

G & GH Series – Subminiature

- ▶ MOPD: 250 PSI
- ▶ C_v Range: 0.018 to 0.070
- ▶ 0.65 Watts or 2 Watts

This extremely versatile 2- or 3-way sub-miniature valve gives you the option of choosing the highly durable stainless steel or the lightweight corrosion resistant acetal body, to meet your overall design parameters. Select stainless steel or Delrin®, and other materials available to resist corrosion in most acids and alkaline solutions, or pick acetal for a tough and heat resistant metal substitute to meet your weight and chemical inert requirements.



Typical Applications

Stainless Steel Bodies:

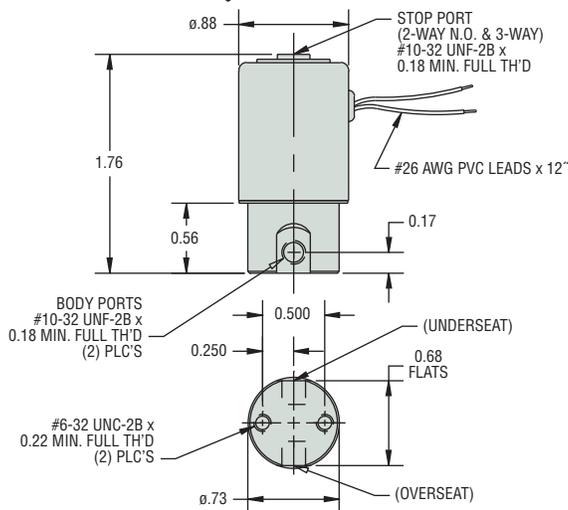
- Hospital Equipment
- Laboratory Equipment
- Air Sampling Systems

Acetal Bodies:

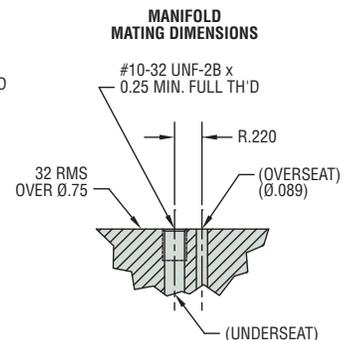
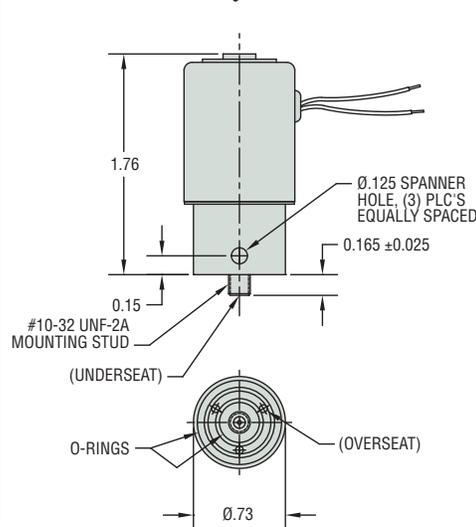
- Water Purification Systems
- Analytical Equipment

Dimensions

Threaded Port Body

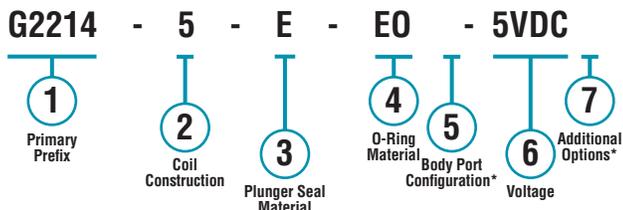


Manifold Mount Body



How To Order

Use the **Bold** characters from the choices listed on the following page to construct a product code.



* Blank entry indicates a "Standard" selection (#10-32 straight thread ports, in this case).

Example:

G2214-5-E-EO-5VDC

G-Series 303 Stainless Steel 2-Way N.O. solenoid valve, with tape-wrapped, Class-B, with lead-wires (12" long), encapsulated coil with 0.110 spade terminals, EPR plunger seal, EPR o-ring, #10-32 straight thread ports, operating at 5 VDC.

Part Prefix Table ①

| | Power Rating | Orifice | | MOPD (psig) | C _v | | ① Primary Prefix | |
|----------------------------|--------------|---------|-------|-------------|----------------|-------|----------------------------------|---------------------------|
| | | Body | Stop | | Body | Stop | 303 Stainless Steel [†] | Acetal (#10-32 port only) |
| 2-WAY N.C. | 0.65W | 0.032 | — | 125 | 0.018 | — | G2012 | G2032 |
| | | 0.040 | — | 70 | 0.023 | — | G2013 | G2033 |
| | | 0.055 | — | 40 | 0.038 | — | G2014 | G2034 |
| | | 0.078 | — | 20 | 0.063 | — | G2015 | G2035 |
| | 2W | 0.032 | — | 250 | 0.018 | — | GH2012 | GH2032 |
| | | 0.040 | — | 175 | 0.023 | — | GH2013 | GH2033 |
| | | 0.055 | — | 100 | 0.038 | — | GH2014 | GH2034 |
| | | 0.078 | — | 50 | 0.063 | — | GH2015 | GH2035 |
| 2-WAY N.O. | 0.65W | — | 0.032 | 125 | — | 0.018 | G2212 | G2232 |
| | | — | 0.040 | 70 | — | 0.023 | G2213 | G2233 |
| | | — | 0.055 | 40 | — | 0.038 | G2214 | G2234 |
| | | — | 0.078 | 20 | — | 0.057 | G2215 | G2235 |
| | 2W | — | 0.032 | 200 | — | 0.018 | GH2212 | GH2232 |
| | | — | 0.040 | 150 | — | 0.023 | GH2213 | GH2233 |
| | | — | 0.055 | 100 | — | 0.038 | GH2214 | GH2234 |
| | | — | 0.078 | 50 | — | 0.057 | GH2215 | GH2235 |
| 3-WAY N.C. Free Vent | 0.65W | 0.032 | 0.032 | 125 | 0.018 | 0.018 | G3012 | G3032 |
| | | 0.040 | 0.040 | 70 | 0.023 | 0.023 | G3013 | G3033 |
| | | 0.055 | 0.055 | 40 | 0.038 | 0.038 | G3014 | G3034 |
| | | 0.078 | 0.078 | 20 | 0.063 | 0.057 | G3015 | G3035 |
| | 2W | 0.032 | 0.032 | 200 | 0.018 | 0.018 | GH3012 | GH3032 |
| | | 0.040 | 0.040 | 150 | 0.023 | 0.023 | GH3013 | GH3033 |
| | | 0.055 | 0.055 | 100 | 0.038 | 0.038 | GH3014 | GH3034 |
| | | 0.078 | 0.078 | 50 | 0.063 | 0.057 | GH3015 | GH3035 |
| 3-WAY N.C. Line Connection | 0.65W | 0.032 | 0.032 | 125 | 0.018 | 0.018 | G3112 | G3132 |
| | | 0.040 | 0.040 | 70 | 0.023 | 0.023 | G3113 | G3133 |
| | | 0.055 | 0.055 | 40 | 0.038 | 0.038 | G3114 | G3134 |
| | | 0.078 | 0.078 | 20 | 0.063 | 0.057 | G3115 | G3135 |
| | 2W | 0.032 | 0.032 | 200 | 0.018 | 0.018 | GH3112 | GH3132 |
| | | 0.040 | 0.040 | 150 | 0.023 | 0.023 | GH3113 | GH3133 |
| | | 0.055 | 0.055 | 100 | 0.038 | 0.038 | GH3114 | GH3134 |
| | | 0.078 | 0.078 | 50 | 0.063 | 0.057 | GH3115 | GH3135 |
| 3-WAY N.O. | 0.65W | 0.032 | 0.032 | 125 | 0.018 | 0.018 | G3212 | G3232 |
| | | 0.040 | 0.040 | 70 | 0.023 | 0.023 | G3213 | G3233 |
| | | 0.055 | 0.055 | 40 | 0.038 | 0.038 | G3214 | G3234 |
| | | 0.078 | 0.078 | 20 | 0.057 | 0.057 | G3215 | G3235 |
| | 2W | 0.032 | 0.032 | 175 | 0.018 | 0.018 | GH3212 | GH3232 |
| | | 0.040 | 0.040 | 150 | 0.023 | 0.023 | GH3213 | GH3233 |
| | | 0.055 | 0.055 | 80 | 0.038 | 0.038 | GH3214 | GH3234 |
| | | 0.078 | 0.078 | 40 | 0.057 | 0.057 | GH3215 | GH3235 |
| 3-WAY Multi Purpose | 0.65W | 0.032 | 0.032 | 80 | 0.018 | 0.018 | G3312 | G3332 |
| | | 0.040 | 0.040 | 40 | 0.023 | 0.023 | G3313 | G3333 |
| | | 0.055 | 0.055 | 20 | 0.036 | 0.029 | G3314 | G3334 |
| | | 0.078 | 0.078 | 10 | 0.063 | 0.053 | G3315 | G3335 |
| | 2W | 0.032 | 0.032 | 110 | 0.018 | 0.018 | GH3312 | GH3332 |
| | | 0.040 | 0.040 | 85 | 0.023 | 0.023 | GH3313 | GH3333 |
| | | 0.055 | 0.055 | 50 | 0.036 | 0.029 | GH3314 | GH3334 |
| | | 0.078 | 0.078 | 25 | 0.063 | 0.057 | GH3315 | GH3335 |
| 3-WAY Directional Control | 0.65W | 0.032 | 0.032 | 135 | 0.018 | 0.018 | G3412 | G3432 |
| | | 0.040 | 0.040 | 80 | 0.023 | 0.023 | G3413 | G3433 |
| | | 0.055 | 0.055 | 45 | 0.029 | 0.029 | G3414 | G3434 |
| | | 0.078 | 0.078 | 20 | 0.063 | 0.055 | G3415 | G3435 |
| | 2W | 0.032 | 0.032 | 190 | 0.018 | 0.018 | GH3412 | GH3432 |
| | | 0.040 | 0.040 | 165 | 0.023 | 0.020 | GH3413 | GH3433 |
| | | 0.055 | 0.055 | 80 | 0.038 | 0.038 | GH3414 | GH3434 |
| | | 0.078 | 0.078 | 40 | 0.063 | 0.063 | GH3415 | GH3435 |

② Coil Construction

(blank) = Tape-wrapped, Class-B, with lead-wires (12" long)*
 W__ = Lead-wires, non-standard length (specify in inches)
 1 = Encapsulated coil
 5 = Encapsulated coil with 0.110 spade terminals
 10 = Rectified coil for AC voltage (2-watt only)

③ Plunger Seal Material

(blank) = Viton®*
 NB = Nitrile
 E = EPR
 N = Neoprene

④ O-Ring Material

(blank) = Viton®*
 NBO = Nitrile
 EO = EPR
 NO = Neoprene

⑤ Body Port Configuration

(blank) = #10-32 straight thread ports*
 LC = 1/8"-27 NPT ports (2-way valves only)²
 BM = M5 x 0.8 ports²
 MM = Manifold mount with #10-32 threaded stud^{2†}
 MM2 = Manifold mount with M5 x 0.8 threaded stud^{2†}

⑥ Voltage

__VDC = DC (specify voltage)
 __VAC = AC Rectified 2-watt only (specify voltage)

⑦ Additional Options

OC = Cleaned for oxygen use
 TP = PTFE coated plunger
 VAC = Vacuum application (0 to 29.5" Hg)

* Standard selection; will be used unless otherwise specified. Standard selections are not referenced in final part number.

Notes

1. Use prefixes from this column if you plan to select a Body Port Configuration other than the #10-32 straight thread ports.
2. Not available on Acetal bodies.

[†] Teflon® o-ring not suitable for manifold mount.

Gems specializes in the design and manufacturing of custom solenoid valves and fluidic systems. If you don't see what you're looking for, or have a question, contact us at 800-378-1600 or info@gemssensors.com.