Direct Acting

# General Service Solenoid Valves

Brass or Stainless Steel Bodies

1/8" to 3/8" NPT

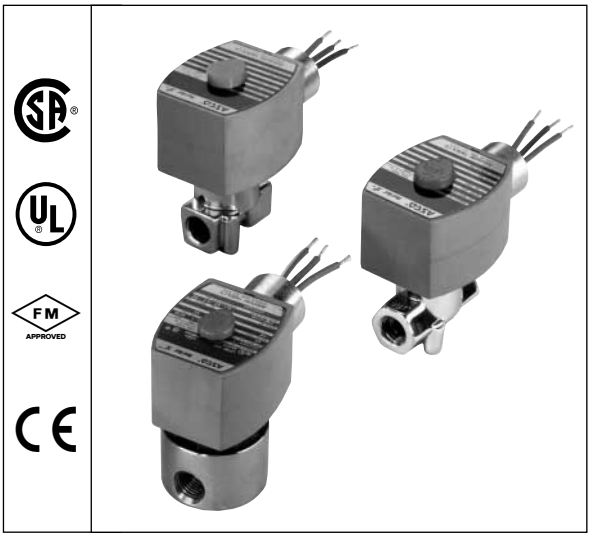
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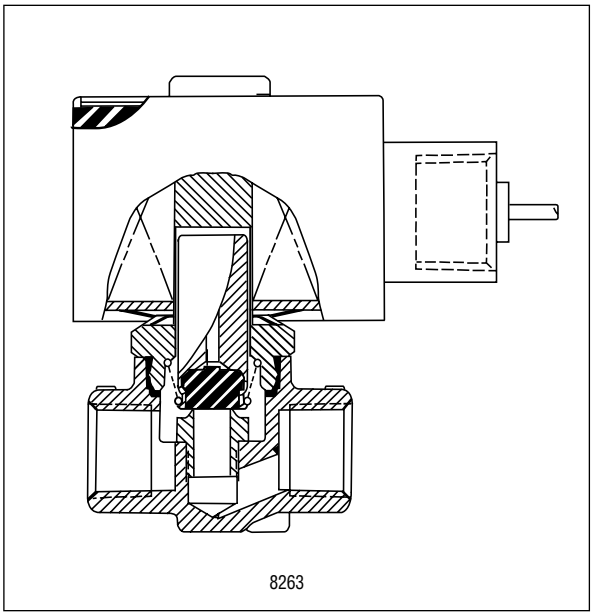
NO

**2/2 SERIES 8262 8263**

## Features

- Reliable, proven design with high flows.
- Small poppet valves for tight shutoff.
- Wide range of elastomers for specialty service.
- Mountable in any position.
- Brass body construction for general atmospheres; Stainless Steel for corrosive atmospheres.






## Construction

| Valve Parts in Contact with Fluids | | |
|---|---|---|
| **Body** | Brass | 303/304 Stainless Steel |
| **Seals and Discs** | NBR or Cast UR | |
| **Core Tube** | 305 Stainless Steel | |
| **Core and Plugnut** | 430F Stainless Steel | |
| **Springs** | 302 Stainless Steel | |
| **Shading Coil** | Copper | Silver |
| **Stem** | PA (Normally Open) | |
| **Note:** All 1/8" NPT Normally Open valves contain CA.<br>All 1/4" NPT Normally Open valves contain PA. | | |

## Electrical

| Standard Coil and Class of Insulation | Watt Rating and Power Consumption | | | | Spare Coil Part No. | | | |
|---|---|---|---|---|---|---|---|---|
| | | AC | | | General Purpose | | Explosionproof | |
| | DC Watts | Watts | VA Holding | VA Inrush | AC | DC | AC | DC |
| F | 10.6 | 6.1 | 16 | 30 | 238210 | 238310 | 238214 | 238314 |
| F | 11.6 | 10.1 | 25 | 50 | 238610 | 238710 | 238614 | 238714 |
| F | 22.6 | 17.1 | 40 | 70 | 238610 | 238710 | 238614 | 238714 |

**Standard Voltages** 24, 120, 240, 480 volts AC, 60 Hz (or 110, 220 volts AC, 50 Hz). 6, 12, 24, 120, 240 volts DC. Must be specified when ordering. Other voltages available when required.

## Nominal Ambient Temperature Ranges:

AC: 32˚F to 125˚F (0˚C to 52˚C)

DC: 32˚F to 104˚F (0˚C to 40˚C)

*Refer to Engineering Section for details.*

## 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.*

## Approvals:

CSA certified. UL listed, as indicated. Normally Closed Valves FM approved. Meets applicable CE directives.
*Refer to Engineering Section for details.*

## Specifications (English units)

| Pipe Size (ins.) | Orifice Size (ins.) | Cv Flow Factor | Operating Pressure Differential (psi) Max. AC: Air-Inert Gas | Max. AC: Water | Max. AC: Lt. Oil @ 300 SSU | Max. DC: Air-Inert Gas | Max. DC: Water | Max. DC: Lt. Oil @ 300 SSU | Max. Fluid Temp. ˚F: AC | Max. Fluid Temp. ˚F: DC | Brass Body: Catalog Number | Brass Body: Constr. Ref. No. | Brass Body: UL ③ Listing | Stainless Steel Body: Catalog Number | Stainless Steel Body: Constr. Ref. No. | Stainless Steel Body: UL ③ Listing | Watt Rating/ Class of Coil Insulation ②: AC | Watt Rating/ Class of Coil Insulation ②: DC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **NORMALLY CLOSED (Closed when de-energized), NBR Disc** | | | | | | | | | | | | | | | | | | |
| 1/8 | 3/64 | .06 | 750 | 750 | 530 | 650 | 640 | 550 | 180 | 120 | 8262G1 | 1 | ❍ | 8262G12 | 1 | ❍ | 6.1/F | 10.6/F |
| 1/8 | 3/32 | .20 | 275 | 290 | 130 | 150 | 140 | 145 | 180 | 120 | 8262G14 | 1 | ❍ | 8262G15 | 1 | ❍ | 6.1/F | 10.6/F |
| 1/8 | 1/8 | .34 | 155 | 180 | 140 | 80 | 80 | 80 | 180 | 120 | 8262G2 | 1 | ❍ | 8262G6 | 1 | ❍ | 6.1/F | 10.6/F |
| 1/4 | 3/64 | .06 | 750 | 750 | 500 | 500 | 500 | 500 | 180 | 120 | 8262G19 | 16 | ❍ | 8262G80 | 11 | ❍ | 6.1/F | 10.6/F |
| 1/4 | 3/64 | .06 | 1500 | 1500 | 1100 | 475 | 475 | 450 | 140 | 140 | 8262G200 | 17 | ● | - | - | - | 10.1/F | 11.6/F |
| 1/4 | 3/64 | .06 | 2200 | 2000 | 1100 | - | - | - | 140 | 140 | - | - | - | 8262G214 | 12 | ● | 10.1/F | - |
| 1/4 | 3/32 | .17 | 360 | 340 | 160 | 150 | 125 | 125 | 180 | 120 | 8262G20 | 16 | ❍ | 8262G86 | 11 | ❍ | 6.1/F | 10.6/F |
| 1/4 | 1/8 | .35 | 140 | 165 | 90 | 65 | 60 | 60 | 180 | 120 | 8262G22 | 16 | ❍ | 8262G7 | 11 | ❍ | 6.1/F | 10.6/F |
| 1/4 | 1/8 | .35 | 300 | 300 | 200 | 75 | 70 | 70 | 180 | 150 | 8262G232 | 17 | ❍ | - | - | - | 10.1/F | 11.6/F |
| 1/4 | 5/32 | .50 | 180 | 200 | 145 | 40 | 40 | 45 | 180 | 150 | 8262G202 | 4 | ❍ | 8262G220 | 12 | ❍ | 10.1/F | 11.6/F |
| 1/4 | 7/32 | .72 | 90 | 100 | 100 | 25 | 25 | 25 | 180 | 150 | 8262G208 | 4 | ❍ | 8262G226 | 12 | ❍ | 10.1/F | 11.6/F |
| 1/4 | 7/32 | .85 | 40 | 50 | 40 | 17 | 20 | 21 | 180 | 120 | 8262G13 | 2 | ❍ | 8262G36 | 11 | ❍ | 6.1/F | 10.6/F |
| 1/4 | 9/32 | .88 | 60 | 75 | 60 | 18 | 15 | 18 | 180 | 150 | 8262G210 | 4 | ❍ | - | - | - | 10.1/F | 11.6/F |
| 1/4 | 9/32 | .88 | 90 | 100 | 90 | 25 | 20 | 22 | 180 | 150 | 8262G212 | 6 | ❍ | 8262G230 | 13 | ❍ | 17.1/F | 22.6/F |
| 1/4 | 9/32 | .96 | 27 | 36 | 28 | 15 | 16 | 16 | 180 | 120 | 8262G90 | 2 | ❍ | 8262G38 | 11 | ❍ | 6.1/F | 10.6/F |
| 3/8 | 1/8 | .35 | 160 | 150 | 90 | 65 | 60 | 60 | 180 | 120 | 8263G2 | 3 | ❍ | 8263G330 | 3 | ❍ | 6.1/F | 10.6/F |
| 3/8 | 5/32 | .52 | 100 | 100 | 100 | 35 | 35 | 35 | 180 | 150 | 8263G200 | 5 | ❍ | 8263G331 | 5 | ❍ | 10.1/F | 11.6/F |
| 3/8 | 7/32 | .72 | 100 | 100 | 100 | 25 | 25 | 25 | 180 | 150 | 8263G206 | 5 | ❍ | 8263G332 | 5 | ❍ | 17.1/F | 11.6/F |
| 3/8 | 9/32 | .85 | 100 | 100 | 70 | - | - | - | 180 | — | 8263G210 | 7 | ❍ | 8263G333 | 7 | ❍ | 17.1/F | - |
| **NORMALLY OPEN (Open when de-energized), NBR Disc (except where noted)** | | | | | | | | | | | | | | | | | | |
| 1/8 | 1/16 | .09 | 500 | 300 | 225 | 400 | 250 | 150 | 180 | 120 | 8262G91 | 8 | ● | 8262G92 | 8 | ● | 6.1/F | 10.6/F |
| 1/8 | 3/32 | .15 | 275 | 200 | 150 | 190 | 110 | 110 | 180 | 120 | 8262G93 | 8 | ● | 8262G94 | 8 | ● | 6.1/F | 10.6/F |
| 1/8 | 1/8 | .21 | 125 | 100 | 85 | 80 | 60 | 50 | 180 | 120 | 8262G31 | 8 | ● | 8262G35 | 8 | ● | 6.1/F | 10.6/F |
| 1/4 | 3/64 | .06 | 750 | 700 | 700 | 500 | 500 | 500 | 140 | 140 | 8262G260 ① | 9 | ● | 8262G130 ① | 14 | ● | 10.1/F | 11.6/F |
| 1/4 | 3/32 | .17 | 300 | 250 | 230 | 200 | 150 | 125 | 140 | 140 | 8262G261 ① | 9 | ● | 8262G134 ① | 14 | ● | 10.1/F | 11.6/F |
| 1/4 | 1/8 | .35 | 130 | 110 | 100 | 80 | 60 | 60 | 180 | 150 | 8262G262 | 9 | ● | 8262G138 | 14 | ● | 10.1/F | 11.6/F |
| 1/4 | 5/32 | .49 | 85 | 75 | 60 | 45 | 30 | 30 | 180 | 150 | 8262G263 | 4 | ● | 8262G142 | 14 | ● | 10.1/F | 11.6/F |
| 1/4 | 7/32 | .83 | 45 | 45 | 40 | 25 | 20 | 20 | 180 | 150 | 8262G264 | 4 | ● | 8262G148 | 14 | ● | 10.1/F | 11.6/F |
| 1/4 | 9/32 | .96 | 30 | 25 | 20 | 15 | 15 | 15 | 180 | 150 | 8262G265 | 4 | ● | 8262G152 | 14 | ● | 10.1/F | 11.6/F |

**Notes:** ① Cast UR disc supplied as standard.
② On 50 hertz service, the rating for the 6.1/F solenoid is 8.1 watts.
③ ❍ Safety Shutoff Valve; ● General Purpose Valve. Refer to Engineering Section (Approvals) for details.

## Specifications (Metric units)

| Pipe Size (ins.) | Orifice Size (mm) | Kv Flow Factor (m3/h) | Operating Pressure Differential (bar) Max. AC Air-Inert Gas | Max. AC Water | Max. AC Lt. Oil @ 300 SSU | Max. DC Air-Inert Gas | Max. DC Water | Max. DC Lt. Oil @ 300 SSU | Max. Fluid Temp. °C AC | Max. Fluid Temp. °C DC | Brass Body Catalog Number | Brass Body Constr. Ref. No. | Brass Body UL ③ Listing | Stainless Steel Body Catalog Number | Stainless Steel Body Constr. Ref. No. | Stainless Steel Body UL ③ Listing | Watt Rating/ Class of Coil Insulation ② AC | Watt Rating/ Class of Coil Insulation ② DC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **NORMALLY CLOSED (Closed when de-energized), NBR Disc** | | | | | | | | | | | | | | | | | | |
| 1/8 | 1.2 | .05 | 52 | 52 | 37 | 45 | 44 | 38 | 81 | 48 | 8262G1 | 1 | ❍ | 8262G12 | 1 | ❍ | 6.1/F | 10.6/F |
| 1/8 | 2.4 | .17 | 19 | 20 | 9 | 10 | 10 | 10 | 81 | 48 | 8262G14 | 1 | ❍ | 8262G15 | 1 | ❍ | 6.1/F | 10.6/F |
| 1/8 | 3.2 | .29 | 11 | 12 | 10 | 6 | 6 | 6 | 81 | 48 | 8262G2 | 1 | ❍ | 8262G6 | 1 | ❍ | 6.1/F | 10.6/F |
| 1/4 | 1.2 | .05 | 52 | 52 | 34 | 34 | 34 | 34 | 81 | 48 | 8262G19 | 16 | ❍ | 8262G80 | 11 | ❍ | 6.1/F | 10.6/F |
| 1/4 | 1.2 | .05 | 103 | 103 | 76 | 33 | 33 | 31 | 60 | 60 | 8262G200 | 17 | ● | - | - | - | 10.1/F | 11.6/F |
| 1/4 | 1.2 | .05 | 152 | 138 | 76 | - | - | - | 60 | 60 | - | - | - | 8262G214 | 12 | ● | 10.1/F | - |
| 1/4 | 2.4 | .15 | 25 | 23 | 11 | 10 | 9 | 9 | 81 | 48 | 8262G20 | 16 | ❍ | 8262G86 | 11 | ❍ | 6.1/F | 10.6/F |
| 1/4 | 3.2 | .30 | 10 | 11 | 6 | 4 | 4 | 4 | 81 | 48 | 8262G22 | 16 | ❍ | 8262G7 | 11 | ❍ | 6.1/F | 10.6/F |
| 1/4 | 3.2 | .30 | 21 | 21 | 14 | 5 | 5 | 5 | 81 | 65 | 8262G232 | 17 | ❍ | - | - | - | 10.1/F | 11.6/F |
| 1/4 | 4.0 | .43 | 12 | 14 | 10 | 3 | 3 | 3 | 81 | 65 | 8262G202 | 4 | ❍ | 8262G220 | 12 | ❍ | 10.1/F | 11.6/F |
| 1/4 | 5.6 | .62 | 6 | 7 | 7 | 2 | 2 | 2 | 81 | 65 | 8262G208 | 4 | ❍ | 8262G226 | 12 | ❍ | 10.1/F | 11.6/F |
| 1/4 | 5.6 | .73 | 3 | 3 | 3 | 1 | 1 | 1 | 81 | 48 | 8262G13 | 2 | ❍ | 8262G36 | 11 | ❍ | 6.1/F | 10.6/F |
| 1/4 | 7.1 | .75 | 4 | 5 | 4 | 1 | 1 | 1 | 81 | 65 | 8262G210 | 4 | ❍ | - | - | - | 10.1/F | 11.6/F |
| 1/4 | 7.1 | .75 | 6 | 7 | 6 | 2 | 1 | 2 | 81 | 65 | 8262G212 | 6 | ❍ | 8262G230 | 13 | ❍ | 17.1/F | 22.6/F |
| 1/4 | 7.1 | .82 | 2 | 2 | 2 | 1 | 1 | 1 | 81 | 48 | 8262G90 | 2 | ❍ | 8262G38 | 11 | ❍ | 6.1/F | 10.6/F |
| 3/8 | 3..3 | .30 | 11 | 10 | 6 | 4 | 4 | 4 | 81 | 48 | 8263G2 | 3 | ❍ | 8263G330 | 3 | ❍ | 6.1/F | 10.6/F |
| 3/8 | 4.0 | .45 | 7 | 7 | 7 | 2 | 2 | 2 | 81 | 65 | 8263G200 | 5 | ❍ | 8263G331 | 5 | ❍ | 10.1/F | 11.6/F |
| 3/8 | 5.6 | .62 | 7 | 7 | 7 | 2 | 2 | 2 | 81 | 65 | 8263G206 | 5 | ❍ | 8263G332 | 5 | ❍ | 17.1/F | 11.6/F |
| 3/8 | 7.1 | .73 | 7 | 7 | 5 | - | - | - | 81 | - | 8263G210 | 7 | ❍ | 8263G333 | 7 | ❍ | 17.1/F | - |
| **NORMALLY OPEN (Open when de-energized), NBR Disc (except where noted)** | | | | | | | | | | | | | | | | | | |
| 1/8 | 1.6 | .08 | 34 | 21 | 16 | 28 | 17 | 10 | 81 | 48 | 8262G91 | 8 | ● | 8262G92 | 8 | ● | 6.1/F | 10.6/F |
| 1/8 | 2.4 | .13 | 19 | 14 | 10 | 13 | 8 | 8 | 81 | 48 | 8262G93 | 8 | ● | 8262G94 | 8 | ● | 6.1/F | 10.6/F |
| 1/8 | 3.2 | .18 | 9 | 7 | 6 | 6 | 4 | 3 | 81 | 48 | 8262G31 | 8 | ● | 8262G35 | 8 | ● | 6.1/F | 10.6/F |
| 1/4 | 1.2 | .05 | 52 | 48 | 48 | 34 | 34 | 34 | 59 | 59 | 8262G260 ① | 9 | ● | 8262G130 ① | 14 | ● | 10.1/F | 11.6/F |
| 1/4 | 2.4 | .15 | 21 | 17 | 16 | 14 | 10 | 9 | 59 | 59 | 8262G261 ① | 9 | ● | 8262G134 ① | 14 | ● | 10.1/F | 11.6/F |
| 1/4 | 3.2 | .30 | 9 | 8 | 7 | 6 | 4 | 4 | 81 | 65 | 8262G262 | 9 | ● | 8262G138 | 14 | ● | 10.1/F | 11.6/F |
| 1/4 | 4.0 | .42 | 6 | 5 | 4 | 3 | 2 | 2 | 81 | 65 | 8262G263 | 4 | ● | 8262G142 | 14 | ● | 10.1/F | 11.6/F |
| 1/4 | 5.6 | .71 | 3 | 3 | 3 | 2 | 1 | 1 | 81 | 65 | 8262G264 | 4 | ● | 8262G148 | 14 | ● | 10.1/F | 11.6/F |
| 1/4 | 7.1 | .82 | 2 | 2 | 1 | 1 | 1 | 1 | 81 | 65 | 8262G265 | 4 | ● | 8262G152 | 14 | ● | 10.1/F | 11.6/F |

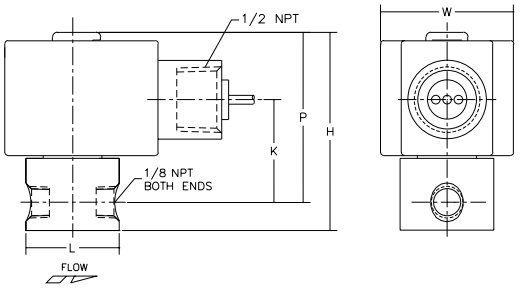
**Notes:** ① Cast UR disc supplied as standard.
② On 50 Hertz service, the rating for the 6.1/F solenoid is 8.1 watts.
③ ❍ Safety Shutoff Valve; ● General Purpose Valve. Refer to Engineering Section (Approvals) for details.

## Dimensions: inches (mm)

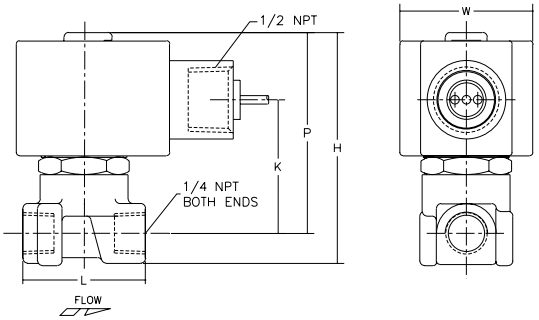
| Constr. Ref. No. | | H | K | L | P | W |
|---|---|---|---|---|---|---|
| 1 | ins. | 2.52 | 1.30 | 1.19 | 2.16 | 1.69 |
| | mm | 64 | 33 | 30 | 55 | 43 |
| 2 | ins. | 2.98 | 1.71 | 1.56 | 2.57 | 1.69 |
| | mm | 76 | 43 | 40 | 65 | 43 |
| 3 | ins. | 3.07 | 1.63 | 1.88 | 2.49 | 1.69 |
| | mm | 78 | 41 | 48 | 63 | 43 |
| 4 | ins. | 3.20 | 1.78 | 1.56 | 2.79 | 1.95 |
| | mm | 81 | 45 | 40 | 71 | 50 |
| 5 | ins. | 3.25 | 1.70 | 2.00 | 2.77 | 1.95 |
| | mm | 83 | 43 | 51 | 70 | 50 |
| 6 | ins. | 3.16 | 1.78 | 1.56 | 2.75 | 1.95 |
| | mm | 80 | 45 | 40 | 70 | 50 |
| 7 | ins. | 3.25 | 1.70 | 2.00 | 2.67 | 1.95 |
| | mm | 83 | 43 | 51 | 68 | 50 |
| 8 | ins. | 3.15 | 1.32 | 1.19 | 2.18 | 1.69 |
| | mm | 80 | 34 | 30 | 55 | 43 |
| 9 | ins. | 3.23 | 1.67 | 1.25 | 2.81 | 1.95 |
| | mm | 82 | 42 | 32 | 71 | 50 |
| 11 | ins. | 2.94 | 1.71 | 1.56 | 2.57 | 1.69 |
| | mm | 75 | 43 | 40 | 65 | 43 |
| 12 | ins. | 3.12 | 1.78 | 1.56 | 2.75 | 1.95 |
| | mm | 79 | 45 | 40 | 70 | 50 |
| 13 | ins. | 3.12 | 1.78 | 1.56 | 2.75 | 1.95 |
| | mm | 79 | 45 | 40 | 70 | 50 |
| 14 | ins. | 3.16 | 1.65 | 1.56 | 2.79 | 1.95 |
| | mm | 80 | 42 | 40 | 71 | 50 |
| 16 | ins. | 3.01 | 1.73 | 1.25 | 2.59 | 1.69 |
| | mm | 76 | 44 | 32 | 66 | 43 |
| 17 | ins. | 3.19 | 1.80 | 1.25 | 2.77 | 1.95 |
| | mm | 81 | 46 | 32 | 70 | 50 |

**IMPORTANT:** Valves may be mounted in any position.

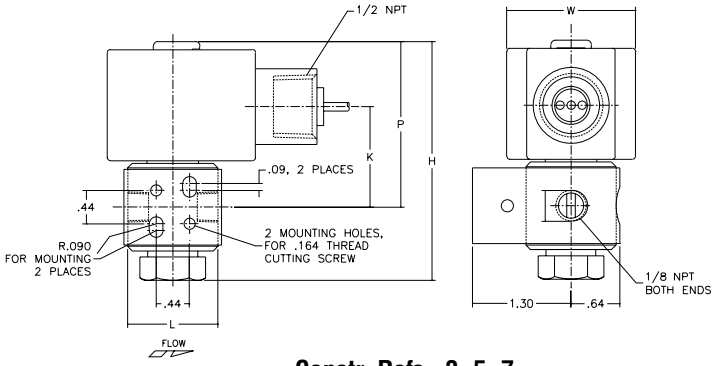
### Constr. Refs. 1



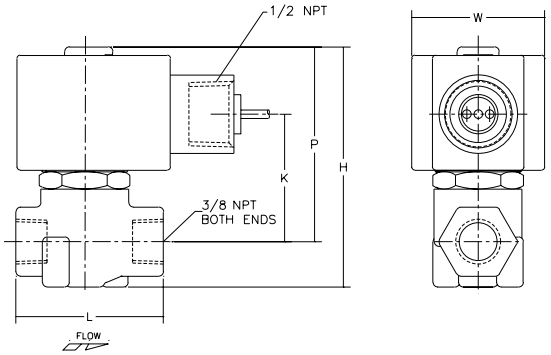

### Constr. Refs. 2, 4, 6, 9



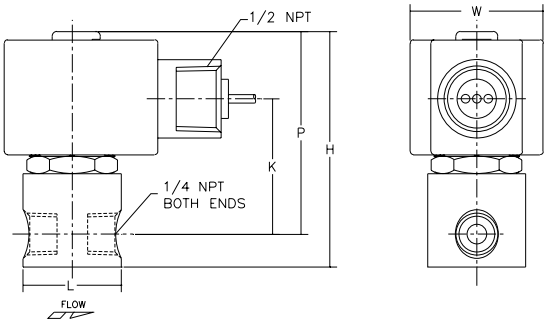

### Constr. Refs. 8




### Constr. Refs. 3, 5, 7




### Constr. Refs. 11-14, 16, 17




### Mounting Details

