SERIES 20 Magnetic Latching Valve

Meet today's demands for economy of space and energy consumption.

APPLICATION:

This type of valve is often used in remote areas where continuous power may not be available or with battery-powered portable equipment where power capacity is limited. It is also valuable in equipment where coil heating, due to continuous applications of power, is undesirable such as in medical and chemical analyzers, etc.

SPECIFICATIONS—

OPERATING CONDITIONS

Media: Air and other fluids, compatible with standard Buna seals. Hot water, steam, gasoline, oils, some hydraulic fluids, and many other media require special seal materials - Consult representative of 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 specifications.

Maximum Operating Pressure Differentials: See catalog listings

Burst Pressure: 5000 PSI

Leakage: Bubble tight for standard valves

Vacuum: To 5 Microns - Consult factory

ELECTRICAL CHARACTERISTICS

Coil Voltage: 6 to 60 VDC. All standard voltages (U.S. & Export) carried in stock. Special voltages readily produced on order.

Nominal Power: 10 watts

Typical Response Time on Air: Approximate 30 millisecond pulse to energize
Approximate 30 millisecond pulse to de-energize

Operating Speed: Up to 60 CPM

Duty Cycle: Continuous

MECHANICAL CHARACTERISTICS

Material: All interior parts are stainless steel

Orifice Diameter: See catalog listings

Porting: See catalog listings

Housing: European style DIN COIL for your convienence we have the female DIN style mating connector No. 20-198** available for an additional fee.

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

Valve Weight: 1.2 lbs lbs average

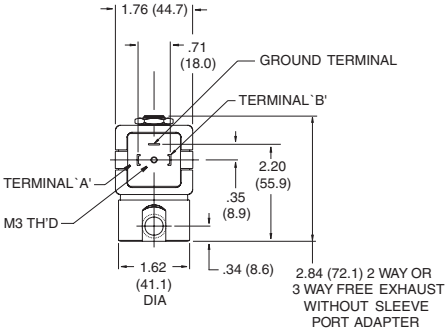
Repair Packs: Consult Factory

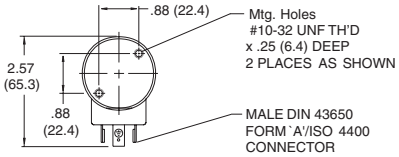
Metering, bottom orifice or cavity porting, manifold mount, built in muffler, universal mounting bracker, brass body.

FOR FLOW CHARTS SEE PAGES 95-97

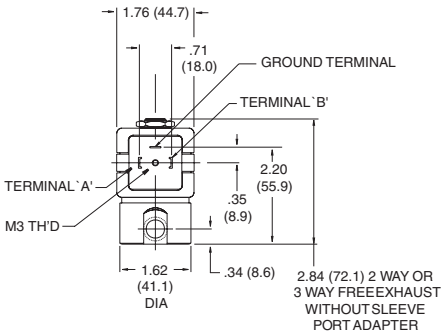
SOLENOID VALVE OPERATORS

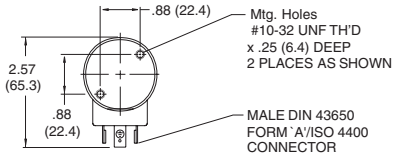
A complete line of valve operators for O.E.M. applications are offered for those who wish to incorporate them in their own product line. Full technical information and details are available from Peter Paul.



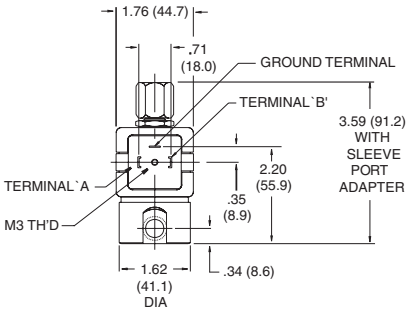


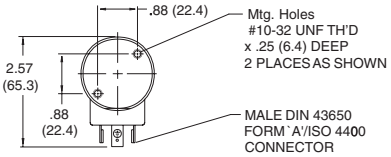
2-Way Normally Closed





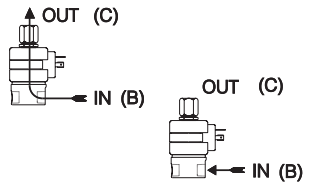
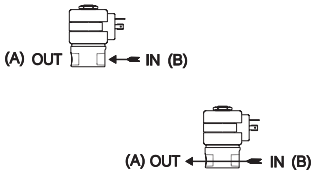
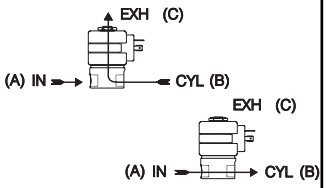
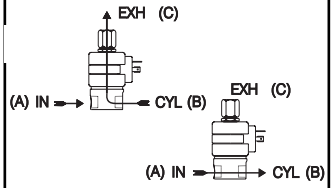
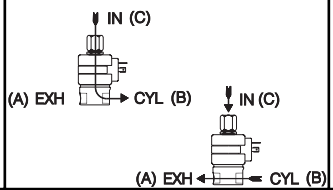
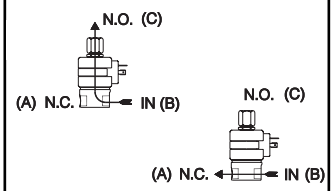
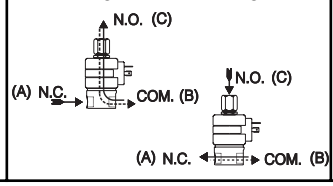
3-Way Normally Closed Exhaust to Atmosphere





3-Way Normally Closed Piped Exhaust

SOLENOID VALVES . . .

MODEL TYPE	FLOW CONFIGURATION	Valve No: ⅛ NPT	Valve No: ¼ NPT	Max Operating Pressure Differential	Orifice Size		CV Factor	
				DC	Inlet	Exhaust	Inlet	Exhaust
Model 21 2 Way Normally Open	DE-ENERGIZED ENERGIZED 	21G7XELM 21H7XELM 21J7XELM 21K7XELM	21G9ZELM 21H9ZELM 21J9ZELM 21K9ZELM	400 235 150 100		1/32 3/64 1/16 3/32		.024 .053 .095 .156
Model 22 2 Way Normally Closed	DE-ENERGIZED ENERGIZED 	22G7DELM 22H7DELM 22J7DELM 22K7DELM 22N7DELM 22O7DELM 22P7DELM 22R7DELM	22G9DELM 22H9DELM 22J9DELM 22K9DELM 22N9DELM 22O9DELM 22P9DELM 22R9DELM 22S9DELM	500 250 200 125 100 50 25 5	1/32 3/64 1/16 3/32 1/8 5/32 3/16 1/4 5/16		.024 .052 .095 .156 .214 .404 .500 .700 1.000	
Model 23 3 Way Normally Closed Exhaust to Atmosphere	DE-ENERGIZED ENERGIZED 	23GG7DELM 23HJ7DELM 23JJ7DELM 23JK7DELM 23KK7DELM 23NK7DELM 23PK7DELM 23RK7DELM	23GG9DELM 23HJ9DELM 23JJ9DELM 23JK9DELM 23KK9DELM 23NK9DELM 23PK9DELM 23RK9DELM	400 150 100 100 75 50 20	1/32 3/64 1/16 1/16 3/32 1/8 3/16 1/4	1/32 1/16 1/16 3/32 3/32 3/32 3/32 3/32	.024 .052 .095 .095 .156 .214 .500 .700	.024 .095 .095 .156 .156 .156 .156 .156
Model 23 3 Way Normally Closed Piped Exhaust	DE-ENERGIZED ENERGIZED 	23GG7XELM 23HJ7XELM 23JJ7XELM 23JK7XELM 23KK7XELM 23NK7XELM 23PK7XELM 23RK7XELM	23GG9ZELM 23HJ9ZELM 23JJ9ZELM 23JK9ZELM 23KK9ZELM 23NK9ZELM 23PK9ZELM 23RK9ZELM	400 150 100 100 75 50 20	1/32 3/64 1/16 1/16 3/32 1/8 3/16 1/4	1/32 1/16 1/16 3/32 3/32 3/32 3/32 3/32	.024 .052 .095 .095 .156 .214 .500 .700	.024 .095 .095 .156 .156 .156 .156 .156
Model 24 3 Way Normally Open	DE-ENERGIZED ENERGIZED 	24GG7XELM 24HJ7XELM 24JJ7XELM 24JK7XELM 24JN7XELM 24KN7XELM	24GG9ZELM 24HJ9ZELM 24JJ9ZELM 24JK9ZELM 24JN9ZELM 24KN9ZELM	400 150 100 100 100 75	1/32 3/64 1/16 1/16 1/16 3/32	1/32 1/16 1/16 3/32 1/8 1/8	.024 .052 .095 .095 .095 .156	.024 .095 .095 .156 .214 .214
Model 25 3 Way Directional Control	DE-ENERGIZED ENERGIZED 	25GG7XELM 25HH7XELM 25JH7XELM 25JJ7XELM 25KK7XELM 25NK7XELM	25GG9ZELM 25HH9ZELM 25JH9ZELM 25JJ9ZELM 25KK9ZELM 25NK9ZELM	500 235 200 150 100 100	1/32* 3/64* 1/16* 1/16* 3/32* 1/8*	1/32 3/64 3/64 1/16 3/32 3/32	.024* .052* .095* .095* .156* .214*	.024 .052 .052 .095 .156 .156
Model 26 3 Way Multi-Purpose	DE-ENERGIZED ENERGIZED 	26GG7XELM 26HH7XELM 26JJ7XELM 26KK7XELM	26GG9ZELM 26HH9ZELM 26JJ9ZELM 26KK9ZELM	400 150 100 75	1/32* 3/64* 1/16* 3/32*	1/32 3/64 1/16 3/32	.024* .052* .095* .156*	.024 .052 .095 .156

Extended pressure rating available. Consult factory.