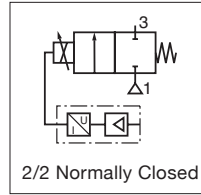


- Flapper proportional valves are designed to proportionally control the flow of neutral and aggressive liquids and gases by varying the electrical input signal to the coil
- Special Flapper mechanism results in no pumping or sticking effects
- Reduced heat transfer between control mechanism and fluid make them ideal for use with heat-sensitive reagents and biological samples
- Hysteresis (< 20%), excellent repeatability (< 5%), and high sensitivity (< 1%) make these valves ideal for high precision flow control of liquids
- Excellent self-draining capability and easy-to-flush internal cavity
- Valves do not require a minimum operating pressure
- Meets all relevant CE directives, and is RoHS compliant
- Typical Applications include:
 - Chromatography
 - DNA Sequencing
 - In-vitro Diagnostics
 - Industrial Liquid Analyzers

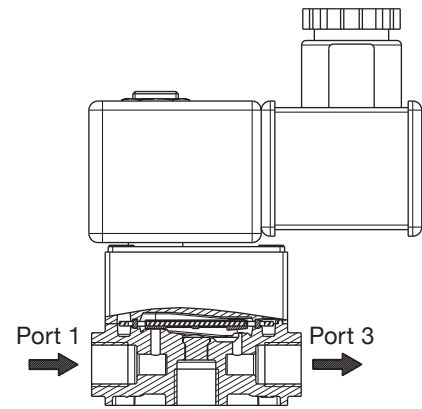
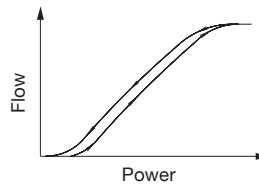


| Fluids* | Temperature Range | Seal Materials* |
|-------------------------------|------------------------------------|-----------------|
| Liquids or Gases ¹ | 5 °C to 50 °C (41 °F to 122 °F) | FKM/FFKM/EPDM |

¹ Filtration: 50µm

* Ensure that the compatibility of the fluids in contact with the materials is verified

| General Valve Information | |
|---------------------------|-----------------------------|
| Body | PEEK |
| Seals | FKM/FFKM/EPDM |
| Diaphragm | FKM/FFKM/EPDM |
| Others | Stainless Steel |
| Response Time | < 20ms |
| Internal Volume | 0.48ml |
| Max. Viscosity | 20 cSt (mm ² /s) |



| Electrical Characteristics | |
|---------------------------------|---|
| Coil Insulation Class | F |
| Connector | Lead Wires 24 AWG; L = 500mm (19.685in) |
| Electrical Safety | IEC 335 |
| Electrical Enclosure Protection | IP65 (EN 60529) |
| Standard Voltages | 12 VDC, 24 VDC (-5%/+10%) |
| Voltage Regulation | 0-12 VDC, 0-24 VDC Pulse-width Modulation (> 1000Hz) |
| Flow Regulation Characteristics | Hysteresis typ. 20%; Repeatability typ. 5%; Sensitivity typ. 1% |

| Voltage | Max. Operating Current | Power Ratings | | | Ambient Temperature Range |
|---------|------------------------|---------------|---------|----------|---------------------------|
| | | Inrush | Holding | Hot/Cold | |
| V | mA | VA | VA | W | °C (°F) |
| 12 | 0 | - | - | - | 5 to 55 (41 to 131) |
| | 750 | | | | |
| 24 | 0 | - | - | - | |
| | 375 | | | | |

| Specifications | | | | | | | |
|---------------------------|--------------|------------------|-------|---------------------------------|----------|----------------|-----------------|
| Connection | Orifice Size | Flow Coefficient | | Pressure Differential bar (psi) | | Power Coil (W) | Catalog Number |
| | | | | min. | max. | | Body PEEK |
| | mm (inches) | Kv (m3/h) | Cv | gases, liquids | | | |
| G1/8 | 2 (0.079) | 0.069 | 0.080 | 0 | 4.5 (65) | 9 | G068A317xxx10xx |
| | 3 (0.118) | 0.123 | 0.142 | 0 | 2.0 (29) | 9 | G068A318xxx10xx |
| Pad Mounting ¹ | 2 (0.079) | 0.069 | 0.080 | 0 | 4.5 (65) | 9 | R068A317xxx10xx |
| | 3 (0.118) | 0.123 | 0.142 | 0 | 2.0 (29) | 9 | R068A318xxx10xx |

¹ 4 hexagon socket screws M3 x 8mm (0.315), stainless steel, ISO 4762 (supplied)

How to Order

G068A317 xx x 10 xx

Catalog Number (see Specifications table)

Connector S1 = spade terminals with connector

Voltage
 F3 = 12 VDC
 F1 = 24 VDC

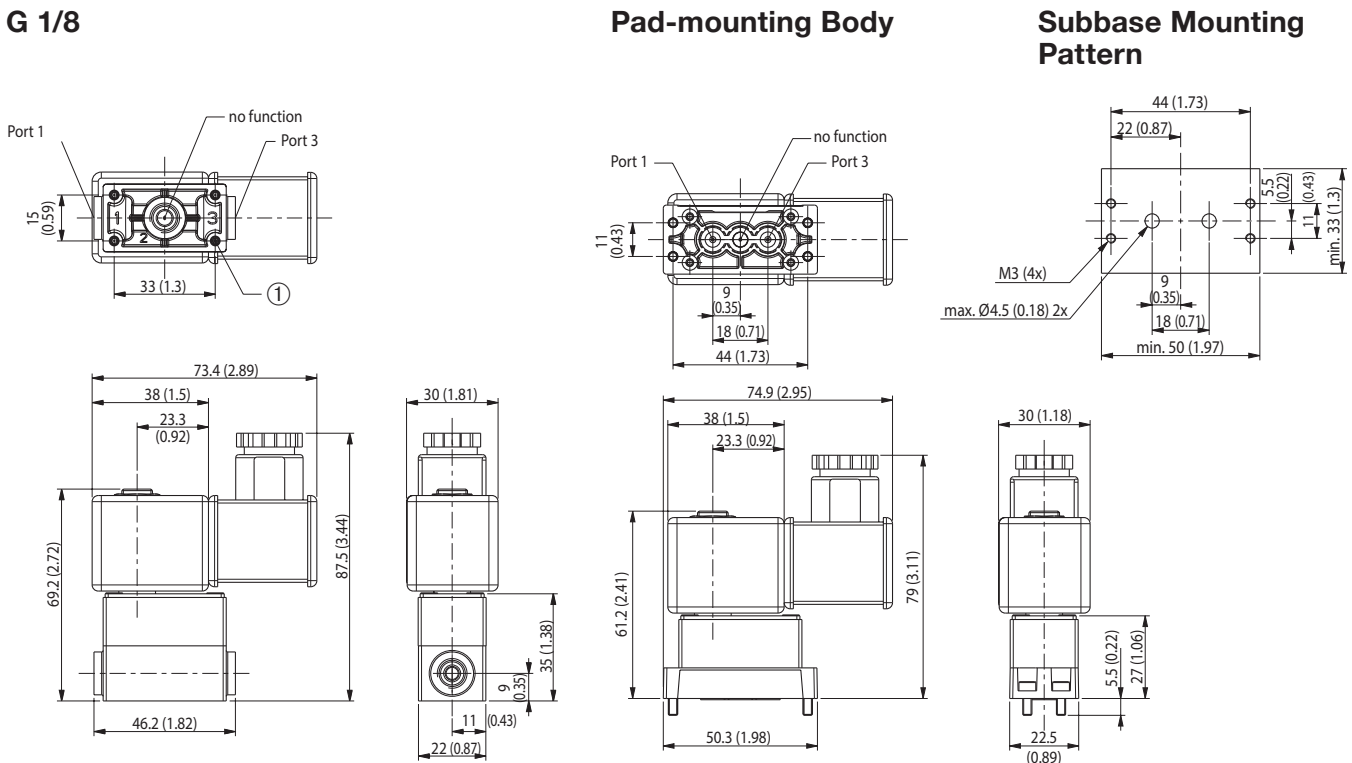
Seal Materials
 V = FKM
 1 = FFKM
 E = EPDM

Ordering Example: R068A317S1E10F1 = 2-way NC (normally closed), orifice size 2mm (0.079in), pad-mounting body, spade terminals with connector, EPDM seals, 24 VDC

Dimensions: mm (inches)

Dimensional Drawings

G 1/8



① 4 mounting holes, max. depth 7mm (0.276in), for self-tapping screw (type EJOT PT, K30)

Options

- Digital control module Control^D for DIN EN 50022 rail mounting
 - Used as a current regulator in open loop applications
 - Used with an external sensor for closed-loop applications
- Other voltages and coils with flying leads on request
- Subbases available on request

Installation

- The solenoid valves can be mounted in any position without affecting operation
- Pad-mounting solenoid valve supplied with seal
- Pipe connections 1/8 have standard thread according to ISO 228/1