | 1  | 6  | /    | 1  | /    | 1    | 1    | 5    | 1    | 1    | 1    | 1    | 1    | 1    | 4  | 1  | 1  | 1  | 1  | 1    | 1    |

☐ shaft in EN 1.4462 (AISI 329A) only for EVMSL

| Pump Type          | N° |    |      |      |    |      |    |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |       |       |       |
|--------------------|----|----|------|------|----|------|----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|
|                    | 53 | 56 | 70-1 | 70-2 | 75 | 75-1 | 81 | 107 | 111-1 | 111-3 | 111-4 | 111-5 | 115-1 | 115-4 | 115-5 | 120-1 | 120-2 | 120-3 | 120-5 | 120-6 | 120-7 | 120-8 | 120-9 | 120-12 | 120-13 | 128-1 | 128-2 | 128-3 |
| EVMS(L)90 1-1/5.5  | 1  | /  | /    | 1    | 2  | 4    | 1  | 1   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)90 1-0/7.5  | 1  | /  | /    | 1    | 2  | 4    | 1  | 1   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)90 2-2/11   | 1  | /  | /    | 1    | 2  | 4    | 1  | 2   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)90 2-0/15   | 1  | /  | /    | 1    | 2  | 4    | 1  | 2   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)90 3-2/18.5 | 3  | /  | /    | 1    | 2  | 4    | 2  | 3   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)90 3-0/22   | 3  | /  | /    | 1    | 2  | 4    | 2  | 3   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)90 4-2/30   | 4  | /  | /    | 1    | 2  | 4    | 3  | 4   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)90 4-0/30   | 4  | /  | /    | 1    | 2  | 4    | 3  | 4   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)90 5-2/37   | 5  | 1  | 1    | 1    | 2  | 4    | 4  | 5   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)90 5-0/37   | 5  | 1  | 1    | 1    | 2  | 4    | 4  | 5   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 4      | 4     | 4     | 4     |
| EVMS(L)90 6-2/45   | 6  | 1  | 1    | 1    | 2  | 4    | 5  | 6   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 8      | 4     | 4     | 8     |
| EVMS(L)90 6-0/45   | 6  | 1  | 1    | 1    | 2  | 4    | 5  | 6   | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 8      | 4     | 4     | 8     |

| Pump Type          | N°    |       |       |       |       |       |       |       |       |       |       |     |       |       |     |     |     |     |       |       |       |     |       |       |     |  |  |  |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-------|-------|-----|-----|-----|-----|-------|-------|-------|-----|-------|-------|-----|--|--|--|
|                    | 130-1 | 130-2 | 130-4 | 131-1 | 131-2 | 135-1 | 135-2 | 135-3 | 135-4 | 137-1 | 137-2 | 140 | 140-1 | 140-2 | 150 | 160 | 162 | 212 | 212-1 | 212-2 | 212-3 | 245 | 273-1 | 274-2 | 615 |  |  |  |
| EVMS(L)90 1-1/5.5  | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1   | 2     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |  |  |  |
| EVMS(L)90 1-0/7.5  | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1   | 2     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |  |  |  |
| EVMS(L)90 2-2/11   | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1   | 2     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |  |  |  |
| EVMS(L)90 2-0/15   | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1   | 2     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |  |  |  |
| EVMS(L)90 3-2/18.5 | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1   | 2     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |  |  |  |
| EVMS(L)90 3-0/22   | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1   | 2     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |  |  |  |
| EVMS(L)90 4-2/30   | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1   | 2     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |  |  |  |
| EVMS(L)90 4-0/30   | 3     | 4     | /     | 1     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1   | 2     | /     | /   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     | 2   |  |  |  |
| EVMS(L)90 5-2/37   | 3     | 4     | 1     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | 1     | 1   | /     | 1     | 1   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     | 2   |  |  |  |
| EVMS(L)90 5-0/37   | 3     | 4     | 1     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | 1     | 1   | /     | 1     | 1   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     | 2   |  |  |  |
| EVMS(L)90 6-2/45   | 3     | 4     | 1     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | 1     | 1   | /     | 1     | 1   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     | 2   |  |  |  |
| EVMS(L)90 6-0/45   | 3     | 4     | 1     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | 1     | 1   | /     | 1     | 1   | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     | 2   |  |  |  |

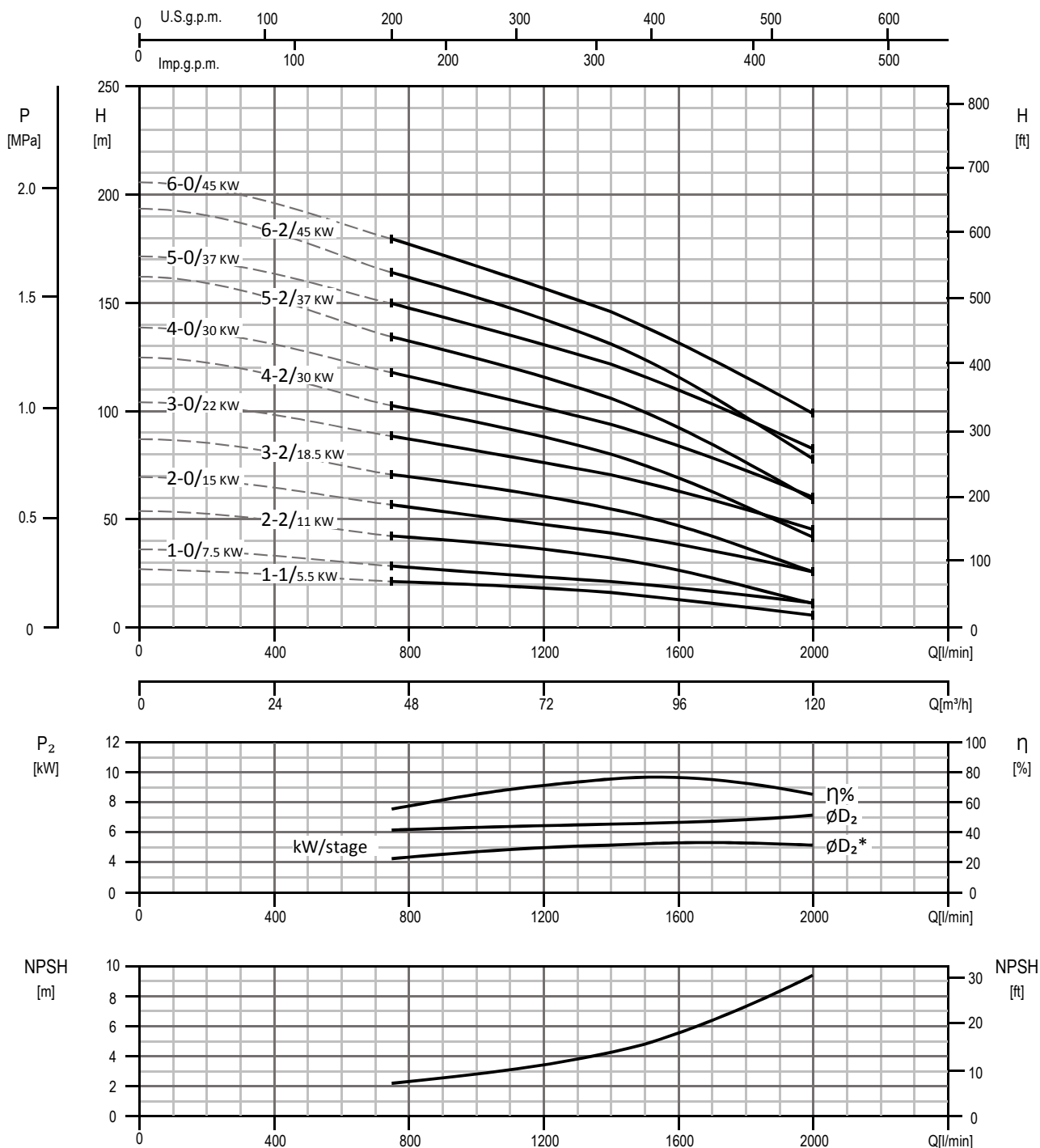
### BEARINGS EVMS(L)90

2.17

| Pump Type          | N° 56      |
|--------------------|------------|
| EVMS(L)90 1-1/5.5  | /          |
| EVMS(L)90 1-0/7.5  | /          |
| EVMS(L)90 2-2/11   | /          |
| EVMS(L)90 2-0/15   | /          |
| EVMS(L)90 3-2/18.5 | /          |
| EVMS(L)90 3-0/22   | /          |
| EVMS(L)90 4-2/30   | /          |
| EVMS(L)90 4-0/30   | /          |
| EVMS(L)90 5-2/37   | 6315 ZZ C3 |
| EVMS(L)90 5-0/37   | 6315 ZZ C3 |
| EVMS(L)90 6-2/45   | 6315 ZZ C3 |
| EVMS(L)90 6-0/45   | 6315 ZZ C3 |

EVMS(L)90

PERFORMANCE CURVE  
EVMSG90



Test standard: ISO 9906:2012 - Grade 3B

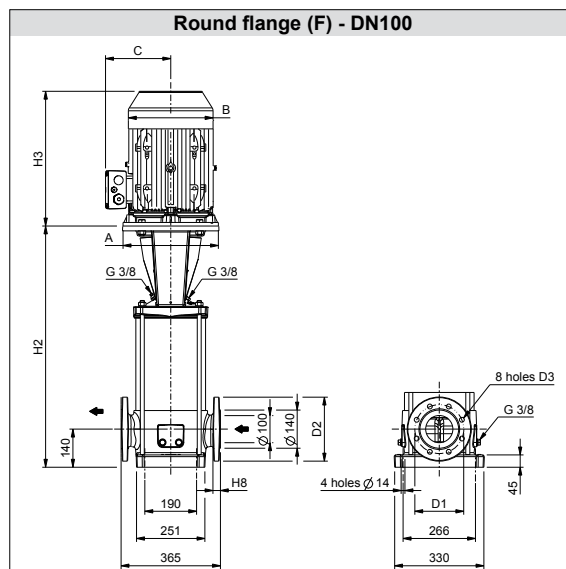


### TECHNICAL DATA EVMSG90

2.17

EVMSG90

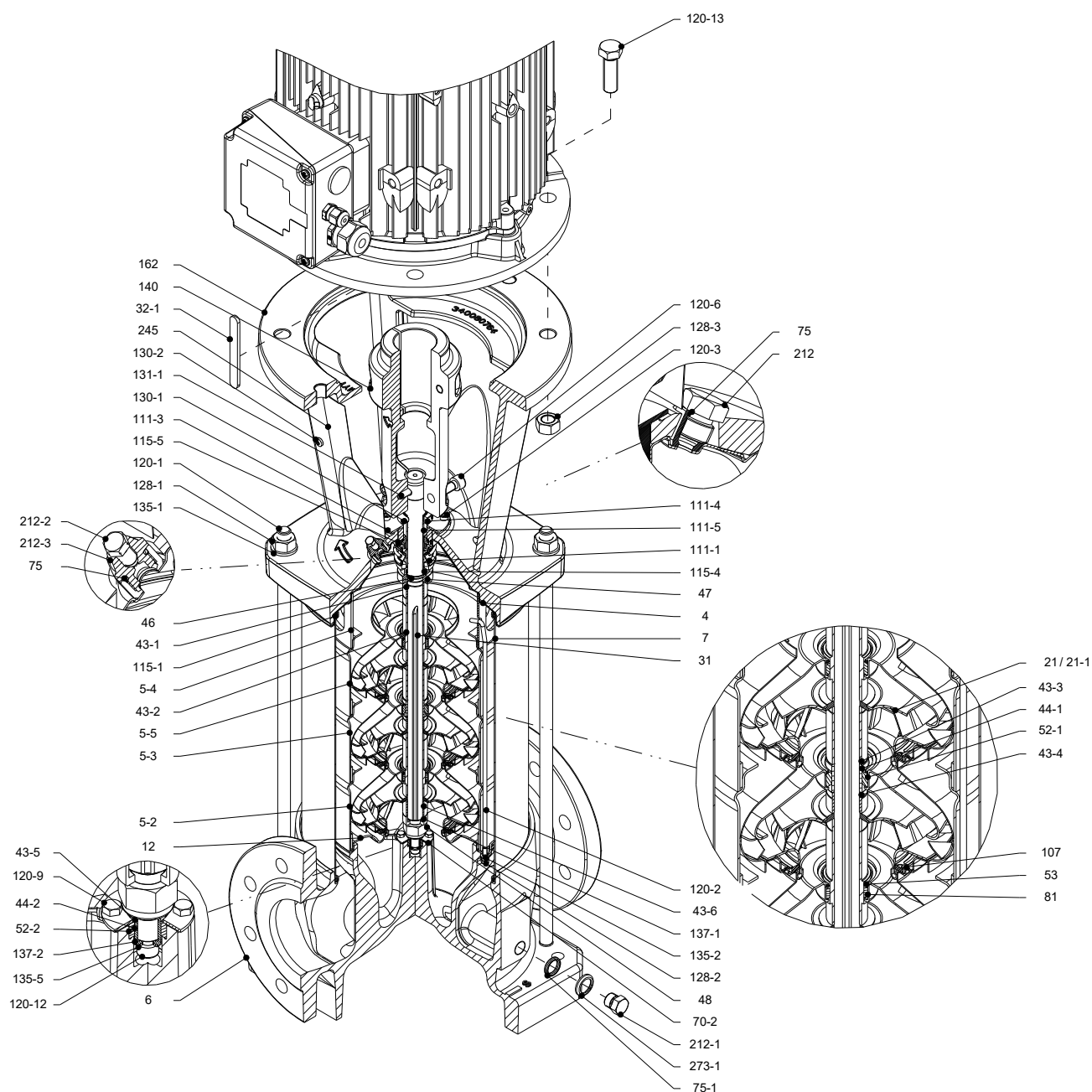
#### Dimensional sketch



#### Dimensions [mm] and Weights [Kg]

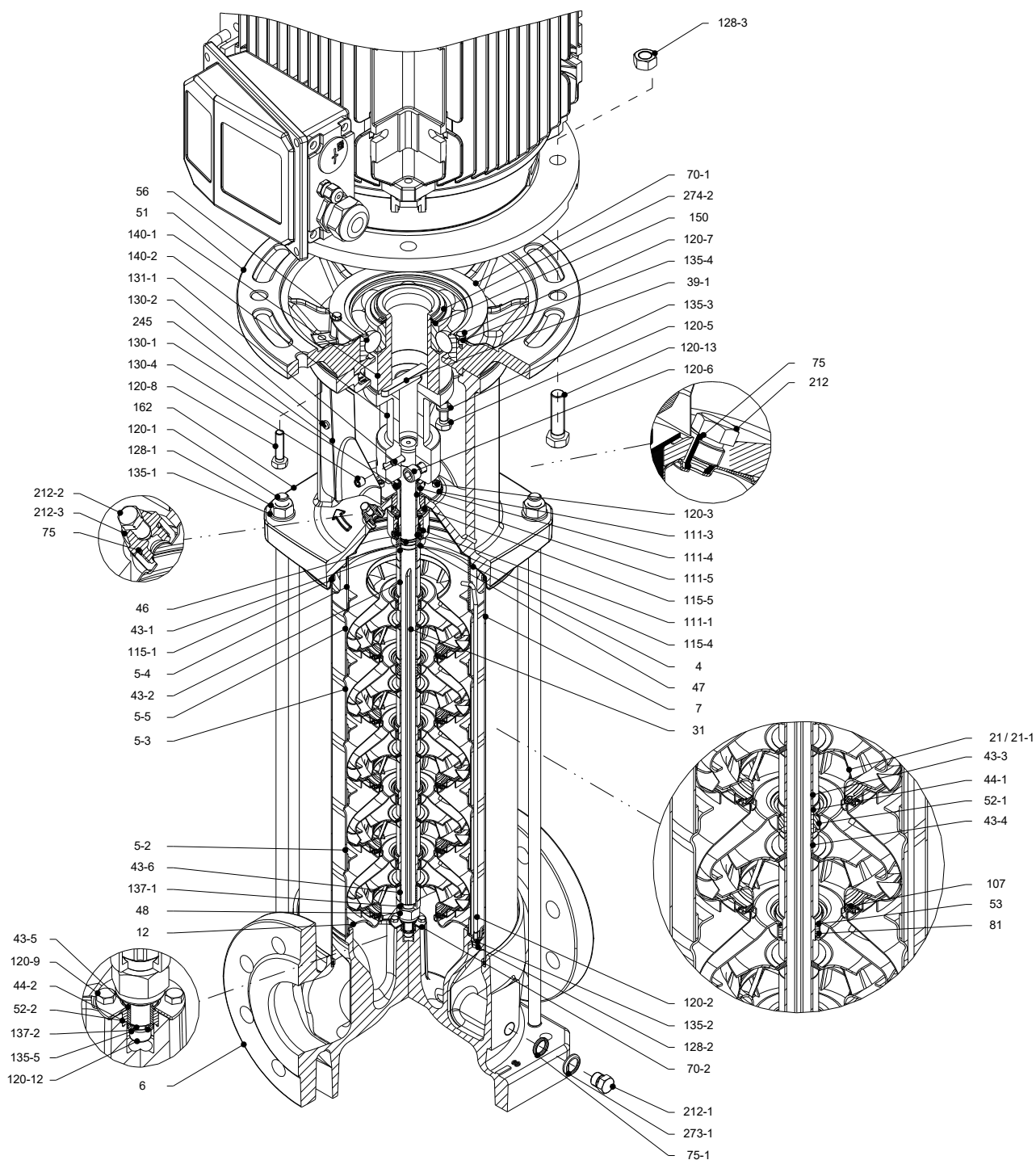
|                  |               | Motor |      |        |     |     | Round flange (F) |       |     |     |    |    |                |                           |  |  |
|------------------|---------------|-------|------|--------|-----|-----|------------------|-------|-----|-----|----|----|----------------|---------------------------|--|--|
|                  |               | kW    | Size | A<br>Ø | B   | C   | H2               | H2+H3 | D1  | D2  | D3 | H8 | Weight<br>Pump | Weight<br>Pump +<br>Motor |  |  |
| Pump Type        | Pmax<br>[MPa] |       |      |        |     |     |                  |       |     |     |    |    |                |                           |  |  |
| EVMSG90 1-1/5.5  | 1.6           | 5.5   | 132  | 300    | 220 | 152 | 671              | 1070  | 180 | 235 | 18 | 24 | 74.9           | 113.9                     |  |  |
| EVMSG90 1-0/7.5  | 1.6           | 7.5   | 132  | 300    | 220 | 152 | 671              | 1090  | 180 | 235 | 18 | 24 | 74.9           | 120.9                     |  |  |
| EVMSG90 2-2/11   | 1.6           | 11    | 160  | 350    | 259 | 180 | 794              | 1233  | 180 | 235 | 18 | 24 | 87.2           | 149.7                     |  |  |
| EVMSG90 2-0/15   | 1.6           | 15    | 160  | 350    | 311 | 240 | 794              | 1289  | 180 | 235 | 18 | 24 | 87.2           | 188.2                     |  |  |
| EVMSG90 3-2/18.5 | 1.6           | 18.5  | 160  | 350    | 311 | 240 | 887              | 1382  | 180 | 235 | 18 | 24 | 92.8           | 201.8                     |  |  |
| EVMSG90 3-0/22   | 1.6           | 22    | 180  | 350    | 354 | 260 | 887              | 1439  | 180 | 235 | 18 | 24 | 92.6           | 227.6                     |  |  |
| EVMSG90 4-2/30   | 1.6           | 30    | 200  | 400    | 354 | 280 | 980              | 1532  | 180 | 235 | 18 | 24 | 103.1          | 271.1                     |  |  |
| EVMSG90 4-0/30   | 1.6           | 30    | 200  | 400    | 354 | 280 | 980              | 1532  | 180 | 235 | 18 | 24 | 103.1          | 271.1                     |  |  |
| EVMSG90 5-2/37   | 2.5           | 37    | 200  | 400    | 382 | 295 | 1090             | 1767  | 190 | 254 | 22 | 31 | 126.8          | 386.8                     |  |  |
| EVMSG90 5-0/37   | 2.5           | 37    | 200  | 400    | 382 | 295 | 1090             | 1767  | 190 | 254 | 22 | 31 | 127.0          | 387.0                     |  |  |
| EVMSG90 6-2/45   | 2.5           | 45    | 225  | 450    | 449 | 335 | 1183             | 1949  | 190 | 254 | 22 | 31 | 138.0          | 512.0                     |  |  |
| EVMSG90 6-0/45   | 2.5           | 45    | 225  | 450    | 449 | 335 | 1183             | 1949  | 190 | 254 | 22 | 31 | 138.0          | 512.0                     |  |  |

1.6 MPa=16 bar; 2.5 MPa=25 bar

SECTIONAL VIEW  
EVMSG90

Pump without ball bearing  
up to 30 kW

### SECTIONAL VIEW EVMSG90



Pump with single ball bearing  
above 37 kW

SECTIONAL TABLE  
EVMSG90

| N°    | PART NAME                              | MATERIAL<br>EVMSG                                               | DIMENSIONS   | STANDARD |
|-------|----------------------------------------|-----------------------------------------------------------------|--------------|----------|
| 4     | Casing cover                           | EN 1.4301 (AISI 304)                                            |              |          |
| 5-2   | Intermediate casing                    | EN 1.4301 (AISI 304)                                            |              |          |
| 5-3   | Intermediate casing with bearing       | EN 1.4301 (AISI 304)                                            |              |          |
| 5-4   | Discharge casing                       | EN 1.4301 (AISI 304)                                            |              |          |
| 5-5   | Top intermediate casing                | EN 1.4301 (AISI 304)                                            |              |          |
| 6     | Bottom casing                          | Cast Iron EN GJL-250 EN 1561<br>Cast Iron EN GJS 400-15 EN 1563 |              |          |
| 7     | Outer casing                           | EN 1.4301 (AISI 304)                                            |              |          |
| 12    | Suction cover                          | EN 1.4301 (AISI 304)                                            |              |          |
| 21    | Impeller                               | EN 1.4301 (AISI 304)                                            |              |          |
| 21-1  | Reduced impeller                       | EN 1.4301 (AISI 304)                                            |              |          |
| 31    | Shaft                                  | EN 1.4301 (AISI 304)                                            |              |          |
| 32-1  | Adjuster key                           | EN 1.4301 (AISI 304)                                            |              |          |
| 39-1  | Coupling key above 37 kW               | Carbon Steel                                                    |              |          |
| 43-1  | Shaft sleeve (mechanical seal)         | EN 1.4301 (AISI 304)                                            |              |          |
| 43-2  | Shaft sleeve (intermediate)            | EN 1.4301 (AISI 304)                                            |              |          |
| 43-3  | Shaft sleeve (bearing)                 | EN 1.4301 (AISI 304)                                            |              |          |
| 43-4  | Shaft sleeve (adjustment)              | EN 1.4301 (AISI 304)                                            |              |          |
| 43-5  | Shaft sleeve (last stage)              | EN 1.4301 (AISI 304)                                            |              |          |
| 43-6  | Shaft sleeve (adjustment)              | EN 1.4301 (AISI 304)                                            |              |          |
| 44-1  | Shaft sleeve bearing                   | Tungsten carbide                                                |              |          |
| 44-2  | Shaft sleeve (bearing)                 | Tungsten carbide                                                |              |          |
| 46    | Ring (mechanical seal)                 | EN 1.4404 (AISI 316L)                                           |              |          |
| 47    | Ring holder                            | EN 1.4301 (AISI 304)                                            |              |          |
| 48    | Impeller nut                           | EN 1.4301 (AISI 304) with inox insert                           |              |          |
| 51    | Motor adapter above 37 kW              | Cast Iron EN GJL250 EN 1561                                     |              |          |
| 52-1  | Sleeve bearing                         | Tungsten carbide                                                |              |          |
| 52-2  | Bearing sleeve (bottom casing)         | Tungsten carbide                                                |              |          |
| 53    | Bush holder                            | EN 1.4301 (AISI 304)                                            |              |          |
| 56    | Ball bearing above 37 kW               | see table page 151                                              |              |          |
| 70-1  | Ring for ball bearing above 37 kW      | EN 1.4301 (AISI 304)                                            |              |          |
| 70-2  | Ring for bearing sleeve                | EN 1.4301 (AISI 304)                                            |              |          |
| 75    | O-Ring (priming plug)                  | EPDM / FPM                                                      | Ø12.37x2.62  | OR 3050  |
| 75-1  | O-Ring (drainage plug)                 | EPDM / FPM                                                      |              |          |
| 81    | Bush                                   | PTFE                                                            |              |          |
| 107   | Liner ring                             | EN 1.4301 (AISI 304) + PPS                                      |              |          |
| 111-1 | Mechanical seal                        | see pages 6-7                                                   |              |          |
| 111-3 | Mechanical seal seat                   | EN 1.4301 (AISI 304)                                            |              |          |
| 111-4 | Seal holder                            | EN 1.4404 (AISI 316L)                                           |              |          |
| 111-5 | Mechanical seal cartridge sleeve       | EN 1.4301 (AISI 304)                                            |              |          |
| 115-1 | O-Ring (outer casing)                  | EPDM / FPM                                                      | Ø240.66x5.34 | OR 6945  |
| 115-4 | O-Ring (cartridge sleeve)              | EPDM / FPM                                                      | Ø23.39x3.53  | OR 4093  |
| 115-5 | O-Ring (seal flange)                   | EPDM / FPM                                                      | Ø44.04x3.53  | OR 4175  |
| 120-1 | Tie rod                                | EN 1.4057 (AISI 431)                                            |              |          |
| 120-2 | Tie rod (stage)                        | EN 1.4301 (AISI 304)                                            |              |          |
| 120-3 | Screw (seal flange)                    | A2-70                                                           | M5x12        | ISO 4762 |
| 120-5 | Screw (extension coupling) above 37 kW | Galvanized steel 8.8 strength class ISO 898/1                   | M10x30       | ISO 4017 |

### SECTIONAL TABLE EVMSG90

| N°     | PART NAME                   |                     | MATERIAL<br>EVMSG                             | DIMENSIONS | STANDARD |
|--------|-----------------------------|---------------------|-----------------------------------------------|------------|----------|
| 120-6  | Screw (pump coupling)       | up to 7.5 kW        | Galvanized steel 8.8 strength class ISO 898/1 | M8x25      | ISO 4762 |
|        |                             | from 11 kW to 30 kW | Galvanized steel 8.8 strength class ISO 898/1 | M10x30     | ISO 4762 |
|        |                             | above 37 kW         | Galvanized steel 8.8 strength class ISO 898/1 | M12x30     | ISO 4762 |
| 120-7  | Screw (ball bearing)        | above 37 kW         | Galvanized steel 8.8 strength class ISO 898/1 | M6x10      | ISO 4017 |
| 120-8  | Screw (motor adapter)       | above 37 kW         | Galvanized steel 8.8 strength class ISO 898/1 | M10x40     | ISO 4017 |
| 120-9  | Screw (bottom casing)       |                     | A2-70                                         | M5x8       | ISO 4017 |
| 120-12 | Screw (shaft)               |                     | A2-70                                         | M6x16      | ISO 4762 |
| 120-13 | Screw for motor             | MEC 132             | Galvanized steel 8.8 strength class ISO 898/1 | M12x45     | ISO 4017 |
|        |                             | MEC 160-180         | Galvanized steel 8.8 strength class ISO 898/1 | M16x50     | ISO 4017 |
|        |                             | MEC 200-225         | Galvanized steel 8.8 strength class ISO 898/1 | M16x60     | ISO 4014 |
| 128-1  | Nut (tie rod)               |                     | A2-70                                         | M16        | ISO 4032 |
| 128-2  | Nut (casing tie rod)        |                     | A2-70                                         | M5         | ISO 4032 |
| 128-3  | Nut (motor)                 | MEC 132             | Galvanized steel                              | M12        | ISO 4032 |
|        |                             | MEC 160-180-200-225 | Galvanized steel                              | M16        | ISO 4032 |
| 130-1  | Set screw                   |                     | EN 1.4301 (AISI 304)                          | M6x8       | ISO 4026 |
| 130-2  | Screw for coupling guard    |                     | A2-70                                         | M5x6       | UNI 7687 |
| 130-4  | Set screw (pump coupling)   | above 37 kW         | Galvanized steel                              | M10x10     | ISO 4026 |
| 131-1  | Pin for shaft               |                     | Carbon Steel                                  | Ø8X50      | ISO 2338 |
| 135-1  | Washer (tie rod)            |                     | EN 1.4301 (AISI 304)                          | Ø16        | ISO 7089 |
| 135-2  | Washer (casing tie rod)     |                     | EN 1.4301 (AISI 304)                          | Ø5,1       | UNI 1751 |
| 135-3  | Washer (extension coupling) | above 37 kW         | Galvanized steel                              | Ø10,2      | UNI 1751 |
| 135-4  | Washer (ball bearing)       | above 37 kW         | Plated carbon steel                           | Ø6,1       | UNI 1751 |
| 135-5  | Washer (impeller nut)       |                     | EN 1.4301 (AISI 304)                          |            |          |
| 137-1  | Impeller spacer             |                     | EN 1.4301 (AISI 304)                          |            |          |
| 137-2  | Shaft spacer                |                     | EN 1.4301 (AISI 304)                          |            |          |
| 140    | Coupling                    | up to 30 kW         | Cast Iron EN GJL250 EN 1561                   |            |          |
| 140-1  | Extension coupling          | above 37 kW         | Carbon Steel                                  |            |          |
| 140-2  | Coupling                    | above 37 kW         | Carbon Steel                                  |            |          |
| 150    | Spacer (snap ring)          | above 37 kW         | Carbon Steel                                  |            |          |
| 162    | Motor bracket               | up to 30 kW         | Cast Iron EN GJS 400-15 EN 1563               |            |          |
| 212    | Priming plug                |                     | EN 1.4301 (AISI 304)                          |            |          |
| 212-1  | Drainage plug               |                     | EN 1.4301 (AISI 304)                          |            |          |
| 212-2  | Venting plug                |                     | EN 1.4401 (AISI 316)                          |            |          |
| 212-3  | Priming plug                |                     | EN 1.4301 (AISI 304)                          |            |          |
| 245    | Coupling guard              |                     | EN 1.4301 (AISI 304)                          |            |          |
| 273-1  | Washer (drainage plug)      |                     | EN 1.4301 (AISI 304)                          |            |          |
| 274-2  | C-type snap ring (coupling) | above 37 kW         | Carbon Steel TC80                             | Ø75        | UNI 7435 |

# QUANTITY FOR MODEL EVMSG90

| Pump Type        | N° |     |     |     |     |   |   |    |    |      |    |      |      |      |      |      |      |      |      |      |      |    |    |    |    |      |      |    |   |
|------------------|----|-----|-----|-----|-----|---|---|----|----|------|----|------|------|------|------|------|------|------|------|------|------|----|----|----|----|------|------|----|---|
|                  | 4  | 5-2 | 5-3 | 5-4 | 5-5 | 6 | 7 | 12 | 21 | 21-1 | 31 | 32-1 | 39-1 | 43-1 | 43-2 | 43-3 | 43-4 | 43-5 | 43-6 | 44-1 | 44-2 | 46 | 47 | 48 | 51 | 52-1 | 52-2 | 53 |   |
| EVMSG90 1-1/5.5  | 1  | /   | /   | 1   | 1   | 1 | 1 | 1  | /  | 1    | 1  | 1    | /    | 1    | 1    | /    | /    | 1    | 1    | /    | 1    | 1  | 1  | 1  | /  | /    | 1    | 1  |   |
| EVMSG90 1-0/7.5  | 1  | /   | /   | 1   | 1   | 1 | 1 | 1  | 1  | 1    | 1  | 1    | /    | 1    | 1    | /    | /    | 1    | 1    | /    | 1    | 1  | 1  | 1  | 1  | /    | /    | 1  | 1 |
| EVMSG90 2-2/11   | 1  | /   | 1   | 1   | 1   | 1 | 1 | 1  | /  | 2    | 1  | 1    | /    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1  | /    | 1    | 1  | 1 |
| EVMSG90 2-0/15   | 1  | /   | 1   | 1   | 1   | 1 | 1 | 1  | 2  | /    | 1  | 1    | /    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1  | /    | 1    | 1  | 1 |
| EVMSG90 3-2/18.5 | 1  | 1   | 1   | 1   | 1   | 1 | 1 | 1  | 1  | 2    | 1  | 1    | /    | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1  | /    | 1    | 1  | 3 |
| EVMSG90 3-0/22   | 1  | 1   | 1   | 1   | 1   | 1 | 1 | 1  | 3  | /    | 1  | 1    | /    | 1    | 2    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1  | /    | 1    | 1  | 3 |
| EVMSG90 4-2/30   | 1  | 2   | 1   | 1   | 1   | 1 | 1 | 1  | 2  | 2    | 1  | 1    | /    | 1    | 3    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1  | /    | 1    | 1  | 4 |
| EVMSG90 4-0/30   | 1  | 2   | 1   | 1   | 1   | 1 | 1 | 1  | 4  | /    | 1  | 1    | /    | 1    | 3    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1  | /    | 1    | 1  | 4 |
| EVMSG90 5-2/37   | 1  | 3   | 1   | 1   | 1   | 1 | 1 | 1  | 3  | 2    | 1  | /    | 1    | 1    | 4    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1  | 1    | 1    | 1  | 5 |
| EVMSG90 5-0/37   | 1  | 3   | 1   | 1   | 1   | 1 | 1 | 1  | 5  | /    | 1  | /    | 1    | 1    | 4    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1  | 1    | 1    | 1  | 5 |
| EVMSG90 6-2/45   | 1  | 4   | 1   | 1   | 1   | 1 | 1 | 1  | 5  | 1    | 1  | /    | 1    | 1    | 5    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1  | 1    | 1    | 1  | 6 |
| EVMSG90 6-0/45   | 1  | 4   | 1   | 1   | 1   | 1 | 1 | 1  | 6  | /    | 1  | /    | 1    | 1    | 5    | 1    | 1    | 1    | 1    | 1    | 1    | 1  | 1  | 1  | 1  | 1    | 1    | 1  | 6 |

| Pump Type        | N° |      |      |    |      |    |     |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |       |       |       |     |
|------------------|----|------|------|----|------|----|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-----|
|                  | 56 | 70-1 | 70-2 | 75 | 75-1 | 81 | 107 | 111-1 | 111-3 | 111-4 | 111-5 | 115-1 | 115-4 | 115-5 | 120-1 | 120-2 | 120-3 | 120-5 | 120-6 | 120-7 | 120-8 | 120-9 | 120-12 | 120-13 | 128-1 | 128-2 | 128-3 | 130 |
| EVMSG90 1-1/5.5  | /  | /    | 1    | 2  | 4    | 1  | 1   | 1     | 1     | 1     | 2     | 1     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | 3   |
| EVMSG90 1-0/7.5  | /  | /    | 1    | 2  | 4    | 1  | 1   | 1     | 1     | 1     | 2     | 1     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | 3   |
| EVMSG90 2-2/11   | /  | /    | 1    | 2  | 4    | 1  | 2   | 1     | 1     | 1     | 2     | 1     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | 3   |
| EVMSG90 2-0/15   | /  | /    | 1    | 2  | 4    | 1  | 2   | 1     | 1     | 1     | 2     | 1     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | 3   |
| EVMSG90 3-2/18.5 | /  | /    | 1    | 2  | 4    | 2  | 3   | 1     | 1     | 1     | 2     | 1     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | 3   |
| EVMSG90 3-0/22   | /  | /    | 1    | 2  | 4    | 2  | 3   | 1     | 1     | 1     | 2     | 1     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | 3   |
| EVMSG90 4-2/30   | /  | /    | 1    | 2  | 4    | 3  | 4   | 1     | 1     | 1     | 2     | 1     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | 3   |
| EVMSG90 4-0/30   | /  | /    | 1    | 2  | 4    | 3  | 4   | 1     | 1     | 1     | 2     | 1     | 1     | 1     | 4     | 2     | 4     | /     | 4     | /     | /     | 4     | 1      | 4      | 4     | 4     | 4     | 3   |
| EVMSG90 5-2/37   | 1  | 1    | 1    | 2  | 4    | 4  | 5   | 1     | 1     | 1     | 2     | 1     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | 3   |
| EVMSG90 5-0/37   | 1  | 1    | 1    | 2  | 4    | 4  | 5   | 1     | 1     | 1     | 2     | 1     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 4      | 4     | 4     | 4     | 3   |
| EVMSG90 6-2/45   | 1  | 1    | 1    | 2  | 4    | 5  | 6   | 1     | 1     | 1     | 2     | 1     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 8      | 4     | 4     | 8     | 3   |
| EVMSG90 6-0/45   | 1  | 1    | 1    | 2  | 4    | 5  | 6   | 1     | 1     | 1     | 2     | 1     | 1     | 1     | 4     | 2     | 4     | 4     | 2     | 3     | 4     | 4     | 1      | 8      | 4     | 4     | 8     | 3   |

| Pump Type        | N°    |       |       |       |       |       |       |       |       |       |     |       |       |     |     |     |       |       |       |     |       |       |  |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|-------|-------|-----|-----|-----|-------|-------|-------|-----|-------|-------|--|
|                  | 130-2 | 130-4 | 131-1 | 135-1 | 135-2 | 135-3 | 135-4 | 135-5 | 137-1 | 137-2 | 140 | 140-1 | 140-2 | 150 | 162 | 212 | 212-1 | 212-2 | 212-3 | 245 | 273-1 | 274-2 |  |
| EVMSG90 1-1/5.5  | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |
| EVMSG90 1-0/7.5  | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |
| EVMSG90 2-2/11   | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |
| EVMSG90 2-0/15   | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |
| EVMSG90 3-2/18.5 | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |
| EVMSG90 3-0/22   | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |
| EVMSG90 4-2/30   | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |
| EVMSG90 4-0/30   | 4     | /     | 1     | 4     | 2     | /     | /     | 1     | 1     | 1     | 2   | /     | /     | /   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | /     |  |
| EVMSG90 5-2/37   | 4     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     |  |
| EVMSG90 5-0/37   | 4     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     |  |
| EVMSG90 6-2/45   | 4     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     |  |
| EVMSG90 6-0/45   | 4     | 1     | 1     | 4     | 2     | 4     | 3     | 1     | 1     | 1     | /   | 1     | 1     | 1   | 1   | 1   | 4     | 1     | 1     | 2   | 4     | 1     |  |

### BEARINGS EVMSG90

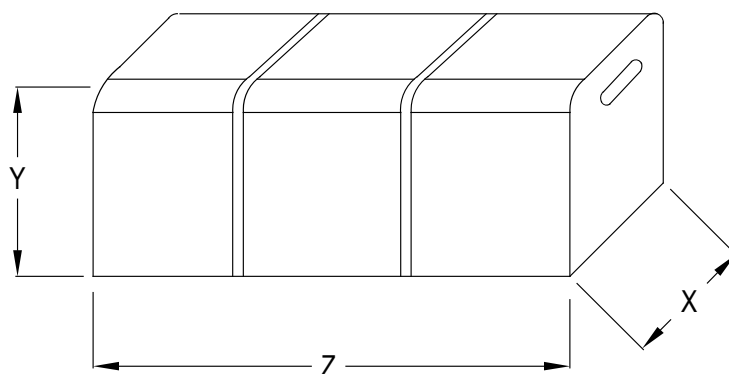
2.17

| Pump Type        | N° 56      |
|------------------|------------|
| EVMSG90 1-1/5.5  | /          |
| EVMSG90 1-0/7.5  | /          |
| EVMSG90 2-2/11   | /          |
| EVMSG90 2-0/15   | /          |
| EVMSG90 3-2/18.5 | /          |
| EVMSG90 3-0/22   | /          |
| EVMSG90 4-2/30   | /          |
| EVMSG90 4-0/30   | /          |
| EVMSG90 5-2/37   | 6315 ZZ C3 |
| EVMSG90 5-0/37   | 6315 ZZ C3 |
| EVMSG90 6-2/45   | 6315 ZZ C3 |
| EVMSG90 6-0/45   | 6315 ZZ C3 |

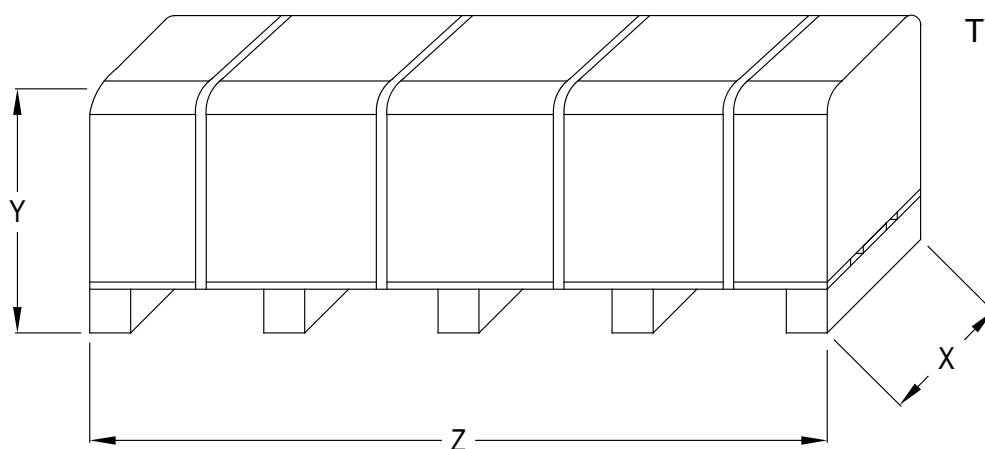
EVMSG90



PACKING DRAWING  
EVMS(. )1-3-5-10-15-20-32-45-64-90



TYPE 1

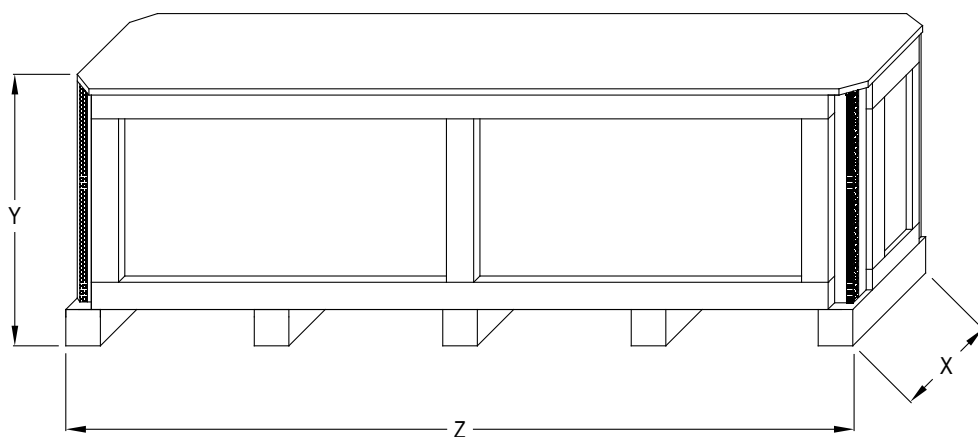


TYPE 2

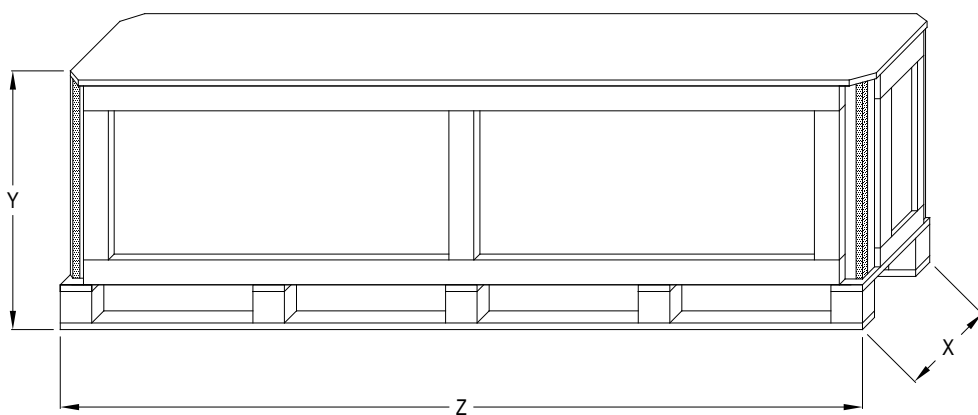
### PACKING DRAWING EVMS(. )1-3-5-10-15-20-32-45-64-90

3.1

PACKING DRAWING



TYPE 3



TYPE 4

# PACKING DATA

## EVMS(.)1-3-5

|   | Pump type        | Pumps        |     |      |                         |   |       |   | Pumps with motor ~1 |     |      |                         |   |       |   | Pumps with motor ~3 |     |      |                         |   |       |   |
|---|------------------|--------------|-----|------|-------------------------|---|-------|---|---------------------|-----|------|-------------------------|---|-------|---|---------------------|-----|------|-------------------------|---|-------|---|
|   |                  | Packing [mm] |     |      | Weight [kg] + Pack Type |   |       |   | Packing [mm]        |     |      | Weight [kg] + Pack Type |   |       |   | Packing [mm]        |     |      | Weight [kg] + Pack Type |   |       |   |
|   |                  | X            | Y   | Z    | EVMS(L)                 |   | EVMSG |   | X                   | Y   | Z    | EVMS(L)                 |   | EVMSG |   | X                   | Y   | Z    | EVMS(L)                 |   | EVMSG |   |
| 1 | EVMS(.)1 2/0,37  | 385          | 400 | 385  | 12                      | 1 | 20    | 1 | 385                 | 400 | 585  | 20                      | 1 | 27    | 1 | 385                 | 400 | 585  | 20                      | 1 | 27    | 1 |
|   | EVMS(.)1 3/0,37  | 385          | 400 | 385  | 13                      | 1 | 20    | 1 | 385                 | 400 | 585  | 20                      | 1 | 27    | 1 | 385                 | 400 | 585  | 20                      | 1 | 27    | 1 |
|   | EVMS(.)1 4/0,37  | 385          | 400 | 385  | 13                      | 1 | 20    | 1 | 385                 | 400 | 770  | 21                      | 1 | 28    | 1 | 385                 | 400 | 770  | 21                      | 1 | 28    | 1 |
|   | EVMS(.)1 5/0,37  | 385          | 400 | 585  | 14                      | 1 | 21    | 1 | 385                 | 400 | 770  | 21                      | 1 | 28    | 1 | 385                 | 400 | 770  | 21                      | 1 | 28    | 1 |
|   | EVMS(.)1 6/0,37  | 385          | 400 | 585  | 15                      | 1 | 22    | 1 | 385                 | 400 | 770  | 22                      | 1 | 30    | 1 | 385                 | 400 | 770  | 22                      | 1 | 30    | 1 |
|   | EVMS(.)1 7/0,37  | 385          | 400 | 585  | 15                      | 1 | 22    | 1 | 385                 | 400 | 770  | 22                      | 1 | 30    | 1 | 385                 | 400 | 770  | 22                      | 1 | 30    | 1 |
|   | EVMS(.)1 8/0,37  | 385          | 400 | 585  | 16                      | 1 | 23    | 1 | 385                 | 400 | 770  | 23                      | 1 | 31    | 1 | 385                 | 400 | 770  | 23                      | 1 | 31    | 1 |
|   | EVMS(.)1 9/0,55  | 385          | 400 | 585  | 16                      | 1 | 23    | 1 | 385                 | 400 | 770  | 24                      | 1 | 31    | 1 | 385                 | 400 | 770  | 24                      | 1 | 31    | 1 |
|   | EVMS(.)1 10/0,55 | 385          | 400 | 585  | 16                      | 1 | 23    | 1 | 385                 | 400 | 770  | 24                      | 1 | 31    | 1 | 385                 | 400 | 770  | 24                      | 1 | 31    | 1 |
|   | EVMS(.)1 11/0,55 | 385          | 400 | 585  | 17                      | 1 | 24    | 1 | 385                 | 400 | 970  | 25                      | 1 | 32    | 1 | 385                 | 400 | 770  | 25                      | 1 | 32    | 1 |
|   | EVMS(.)1 12/0,55 | 385          | 400 | 585  | 17                      | 1 | 25    | 1 | 385                 | 400 | 770  | 25                      | 1 | 32    | 1 | 385                 | 400 | 970  | 25                      | 1 | 32    | 1 |
|   | EVMS(.)1 13/0,55 | 385          | 400 | 585  | 18                      | 1 | 25    | 1 | 385                 | 400 | 970  | 26                      | 1 | 33    | 1 | 385                 | 400 | 970  | 26                      | 1 | 33    | 1 |
|   | EVMS(.)1 14/0,75 | 385          | 400 | 770  | 19                      | 1 | 26    | 1 | 400                 | 430 | 1000 | 37                      | 2 | 40    | 2 | 400                 | 430 | 1000 | 37                      | 2 | 40    | 2 |
|   | EVMS(.)1 16/0,75 | 385          | 400 | 770  | 20                      | 1 | 27    | 1 | 400                 | 430 | 1000 | 41                      | 2 | 48    | 2 | 400                 | 430 | 1000 | 41                      | 2 | 48    | 2 |
|   | EVMS(.)1 18/1,1  | 385          | 400 | 770  | 21                      | 1 | 28    | 1 | 400                 | 430 | 1000 | 42                      | 2 | 50    | 2 | 400                 | 430 | 1000 | 42                      | 2 | 50    | 2 |
|   | EVMS(.)1 20/1,1  | 385          | 400 | 770  | 22                      | 1 | 29    | 1 | 400                 | 430 | 1000 | 43                      | 2 | 50    | 2 | 400                 | 430 | 1000 | 43                      | 2 | 50    | 2 |
|   | EVMS(.)1 22/1,1  | 385          | 400 | 770  | 24                      | 1 | 31    | 1 | 400                 | 430 | 1200 | 46                      | 2 | 53    | 2 | 400                 | 430 | 1200 | 46                      | 2 | 53    | 2 |
|   | EVMS(.)1 24/1,1  | 385          | 400 | 970  | 25                      | 1 | 32    | 1 | 400                 | 430 | 1200 | 47                      | 2 | 54    | 2 | 400                 | 430 | 1200 | 47                      | 2 | 54    | 2 |
|   | EVMS(.)1 26/1,1  | 385          | 400 | 970  | 26                      | 1 | 33    | 1 | 400                 | 430 | 1200 | 48                      | 2 | 55    | 2 | 400                 | 430 | 1200 | 48                      | 2 | 55    | 2 |
|   | EVMS(.)1 27/1,5  | 385          | 400 | 970  | 26                      | 1 | 33    | 1 | 400                 | 430 | 1200 | 54                      | 2 | 61    | 2 | 400                 | 430 | 1200 | 54                      | 2 | 61    | 2 |
|   | EVMS(.)1 29/1,5  | 385          | 400 | 970  | 27                      | 1 | 34    | 1 | 500                 | 430 | 1350 | 60                      | 2 | 68    | 2 | 500                 | 430 | 1350 | 60                      | 2 | 68    | 2 |
|   | EVMS(.)1 32/1,5  | 400          | 430 | 1000 | 37                      | 2 | 44    | 2 | 500                 | 430 | 1350 | 61                      | 2 | 68    | 2 | 500                 | 430 | 1350 | 61                      | 2 | 68    | 2 |
|   | EVMS(.)1 34/1,5  | 400          | 430 | 1200 | 40                      | 2 | 46    | 2 | 500                 | 430 | 1350 | 62                      | 2 | 70    | 2 | 500                 | 430 | 1350 | 62                      | 2 | 70    | 2 |
|   | EVMS(.)1 37/2,2  | 400          | 430 | 1200 | 41                      | 2 | 48    | 2 | 500                 | 430 | 1540 | 78                      | 2 | 85    | 2 | 500                 | 430 | 1540 | 78                      | 2 | 85    | 2 |
|   | EVMS(.)1 39/2,2  | 400          | 430 | 1200 | 42                      | 2 | 50    | 2 | 500                 | 430 | 1540 | 80                      | 2 | 86    | 2 | 500                 | 430 | 1540 | 80                      | 2 | 86    | 2 |
| 3 | EVMS(.)3 2/0,37  | 385          | 400 | 385  | 12                      | 1 | 18    | 1 | 385                 | 400 | 585  | 20                      | 1 | 25    | 1 | 385                 | 400 | 585  | 20                      | 1 | 25    | 1 |
|   | EVMS(.)3 3/0,37  | 385          | 400 | 385  | 13                      | 1 | 18    | 1 | 385                 | 400 | 585  | 20                      | 1 | 25    | 1 | 385                 | 400 | 585  | 20                      | 1 | 25    | 1 |
|   | EVMS(.)3 4/0,37  | 385          | 400 | 385  | 13                      | 1 | 18    | 1 | 385                 | 400 | 770  | 21                      | 1 | 26    | 1 | 385                 | 400 | 770  | 21                      | 1 | 26    | 1 |
|   | EVMS(.)3 5/0,55  | 385          | 400 | 585  | 14                      | 1 | 20    | 1 | 385                 | 400 | 770  | 22                      | 1 | 27    | 1 | 385                 | 400 | 770  | 22                      | 1 | 27    | 1 |
|   | EVMS(.)3 6/0,55  | 385          | 400 | 585  | 15                      | 1 | 20    | 1 | 385                 | 400 | 770  | 22                      | 1 | 28    | 1 | 385                 | 400 | 770  | 22                      | 1 | 28    | 1 |
|   | EVMS(.)3 7/0,75  | 385          | 400 | 585  | 16                      | 1 | 21    | 1 | 385                 | 400 | 770  | 26                      | 1 | 31    | 1 | 385                 | 400 | 770  | 26                      | 1 | 31    | 1 |
|   | EVMS(.)3 8/0,75  | 385          | 400 | 585  | 16                      | 1 | 21    | 1 | 385                 | 400 | 770  | 27                      | 1 | 32    | 1 | 385                 | 400 | 770  | 27                      | 1 | 32    | 1 |
|   | EVMS(.)3 9/1,1   | 385          | 400 | 585  | 17                      | 1 | 22    | 1 | 385                 | 400 | 770  | 28                      | 1 | 33    | 1 | 385                 | 400 | 770  | 28                      | 1 | 33    | 1 |
|   | EVMS(.)3 10/1,1  | 385          | 400 | 585  | 17                      | 1 | 22    | 1 | 385                 | 400 | 770  | 30                      | 1 | 34    | 1 | 385                 | 400 | 770  | 30                      | 1 | 34    | 1 |
|   | EVMS(.)3 11/1,1  | 385          | 400 | 585  | 17                      | 1 | 23    | 1 | 385                 | 400 | 970  | 30                      | 1 | 34    | 1 | 385                 | 400 | 970  | 30                      | 1 | 34    | 1 |
|   | EVMS(.)3 12/1,1  | 385          | 400 | 585  | 18                      | 1 | 23    | 1 | 385                 | 400 | 970  | 30                      | 1 | 35    | 1 | 385                 | 400 | 970  | 30                      | 1 | 35    | 1 |
|   | EVMS(.)3 13/1,5  | 385          | 400 | 770  | 19                      | 1 | 24    | 1 | 400                 | 430 | 1000 | 46                      | 2 | 52    | 2 | 400                 | 430 | 1000 | 46                      | 2 | 52    | 2 |
|   | EVMS(.)3 14/1,5  | 385          | 400 | 770  | 20                      | 1 | 25    | 1 | 400                 | 430 | 1000 | 47                      | 2 | 52    | 2 | 400                 | 430 | 1000 | 47                      | 2 | 52    | 2 |
|   | EVMS(.)3 15/1,5  | 385          | 400 | 770  | 20                      | 1 | 25    | 1 | 400                 | 430 | 1000 | 48                      | 2 | 52    | 2 | 400                 | 430 | 1000 | 48                      | 2 | 52    | 2 |
|   | EVMS(.)3 16/1,5  | 385          | 400 | 770  | 21                      | 1 | 26    | 1 | 400                 | 430 | 1000 | 49                      | 2 | 53    | 2 | 400                 | 430 | 1000 | 49                      | 2 | 53    | 2 |
|   | EVMS(.)3 17/2,2  | 385          | 400 | 770  | 22                      | 1 | 27    | 1 | 400                 | 430 | 1000 | 50                      | 2 | 55    | 2 | 400                 | 430 | 1000 | 50                      | 2 | 55    | 2 |
|   | EVMS(.)3 19/2,2  | 385          | 400 | 770  | 22                      | 1 | 28    | 1 | 400                 | 430 | 1200 | 52                      | 2 | 57    | 2 | 400                 | 430 | 1200 | 52                      | 2 | 57    | 2 |
|   | EVMS(.)3 21/2,2  | 385          | 400 | 770  | 23                      | 1 | 30    | 1 | 400                 | 430 | 1200 | 53                      | 2 | 58    | 2 | 400                 | 430 | 1200 | 53                      | 2 | 58    | 2 |
|   | EVMS(.)3 23/2,2  | 385          | 400 | 970  | 25                      | 1 | 30    | 1 | 400                 | 430 | 1200 | 54                      | 2 | 60    | 2 | 400                 | 430 | 1200 | 54                      | 2 | 60    | 2 |
|   | EVMS(.)3 24/2,2  | 385          | 400 | 970  | 25                      | 1 | 31    | 1 | 400                 | 430 | 1200 | 55                      | 2 | 60    | 2 | 400                 | 430 | 1200 | 55                      | 2 | 60    | 2 |
|   | EVMS(.)3 25/3,0  | 385          | 400 | 970  | 26                      | 1 | 31    | 1 | -                   | -   | -    | -                       | - | -     | - | 400                 | 430 | 1200 | 57                      | 2 | 63    | 2 |
|   | EVMS(.)3 27/3,0  | 385          | 400 | 970  | 27                      | 1 | 32    | 1 | -                   | -   | -    | -                       | - | -     | - | 500                 | 430 | 1350 | 63                      | 2 | 70    | 2 |
|   | EVMS(.)3 29/3,0  | 385          | 400 | 970  | 28                      | 1 | 33    | 1 | -                   | -   | -    | -                       | - | -     | - | 500                 | 430 | 1350 | 64                      | 2 | 70    | 2 |
|   | EVMS(.)3 31/3,0  | 400          | 430 | 1000 | 37                      | 2 | 43    | 2 | -                   | -   | -    | -                       | - | -     | - | 500                 | 430 | 1350 | 65                      | 2 | 71    | 2 |
|   | EVMS(.)3 33/3,0  | 400          | 430 | 1200 | 40                      | 2 | 44    | 2 | -                   | -   | -    | -                       | - | -     | - | 500                 | 430 | 1350 | 66                      | 2 | 71    | 2 |
| 5 | EVMS(.)5 2/0,37  | 385          | 400 | 385  | 13                      | 1 | 20    | 1 | 385                 | 400 | 585  | 21                      | 1 | 28    | 1 | 385                 | 400 | 585  | 21                      | 1 | 28    | 1 |
|   | EVMS(.)5 3/0,55  | 385          | 400 | 385  | 14                      | 1 | 20    | 1 | 385                 | 400 | 770  | 23                      | 1 | 30    | 1 | 385                 | 400 | 770  | 23                      | 1 | 30    | 1 |
|   | EVMS(.)5 4/0,75  | 385          | 400 | 585  | 15                      | 1 | 21    | 1 | 385                 | 400 | 770  | 27                      | 1 | 33    | 1 | 385                 | 400 | 770  | 27                      | 1 | 33    | 1 |
|   | EVMS(.)5 5/1,1   | 385          | 400 | 585  | 16                      | 1 | 22    | 1 | 385                 | 400 | 770  | 28                      | 1 | 34    | 1 | 385                 | 400 | 770  | 28                      | 1 | 34    | 1 |
|   | EVMS(.)5 6/1,5   | 385          | 400 | 585  | 17                      | 1 | 23    | 1 | 400                 | 430 | 1000 | 44                      | 2 | 50    | 2 | 400                 | 430 | 1000 | 44                      | 2 | 50    | 2 |
|   | EVMS(.)5 7/1,5   | 385          | 400 | 585  | 17                      | 1 | 23    | 1 | 400                 | 430 | 1000 | 45                      | 2 | 50    | 2 | 400                 | 430 | 1000 | 45                      | 2 | 50    | 2 |
|   | EVMS(.)5 8/2,2   | 385          | 400 | 585  | 18                      | 1 | 24    | 1 | 400                 | 430 | 1000 | 46                      | 2 | 53    | 2 | 400                 | 430 | 1000 | 46                      | 2 | 53    | 2 |
|   | EVMS(.)5 9/2,2   | 385          | 400 | 585  | 18                      | 1 | 24    | 1 | 400                 | 430 | 1000 | 47                      | 2 | 53    | 2 | 400                 | 430 | 1000 | 47                      | 2 | 53    | 2 |
|   | EVMS(.)5 10/2,2  | 385          | 400 | 770  | 19                      | 1 | 25    | 1 | 400                 | 430 | 1000 | 48                      | 2 | 54    | 2 | 400                 | 430 | 1000 | 48                      | 2 | 54    | 2 |
|   | EVMS(.)5 11/2,2  | 385          | 400 | 770  | 19                      | 1 | 26    | 1 | 400                 | 430 | 1000 | 50                      | 2 | 54    | 2 | 400                 | 430 | 1000 | 50                      | 2 | 54    | 2 |
|   | EVMS(.)5 12/3,0  | 385          | 400 | 770  | 21                      | 1 | 27    | 1 | -                   | -   | -    | -                       | - | -     | - | 400                 | 430 | 1200 | 52                      | 2 | 60    | 2 |
|   | EVMS(.)5 13/3,0  | 385          | 400 | 770  | 21                      | 1 | 28    | 1 | -                   | -   | -    | -                       | - | -     | - | 400                 | 430 | 1200 | 53                      | 2 | 60    | 2 |
|   | EVMS(.)5 14/3,0  | 385          | 400 | 770  | 22                      | 1 | 28    | 1 | -                   | -   | -    | -                       | - | -     | - | 400                 | 430 | 1200 | 54                      | 2 | 60    | 2 |
|   | EVMS(.)5 15/3,0  | 385          | 400 | 770  | 23                      | 1 | 30    | 1 | -                   | -   | -    | -                       | - | -     | - | 400                 | 430 | 1200 | 55                      | 2 | 61    | 2 |
|   | EVMS(.)5 17/4,0  | 385          | 400 | 970  | 24                      | 1 | 30    | 1 | -                   | -   | -    | -                       | - | -     | - | 400                 | 430 | 1200 | 61                      | 2 | 70    | 2 |
|   | EVMS(.)5 19/4,0  | 385          | 400 | 970  | 25                      | 1 | 31    | 1 | -                   | -   | -    | -                       | - | -     | - | 500                 | 430 | 1350 | 68                      | 2 | 75    | 2 |
|   | EVMS(.)5 20/4,0  | 385          |     |      |                         |   |       |   |                     |     |      |                         |   |       |   |                     |     |      |                         |   |       |   |

### PACKING DATA EVMS(.)10-15-20

|                   | Pump type         | Pumps        |      |      |                         |    |       |   | Pumps with motor ~1 |     |      |                         |   |       |     | Pumps with motor ~3 |      |      |                         |     |       |   |
|-------------------|-------------------|--------------|------|------|-------------------------|----|-------|---|---------------------|-----|------|-------------------------|---|-------|-----|---------------------|------|------|-------------------------|-----|-------|---|
|                   |                   | Packing [mm] |      |      | Weight [kg] + Pack Type |    |       |   | Packing [mm]        |     |      | Weight [kg] + Pack Type |   |       |     | Packing [mm]        |      |      | Weight [kg] + Pack Type |     |       |   |
|                   |                   | X            | Y    | Z    | EVMS(L)                 |    | EVMSG |   | X                   | Y   | Z    | EVMS(L)                 |   | EVMSG |     | X                   | Y    | Z    | EVMS(L)                 |     | EVMSG |   |
| 10                | EVMS(.)10 2/0,75  | 385          | 400  | 585  | 21                      | 1  | 27    | 1 | 400                 | 430 | 800  | 41                      | 2 | 48    | 2   | 400                 | 430  | 800  | 41                      | 2   | 48    | 2 |
|                   | EVMS(.)10 3/1,5   | 385          | 400  | 585  | 22                      | 1  | 28    | 1 | 400                 | 430 | 800  | 48                      | 2 | 55    | 2   | 400                 | 430  | 800  | 48                      | 2   | 55    | 2 |
|                   | EVMS(.)10 4/2,2   | 385          | 400  | 585  | 22                      | 1  | 30    | 1 | 400                 | 430 | 800  | 51                      | 2 | 58    | 2   | 400                 | 430  | 800  | 51                      | 2   | 58    | 2 |
|                   | EVMS(.)10 5/2,2   | 385          | 400  | 585  | 23                      | 1  | 30    | 1 | 400                 | 430 | 1000 | 52                      | 2 | 58    | 2   | 400                 | 430  | 1000 | 52                      | 2   | 58    | 2 |
|                   | EVMS(.)10 6/2,2   | 385          | 400  | 585  | 24                      | 1  | 31    | 1 | 400                 | 430 | 1000 | 53                      | 2 | 60    | 2   | 400                 | 430  | 1000 | 53                      | 2   | 60    | 2 |
|                   | EVMS(.)10 7/3,0   | 385          | 400  | 585  | 25                      | 1  | 33    | 1 | -                   | -   | -    | -                       | - | -     | -   | 400                 | 430  | 1000 | 56                      | 2   | 63    | 2 |
|                   | EVMS(.)10 8/3,0   | 385          | 400  | 770  | 25                      | 1  | 33    | 1 | -                   | -   | -    | -                       | - | -     | -   | 400                 | 430  | 1000 | 57                      | 2   | 64    | 2 |
|                   | EVMS(.)10 9/4,0   | 385          | 400  | 770  | 27                      | 1  | 34    | 1 | -                   | -   | -    | -                       | - | -     | -   | 400                 | 430  | 1000 | 64                      | 2   | 72    | 2 |
|                   | EVMS(.)10 10/4,0  | 400          | 430  | 700  | 27                      | 2  | 34    | 2 | -                   | -   | -    | -                       | - | -     | -   | 400                 | 430  | 1200 | 65                      | 2   | 73    | 2 |
|                   | EVMS(.)10 11/4,0  | 400          | 430  | 800  | 38                      | 2  | 45    | 2 | -                   | -   | -    | -                       | - | -     | -   | 400                 | 430  | 1200 | 67                      | 2   | 74    | 2 |
|                   | EVMS(.)10 12/5,5  | 400          | 430  | 1000 | 48                      | 2  | 55    | 2 | -                   | -   | -    | -                       | - | -     | -   | 500                 | 430  | 1350 | 93                      | 2   | 100   | 2 |
|                   | EVMS(.)10 14/5,5  | 400          | 430  | 1000 | 50                      | 2  | 57    | 2 | -                   | -   | -    | -                       | - | -     | -   | 500                 | 430  | 1350 | 95                      | 2   | 102   | 2 |
|                   | EVMS(.)10 15/5,5  | 400          | 430  | 1000 | 52                      | 2  | 57    | 2 | -                   | -   | -    | -                       | - | -     | -   | 500                 | 430  | 1350 | 96                      | 2   | 103   | 2 |
|                   | EVMS(.)10 16/7,5  | 400          | 430  | 1000 | 52                      | 2  | 58    | 2 | -                   | -   | -    | -                       | - | -     | -   | 500                 | 430  | 1540 | 117                     | 2   | 123   | 2 |
|                   | EVMS(.)10 18/7,5  | 400          | 430  | 1200 | 54                      | 2  | 61    | 2 | -                   | -   | -    | -                       | - | -     | -   | 500                 | 430  | 1540 | 118                     | 2   | 125   | 2 |
| EVMS(.)10 19/7,5  | 400               | 430          | 1200 | 55   | 2                       | 62 | 2     | - | -                   | -   | -    | -                       | - | -     | 500 | 430                 | 1540 | 120  | 2                       | 126 | 2     |   |
| EVMS(.)10 21/7,5  | 400               | 430          | 1200 | 57   | 2                       | 64 | 2     | - | -                   | -   | -    | -                       | - | -     | 500 | 430                 | 1540 | 121  | 2                       | 128 | 2     |   |
| EVMS(.)10 22/11   | 400               | 430          | 1200 | 60   | 2                       | 66 | 2     | - | -                   | -   | -    | -                       | - | -     | 610 | 430                 | 1750 | 140  | 2                       | 150 | 2     |   |
| EVMS(.)10 23/11   | 400               | 430          | 1200 | 66   | 2                       | 73 | 2     | - | -                   | -   | -    | -                       | - | -     | 610 | 430                 | 1750 | 147  | 2                       | 156 | 2     |   |
| 15                | EVMS(.)15 1/1,1   | 385          | 400  | 585  | 23                      | 1  | 30    | 1 | 385                 | 400 | 770  | 43                      | 1 | 52    | 1   | 400                 | 430  | 800  | 43                      | 2   | 52    | 2 |
|                   | EVMS(.)15 2/2,2   | 385          | 400  | 585  | 24                      | 1  | 31    | 1 | 385                 | 400 | 770  | 51                      | 1 | 60    | 1   | 400                 | 430  | 800  | 51                      | 2   | 60    | 2 |
|                   | EVMS(.)15 3/3,0   | 385          | 400  | 585  | 25                      | 1  | 32    | 1 | -                   | -   | -    | -                       | - | -     | -   | 400                 | 430  | 1000 | 54                      | 2   | 63    | 2 |
|                   | EVMS(.)15 4/4,0   | 385          | 400  | 585  | 26                      | 1  | 33    | 1 | -                   | -   | -    | -                       | - | -     | -   | 400                 | 430  | 1000 | 62                      | 2   | 70    | 2 |
|                   | EVMS(.)15 5/5,5   | 400          | 430  | 800  | 43                      | 2  | 52    | 2 | -                   | -   | -    | -                       | - | -     | -   | 400                 | 430  | 1200 | 82                      | 2   | 91    | 2 |
|                   | EVMS(.)15 6/5,5   | 400          | 430  | 800  | 45                      | 2  | 53    | 2 | -                   | -   | -    | -                       | - | -     | -   | 400                 | 430  | 1200 | 84                      | 2   | 93    | 2 |
|                   | EVMS(.)15 7/7,5   | 400          | 430  | 800  | 47                      | 2  | 55    | 2 | -                   | -   | -    | -                       | - | -     | -   | 400                 | 430  | 1200 | 93                      | 2   | 103   | 2 |
|                   | EVMS(.)15 8/7,5   | 400          | 430  | 1000 | 48                      | 2  | 56    | 2 | -                   | -   | -    | -                       | - | -     | -   | 400                 | 430  | 1200 | 95                      | 2   | 103   | 2 |
|                   | EVMS(.)15 9/11    | 400          | 430  | 1000 | 50                      | 2  | 58    | 2 | -                   | -   | -    | -                       | - | -     | -   | 500                 | 430  | 1540 | 131                     | 2   | 140   | 2 |
|                   | EVMS(.)15 10/11   | 400          | 430  | 1000 | 52                      | 2  | 60    | 2 | -                   | -   | -    | -                       | - | -     | -   | 500                 | 430  | 1540 | 131                     | 2   | 140   | 2 |
|                   | EVMS(.)15 11/11   | 400          | 430  | 1000 | 60                      | 2  | 67    | 2 | -                   | -   | -    | -                       | - | -     | -   | 500                 | 430  | 1540 | 140                     | 2   | 148   | 2 |
|                   | EVMS(.)15 12/11   | 400          | 430  | 1000 | 60                      | 2  | 68    | 2 | -                   | -   | -    | -                       | - | -     | -   | 500                 | 430  | 1540 | 141                     | 2   | 150   | 2 |
|                   | EVMS(.)15 13/11   | 400          | 430  | 1200 | 62                      | 2  | 70    | 2 | -                   | -   | -    | -                       | - | -     | -   | 500                 | 430  | 1540 | 143                     | 2   | 151   | 2 |
|                   | EVMS(.)15 15/15   | 400          | 430  | 1200 | 65                      | 2  | 73    | 2 | -                   | -   | -    | -                       | - | -     | -   | 610                 | 430  | 1750 | 174                     | 2   | 183   | 2 |
|                   | EVMS(.)15 17/15   | 400          | 430  | 1200 | 68                      | 2  | 76    | 2 | -                   | -   | -    | -                       | - | -     | -   | 610                 | 430  | 1750 | 177                     | 2   | 185   | 2 |
| 20                | EVMS(.)20 1/1,5   | 385          | 400  | 585  | 23                      | 1  | 30    | 1 | 385                 | 400 | 770  | 50                      | 1 | 57    | 1   | 400                 | 430  | 800  | 50                      | 2   | 57    | 2 |
|                   | EVMS(.)20 2/3,0   | 385          | 400  | 585  | 24                      | 1  | 31    | 1 | -                   | -   | -    | -                       | - | -     | -   | 400                 | 430  | 1000 | 53                      | 2   | 62    | 2 |
|                   | EVMS(.)20 3/4,0   | 385          | 400  | 585  | 25                      | 1  | 33    | 1 | -                   | -   | -    | -                       | - | -     | -   | 400                 | 430  | 1000 | 62                      | 2   | 70    | 2 |
|                   | EVMS(.)20 4/5,5   | 400          | 430  | 800  | 38                      | 2  | 47    | 2 | -                   | -   | -    | -                       | - | -     | -   | 400                 | 430  | 1200 | 78                      | 2   | 87    | 2 |
|                   | EVMS(.)20 5/7,5   | 400          | 430  | 800  | 40                      | 2  | 48    | 2 | -                   | -   | -    | -                       | - | -     | -   | 400                 | 430  | 1200 | 86                      | 2   | 95    | 2 |
|                   | EVMS(.)20 6/7,5   | 400          | 430  | 800  | 42                      | 2  | 50    | 2 | -                   | -   | -    | -                       | - | -     | -   | 400                 | 430  | 1200 | 87                      | 2   | 96    | 2 |
|                   | EVMS(.)20 7/11    | 400          | 430  | 1000 | 43                      | 2  | 52    | 2 | -                   | -   | -    | -                       | - | -     | -   | 500                 | 430  | 1540 | 125                     | 2   | 133   | 2 |
|                   | EVMS(.)20 8/11    | 400          | 430  | 1000 | 55                      | 2  | 63    | 2 | -                   | -   | -    | -                       | - | -     | -   | 500                 | 430  | 1540 | 137                     | 2   | 145   | 2 |
|                   | EVMS(.)20 9/11    | 400          | 430  | 1000 | 56                      | 2  | 65    | 2 | -                   | -   | -    | -                       | - | -     | -   | 500                 | 430  | 1540 | 138                     | 2   | 146   | 2 |
|                   | EVMS(.)20 10/11   | 400          | 430  | 1000 | 58                      | 2  | 66    | 2 | -                   | -   | -    | -                       | - | -     | -   | 500                 | 430  | 1540 | 140                     | 2   | 148   | 2 |
|                   | EVMS(.)20 11/15   | 400          | 430  | 1000 | 60                      | 2  | 67    | 2 | -                   | -   | -    | -                       | - | -     | -   | 500                 | 430  | 1540 | 167                     | 2   | 175   | 2 |
|                   | EVMS(.)20 12/15   | 400          | 430  | 1000 | 60                      | 2  | 70    | 2 | -                   | -   | -    | -                       | - | -     | -   | 500                 | 430  | 1540 | 168                     | 2   | 177   | 2 |
|                   | EVMS(.)20 13/15   | 400          | 430  | 1200 | 63                      | 2  | 71    | 2 | -                   | -   | -    | -                       | - | -     | -   | 500                 | 430  | 1540 | 170                     | 2   | 178   | 2 |
|                   | EVMS(.)20 14/18,5 | 400          | 430  | 1200 | 64                      | 2  | 73    | 2 | -                   | -   | -    | -                       | - | -     | -   | 610                 | 430  | 1750 | 188                     | 2   | 196   | 2 |
|                   | EVMS(.)20 15/18,5 | 400          | 430  | 1200 | 65                      | 2  | 74    | 2 | -                   | -   | -    | -                       | - | -     | -   | 610                 | 430  | 1750 | 190                     | 2   | 198   | 2 |
| EVMS(.)20 16/18,5 | 400               | 430          | 1200 | 67   | 2                       | 75 | 2     | - | -                   | -   | -    | -                       | - | -     | 610 | 430                 | 1750 | 191  | 2                       | 200 | 2     |   |

### PACKING DATA EVMS(.)32-45

|                  | Pump type          | Pumps        |      |       |                         |       |       |     | Pumps with motor ~3 |      |       |                         |       |       |   |
|------------------|--------------------|--------------|------|-------|-------------------------|-------|-------|-----|---------------------|------|-------|-------------------------|-------|-------|---|
|                  |                    | Packing [mm] |      |       | Weight [kg] + Pack Type |       |       |     | Packing [mm]        |      |       | Weight [kg] + Pack Type |       |       |   |
|                  |                    | X            | Y    | Z     | EVMS(L)                 |       | EVMSG |     | X                   | Y    | Z     | EVMS(L)                 |       | EVMSG |   |
| 32               | EVMS(.32 1-1/1,5   | 420          | 512  | 800   | 55,1                    | 2     | 51,8  | 2   | 500                 | 612  | 1000  | 71,3                    | 2     | 68,0  | 2 |
|                  | EVMS(.32 1-0/2,2   | 420          | 512  | 800   | 55,1                    | 2     | 51,8  | 2   | 500                 | 612  | 1000  | 72,8                    | 2     | 69,5  | 2 |
|                  | EVMS(.32 2-2/3,0   | 420          | 512  | 800   | 58,4                    | 2     | 55,1  | 2   | 500                 | 612  | 1000  | 83,1                    | 2     | 79,8  | 2 |
|                  | EVMS(.32 2-0/4,0   | 420          | 512  | 800   | 58,4                    | 2     | 55,1  | 2   | 500                 | 612  | 1000  | 89,6                    | 2     | 86,3  | 2 |
|                  | EVMS(.32 3-2/5,5   | 420          | 512  | 800   | 72,3                    | 2     | 68,9  | 2   | 500                 | 612  | 1200  | 115,7                   | 2     | 112,3 | 2 |
|                  | EVMS(.32 3-0/5,5   | 420          | 512  | 800   | 72,3                    | 2     | 68,9  | 2   | 500                 | 612  | 1200  | 115,7                   | 2     | 112,3 | 2 |
|                  | EVMS(.32 4-2/7,5   | 500          | 612  | 1000  | 78,2                    | 2     | 74,9  | 2   | 500                 | 612  | 1350  | 136,8                   | 2     | 133,5 | 2 |
|                  | EVMS(.32 4-0/7,5   | 500          | 612  | 1000  | 78,2                    | 2     | 74,9  | 2   | 500                 | 612  | 1350  | 136,8                   | 2     | 133,5 | 2 |
|                  | EVMS(.32 5-2/11    | 500          | 612  | 1000  | 88,2                    | 2     | 84,9  | 2   | 500                 | 617  | 1540  | 162,7                   | 2     | 159,4 | 2 |
|                  | EVMS(.32 5-0/11    | 500          | 612  | 1000  | 88,2                    | 2     | 84,9  | 2   | 500                 | 617  | 1540  | 162,7                   | 2     | 159,4 | 2 |
|                  | EVMS(.32 6-2/11    | 500          | 612  | 1200  | 93,2                    | 2     | 89,9  | 2   | 500                 | 617  | 1540  | 166,0                   | 2     | 162,7 | 2 |
|                  | EVMS(.32 6-0/11    | 500          | 612  | 1200  | 93,2                    | 2     | 89,9  | 2   | 500                 | 617  | 1540  | 166,0                   | 2     | 162,7 | 2 |
|                  | EVMS(.32 7-2/15    | 500          | 612  | 1200  | 96,5                    | 2     | 93,1  | 2   | 610                 | 617  | 1750  | 209,6                   | 2     | 206,2 | 2 |
|                  | EVMS(.32 7-0/15    | 500          | 612  | 1200  | 96,5                    | 2     | 93,1  | 2   | 610                 | 617  | 1750  | 209,6                   | 2     | 206,2 | 2 |
|                  | EVMS(.32 8-2/15    | 500          | 612  | 1200  | 101,3                   | 2     | 98,0  | 2   | 610                 | 617  | 1750  | 214,4                   | 2     | 211,1 | 2 |
|                  | EVMS(.32 8-0/15    | 500          | 612  | 1200  | 101,3                   | 2     | 98,0  | 2   | 610                 | 617  | 1750  | 214,4                   | 2     | 211,1 | 2 |
|                  | EVMS(.32 9-2/15    | 500          | 612  | 1350  | 115,7                   | 2     | 112,4 | 2   | 610                 | 617  | 1750  | 217,9                   | 2     | 214,6 | 2 |
|                  | EVMS(.32 9-1/15    | 500          | 612  | 1350  | 115,7                   | 2     | 112,4 | 2   | 610                 | 617  | 1750  | 217,9                   | 2     | 214,6 | 2 |
|                  | EVMS(.32 10-2/18,5 | 500          | 612  | 1350  | 119,1                   | 2     | 115,8 | 2   | 720                 | 715  | 1970  | 274,3                   | 3     | 271,0 | 3 |
|                  | EVMS(.32 10-0/18,5 | 500          | 612  | 1350  | 119,1                   | 2     | 115,8 | 2   | 720                 | 715  | 1970  | 274,3                   | 3     | 271,0 | 3 |
|                  | EVMS(.32 11-2/18,5 | 500          | 617  | 1540  | 122,0                   | 2     | 118,7 | 2   | 720                 | 715  | 1970  | 277,8                   | 3     | 274,5 | 3 |
|                  | EVMS(.32 11-1/18,5 | 500          | 617  | 1540  | 122,0                   | 2     | 118,7 | 2   | 720                 | 715  | 1970  | 277,8                   | 3     | 274,5 | 3 |
|                  | EVMS(.32 12-2/22   | 500          | 617  | 1540  | 128,0                   | 2     | 124,7 | 2   | 720                 | 715  | 2170  | 315,8                   | 3     | 312,5 | 3 |
|                  | EVMS(.32 12-0/22   | 500          | 617  | 1540  | 128,0                   | 2     | 124,7 | 2   | 720                 | 715  | 2170  | 315,8                   | 3     | 312,5 | 3 |
|                  | EVMS(.32 13-2/22   | 500          | 617  | 1540  | 131,8                   | 2     | 128,4 | 2   | 720                 | 715  | 2170  | 319,6                   | 3     | 316,2 | 3 |
|                  | EVMS(.32 13-0/22   | 500          | 617  | 1540  | 131,8                   | 2     | 128,4 | 2   | 720                 | 715  | 2170  | 319,6                   | 3     | 316,2 | 3 |
| EVMS(.32 14-2/30 | 610                | 617          | 1750 | 142,5 | 2                       | 139,2 | 2     | 800 | 750                 | 2420 | 371,5 | 4                       | 368,2 | 4     |   |
| EVMS(.32 14-0/30 | 610                | 617          | 1750 | 142,5 | 2                       | 139,2 | 2     | 800 | 750                 | 2420 | 371,5 | 4                       | 368,2 | 4     |   |
| 45               | EVMS(.45 1-1/3,0   | 420          | 512  | 800   | 68,9                    | 2     | 66,7  | 2   | 500                 | 612  | 1000  | 93,6                    | 2     | 91,4  | 2 |
|                  | EVMS(.45 1-0/4,0   | 420          | 512  | 800   | 68,9                    | 2     | 66,7  | 2   | 500                 | 612  | 1000  | 100,1                   | 2     | 97,9  | 2 |
|                  | EVMS(.45 2-2/5,5   | 420          | 512  | 800   | 84,2                    | 2     | 82,1  | 2   | 500                 | 612  | 1200  | 127,6                   | 2     | 125,5 | 2 |
|                  | EVMS(.45 2-0/7,5   | 420          | 512  | 800   | 84,2                    | 2     | 82,1  | 2   | 500                 | 612  | 1350  | 134,6                   | 2     | 132,5 | 2 |
|                  | EVMS(.45 3-2/11    | 500          | 612  | 1000  | 99,1                    | 2     | 96,9  | 2   | 500                 | 612  | 1350  | 174,2                   | 2     | 172,0 | 2 |
|                  | EVMS(.45 3-0/11    | 500          | 612  | 1000  | 99,1                    | 2     | 96,9  | 2   | 500                 | 612  | 1350  | 174,2                   | 2     | 172,0 | 2 |
|                  | EVMS(.45 4-2/15    | 500          | 612  | 1000  | 105,6                   | 2     | 103,5 | 2   | 500                 | 617  | 1540  | 218,6                   | 2     | 216,5 | 2 |
|                  | EVMS(.45 4-0/15    | 500          | 612  | 1000  | 105,6                   | 2     | 103,5 | 2   | 500                 | 617  | 1540  | 218,6                   | 2     | 216,5 | 2 |
|                  | EVMS(.45 5-2/18,5  | 500          | 612  | 1200  | 112,6                   | 2     | 110,4 | 2   | 500                 | 617  | 1540  | 231,9                   | 2     | 229,7 | 2 |
|                  | EVMS(.45 5-0/18,5  | 500          | 612  | 1200  | 112,6                   | 2     | 110,5 | 2   | 500                 | 617  | 1540  | 231,9                   | 2     | 229,8 | 2 |
|                  | EVMS(.45 6-2/22    | 500          | 612  | 1200  | 118,0                   | 2     | 115,9 | 2   | 610                 | 617  | 1750  | 265,1                   | 2     | 263,0 | 2 |
|                  | EVMS(.45 6-0/22    | 500          | 612  | 1200  | 118,0                   | 2     | 115,9 | 2   | 610                 | 617  | 1750  | 265,1                   | 2     | 263,0 | 2 |
|                  | EVMS(.45 7-2/30    | 500          | 612  | 1200  | 128,6                   | 2     | 126,5 | 2   | 610                 | 617  | 1750  | 308,7                   | 2     | 306,6 | 2 |
|                  | EVMS(.45 7-0/30    | 500          | 612  | 1200  | 128,6                   | 2     | 126,5 | 2   | 610                 | 617  | 1750  | 308,7                   | 2     | 306,6 | 2 |
|                  | EVMS(.45 8-2/30    | 500          | 612  | 1350  | 144,8                   | 2     | 142,7 | 2   | 720                 | 715  | 1970  | 359,0                   | 3     | 356,9 | 3 |
|                  | EVMS(.45 8-0/30    | 500          | 612  | 1350  | 144,8                   | 2     | 142,7 | 2   | 720                 | 715  | 1970  | 359,0                   | 3     | 356,9 | 3 |
|                  | EVMS(.45 9-2/30    | 500          | 612  | 1350  | 150,3                   | 2     | 148,2 | 2   | 720                 | 715  | 1970  | 364,5                   | 3     | 362,4 | 3 |
|                  | EVMS(.45 9-0/37    | 500          | 612  | 1350  | 161,8                   | 2     | 159,6 | 2   | 720                 | 715  | 2170  | 474,0                   | 3     | 471,8 | 3 |
|                  | EVMS(.45 10-2/37   | 500          | 617  | 1540  | 166,4                   | 2     | 164,3 | 2   | 720                 | 715  | 2170  | 479,2                   | 3     | 477,1 | 3 |
|                  | EVMS(.45 10-0/37   | 500          | 617  | 1540  | 166,4                   | 2     | 164,3 | 2   | 720                 | 715  | 2170  | 479,2                   | 3     | 477,1 | 3 |
|                  | EVMS(.45 11-2/45   | 500          | 617  | 1540  | 177,3                   | 2     | 175,1 | 2   | 800                 | 750  | 2420  | 614,1                   | 4     | 611,9 | 4 |
|                  | EVMS(.45 11-0/45   | 500          | 617  | 1540  | 177,3                   | 2     | 175,1 | 2   | 800                 | 750  | 2420  | 614,1                   | 4     | 611,9 | 4 |
|                  | EVMS(.45 12-2/45   | 500          | 617  | 1540  | 182,6                   | 2     | 180,4 | 2   | 800                 | 750  | 2420  | 619,4                   | 4     | 617,2 | 4 |
|                  | EVMS(.45 12-0/45   | 500          | 617  | 1540  | 182,6                   | 2     | 180,4 | 2   | 800                 | 750  | 2420  | 619,4                   | 4     | 617,2 | 4 |
|                  | EVMS(.45 13-2/45   | 610          | 617  | 1750  | 189,7                   | 2     | 187,5 | 2   | 800                 | 750  | 2420  | 624,7                   | 4     | 622,5 | 4 |

### PACKING DATA EVMS(.)64-90

|                 | Pump type         | Pumps        |      |       |                         |       |       |     | Pumps with motor ~3 |      |       |                         |       |       |   |
|-----------------|-------------------|--------------|------|-------|-------------------------|-------|-------|-----|---------------------|------|-------|-------------------------|-------|-------|---|
|                 |                   | Packing [mm] |      |       | Weight [kg] + Pack Type |       |       |     | Packing [mm]        |      |       | Weight [kg] + Pack Type |       |       |   |
|                 |                   | X            | Y    | Z     | EVMS(L)                 |       | EVMSG |     | X                   | Y    | Z     | EVMS(L)                 |       | EVMSG |   |
| 64              | EVMS(.64 1-1/4,0  | 420          | 512  | 800   | 74,3                    | 2     | 71,3  | 2   | 500                 | 612  | 1000  | 105,5                   | 2     | 102,5 | 2 |
|                 | EVMS(.64 1-0/5,5  | 420          | 512  | 800   | 84,1                    | 2     | 81,1  | 2   | 500                 | 612  | 1200  | 127,5                   | 2     | 124,5 | 2 |
|                 | EVMS(.64 2-2/7,5  | 420          | 612  | 1000  | 91,9                    | 2     | 88,9  | 2   | 500                 | 612  | 1350  | 150,5                   | 2     | 147,5 | 2 |
|                 | EVMS(.64 2-1/11   | 500          | 612  | 1000  | 99,2                    | 2     | 96,2  | 2   | 500                 | 612  | 1350  | 174,3                   | 2     | 171,3 | 2 |
|                 | EVMS(.64 2-0/15   | 500          | 612  | 1000  | 99,2                    | 2     | 96,2  | 2   | 500                 | 612  | 1350  | 212,8                   | 2     | 209,8 | 2 |
|                 | EVMS(.64 3-2/15   | 500          | 612  | 1000  | 104,3                   | 2     | 101,3 | 2   | 500                 | 617  | 1540  | 217,3                   | 2     | 214,3 | 2 |
|                 | EVMS(.64 3-1/15   | 500          | 612  | 1000  | 104,3                   | 2     | 101,3 | 2   | 500                 | 617  | 1540  | 217,3                   | 2     | 214,3 | 2 |
|                 | EVMS(.64 3-0/18,5 | 500          | 612  | 1000  | 104,3                   | 2     | 101,3 | 2   | 500                 | 617  | 1540  | 225,3                   | 2     | 222,3 | 2 |
|                 | EVMS(.64 4-2/18,5 | 500          | 612  | 1000  | 109,4                   | 2     | 106,4 | 2   | 500                 | 617  | 1540  | 230,4                   | 2     | 227,4 | 2 |
|                 | EVMS(.64 4-1/22   | 500          | 612  | 1000  | 109,6                   | 2     | 106,6 | 2   | 500                 | 617  | 1540  | 256,6                   | 2     | 253,6 | 2 |
|                 | EVMS(.64 4-0/22   | 500          | 612  | 1000  | 109,6                   | 2     | 106,6 | 2   | 500                 | 617  | 1540  | 256,6                   | 2     | 253,6 | 2 |
|                 | EVMS(.64 5-2/30   | 500          | 612  | 1200  | 121,8                   | 2     | 118,8 | 2   | 610                 | 617  | 1750  | 301,9                   | 2     | 298,9 | 2 |
|                 | EVMS(.64 5-1/30   | 500          | 612  | 1200  | 121,8                   | 2     | 118,8 | 2   | 610                 | 617  | 1750  | 301,9                   | 2     | 298,9 | 2 |
|                 | EVMS(.64 5-0/30   | 500          | 612  | 1200  | 121,8                   | 2     | 118,8 | 2   | 610                 | 617  | 1750  | 301,9                   | 2     | 298,9 | 2 |
|                 | EVMS(.64 6-2/30   | 500          | 612  | 1200  | 132,1                   | 2     | 130,4 | 2   | 610                 | 617  | 1750  | 312,2                   | 2     | 310,5 | 2 |
|                 | EVMS(.64 6-1/37   | 500          | 612  | 1200  | 144,1                   | 2     | 142,5 | 2   | 720                 | 715  | 1970  | 461,2                   | 3     | 459,6 | 3 |
|                 | EVMS(.64 6-0/37   | 500          | 612  | 1200  | 144,1                   | 2     | 142,5 | 2   | 720                 | 715  | 1970  | 461,2                   | 3     | 459,6 | 3 |
|                 | EVMS(.64 7-2/37   | 500          | 612  | 1200  | 149,5                   | 2     | 147,8 | 2   | 720                 | 715  | 1970  | 466,6                   | 3     | 464,9 | 3 |
|                 | EVMS(.64 7-1/37   | 500          | 612  | 1200  | 149,5                   | 2     | 147,8 | 2   | 720                 | 715  | 1970  | 466,6                   | 3     | 464,9 | 3 |
|                 | EVMS(.64 7-0/45   | 500          | 612  | 1200  | 155,1                   | 2     | 153,4 | 2   | 720                 | 715  | 2170  | 592,2                   | 3     | 590,5 | 3 |
| EVMS(.64 8-2/45 | 500               | 612          | 1350 | 171,7 | 2                       | 170,1 | 2     | 720 | 715                 | 2170 | 597,9 | 3                       | 596,3 | 3     |   |
| EVMS(.64 8-1/45 | 500               | 612          | 1350 | 171,2 | 2                       | 169,6 | 2     | 720 | 715                 | 2170 | 597,4 | 3                       | 595,8 | 3     |   |
| EVMS(.64 8-0/45 | 500               | 612          | 1350 | 171,2 | 2                       | 169,6 | 2     | 720 | 715                 | 2170 | 597,4 | 3                       | 595,8 | 3     |   |
| 90              | EVMS(.90 1-1/5,5  | 420          | 512  | 800   | 84,4                    | 2     | 81,4  | 2   | 500                 | 612  | 1350  | 138,7                   | 2     | 135,7 | 2 |
|                 | EVMS(.90 1-0/7,5  | 420          | 512  | 800   | 84,4                    | 2     | 81,4  | 2   | 500                 | 612  | 1350  | 145,7                   | 2     | 142,7 | 2 |
|                 | EVMS(.90 2-2/11   | 500          | 612  | 1000  | 99,4                    | 2     | 96,4  | 2   | 500                 | 612  | 1350  | 174,5                   | 2     | 171,5 | 2 |
|                 | EVMS(.90 2-0/15   | 500          | 612  | 1000  | 99,4                    | 2     | 96,4  | 2   | 500                 | 612  | 1350  | 213,0                   | 2     | 210,0 | 2 |
|                 | EVMS(.90 3-2/18,5 | 500          | 612  | 1000  | 105,0                   | 2     | 102,0 | 2   | 500                 | 617  | 1540  | 226,0                   | 2     | 223,0 | 2 |
|                 | EVMS(.90 3-0/22   | 500          | 612  | 1000  | 104,8                   | 2     | 101,8 | 2   | 500                 | 617  | 1540  | 251,8                   | 2     | 248,8 | 2 |
|                 | EVMS(.90 4-2/30   | 500          | 612  | 1200  | 117,0                   | 2     | 114,0 | 2   | 610                 | 617  | 1750  | 297,1                   | 2     | 294,1 | 2 |
|                 | EVMS(.90 4-0/30   | 500          | 612  | 1200  | 117,1                   | 2     | 114,0 | 2   | 610                 | 617  | 1750  | 297,2                   | 2     | 294,1 | 2 |
|                 | EVMS(.90 5-2/37   | 500          | 612  | 1200  | 140,7                   | 2     | 137,7 | 2   | 720                 | 715  | 1970  | 457,8                   | 3     | 454,8 | 3 |
|                 | EVMS(.90 5-0/37   | 500          | 612  | 1200  | 139,5                   | 2     | 137,9 | 2   | 720                 | 715  | 1970  | 456,6                   | 3     | 455,0 | 3 |
|                 | EVMS(.90 6-2/45   | 500          | 612  | 1350  | 161,5                   | 2     | 159,8 | 2   | 720                 | 715  | 2170  | 587,7                   | 3     | 586,0 | 3 |
|                 | EVMS(.90 6-0/45   | 500          | 612  | 1350  | 161,5                   | 2     | 159,8 | 2   | 720                 | 715  | 2170  | 587,7                   | 3     | 586,0 | 3 |

## GENERAL

Various regulatory authorities in many countries have introduced or are planning legislation to encourage the manufacture and use of higher efficiency motors, as part of a concerted effort worldwide to reduce energy consumption. Indeed, the International Electrotechnical Commission (IEC) has introduced a new standards relating to energy efficient motors. **IEC 60034-30** defines new efficiency classes for motors and harmonizes the currently different requirements for induction motor efficiency levels around the world.

The **Commission Regulation (EC) N. 640/2009** implementing EcoDesign Directive 2009/125/EC states that in the European Community, with the exception of some special applications, motors shall not be less efficient than the IE3 efficiency level as from 1 January 2015.

In detail:

IE3 by January 1, 2015 (for motors from 7.5 kW to 375 kW).

IE3 for all motors by January 1, 2017 (for motors from 0.75 kW to 375 kW).

|              |                          | MOTOR                                         |                                                                  |
|--------------|--------------------------|-----------------------------------------------|------------------------------------------------------------------|
| Power Source | Frequency                | 50 Hz                                         |                                                                  |
|              | Phase                    | Single Phase                                  | Three Phase                                                      |
|              | Power rating             | 0.37 ÷ 2.2 kW<br>0.5 ÷ 3.0 HP                 | 0.37 ÷ 45 kW<br>0.5 ÷ 60 HP                                      |
|              | Voltage                  | 230 ± 10% V                                   | 230/400 ± 10% V (up to 4.0 kW)<br>400/690 ± 10% V (above 5.5 kW) |
| Type         | Type                     | IC411 - TEFC                                  |                                                                  |
|              | Efficiency Level         | from 0.37 kW up to 2.2 kW                     | IE2 : from 0.37 kW up to 0.55 kW<br>IE3 : above 0.75 kW          |
|              | No° of poles             | 2                                             |                                                                  |
|              | Protection degree        | IP55 : up to 11 kW<br>IP56 : above 15 kW      |                                                                  |
|              | Insulation Class         | F (temperature rise class B)                  |                                                                  |
| Others       | Thermal Protection       | -                                             | PTC sensor pre-installed for motors of 1.5 kW and above          |
|              | Casing Material          | Aluminium                                     | Aluminium : up to 30 KW<br>Cast Iron : above 37 KW               |
|              | Flange mount (IEC motor) | IM B14 : up to 4.0 kW<br>IM B5 : above 5.5 kW |                                                                  |
|              | Terminal Box fixing      | -                                             | Unlosable screw and sealing from 0.75 kW to 45 kW                |

## NOISE DATA

| Motor Size | Power |      | Noise<br>LpA - dB(A) * |
|------------|-------|------|------------------------|
|            | [kW]  | [HP] |                        |
| 71         | 0.37  | 0.5  | 52                     |
|            | 0.55  | 0.75 |                        |
| 80         | 0.75  | 1    | 52                     |
|            | 1.1   | 1.5  |                        |
| 90         | 1.5   | 2    | 60                     |
|            | 2.2   | 3    |                        |
| 100        | 3.0   | 4    | 62                     |
| 112        | 4.0   | 5.5  | 66                     |
| 132        | 5.5   | 7.5  | 68                     |
|            | 7.5   | 10   |                        |
| 160        | 11    | 15   | 73                     |
|            | 15    | 20   | 72                     |
|            | 18.5  | 25   | 70                     |
| 180        | 22    | 30   | 70                     |
| 200        | 30    | 40   | 70                     |
|            | 37    | 50   | 73                     |
| 225        | 45    | 60   | 75                     |

\* Noise values were measured with a tolerance of ± 2.5 dB (A).

### TECHNICAL MOTOR DATA EVMS 1-3-5-10-15-20-32-45-64-90

#### Single Phase Motor at 50Hz, 2 poles

(only for EVMS(.)1-3-5-10-15-20)

| Motor<br>Size | Power |      | Capacitor |     | Load efficiency<br>and power-factor |               | Input<br>[kW] | Full load current<br>[A] | Locked rotor current<br>[A] |
|---------------|-------|------|-----------|-----|-------------------------------------|---------------|---------------|--------------------------|-----------------------------|
|               | [kW]  | [HP] | [μF]      | [V] | η %<br>100%                         | cos-φ<br>100% |               | 230 V                    | 230 V                       |
| 71            | 0.37  | 0.5  | 12        | 400 | 65.0                                | 0.95          | 0.57          | 2.2                      | 7.0                         |
|               | 0.55  | 0.75 | 16        | 400 | 68.0                                | 0.95          | 0.81          | 4.2                      | 14.7                        |
| 80            | 0.75  | 1    | 20        | 400 | 67.0                                | 0.94          | 1.12          | 5.0                      | 20.0                        |
|               | 1.1   | 1.5  | 30        | 400 | 74.8                                | 0.98          | 1.49          | 6.8                      | 31.0                        |
| 90 S          | 1.5   | 2    | 35        | 400 | 79.0                                | 0.97          | 1.90          | 8.8                      | 46.0                        |
| 90 L          | 2.2   | 3    | 40        | 400 | 78.0                                | 0.97          | 2.82          | 12.9                     | 61.0                        |

• Single phase motors manufactured by EBARA

#### Three Phase Motor at 50Hz, 2 poles

| Motor<br>Size | Power |      | Efficiency | Load efficiency<br>and power-factor (400V) |      |      |       | Input<br>[kW] | Full load current<br>[A] |      |      | Locked rotor current<br>[A] |       |       |
|---------------|-------|------|------------|--------------------------------------------|------|------|-------|---------------|--------------------------|------|------|-----------------------------|-------|-------|
|               | [kW]  | [HP] |            | η %                                        |      |      | cos-φ |               | 230 V                    | 400V | 690V | 230 V                       | 400V  | 690V  |
| 71            | 0.37  | 0.5  | IE2        | 63.0                                       | 70.0 | 74.0 | 0.8   | 0.50          | 1.94                     | 1.12 | -    | 10.7                        | 6.2   | -     |
| 71            | 0.55  | 0.75 | IE2        | 75.7                                       | 78.1 | 77.4 | 0.8   | 0.71          | 2.16                     | 1.25 | -    | 11.9                        | 6.9   | -     |
| 80            | 0.75  | 1    | IE3        | 80.2                                       | 82.5 | 82.1 | 0.8   | 0.91          | 3.0                      | 1.7  | -    | 19.7                        | 11.4  | -     |
|               | 1.1   | 1.5  | IE3        | 81.3                                       | 82.8 | 82.7 | 0.8   | 1.33          | 4.3                      | 2.5  | -    | 28.8                        | 16.6  | -     |
| 90            | 1.5   | 2    | IE3        | 83.5                                       | 84.3 | 84.6 | 0.8   | 1.77          | 5.8                      | 3.3  | -    | 44.1                        | 25.5  | -     |
|               | 2.2   | 3    | IE3        | 85.7                                       | 86.8 | 86.0 | 0.8   | 2.56          | 8.2                      | 4.7  | -    | 63.3                        | 36.6  | -     |
| 100           | 3.0   | 4    | IE3        | 85.9                                       | 87.5 | 87.1 | 0.8   | 3.44          | 11.1                     | 6.4  | -    | 89.8                        | 51.8  | -     |
| 112           | 4.0   | 5.5  | IE3        | 86.0                                       | 88.3 | 88.1 | 0.8   | 4.54          | 15.1                     | 8.7  | -    | 131.8                       | 76.1  | -     |
| 132           | 5.5   | 7.5  | IE3        | 88.9                                       | 90.3 | 90.0 | 0.9   | 6.11          | -                        | 10.4 | 6.0  | -                           | 115.3 | 66.6  |
|               | 7.5   | 10   | IE3        | 89.0                                       | 90.7 | 90.4 | 0.9   | 8.30          | -                        | 13.6 | 7.9  | -                           | 144   | 83.1  |
| 160           | 11    | 15   | IE3        | 90.1                                       | 91.4 | 91.2 | 0.8   | 12.06         | -                        | 21.3 | 12.3 | -                           | 184   | 106.2 |
| 160           | 15    | 20   | IE3        | 91.5                                       | 92.0 | 91.9 | 0.9   | 16.32         | -                        | 26.2 | 15.2 | -                           | 215   | 124   |
| 160           | 18.5  | 25   | IE3        | 90.9                                       | 92.4 | 92.4 | 0.9   | 20.02         | -                        | 32.8 | 19.0 | -                           | 299   | 173   |
| 180           | 22    | 30   | IE3        | 92.5                                       | 92.9 | 92.7 | 0.9   | 23.73         | -                        | 38.5 | 22.3 | -                           | 347   | 201   |
| 200           | 30    | 40   | IE3        | 93.1                                       | 93.4 | 93.3 | 0.9   | 32.15         | -                        | 51.0 | 29.6 | -                           | 459   | 266   |
| 200           | 37    | 50   | IE3        | 92.0                                       | 93.4 | 93.7 | 0.9   | 39.49         | -                        | 64.0 | 37.1 | -                           | 524   | 303   |
| 225           | 45    | 60   | IE3        | 93.8                                       | 93.9 | 94.0 | 0.9   | 47.87         | -                        | 77.0 | 44.5 | -                           | 601   | 347   |

♦ MOTOR DATA ETM



**50** Hz

## VERTICAL MULTISTAGE PUMPS

NOTE

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## VERTICAL MULTISTAGE PUMPS

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50 Hz

NOTE

**50** Hz

## VERTICAL MULTISTAGE PUMPS

NOTE