

# GENERAL PURPOSE VALVES



## Series 50 >> Model 52

### 2-Way Normally Closed

Our original mini – engineered for space economy without sacrificing performance. Typical applications include medical, analytical instrumentation. Air, water, and other fluids are compatible with standard Buna seals. Hot water, steam, gasoline, and many oils require other seal materials.

- **Tough with options to use in hazardous location environments or low watt applications.**
- **High quality engineering.**

**Note:** This valve also available as an operator. Refer to following page.

### OPERATING CONDITIONS

**Media:** Air, water, and other fluids are compatible with standard Buna seals. Hot water, steam, gasoline, and many oils require other seal materials. (Series 50 pressure ratings may change due to the viscosity of the liquid.)\*

**Valve Temperature Range:** Standard Valves - 0°F (-18°C) to 104°F (40°C) ambient; 0°F (-18°C) to 150°F (65°C) media. Optional Valves - can tolerate much higher or much lower ambient and media temperatures.\*

**Maximum Operating Pressure Differentials:** See table on next page.

**Burst Pressure:** 5,000 PSI

**Leakage:** Bubble tight for standard valves.

**Vacuum:** To 5 Microns\*

### ELECTRICAL CHARACTERISTICS

**Coil Voltage:** 6, 12, 24, 125/DC

**Nominal Power:** 120/60, 110/50, 240/60, 220/50, 24/60 and 6, 12, 24, 48, 125/DC

**Coil Construction:** Molded and potted Class F. (Class H optional)

**Typical Response Time on Air:** 4 - 16 Milliseconds

**Operating Speed:** Up to 600 CPM

**Duty Cycle:** Continuous

### MECHANICAL CHARACTERISTICS

**Body:** Stainless Steel (Std.), Brass (Opt.) or Aluminum (Opt.)

**Internal Components:** Stainless Steel. Copper - AC Only.

**Elastomers:** Nitrile (Buna) (Std.). Many other elastomers available.\*

**Orifice Diameter:** See table on next page.

**Porting:** Standard 1/8" NPT (other ports available).\*

**Housing:** Grommet and 1/2" NPT conduit - many options available.\*

**Listings:** Most valves are UL and CSA listed.\*

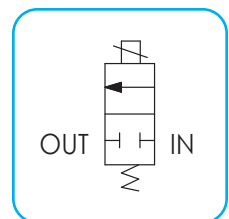
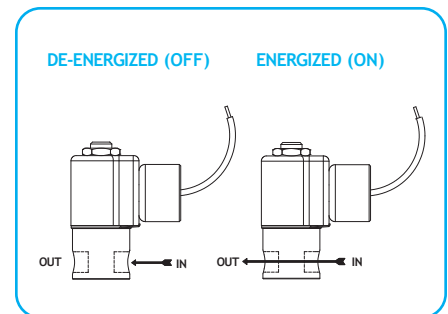
**Life Expectancy:** Millions of cycles, depending on application, lubrication, etc.

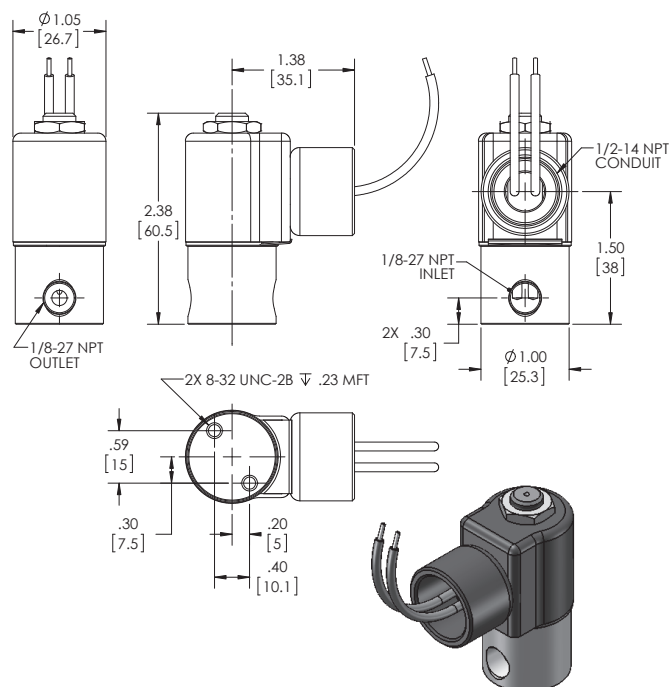
**Valve Weight:** Grommet Valve: 0.38 lb Conduit Valve: 0.44 lb

**Repair Packs:** See table on next page.

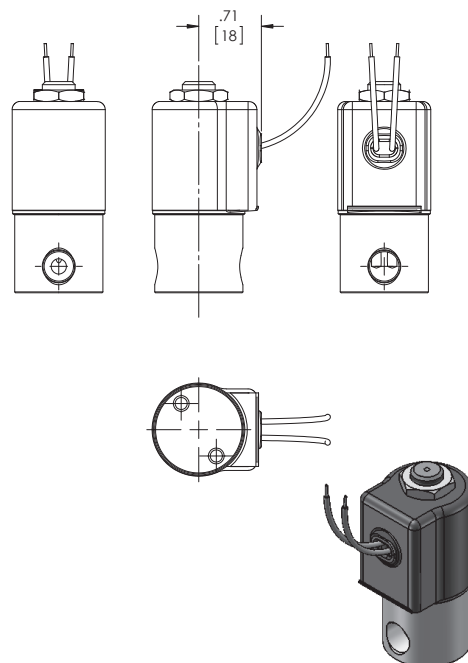
**Options:** Alternate Port Locations, Metering, Alternate Elastomers, Low Wattage, Spade Terminal Coil and Explosion Proof

\* Consult representative or factory for options and specifications.





**SERIES 50  
MODEL 52  
2WNC  
CONDUIT CONNECTION**



**SERIES 50  
MODEL 52  
2WNC  
GROMMET HOUSING WITH LEADS**

## VALVE SPECIFICATIONS

MAX. OPER. PRESS. DIFF.		ORIFICE SIZE N.C.	CV FACTOR N.C.	VALVE NUMBER	
AC	DC			GROMMET HOUSING 1/8 NPT PORTS	CONDUIT HOUSING 1/8 NPT PORTS
500 (1000)*	250 (1000)*	1/32	.022	52G8DGM	52G8DCM
400 (700)*	150 (450)	3/64	.055	52H8DGM	52H8DCM
200 (470)	100 (325)	1/16	.075	52J8DGM	52J8DCM
150 (270)	75 (210)	5/64	.134	52V8DGM	52V8DCM
100 (260)	45 (175)	3/32	.156	52K8DGM	52K8DCM
75 (135)	25 (100)	1/8	.230	52N8DGM	52N8DCM
40 (50)	10 (20)	5/32	.292	52O8DGM	52O8DCM

\* FKM seals not recommended for pressure ratings above 500 PSI.

## ORDERING INFORMATION:

WHEN ORDERING VALVES OR REPAIR PACKS ADD VOLTAGE AND FREQUENCY TO COMPLETE VALVE NUMBER. EXAMPLES: VALVE (52J8DGM 120/60) REPAIR PACK (K52JDD AC)

WHEN ORDERING OPERATORS ADD THE LETTER "O" TO THE FRONT OF THE VALVE NUMBER, REPLACE BODY PORT NUMBER WITH THE LETTER "D": EXAMPLE: OPERATOR (O52J8DGM 120/60)