

**PETER
PAUL**

SERIES 50 EW (5 WATTS AC & DC) MINIATURE HAZARDOUS LOCATION VALVES!

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

APPLICATION:

Peter Paul 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 EW miniature valve with encapsulated coil also serves as a general purpose valve for pneumatic and hydraulic conditions.

SPECIFICATIONS—

OPERATING CONDITIONS

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

Valve Temperature Range: Standard Valves - 0°F (-18°C) to 140°F (60°C) ambient; 0°F (-18°C) to 150°F (60°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: 24 to 277 VAC 50-60 HZ.-6 to 200 VDC. All standard voltages (U.S. & Export) carried in stock. Special voltages readily produced on order.

Nominal Power: **Series 50**
EW 5.0 watts AC and DC

Coil Construction: Standard, Molded with 24" leads.

Typical Response Time on Air: 4-16 Milliseconds

Operating Speed: Up to 600 CPM

Duty Cycle: Continuous or Intermittent

MECHANICAL CHARACTERISTICS

Material: All interior parts are stainless steel

Orifice Diameter: See catalog listings

Porting: 1/8 NPT

Housing: Encapsulated 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; Div 2 Groups A, B, C, D, E, F and G. "T" Rating as low as T4

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

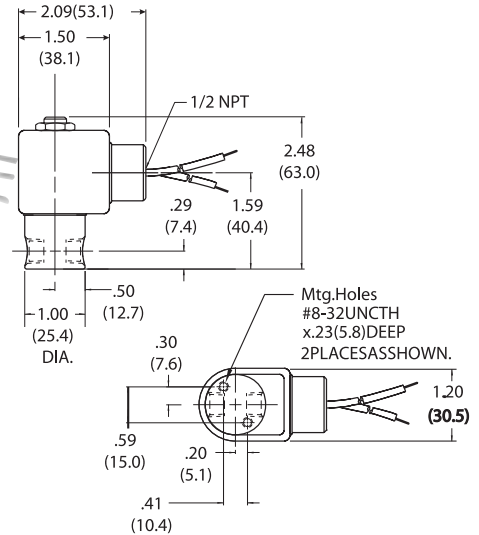
Valve Weight: Only .60 lbs average

Repair Packs: Consult Factory

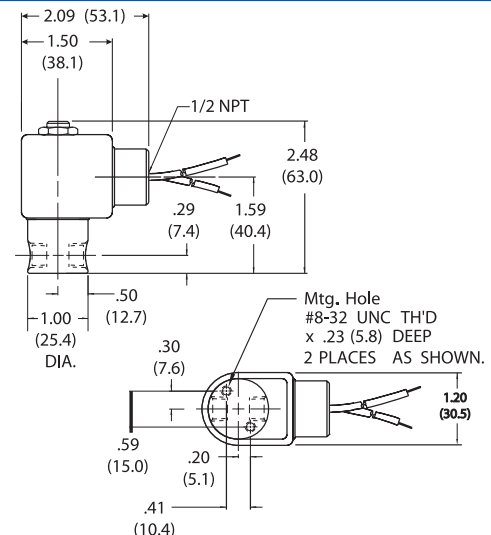
FOR FLOW CHARTS SEE PAGES 95-97

MINIATURE EXPLOSIONPROOF SOLENOID VALVE OPERATORS

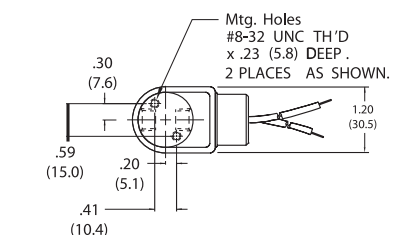
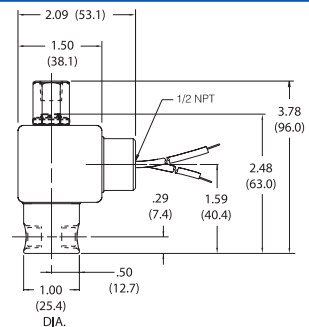
A complete line of valve operators for O.E.M. applications are offered for those who wish to incorporate them in their own product line. Full technical information and details are available for Peter Paul.



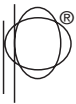
2-Way Normally Closed



**3-Way Normally Closed
Exhaust to Atmosphere**



3-Way Styles with Piped Sleeve



MODEL TYPE	FLOW CONFIGURATION		Valve Number	MAX. OPER. PRESS DIFF.		ORIFICE SIZE		CV FACTOR	
				AC	DC	INLET	EXH.	INLET	EXH.
MODEL EW51 2-Way Normally Open **	DE-ENERGIZED	ENERGIZED	EW51G8XCCP	700	700				.020
			EW51H8XCCP	500	500		1/32		.048
			EW51J8XCCP	200	200		3/64		.075
			EW51V8XCCP	135	135		1/16		.134
			EW51K8XCCP	100	100		5/64		.150
							3/32		
MODEL EW52 2-Way Normally Closed	DE-ENERGIZED	ENERGIZED	EW52G8DCCP	1000	1000	1/32		.022	
			EW52H8DCCP	500	500	3/64		.055	
			EW52J8DCCP	400	250	1/16		.075	
			EW52V8DCCP	200	200	3/64		.134	
			EW52K8DCCP	150	150	3/32		.156	
			EW52N8DCCP	125	75	1/8		.230	
			EW52O8DCCP	50	10	5/32		.292	
MODEL EW53 3-Way Normally Closed ATMOSPHERE EXHAUST	DE-ENERGIZED	ENERGIZED	EW53GG8DCCP	250	250	1/32	1/32	.022	.020
			EW53HH8DCCP	150	150	3/64	3/64	.055	.048
			EW53HJ8DCCP	150	150	3/64	1/16	.055	.075
			EW53JJ8DCCP	100	100	1/16	1/16	.075	.075
			EW53KK8DCCP	50	50	3/32	3/32	.150	.150
MODEL EW53 3-Way Normally Closed WITH PIPED EXHAUST **	DE-ENERGIZED	ENERGIZED	EW53GG8XCCP	250	250	1/32	1/32	.022	.020
			EW53HH8XCCP	150	150	3/64	3/64	.055	.048
			EW53HJ8XCCP	150	150	3/64	1/16	.055	.075
			EW53JJ8XCCP	100	100	1/16	1/16	.075	.075
			EW53KK8XCCP	50	50	3/32	3/32	.150	.150
MODEL EW54 3-Way Normally Open **	DE-ENERGIZED	ENERGIZED	EW54GG8XCCP	200	150	1/32	1/32	.020	.022
			EW54HH8XCCP	125	90	3/64	3/64	.048	.055
			EW54JJ8XCCP	100	60	1/16	1/16	.075	.075
			EW54VV8XCCP	75	40	3/64	3/64	.134	.134
			EW54KK8XCCP	50	25	3/32	3/32	.150	.150
MODEL EW55 3-Way Directional Control **	DE-ENERGIZED	ENERGIZED	EW55GG8XCCP	300	225	1/32*	1/32	.022*	.020
			EW55HH8XCCP	250	80	3/64*	3/64	.055*	.048
			EW55JJ8XCCP	125	40	1/16*	1/16	.075*	.075
			EW55VV8XCCP	70	25	5/64*	5/64	.134*	.134
			EW55KK8XCCP	55	20	3/32*	3/32	.150*	.150
MODEL EW56 3-Way Multi-purpose **	DE-ENERGIZED	ENERGIZED	EW56GG8XCCP	125	100	1/32*	1/32	.022*	.020
			EW56HH8XCCP	100	40	3/64*	3/64	.055*	.048
			EW56JJ8XCCP	65	20	1/16*	1/16	.075*	.075
			EW56VV8XCCP	45	15	5/64*	5/64	.134*	.134
			EW56KK8XCCP	40	10	3/32*	3/32	.150*	.150

*Normally closed orifice

** Pressure rating may change due to the viscosity of the liquid - consult factory for de-rating.