

Sub-miniature Solenoid Valves



Our IPS Sub-miniature Solenoid Valves

offer precision performance under extreme conditions. Offered as 2-Way and 3-Way Valves with four internal body configurations and three seat sealing methods, our IPS Sub-miniature Solenoid Valves are suitable for a wide range of ultra clean to highly corrosive media applications.

Our PTFE wetted surface design is ideally suited for semiconductor, pharmaceutical, bio-medical and chemical process applications. Configurable with a FKM-Viton Seat, FEPM-AFLAS Seat or FFKM-Kalrez Seat,



the Sub-mini Series Solenoid Valve line provides unsurpassed chemical compatibility with a wide range of flow media. The PTFE body, valve stem and one piece diaphragm maintain a material inert bound-ary for ultra-clean and

harsh-caustic applications.

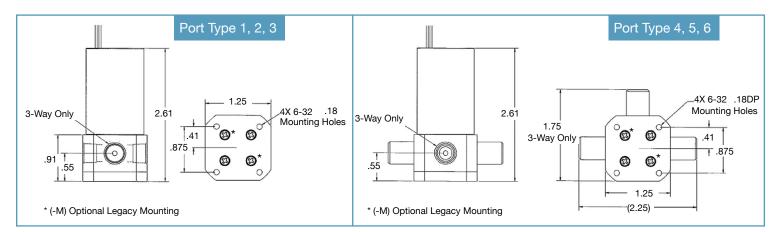
HIGHLIGHTS:

- PTFE design optimized for ultra clean and chemical compatibility.
- Configurations available for various DC & AC voltages.
- Fast, accurate and repeatable coil response time from proven technology.
- Valve seat and diaphragm designed for positive flushing and bubble-tight shut off.
- Non-porous diaphragm configured to completely isolate solenoid coil from media.
- 100% coil driven does not require energizing pressure or vacuum to operate.
- Maximum recommended Duty Cycle 62%.
- Designed for aggressive media and elevated temperature.

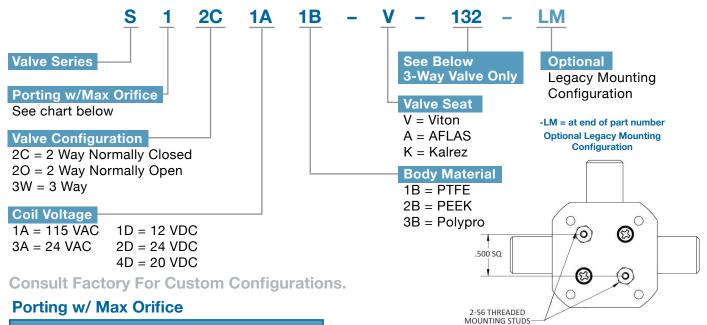
Maximum Port Pressure Rating (psi)	O-Ring Seat 3-Way	
Common Port	80	
Normally Closed Port	40	
Normally Open Port	40	
	2-Way NC	
Inlet Port	80	
Outlet Port	utlet Port 40	
	2-Way NO	
Inlet Port	80	
Outlet Port	40	



General Valve Parameters	
0.063" Orifice Cv (2-Way / 3-Way)	0.06 / 0.05
0.094" Orifice Cv (2-Way / 3-Way)	0.12 / 0.11
Common Port Vacuum in-Hg (max)	20
Media Temperature (range)	0 - 100°C / 32 - 212°F
Ambient Temperature (range)	0 - 60°C / 32 - 140°F
Wattage Range	10 -12 W
Voltage Tolerance	+/-10%
Coil Lead Length (2 Wire)	24"



Solenoid Valves: ORDERING FORMAT



Port Type/Size and Standard Orifice			
1	1/4"-28-UNF Female with 0.063" Orifice		
2	1/8" FNPT with 0.094" Orifice		
3	#10-32-UNF Female with 0.063" Orifice		
4	1/4" FNPT with 0.094" Orifice		
5	1/8" Tube with 0.094" Orifice		
6	1/4" Tube with 0.094" Orifice		
7	1/16" FNPT with 0.063" Orifice		
8	1/16" Tube with 0.032" Orifice		
9	1/4" Flare with 0.094" Orifice		

Port Arrangements

The port orientation can be arranged in four possible patterns on our 3-Way Solenoid Valves.

Looking Down at the Top of the Coil					
STD					
NC	NONC	C NC	NO C		
132 C	123 C	213 NO	321 NC		

STD = 132 is our standard Port Arrangement.

IPS Product Notes:

- 1. Please email Customer Service at info@ipolymer.com.
- 2. Call us for special applications. We can manufacture our Valves with special mounting and interface dimensions.
- 3. Upon request, alternate material selection from those listed will allow for expanding temperature ratings or other performance characteristics.
- 4. Unauthorized disassembly of this product will void the original factory one-year product warranty. For further details please contact your local Distributor or our factory directly.

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