

Features

- Direct acting operation and high flow construction
- Direct acting, high flow slide-style valve
- Optional flow control regulates cylinder speed independently, in either direction
- Mechanical detent on dual solenoids holds last position, even after loss of electric power, pneumatics or pressure
- No Minimum Operating Pressure Differential required to shift valve
- Dual solenoid operation: solenoid may be energized momentarily (1/10 second) or continuously
- Mountable in any position

Construction

| Valve Parts in Contact with Fluids | | |
|------------------------------------|---|---------------------|
| Body | Brass | 304 Stainless Steel |
| Seals and Discs | NBR and FKM | |
| Core Tube | 305 Stainless Steel | |
| Core and Plugnut | 430F Stainless Steel | |
| Springs | 302 Stainless Steel / 17-7 PH Stainless Steel | |
| Shading Coil | Copper | |
| Sleeve | PA | |
| Seats | Graphite-filled PTFE | |

Electrical

| Standard Coil and Class of Insulation | Watt Rating and Power Consumption | | | Spare Coil Part Number | |
|---------------------------------------|-----------------------------------|------------|-----------|------------------------|----------------|
| | AC | | | General Purpose | Explosionproof |
| | Watts | VA Holding | VA Inrush | AC | AC |
| F | 16.1 | 35 | 115 | 272610 | 272614 |
| F | 20.1 | 45 | 140 | 272610 | 272614 |

Standard Voltages: 24, 120, 240, 480 volts AC, 60 Hz. 24, 110, 115, 220, 230 volts AC, 50 Hz. Other voltages are available when required.

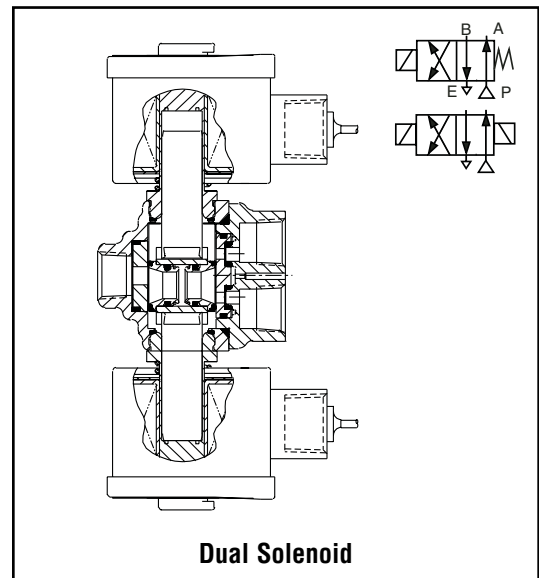
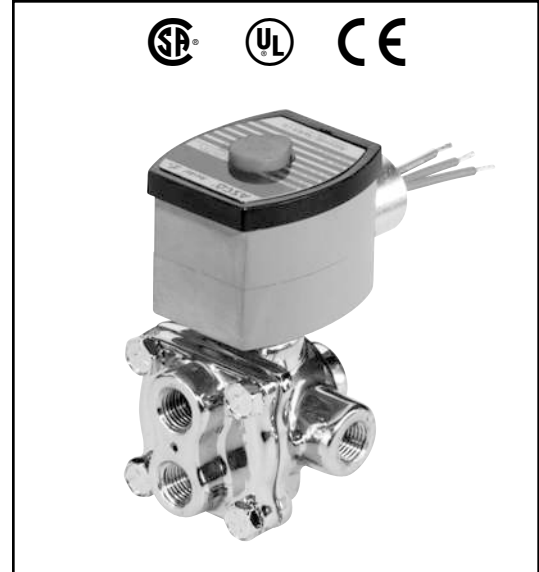
Note: No combination 120/60, 110/50 coil available. Must order either 120/60 or 110/50, etc.

Solenoid Enclosures

Standard: Watertight, Types 1, 2, 3, 3S, 4, and 4X.

Optional: Explosionproof and Watertight, Types 3, 3S, 4, 4X, 6, 6P, 7, and 9. (To order, add prefix "EF" to catalog number.)

See *Optional Features Section* for other available options.



Nominal Ambient Temp. Ranges

Standard Class F insulation: 32°F to 125°F (0°C to 52°C)
Optional Class H insulation: 32°F to 140°F (0°C to 60°C)

Refer to *Engineering Section* for details.

Approvals

CSA certified. UL listed as General Purpose Valves. Meets applicable CE directives.

Refer to *Engineering Section* for details.

Specifications (English units)

| Pipe Size (in) | Orifice Size (in) | Cv Flow Factor ① | Operating Pressure Differential (psi) | | | Max. Fluid Temp. °F | Brass Body | | Stainless Steel Body | | Watt Rating/ Class of Coil Insulation |
|-------------------------------------|-------------------|------------------|---------------------------------------|-------|-------------------|---------------------|----------------|-------------|----------------------|-------------|---------------------------------------|
| | | | Max. AC | | | | Catalog Number | Const. Ref. | Catalog Number | Const. Ref. | |
| | | | Air-Inert Gas | Water | Lt. Oil @ 300 SSU | AC | | | | | AC |
| SINGLE SOLENOID CONSTRUCTION | | | | | | | | | | | |
| 1/4 | 3/16 | .70 | 125 | 100 | 100 | 160 | 8342G001 | 1 | 8342G701 | 2 | 20.1/F |
| 3/8 | 3/16 | .70 | 125 | 100 | 100 | 160 | 8342G003 | 1 | 8342G703 | 2 | 20.1/F |
| DUAL SOLENOID CONSTRUCTION | | | | | | | | | | | |
| 1/4 | 3/16 | .70 | 125 | 125 | 125 | 160 | 8342G020 | 3 | 8342G720 | 4 | 16.1/F |
| 3/8 | 3/16 | .70 | 125 | 125 | 125 | 160 | 8342G022 | 3 | 8342G722 | 4 | 16.1/F |

① With built-in flow control (Suffix "M"), the Cv is 0.44 and an 0.5 psi minimum operating pressure is required.

Specifications (Metric units)

| Pipe Size (in) | Orifice Size (mm) | Kv Flow Factor (m3/h) ① | Operating Pressure Differential (bar) | | | Max. Fluid Temp. °C | Brass Body | | Stainless Steel Body | | Watt Rating/ Class of Coil Insulation |
|-------------------------------------|-------------------|-------------------------|---------------------------------------|-------|-------------------|---------------------|----------------|-------------|----------------------|-------------|---------------------------------------|
| | | | Max. AC | | | | Catalog Number | Const. Ref. | Catalog Number | Const. Ref. | |
| | | | Air-Inert Gas | Water | Lt. Oil @ 300 SSU | AC | | | | | AC |
| SINGLE SOLENOID CONSTRUCTION | | | | | | | | | | | |
| 1/4 | 4.8 | .60 | 9 | 7 | 7 | 71 | 8342G001 | 1 | 8342G701 | 2 | 20.1/F |
| 3/8 | 4.8 | .60 | 9 | 7 | 7 | 71 | 8342G003 | 1 | 8342G703 | 2 | 20.1/F |
| DUAL SOLENOID CONSTRUCTION | | | | | | | | | | | |
| 1/4 | 4.8 | .60 | 9 | 9 | 9 | 71 | 8342G020 | 3 | 8342G720 | 4 | 16.1/F |
| 3/8 | 4.8 | .60 | 9 | 9 | 9 | 71 | 8342G022 | 3 | 8342G722 | 4 | 16.1/F |

① With built-in flow control (Suffix "M"), the Kv is 0.38 and an 0.03 bar minimum operating pressure is required.

Dimensions inches (mm)

