

# Flow switches made of metal

For insertion installation



Technical data	
<b>Switching function</b>	Contact → closes at increasing flow → opens at decreasing flow Reversing possible
<b>Pressure rating</b>	PN 25
Temperature ranges	
<b>Medium</b>	-25...110 °C
<b>Ambient</b>	-25...80 °C
Electrical data	
<b>Electrical connection</b> → VHS → VH3	Plug connector DIN EN 175301-803-A incl. cable socket 1.5 m PVC jacket cable
<b>Switching current</b>	Max. 1 A
<b>Switching voltage</b>	Max. 230 VAC, 48 VDC
<b>Rating</b>	Max. 26 VA, 20 W
<b>Degree of protection EN 60529</b>	IP65
<b>Protection class EN 60730-1</b>	Class II
Approvals	



## Benefits

- Direct installation into pipe lines DN 50...150
- Threaded adapters for tees and direct insertion into pipes
- Alternatively soldering adapter or welding adapter
- Easy installation due to union nut
- Various connectors or 1.5 m jacket cable

Options	
<b>Electrical connection (version VHS)</b>	→ Plug connector DIN EN 175301-803-A incl. cable socket with two LED for switching voltages 24 V...230 V AC/DC ±20 %, ambient temperature -20...70 °C → 4-pin-sensor plug M12 x 1
<b>For use in potentially explosive atmospheres</b>	Version VH...X

## Setpoint ranges

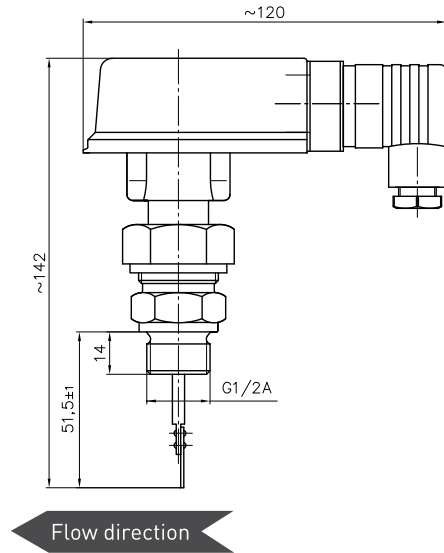
Type	Process connection	Insert in Nominal diameter	Setpoint ranges [m³/h]*		Max. flow rate [m³/h]
			Increasing flow ON	Decreasing flow OFF	
<b>VH305 / VHS05</b>	Threaded adapter G½**	DN 50	1.9...2.7	1.8...2.6	30
		DN 80	5.0...8.0	4.9...7.9	80
		DN 100	8.3...12.5	8.2...12.4	150
		DN 150	17.5...25.0	17.4...24.9	200
<b>VHS01</b>	Soldering adapter / welding adapter	DN 50	3.8...4.9	3.7...4.8	30
		DN 80	9.0...14.3	8.9...14.2	100
		DN 100	13.0...18.8	12.7...18.4	150
		DN 150	33.0...46.0	32.9...45.9	200

\* Water, 20 °C, horizontal pipe, tolerance ±15 %

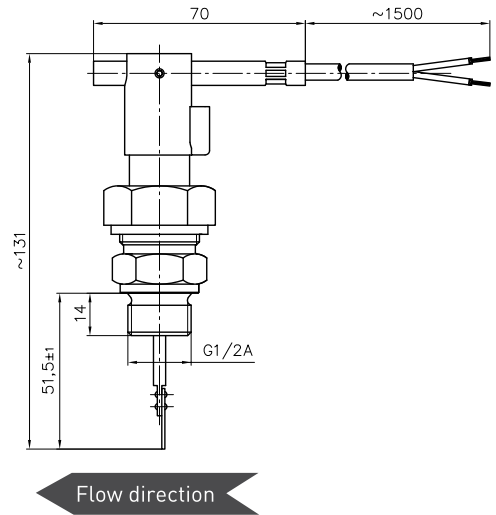
\*\* Installation into welded socket according to EN 10241, G½ female, length 15 mm

## Dimensions and materials

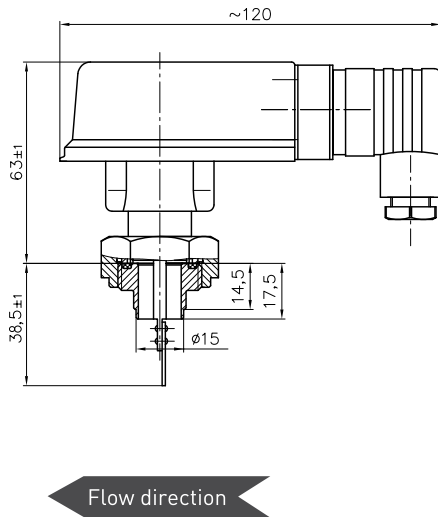
VHS05



VH305



VHS01



### Materials in contact with fluid

	Brass version	Stainless steel version
<b>Body, Paddle</b>	Brass CW614N	Stainless steel 1.4571
<b>Process connection</b>	Brass CW614N, CW617N	Stainless steel 1.4571
<b>Bushing</b>	PPO Noryl GFN 3	PVDF
<b>Rivet</b>	Brass CW508L	Stainless steel 1.4303
<b>Pin</b>	Stainless steel 1.4571	
<b>Magnet</b>	Hard ferrite	
<b>O-ring</b>	NBR	

## Order code

Order example	VHS	05M0	1	17	1	R2	1	
<b>Type</b>								
<b>Flow switches VHS</b>								
Plug connector incl. cable socket (Standard)	VHS			17				
Plug connector incl. cable socket with LED (option)	VHS			19				
4-pin-sensor plug M12 x 1 (option)	VHS			18				
<b>Process connection</b>								
Threaded Adapter G $\frac{1}{2}$		05M0				R2		
Soldering adapter (brass) or welding adapter (stainless steel)		01M0				D1		
<b>Material</b>								
Brass			1		1		1	
Stainless steel			3		3		3	
<b>Version</b>								
Standard								( )*
For use in potentially explosive atmospheres (option)								X

\* No character

\*\* Only available with plug connector incl. cable socket

Order example	VH305M0	1	11	1	R2	1	
<b>Type</b>							
<b>Flow switches VH3</b>							
1.5 m PVC jacket cable	VH305M0		11		R2		
1.5 m PVC blue jacket cable (only for option „for use in potentially explosive atmospheres“)	VH305M0		13		R2		
<b>Material</b>							
Brass		1		1		1	
Stainless steel		3		3		3	
<b>Version</b>							
Standard							( )*
For use in potentially explosive atmospheres (option)**							X

\* No character

\*\* Only available with blue jacket cable

