Precision Pressure Regulators

DR-2BP-5

The DR-2 precision regulators are offered in either relieving or non-relieving versions. The relieving design maintains a constant pressure output even when downstream conditions change, while non-relieving regulators do not automatically compensate for changes in downstream flow or pressure. There is no vent to atmosphere, as in a relieving type regulator, and the output pressure can increase due to a downstream event. Non-relieving versions can also accommodate compatible liquid applications.

2D Drawings	2D Files
Accessories	Knob & Set Screw: AK2.5-B
Adjustment	Screwdriver Slot
Data Sheet	Data Sheet
Included Item(s)	Nut & Lockwashers
Input PSI	300 psig max. (20,7 bar)
Material, Body	Electroless Nickel Plated Brass
Material, Seals	FKM with PFPE Lube
Material, Spring & Spring	Stainless Steel Adjustment
Max. Pressure	1 to 50 psig (0,07-3,4 bar)
Medium	Air, Water* or Oil* (* non-relieving models)
Mount	#5/16-24 thread (M8x1.0 thread)
Non-Relieving Option	Standard Relieving
Notes	An extended 0.25" (6.4 mm) shaft accepts an adjustment knob or furnished with an exposed screwdriver slot with micro-adjustment (32 pitch thread). Knobs ordered separately.
Operating Temperature Range	32 to 230°F (0 to 110°C)
Ports (Inlet - Outlet)	1/8" NPT Male - 1/8" NPT Fem.
Product Line Brochure	Mechanical Valves
Repeatability	±0.25 psig (0.02 bar) typical
Set Point Sensitivity	≤0.5 psig (0.03 bar)
Set Point Stability	≤0.5 psig (0.03 bar)
Unit	Imperial
Weight (lbs.)	0.3000

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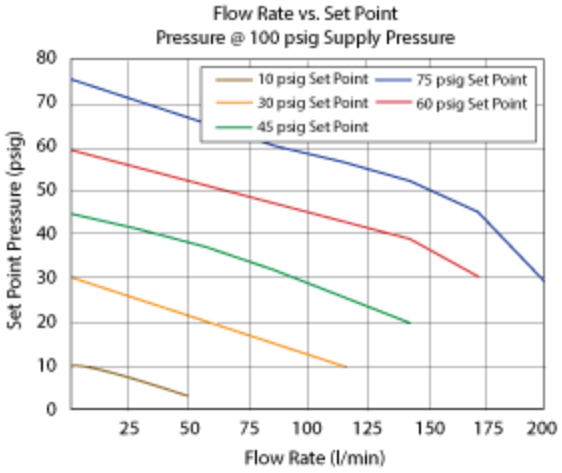
Flow Rate vs. Set Point
Pressure @ 100 psig Supply Pressure
10 psig Set Point
30 psig Set Point
45 psig Set Point
75 psig Set Point
60 psig Set Point
Set Point Pressure (psig)
0
10
20
30
40
50
60
70
80
25
50
75
100
125
150
175
200
Flow Rate (l/min)