

**PETER PAUL**

# SERIES 50 SUPER LOW WATT (SLW) (1.8 WATTS AC & DC) SERIES 50 SUPER LOW LOW WATT (SLLW) (.50 WATTS DC)

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

## APPLICATION:

General purpose or safety valves for pneumatic and hydraulic applications. The versatility of these valves is increased to include the handling of hot air, hot water, refrigerants and many other media, by the use of different Seals.

Note: The SLLW Valve is not a safety valve.

## 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 140°F (60°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:** 24 to 277 VAC 50-60 HZ.—6 to 120 VDC. All standard voltages (U.S. & Export) carried in stock. Special voltages readily produced on order.

**Nominal Power:** **Series 50**

SLW 1.8 watts AC and DC

SLLW .50 watts DC only

**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:** 1/2 NPT conduit connection and third wire ground.

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

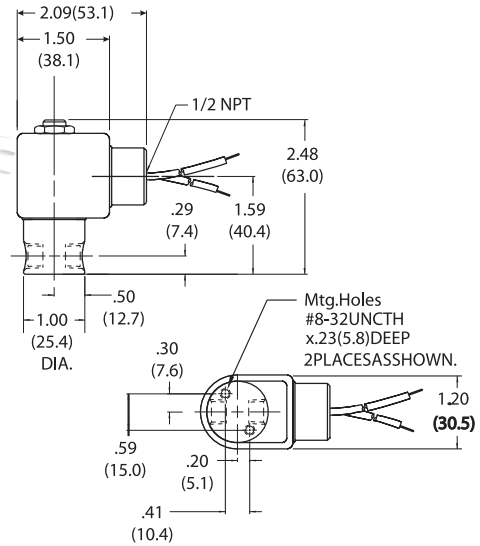
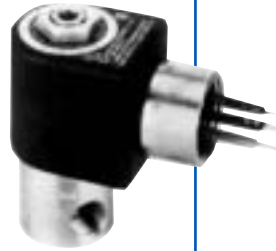
**Valve Weight:** Only .60 lbs average

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

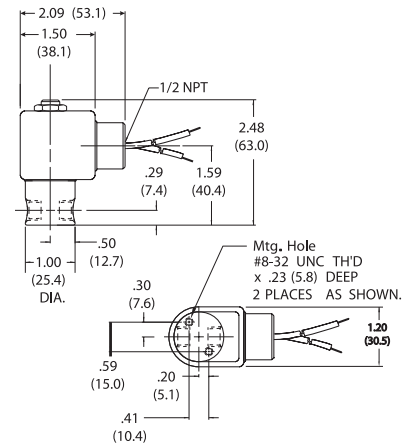
FOR FLOW CHARTS SEE PAGES 95-97

### SOLENOID VALVE OPERATORS

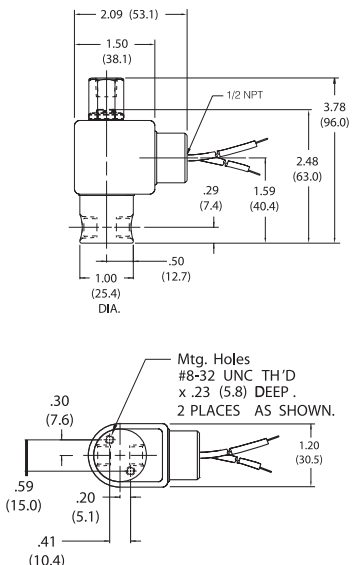
A complete line of valve operators for O.E.M. applications are offered for those who wish to incorporate them in their own product line. Full technical information and details are available from Peter Paul.



**2-Way Normally Closed**



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



**3-Way Normally Closed Piped Exhaust**



# SOLENOID VALVES . . .

Table A	FLOW CONFIGURATION	VALVE NO.	SUFFIX	SLW 1.8 Watts		MAXIMUM OPERATING PRESSURE DIFFERENTIAL			
				ORIFICE SIZE		Gas		Liquid	
				Inlet	Exhaust	AC	DC	AC	DC
Model SLW51 2 Way Normally Open		SLW51G8XCCP			G 1/32	300	200	300	200
		SLW51H8XCCP (G or L)		H 3/64	270	120	120	65	
		SLW51J8XCCP (G or L)		J 1/16	135	50	40	30	
		SLW51V8XCCP (G or L)		V 5/64	70	35	30	20	
		SLW51K8XCCP (G or L)		K 3/32	55	30	25	15	
Model SLW52 2 Way Normally Closed		SLW52G8DCCP		G 1/32	600	200	600	200	
		SLW52H8DCCP		H 3/64	250	80	250	80	
		SLW52J8DCCP		J 1/16	150	50	150	50	
		SLW52V8DCCP		V 5/64	100	25	100	25	
		SLW52K8DCCP		K 3/32	85	20	85	20	
		SLW52N8DCCP		N 1/8	50		50		
		SLW52O8DCCP		O 5/32	15		15		
Model SLW53 3 Way Normally Closed Exhaust to Atmosphere		SLW53GG8DCCP		G 1/32	G 1/32	215	135	215	135
		SLW53GH8DCCP (G or L)		G 1/32	H 3/64	215	120	120	65
		SLW53GJ8DCCP (G or L)		G 1/32	J 1/16	135	50	40	30
		SLW53GV8DCCP (G or L)		G 1/32	V 5/64	70	35	30	20
		SLW53GK8DCCP (G or L)		G 1/32	K 3/32	55	30	25	15
		SLW53HH8DCCP (G or L)		H 3/64	H 3/64	120	70	120	65
		SLW53HJ8DCCP (G or L)		H 3/64	J 1/16	120	50	40	30
		SLW53HV8DCCP (G or L)		H 3/64	V 5/64	70	35	30	20
		SLW53HK8DCCP (G or L)		H 3/64	K 3/32	55	30	25	15
		SLW53JJ8DCCP (G or L)		J 1/16	J 1/16	85	40	40	30
		SLW53JV8DCCP (G or L)		J 1/16	V 5/64	70	35	30	20
		SLW53JK8DCCP (G or L)		J 1/16	K 3/32	55	30	25	15
		SLW53VV8DCCP (G or L)		V 5/64	V 5/64	50	30	30	20
		SLW53VK8DCCP (G or L)		V 5/64	K 3/32	50	30	25	15
		SLW53KK8DCCP (G or L)		K 3/32	K 3/32	35	20	25	15
Model SLW53 3 Way Normally Closed Piped Exhaust		SLW53GG8XCCP		G 1/32	G 1/32	215	135	215	135
		SLW53GH8XCCP (G or L)		G 1/32	H 3/64	215	120	120	65
		SLW53GJ8XCCP (G or L)		G 1/32	J 1/16	135	50	40	30
		SLW53GV8XCCP (G or L)		G 1/32	V 5/64	70	35	30	20
		SLW53GK8XCCP (G or L)		G 1/32	K 3/32	55	30	25	15
		SLW53HH8XCCP (G or L)		H 3/64	H 3/64	120	70	120	65
		SLW53HJ8XCCP (G or L)		H 3/64	J 1/16	120	50	40	30
		SLW53HV8XCCP (G or L)		H 3/64	V 5/64	70	35	30	20
		SLW53HK8XCCP (G or L)		H 3/64	K 3/32	55	30	25	15
		SLW53JJ8XCCP (G or L)		J 1/16	J 1/16	85	40	40	30
		SLW53JV8XCCP (G or L)		J 1/16	V 5/64	70	35	30	20
		SLW53JK8XCCP (G or L)		J 1/16	K 3/32	55	30	25	15
		SLW53VV8XCCP (G or L)		V 5/64	V 5/64	50	30	30	20
		SLW53VK8XCCP (G or L)		V 5/64	K 3/32	50	30	25	15
		SLW53KK8XCCP (G or L)		K 3/32	K 3/32	35	20	25	15

Table B	FLOW CONFIGURATION	VALVE NO.	SLLW .50 Watts		Gas Only
			Inlet	Exhaust	DC
Model SLLW52 2 Way Normally Closed		SLLW52G8DCCP	G 1/32		120
Model SLLW53 3 Way Normally Closed Exhaust to Atmosphere		SLLW53GG8DCCP	G 1/32	G 1/32	120
Model SLLW53 3 Way Normally Closed Piped Exhaust		SLLW53GG8XCCP	G 1/32	G 1/32	120