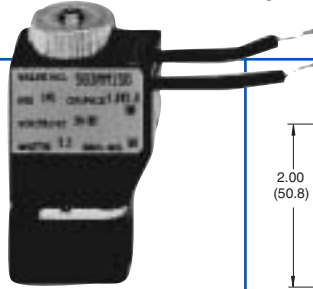


**PETER PAUL**

# SERIES 58 Low Watt Sub-Miniature Valves (3.5 WATTS) SERIES L58 Low Watt Sub-Miniature Valves (0.9 WATTS)

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



### APPLICATION:

The Series 58 can be easily interfaced with circuit boards and miniaturized components. The versatility is for connecting electronic signals to pneumatic outputs. The small size is ideal for stand alone (with #10-32 ports) or multiple valves mounted on one manifold. May be used to "pilot" larger valves. These valves are ideal for micro electronic production equipment and medical or chemical analytical applications and can operate directly from most programmable controllers.

### SPECIFICATIONS—

#### OPERATING CONDITIONS

**Media:** Air and other common gasses - filtration recommended 30 microns or less.

**Valve Temperature Range:** Standard Valves - 5°F (-15°C) to 122° F (50° C) ambient; media.

**Maximum Operating Pressure Differentials:** See catalog listings

**Burst Pressure:** 1500 PSI

**Leakage:** Bubble tight for standard valves

**Vacuum:** To 5 Microns - Consult factory

**Coil Voltage:** 6 to 220 VAC 50-60 Hz. - 2 to 150V DC. All standard voltages (U.S. & Export) carried in stock. Special voltages readily produced on order.

#### ELECTRICAL CHARACTERISTICS

Nominal Power:	Series	Watts
Table A	58	3.5
Table B	L58	0.9

**Coil Construction:** Molded

**Typical Response Time on Air:** AC - 3 TO 9 ms. DC - 9 ms.

**Duty Cycle:** Continuous or intermittent

#### MECHANICAL CHARACTERISTICS

**Material:** Moving parts - stainless steel  
Body - Plastic  
Seals - Nitrile (Buna N) Standard. FKM or EPDM © Optional.

**Orifice Diameter:** See catalog listings

**Porting:** 10-32 Thd., Stud Mount, Manifold Mount

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

**Valve Weight:** Approximately 2 oz.

**Repair Packs:** Consult factory.

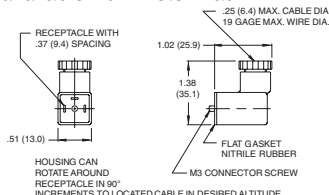
**Options:** Stainless Steel or Brass Body  
Stainless Steel or Brass 10-32 Thd. Stud Mount

FOR FLOW CHARTS SEE PAGES 95-97

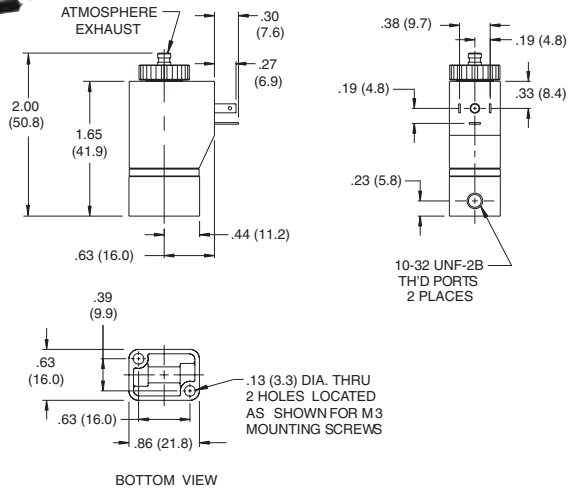
For Numbering system chart see page 105

### MINIATURE SOLENOID VALVE OPERATORS

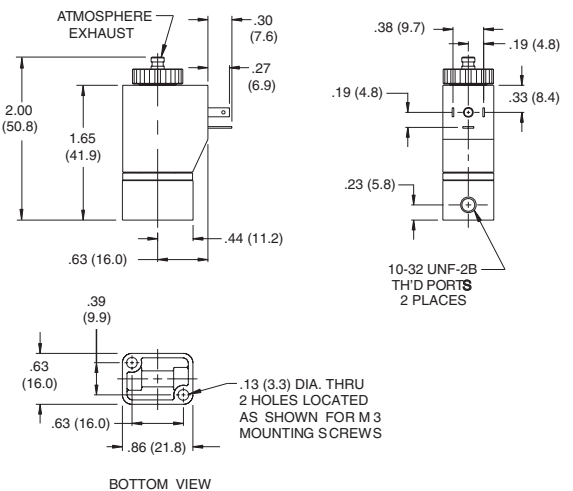
A complete line of valve operators for O.E.M. applications are offered for those who wish to incorporate them in their own product line. Full technical information and details are available from Peter Paul.



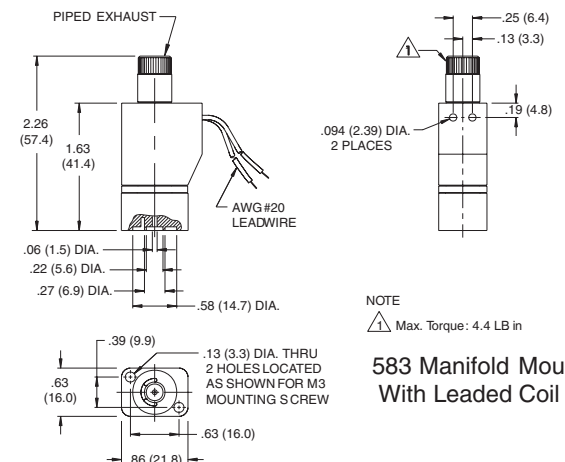
With European Style Micro DIN Connector Plug number 58-19005



**2-Way Normally Closed**



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



**3-Way Normally Closed Piped Exhaust**

**583 Manifold Mount With Leaded Coil**

# SOLENOID VALVES . . .























Table A	FLOW CONFIGURATION	Valve No:	Max Operating Pressure Differential		3.5 Watts Orifice Size		CV Factor	
			AC	DC	Inlet	Exhaust	Inlet	Exhaust
<b>Model 581</b> 2 Way Normally Open	DE-ENERGIZED      ENERGIZED 2 WNO  	581A15PE	300	300		.6MM		0.010
		581F15PE	275	275		.8MM		0.020
		581M15PE	230	230		1.0MM		0.030
		581W15PE	150	150		1.2MM		0.034
<b>Model 582</b> 2 Way Normally Closed	DE-ENERGIZED      ENERGIZED 2 WNC  	582A15DE	300	300	.6MM		0.010	
		582F15DE	250	250	.8MM		0.020	
		582M15DE	150	150	1.0MM		0.030	
		582W15DE	135	135	1.2MM		0.034	
<b>Model 583</b> 3 Way Normally Closed Exhaust to Atmosphere	DE-ENERGIZED      ENERGIZED 3 WNC  	583AA15DE	300	300	.6MM	.6MM	0.010	0.010
		583AF15DE	300	300	.6MM	.8MM	0.010	0.020
		583FF15DE	250	250	.8MM	.8MM	0.020	0.020
		583MM15DE	145	145	1.0MM	1.0MM	0.030	0.030
		583WW15DE	100	100	1.2MM	1.2MM	0.034	0.034
<b>Model 583</b> 3 Way Normally Closed Piped Exhaust	DE-ENERGIZED      ENERGIZED 3 WNC  	583AA15PE	300	300	.6MM	.6MM	0.010	0.010
		583AF15PE	300	300	.6MM	.8MM	0.010	0.020
		583FF15PE	250	250	.8MM	.8MM	0.020	0.020
		583MM15PE	145	145	1.0MM	1.0MM	0.030	0.030
		583WW15PE	100	100	1.2MM	1.2MM	0.034	0.034
<b>Model 584</b> 3 Way Normally Open	DE-ENERGIZED      ENERGIZED 3 WNO  	584AA15PE	145	145	.6MM	.6MM	0.010	0.010
		584FF15PE	100	100	.8MM	.8MM	0.020	0.020
		584MM15PE	50	50	1.0MM	1.0MM	0.030	0.030
		584WW15PE	40	40	1.2MM	1.2MM	0.034	0.034
<b>Model 585</b> 3 Way Directional Control	DE-ENERGIZED      ENERGIZED 3 WDC  	585AA15PE	300	300	.6MM	.6MM	0.010	0.010
		585FF15PE	200	200	.8MM	.8MM	0.020	0.020
		585MM15PE	50	50	1.0MM	1.0MM	0.030	0.030
		585WW15PE	35	35	1.2MM	1.2MM	0.034	0.034
<b>Model 586</b> 3 Way Multi- Purpose	DE-ENERGIZED      ENERGIZED 3 WMP  	586AA15PE	145	145	.6MM	.6MM	0.010	0.010
		586FF15PE	100	100	.8MM	.8MM	0.020	0.020
		586MM15PE	50	50	1.0MM	1.0MM	0.030	0.030
		586WW15PE	20	20	1.2MM	1.2MM	0.034	0.034

Table B	FLOW CONFIGURATION	Valve No:	Max Operating Pressure Differential		.9 Watts Orifice Size		CV Factor	
			AC	DC	Inlet	Exhaust	Inlet	Exhaust
<b>Model L581</b> 2 Way Normally Open	DE-ENERGIZED      ENERGIZED 2 WNO  	L581A15PE	150	150		.6MM		0.010
		L581F15PE	130	130		.8MM		0.020
<b>Model L582</b> 2 Way Normally Closed	DE-ENERGIZED      ENERGIZED 2 WNC  	L582A15DE	150	150	.6MM		0.010	
<b>Model L583</b> 3 Way Normally Closed Exhaust to Atmosphere	DE-ENERGIZED      ENERGIZED 3 WNC  	L583AA15DE	145	145	.6MM	.6MM	0.010	0.010
		L583AF15DE	145	145	.6MM	.8MM	0.010	0.020
<b>Model L583</b> 3 Way Normally Closed Piped Exhaust	DE-ENERGIZED      ENERGIZED 3 WNO  	L583AA15PE	145	145	.6MM	.6MM	0.010	0.010
		L583AF15PE	145	145	.6MM	.8MM	0.010	0.020