

Solenoid Valve

Data Sheet

Type: PS4C



Purpose:

The PS4C weld-in line series solenoid valves are designed to overcome corrosion problems encountered in harsh environments. Being weld-in, the valves reduce the potential for connection leaks and can be entirely serviced from the top.

This improved design has a higher working pressure, greater working temperature range and higher flow capacities than competitive products.

These valves provide long-term performance and with replaceable internal components. Specially designed wear rings eliminate the need for removal of the body from the line (maintenance-free).



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Product Features:

- Stainless steel construction increases product life cycle
- Cartridge based design simplifies service and eliminates body wear
- Increased flow capacity enables smaller valve sizing
- Overall weight reduction up to 50% compared to traditional flanged products
- Integral features prevent contaminants from reaching the pilot section of the valve
- Suitable for ammonia, CO₂ and halocarbon refrigerants
- Multiple refrigerant capacities available
- Interchangeable with other P-Series offerings
- Coil options to meet various applications



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Technical Data

- Liquid Temperature Range:
-60°C to 120°C (-76°F to 248°F)
- Ambient Temperature Range:
-60°C to 71°C (-71°F to 160°F)
- Max Rated Pressure (MRP):
52 barg (754 psig)
- Minimum Pressure Drop:
0.14 barg (2 psig)

- Port sizes:

mm	inch
25 ⁽¹⁾	1"

- Flow Coefficients:

Port Size		K _v	C _v
mm	inch		
25	1"	12.0	14.0

- Connections Types and Sizes:

Port Size		SW, BW SS ANSI	BW DIN
mm	inch		
25	1"	¾", 1", 1¼"	20, 25, 32

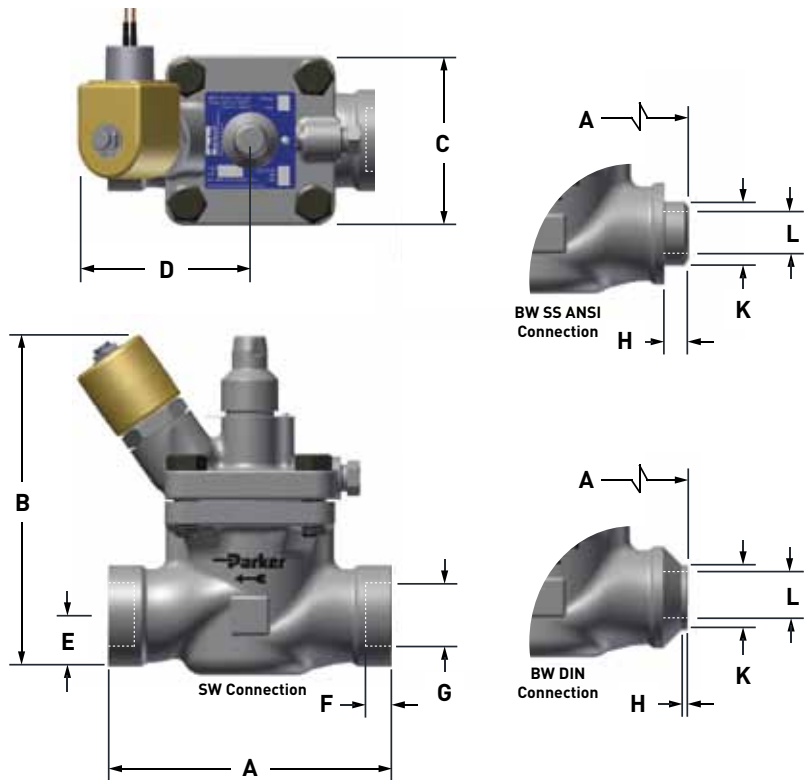
- Maximum Operating Pressure Difference (MOPD):
20.7 barg (300 psid)

- Weight:

Valve Type	kg	lbs
PS4C	5.1	11.2

- Coil Voltages:

100-110V AC/60 Hz, 100V AC/50 Hz
 120V AC/60 Hz, 110V AC/50 Hz
 200-220V AC/60 Hz, 200V AC/50 Hz
 208-240V AC/60 Hz
 240V AC/60 Hz, 220V AC/50 Hz
 24V DC



Dimensional Diagram: PS4C Solenoid Valve

Port Size		A		B		C		D		E	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
25	1"	149	5.9	180	7.1	89	3.5	89	3.5	28	1.1

Port Size		SW Connections							
		Dimensions		¾"		1"		1¼"	
mm	inch		mm	inch	mm	inch	mm	inch	
25	1"	G	28	1.08	34	1.35	43	1.69	
		F	13	0.50	13	0.50	13	0.50	

Port Size		BW Stainless Steel (SS) ANSI Connections							
		Dimensions		¾"		1"		1¼"	
mm	inch		mm	inch	mm	inch	mm	inch	
25	1"	H	14	0.55	14	0.55	14	0.55	
		K	27	1.06	34	1.33	42	1.67	
		L	21	0.82	27	1.05	35	1.38	

Port Size		BW DIN Connections							
		Dimensions		20mm		25mm		32mm	
mm	inch		mm	inch	mm	inch	mm	inch	
25	1"	H	2.8	0.11	2.8	0.11	28	0.11	
		K	28	1.10	34	1.34	43	1.70	
		L	26	1.02	32	1.28	41	1.61	

⁽¹⁾ The 25 mm (1") port is available with a standard, 75% reduced, 50% reduced and 25% reduced plug.

