



**PETER
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SERIES ELW MINIATURE EXPLOSION PROOF VALVE

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

For hazardous locations.

Peter Paul has developed a UL approved, low watt, miniature, hazardous location valve with minimal space and energy requirements in volatile environments. This valve is the smallest hazardous location solenoid, with the best ambient and high temperature ratings on the market. A NEMA 4 rating is standard.

The Series 50 ELW miniature valve with encapsulated coil also serves as a general purpose valve for pneumatic and hydraulic conditions. It operates on only 1.8 watts, with fast response time from 4-16 milliseconds. Operating cycles are intermittent or continuous at speeds up to 600 CPM.



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 or factory.
Valve Temp. Range:	-13°F (-25°C) to 140°F (60°C) ambient; -13°F (-25°C) to 248°F (120°C) media.
Max. Operating Pressure Differentials:	See Chart on back
Burst Press.:	5000 PSI
Leakage:	Bubble tight for standard valves
Vacuum:	To 5 Microns - Consult factory

ELECTRICAL CHARACTERISTICS

Coil Voltage:	6 to 277 Volts, DC, 50 Hz or 60 Hz. All standard voltages (U.S. & Export) carried in stock. Special voltages readily produced on order.
Nominal Power:	Series 50 ELW 1.8 watts
Coil Construction:	NEMA 4 with 24" leads. Other lead lengths available.
Typical Response Time on Air:	4-16 milliseconds
Operating Speed:	Up to 600 CPM
Duty Cycle:	Continuous

MECHANICAL CHARACTERISTICS

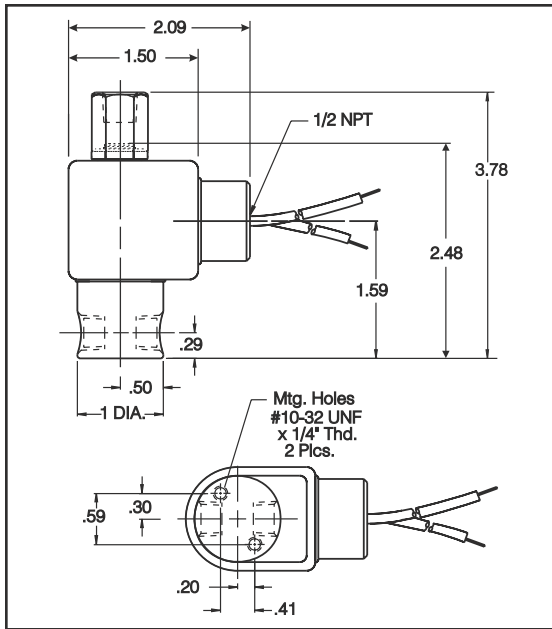
Material:	All standard metallic interior parts are stainless steel. Brass and aluminum available.
Orifice Diameter:	See Chart on back
Porting:	1/8 NPT
Housing:	Explosion proof construction with 1/2 NPT conduit connection and third wire ground.
Listings:	Valves are U.L. Listed for Hazardous Locations - Class I, Div 1, Groups A, B, C and D - Class II, Div 1, Groups E, F, and G: "T" Rating of T5 (100°C) with 60°C media or T4 (135°C) with 120°C media.
Life Expectancy:	Millions of cycles, depending on application, lubrication, etc.
Valve Weight:	.60 lbs
Repair Packs:	Consult Factory

OPTIONS:

Metering, bottom orifice or cavity porting, manifold mount, built-in muffler, universal mounting bracket, potted coil.

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.



New Molded Coil & Sleeve (Explosion-Proof)	
Configuration	
Power	1.8 W
Coil Configuration	NEMA 4 Encapsulated
Approval	UL Listed
Designation	ELW
Pressure Rating	See Table Below
Housing	Conduit Boss
Operation	2W-NO, 2W-NC, 3W-NC

Consult factory for specific part numbers.

ELW 1.8 Watts						
Rating	Bottom Orifice	Top Orifice	GAS		LIQUID	
			AC PSI Rating	DC PSI Rating	AC PSI Rating	DC PSI Rating
2W NO	N/A	G 1/32	300	200	300	200
	N/A	H 3/64	270	120	120	65
	N/A	J 1/16	135	50	40	30
	N/A	V 5/64	70	35	30	20
	N/A	K 3/32	55	30	25	15
2W NC	G 1/32	N/A	600	200	600	200
	H 3/64	N/A	250	80	250	80
	J 1/16	N/A	150	50	150	50
	V 5/64	N/A	100	25	100	25
	K 3/32	N/A	85	20	85	20
	N 1/8	N/A	50	N/A	50	N/A
	O 5/32	N/A	15	N/A	15	N/A
3W NC	G 1/32	G 1/32	215	135	215	135
	G 1/32	H 3/64	215	120	120	65
	G 1/32	J 1/16	135	50	40	30
	G 1/32	V 5/64	70	35	30	20
	G 1/32	K 3/32	55	30	25	15
	H 3/64	H 3/64	120	70	120	65
	H 3/64	J 1/16	120	50	40	30
	H 3/64	V 5/64	70	35	30	20
	H 3/64	K 3/32	55	30	25	15
	J 1/16	J 1/16	85	40	40	30
	J 1/16	V 5/64	70	35	30	20
	J 1/16	K 3/32	55	30	25	15
	V 5/64	V 5/64	50	30	30	20
	V 5/64	K 3/32	50	30	25	15
K 3/32	K 3/32	35	20	25	15	