



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

Series 80 >> Model 827

Large Orifice, Direct Lift –2-Way Normally Closed Valve

Peter Paul offers a line of large orifice solenoid valves to address process industry requirements for high flow rate or quick dump and fill capacity. These AC or DC powered valves are also suited for low pressure gas and liquid applications. Port sizes for direct lift, two way normally closed versions range from 3/8" to 3/4" NPT, with pressure ratings from 0 to 100 PSI.

- Large orifice sizes for high flow applications.
- Body is made of brass forgings.
- Operates at low pressure without any differential pressure across the diaphragm – Direct Lift.
- NPT threaded connections.
- Same coils and housings as our popular 20 Series.
- Direct Lift model is available in Normally Closed Only.

OPERATING CONDITIONS

Media: Air, water, and other fluids compatible with Buna seals. Hot water, steam, gasoline and many oils require special seal materials. Consult representative or factory. (Series 80 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 proceeding page.

Leakage: Bubble tight

ELECTRICAL CHARACTERISTICS

Coil Voltage: 6 to 825V AC 60 HZ. and 5 to 720V AC 50 HZ. – 1.8 to 265V DC

Nominal Power: AC – 7.7 Watts DC – 9.5 Watts

Coil Construction: Non-molded Class A (Std.), Molded and Potted Class F or Class H (Opt.)

Operating Speed: Up to 100 CPM

Duty Cycle: Continuous

MECHANICAL CHARACTERISTICS

Body: Brass (Std.), Stainless Steel (Opt.)

Internal Components: Stainless Steel (Std.)

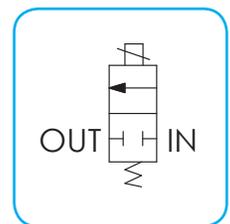
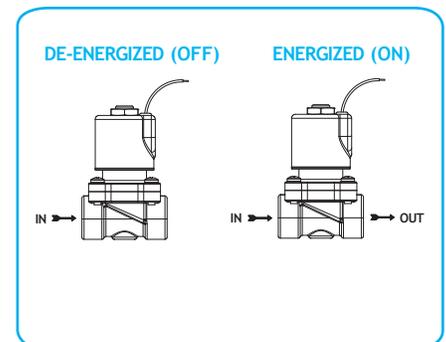
Elastomers: Nitrile (Buna) (Std.). Many other elastomers available.*

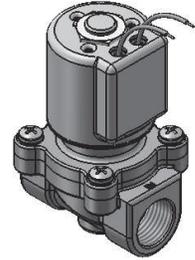
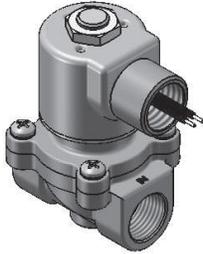
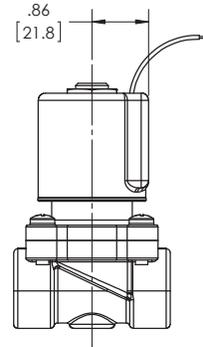
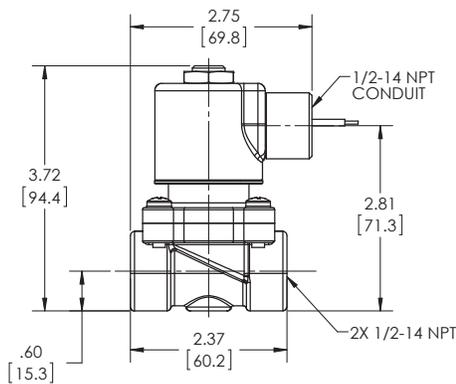
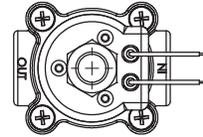
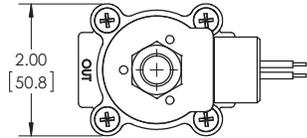
Housing: Grommet and 1/2" NPT conduit - many options available.*

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

Repair Packs: See table on proceeding page.

Options: Alternate Elastomers, Spade Terminal Coil, European Style DIN, Explosion Proof, Magnetic Latching Coil and Solid-State Timer for use with DIN Coil*





**SERIES 80
MODEL 827
2WNC DIRECT LIFT
1/2 NPT PORTS
CONDUIT CONNECTION**

**SERIES 80
MODEL 827
2WNC DIRECT LIFT
1/2 NPT PORTS
GROMMET HOUSING WITH LEADS**

VALVE SPECIFICATIONS

MAX. OPER. PRESS. DIFF. +		MIN. OPER. PRESS. DIFF.	ORIFICE SIZE N.C.	CV FACTOR N.C.	VALVE NUMBER	
AC	DC				GROMMET HOUSING	CONDUIT HOUSING
100	40	0	1/2	4.0	827T20DGM	827T20DCM
100	40	0	1/2	4.0	827B12DGM	827B12DCM
100	30 (75)	0	3/4	5.8	827Y19DGM	827Y19DCM

+ Ratings in brackets are optional extended ratings; consult factory.

ORDERING INFORMATION:

WHEN ORDERING VALVES OR REPAIR PACKS ADD VOLTAGE AND FREQUENCY TO COMPLETE VALVE NUMBER. EXAMPLES: VALVE (827B12DGM 120/60) REPAIR PACK (K827BD 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 (O827B12DGM 120/60)