

Features

- 2-way normally closed and normally open operation
- For use with anhydrous and gaseous ammonia
- Pressures up to 410 psi
- UL and CSA agency approvals

Construction

| Valve Parts in Contact with Fluids | |
|------------------------------------|-----------------------------|
| Body | Cast 304 Stainless Steel |
| Seals and Discs | Neoprene |
| Core Tube | 305 Stainless Steel |
| Core and Plugnut | 430F Stainless Steel |
| Springs | 302 Stainless Steel |
| Shading Coil | Aluminum |
| Stem | PA (for normally open only) |

Electrical

| Standard Coil and Class of Insulation | Watt Rating and Power Consumption | | | Spare Coil Part No. | |
|---------------------------------------|-----------------------------------|------------|-----------|---------------------|----------------|
| | AC | | | General Purpose | Explosionproof |
| | Watts | VA Holding | VA Inrush | AC | AC |
| F | 17.1 | 40 | 70 | 238610 | 238614 |

Standard Voltages: 24, 120, 240, 480 volts AC, 60 Hz (or 110, 220 volts AC, 50 Hz). Must be specified when ordering. Other voltages available when required.

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)

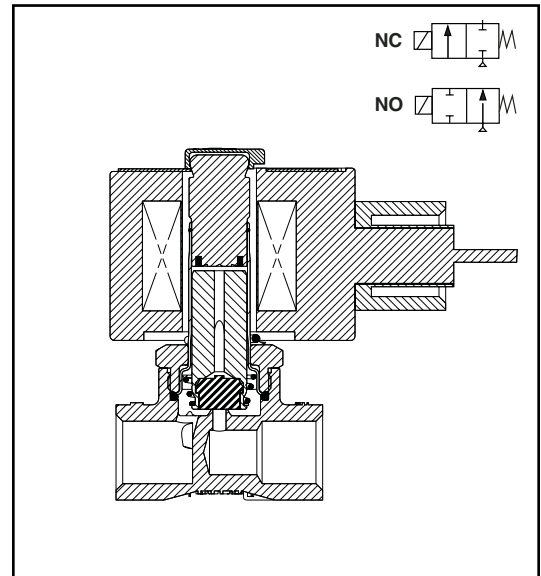
See *Optional Features Section* for other available options.

Options

Panel mount (prefix GP)

Mounting bracket (suffix MB)

Quarter-turn manual operator with screw slot (suffix MS)* (for normally closed construction only)



SPECIAL SERVICE VALVES

Nominal Ambient Temp. Ranges

Standard: 32°F to 131°F (0°C to 55°C)*

*Max ambient for explosionproof (EF) is 125°F (52°C)

Optional (for normally closed construction only):

For AC Class H coil option, the max. ambient temperature is 140°F (60°C) (with or without prefix EF)

Refer to *Engineering Section* for details.

Approvals

CSA certified. UL listed, General Purpose valves. Meets applicable CE directives.

Refer to *Engineering Section* for details.

Specifications (English units)

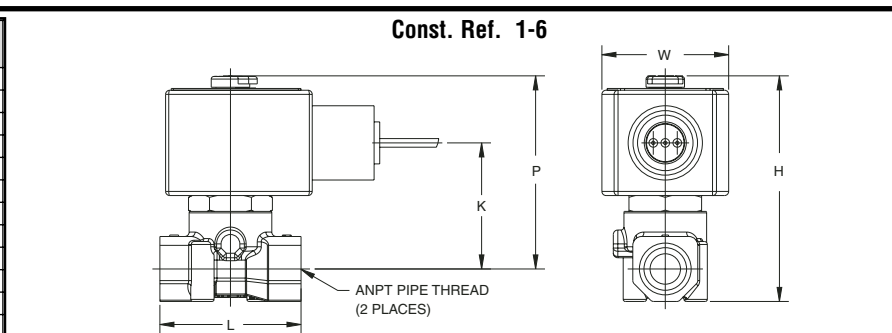
| Pipe Size (in) | Orifice Size (in) | Cv Flow Factor | Operating Pressure Differential (psi) | | Max. Fluid Temp. °F | Catalog Number | Const. Ref. | Watt Rating/Class of Coil Insulation |
|------------------------|-------------------|----------------|---------------------------------------|---------|---------------------|----------------|-------------|--------------------------------------|
| | | | Min. | Max. AC | | | | |
| Normally Closed | | | | | | | | |
| 1/8 | 3/32 | 0.21 | 0 | 410 | 167 | 8262H178NH | 1 | 17.1/F |
| 1/8 | 1/8 | 0.35 | 0 | 300 | 167 | 8262H174NH | 1 | 17.1/F |
| 1/4 | 3/32 | 0.21 | 0 | 410 | 167 | 8262H183NH | 2 | 17.1/F |
| 1/4 | 1/8 | 0.35 | 0 | 300 | 167 | 8262H185NH | 2 | 17.1/F |
| 1/4 | 5/32 | 0.52 | 0 | 200 | 167 | 8262H187NH | 2 | 17.1/F |
| 1/4 | 7/32 | 0.73 | 0 | 100 | 167 | 8262H188NH | 2 | 17.1/F |
| 1/4 | 9/32 | 0.88 | 0 | 65 | 167 | 8262H230NH | 2 | 17.1/F |
| 3/8 | 1/8 | 0.35 | 0 | 300 | 167 | 8263H191NH | 3 | 17.1/F |
| 3/8 | 5/32 | 0.52 | 0 | 185 | 167 | 8263H193NH | 3 | 17.1/F |
| 3/8 | 7/32 | 0.73 | 0 | 86 | 167 | 8263H332NH | 3 | 17.1/F |
| 3/8 | 9/32 | 0.88 | 0 | 63 | 167 | 8263H333NH | 3 | 17.1/F |
| Normally Open | | | | | | | | |
| 1/8 | 3/32 | 0.21 | 0 | 230 | 167 | 8262H172NH | 4 | 17.1/H |
| 1/8 | 1/8 | 0.35 | 0 | 145 | 167 | 8262H173NH | 4 | 17.1/H |
| 1/4 | 3/32 | 0.21 | 0 | 230 | 167 | 8262H205NH | 5 | 17.1/H |
| 1/4 | 1/8 | 0.35 | 0 | 145 | 167 | 8262H219NH | 5 | 17.1/H |
| 1/4 | 5/32 | 0.54 | 0 | 90 | 167 | 8262H223NH | 5 | 17.1/H |
| 1/4 | 7/32 | 0.83 | 0 | 45 | 167 | 8262H224NH | 5 | 17.1/H |
| 1/4 | 9/32 | 0.96 | 0 | 30 | 167 | 8262H225NH | 5 | 17.1/H |
| 3/8 | 1/8 | 0.35 | 0 | 145 | 167 | 8263H104NH | 6 | 17.1/H |
| 3/8 | 5/32 | 0.54 | 0 | 90 | 167 | 8263H105NH | 6 | 17.1/H |
| 3/8 | 7/32 | 0.83 | 0 | 45 | 167 | 8263H106NH | 6 | 17.1/H |
| 3/8 | 9/32 | 0.96 | 0 | 30 | 167 | 8263H107NH | 6 | 17.1/H |

Specifications (Metric units)

| Pipe Size (in) | Orifice Size (mm) | Kv Flow Factor (m ³ /h) | Operating Pressure Differential (bar) | | Max. Fluid Temp. °C | Catalog Number | Const. Ref. | Watt Rating/Class of Coil Insulation |
|------------------------|-------------------|------------------------------------|---------------------------------------|---------|---------------------|----------------|-------------|--------------------------------------|
| | | | Min. | Max. AC | | | | |
| Normally Closed | | | | | | | | |
| 1/8 | 2.4 | 0.18 | 0 | 28 | 75 | 8262H178NH | 1 | 17.1/F |
| 1/8 | 3.2 | 0.30 | 0 | 21 | 75 | 8262H174NH | 1 | 17.1/F |
| 1/4 | 2.4 | 0.18 | 0 | 28 | 75 | 8262H183NH | 2 | 17.1/F |
| 1/4 | 3.2 | 0.30 | 0 | 21 | 75 | 8262H185NH | 2 | 17.1/F |
| 1/4 | 4.0 | 0.45 | 0 | 14 | 75 | 8262H187NH | 2 | 17.1/F |
| 1/4 | 5.6 | 0.63 | 0 | 7 | 75 | 8262H188NH | 2 | 17.1/F |
| 1/4 | 7.1 | 0.76 | 0 | 4 | 75 | 8262H230NH | 2 | 17.1/F |
| 3/8 | 3.2 | 0.30 | 0 | 21 | 75 | 8263H191NH | 3 | 17.1/F |
| 3/8 | 4.0 | 0.45 | 0 | 13 | 75 | 8263H193NH | 3 | 17.1/F |
| 3/8 | 5.6 | 0.63 | 0 | 6 | 75 | 8263H332NH | 3 | 17.1/F |
| 3/8 | 7.1 | 0.76 | 0 | 4 | 75 | 8263H333NH | 3 | 17.1/F |
| Normally Open | | | | | | | | |
| 1/8 | 2.4 | 0.18 | 0 | 16 | 75 | 8262H172NH | 4 | 17.1/H |
| 1/8 | 3.2 | 0.30 | 0 | 10 | 75 | 8262H173NH | 4 | 17.1/H |
| 1/4 | 2.4 | 0.18 | 0 | 16 | 75 | 8262H205NH | 5 | 17.1/H |
| 1/4 | 3.2 | 0.30 | 0 | 10 | 75 | 8262H219NH | 5 | 17.1/H |
| 1/4 | 4.0 | 0.47 | 0 | 6 | 75 | 8262H223NH | 5 | 17.1/H |
| 1/4 | 5.6 | 0.72 | 0 | 3 | 75 | 8262H224NH | 5 | 17.1/H |
| 1/4 | 7.1 | 0.83 | 0 | 2 | 75 | 8262H225NH | 5 | 17.1/H |
| 3/8 | 3.2 | 0.30 | 0 | 10 | 75 | 8263H104NH | 6 | 17.1/H |
| 3/8 | 4.0 | 0.47 | 0 | 6 | 75 | 8263H105NH | 6 | 17.1/H |
| 3/8 | 5.6 | 0.72 | 0 | 3 | 75 | 8263H106NH | 6 | 17.1/H |
| 3/8 | 7.1 | 0.83 | 0 | 2 | 75 | 8263H107NH | 6 | 17.1/H |

Dimensions: inches (mm)

| Const. Ref. | | H | K | L | P | W |
|-------------|----|------|------|------|------|------|
| 1 | in | 3.05 | 1.71 | 1.19 | 2.69 | 1.95 |
| | mm | 77 | 43 | 30 | 68 | 50 |
| 2 | in | 3.12 | 1.79 | 1.56 | 2.76 | 1.95 |
| | mm | 79 | 45 | 40 | 70 | 50 |
| 3 | in | 3.20 | 1.79 | 1.88 | 2.77 | 1.95 |
| | mm | 81 | 45 | 48 | 70 | 50 |
| 4 | in | 3.00 | 1.54 | 1.19 | 2.69 | 2.06 |
| | mm | 76 | 39 | 30 | 68 | 52 |
| 5 | in | 3.12 | 1.62 | 1.56 | 2.76 | 2.06 |
| | mm | 79 | 41 | 40 | 70 | 52 |
| 6 | in | 3.2 | 1.62 | 1.88 | 2.77 | 2.06 |
| | mm | 81 | 41 | 48 | 70 | 52 |



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