

# SOLENOID VALVES . . .

## SPECIFICATIONS—3-WAY NORMALLY CLOSED

### OPERATING CONDITIONS

**Media:** Air, water, and other fluids compatible with standard Buna seals. Hot water, steam gasoline, and many oils require special seal materials - Consult representative or factory.

**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. Consult factory for specifics.

**Maximum Operating Pressure Differentials:** See Catalog listings.

**Burst Pressure:** Series 20, 30, 50 - 5000 PSI Series 70 - 4000 PSI

**Leakage:** Bubble tight for standard valves

**Vacuum:** To 5 Microns - Consult factory

### ELECTRICAL CHARACTERISTICS

**Coil Voltage:** Series 20 - 5 to 825 VAC 50-60 HZ. – 1.8 to 265V DC  
 Series 30 - 5.2 to 650 VAC 50-60 HZ. – 2 to 240V DC  
 Series 50 - 5.4 to 575 VAC 50-60 HZ. – 3.0 to 300V DC  
 Series 70 - 12 to 1050 VAC 50-60 HZ. – 2.5 to 220V DC

#### Nominal Power

Series	D.C.	A.C.	Series	D.C.	A.C.
20	9.5	8.7 Watts	50	7.0	6.0 Watts
30	8.0	8.0 Watts	70	16.0	18.0 Watts

**Coil Construction:** Non-molded Class A, Molded and potted Class F. (Class H optional)

**Typical Response Time on Air:** 4 - 16 Milliseconds—all series

### MECHANICAL CHARACTERISTICS

**Body:** Stainless steel (standard) - Ser. 20, 50, & 70  
 Brass (standard) - Ser. 30  
 Brass (optional) - Ser. 20, 50, & 70 - Consult factory  
 Aluminum (optional) - Ser. 50 - Consult factory

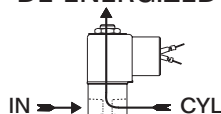
**Orifice Diameter:** See catalog listings

**Porting:** See catalog listings

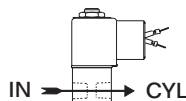
**Housing:** Grommet & ½" NPT conduit - many options available.

**Listings:** Most valves are U.L. and CSA listed - Consult factory for specifics.

#### DE-ENERGIZED



#### ENERGIZED



### OPTIONS AVAILABLE: –

#### 3 WAY NORMALLY CLOSED EXHAUST TO ATMOSPHERE

FOR ILLUSTRATED OPTIONS SEE PAGES

#### HOUSING OPTIONS—see page

**STRAIN RELIEF CONNECTOR**  
All Models

**SINGLE AUTOMOTIVE**  
All Models except 53

**DOUBLE AUTOMOTIVE**  
All Models except 53

**“AN” CONNECTOR**  
All Models

**SPLICE BOX HOUSING**  
All Models

**JIC HOUSING**  
Model 23

**YOKE**  
All Models

**MOUNTING BRACKET**  
All Models

#### COIL OPTIONS—see page

**MOLDED COIL**  
All Models

**POTTED COIL & HOUSING**  
All Models

#### THIRD WIRE GROUND

All conduit Models

**SPADE TERMINAL COIL - MOLDED**  
Models 23, 33, 53

**SPADE TERMINAL COIL - NON-MOLDED**  
Models 23, 33, 53

**HIGH TEMPERATURE MOLDED COIL**  
All Models

**EUROPEAN DIN STYLE**  
Models 23, 33

#### BODY OPTIONS—see page

**METERING TO ¼ ORIFICE**  
Model 23, 33, 53

**METERING TO ¼ ORIFICE**  
Model 23, 73

**METERED BYPASS**  
Model 23

**MANUAL OVERRIDE**  
Model 23\*, 73\*\*

**METERED EXH. PORT**  
Model 23, 33

#### PORT OPTIONS—see page

**BOTTOM ORIFICE PORT**  
All Models

**BOTTOM CAVITY PORT**  
Model 23\*\*, 33, 53, 73

**PORT 90° LEFT**  
All Models except 53

**MANIFOLD MOUNT**  
Model 23\*\*, 33, 53, 73

**FLANGE MOUNT**  
Models 23\*\*, 73

**PORT 90° RIGHT**  
All Models except 53

**MISCELLANEOUS  
OPTIONS—see page**

**SILVER SHADING RING**  
All Models

**ALUMINUM SHADING RING**  
All Models

**BUILT IN MUFFLER**  
All Models

**UNIVERSAL MOUNTING BRACKET**  
Models 23, 33, 53

\* Not available over 250 psi  
 \*\* Not available in ¼" orifice

**Note:** Availability of certain options or combination of options may vary with quantity of units ordered - Consult representative or factory.