

Inlet Pressure Regulators

Data Sheet

Type: PA4C, PA4CZ, PA4CB, PA4CS,
PA4CBS, PA4CD



Purpose:

The PA4C weld-in line series inlet pressure regulators are designed to overcome corrosion problems encountered in harsh environments. Being weld-in, the valves reduce 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 and configurations 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

- Pressure Regulator Range:
Range A: 0.35 - 8.3 barg (5 - 120 psig)
- Maximum Operating Pressure
Difference (MOPD):
20.7 barg (300 psid)
- Weight:

Valve Type	kg	lbs
PA4C	5.1	11.2
PA4CS	6.0	13.2
PA4CB	6.0	13.2
PA4CBS	6.4	14.0
PA4CD	7.2	15.8
PA4CZ	5.6	12.3

- 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



PA4C: Inlet Pressure Regulator



PA4CZ: Inlet Pressure Regulator



PA4CB: Inlet Pressure Regulator with Electric Bypass



PA4CS: Inlet Pressure Regulator with Electric Shut-Off



PA4CD: Dual Inlet Pressure Regulator

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