

# GENERAL PURPOSE VALVES



## Series 50 >> Model 53

### 3-Way Normally Closed — Exhaust to Atmosphere

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:** 6.0 to 575/60, 5.4 to 515/50 and 3.0 to 300/DC

**Nominal Power:** AC — 6.0 Watts, DC — 7.0 Watts

**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.\*

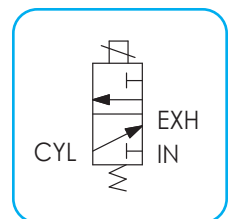
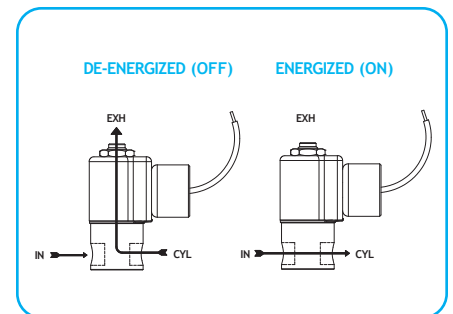
**Life Expectancy:** Millions of cycles, depending on application, lubrication, etc.

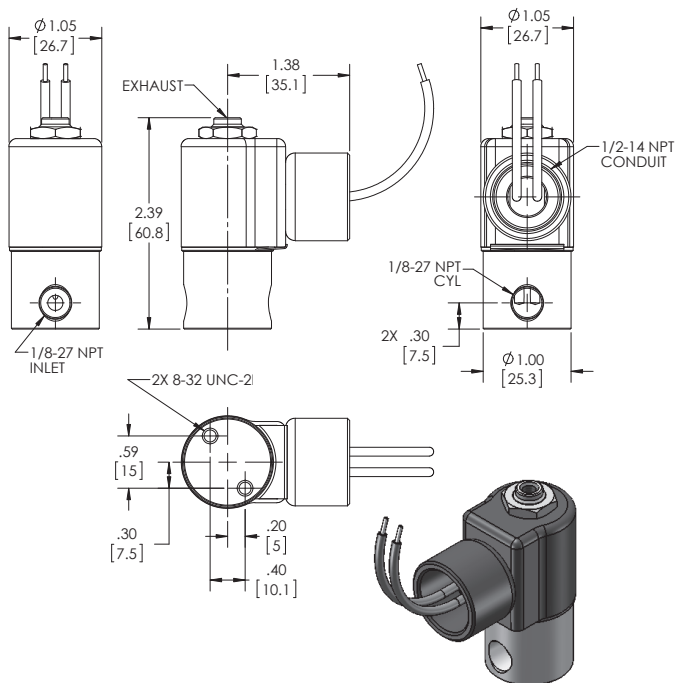
**Valve Weight:** Grommet Valve: 0.38 lb Conduit Valve: 0.44 lb

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

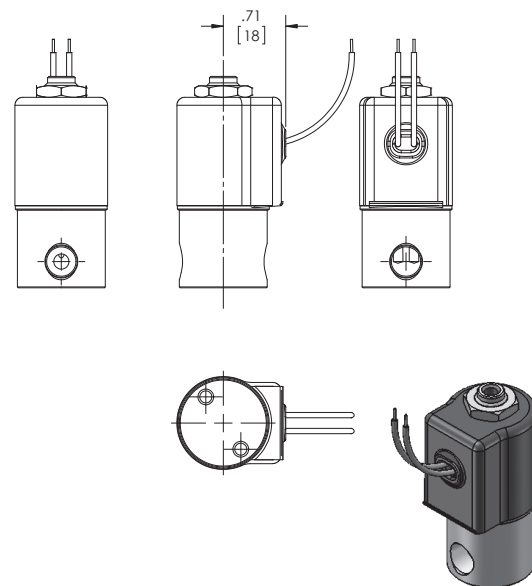
**Options:** Alternate Port Locations, Metering, Alternate Elastomers, Low Wattage, Spade Terminal Coil and Explosion Proof

\* Consult representative or factory for options and specifications.





**SERIES 50  
MODEL 53  
3WNC EXHAUST TO ATMOSPHERE  
CONDUIT CONNECTION**



**SERIES 50  
MODEL 53  
3WNC EXHAUST TO ATMOSPHERE  
GROMMET HOUSING WITH LEADS**

## VALVE SPECIFICATIONS

MAX. OPER. PRESS. DIFF.		ORIFICE SIZE		CV FACTOR		VALVE NUMBER	
AC	DC	N.C.	N.O.	N.C.	N.O.	GROMMET HOUSING 1/8 NPT PORTS	CONDUIT HOUSING 1/8 NPT PORTS
200	200	1/32	1/32	.022	.020	53GG8DGM	53GG8DCM
150	150	3/64	3/64	.055	.048	53HH8DGM	53HH8DCM
150	150	3/64	1/16	.055	.075	53HJ8DGM	53HJ8DCM
100	100	1/16	1/16	.075	.075	53JJ8DGM	53JJ8DCM
60	60	3/32	1/16	.156	.075	53KJ8DGM	53KJ8DCM
50	50	3/32	3/32	.156	.150	53KK8DGM	53KK8DCM
30	30	1/8	1/16	.230	.075	53NJ8DGM	53NJ8DCM
30	30	1/8	3/32	.230	.150	53NK8DGM	53NK8DCM

## ORDERING INFORMATION:

WHEN ORDERING VALVES OR REPAIR PACKS ADD VOLTAGE AND FREQUENCY TO COMPLETE VALVE NUMBER. EXAMPLES: VALVE (53JJ8DGM 120/60) REPAIR PACK (K53JJD 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 (Q53JJ8DGM 120/60)