

Pressure Reducing Regulators

PR2 Series



- ❖ Maximum rated inlet pressure 3000 psig (206 bar)
- ❖ Flow Coefficient $C_v=1.0$
- ❖ Single stage
- ❖ Metal-to-metal diaphragm seal
- ❖ 316, 316L or Brass, Alloy 276 and Alloy 400 body material

Pressure Reducing Regulators-PR2

The CIR-LOK PR2 Series is a compact, lightweight high purity single-stage regulator for specialty and industrial gas flows of less than 50 SCFM / 1415 SLPM. Sensitive, extra long-life metal diaphragm ensures gas purity and integrity.

Applications

- ❖ Laboratory and Point-of-Use Gas Systems in medical, pharmaceutical, food and beverage, and other high purity applications
- ❖ Process analyzer gases, metal fabrication and specialty and industrial gas cylinders

Features

- ❖ Cartridge valve design incorporates a 10 micron filter that protects the regulator seat and makes service simple
- ❖ Optional neoprene diaphragm provides exceptional sensitivity for precise pressure control
- ❖ Gauges, relief and shut-off valves, and cylinder connections are available

Operating Parameters

- ❖ Maximum Inlet Pressure
3000 psig (206 bar)
- ❖ Outlet Pressure Ranges
0-25 psig (0-1.7 bar), 0-50 psig (0-3.4 bar), 0-100 psig (0-6.8 bar), 0-125 psig (0-8.6 bar), 0-250 psig (0-17.2 bar)
- ❖ Design Proof Pressure
150% maximum rated
- ❖ Leakage
Internal: bubble-tight
External: design to meet $\leq 2 \times 10^{-8}$ mbar l/sec He
- ❖ Operating Temperature
PCTFE seat: -40 °F to 140 °F (-40 °C to 60 °C)
PEEK: -40°F to 392°F (-40°C to 200°C)
PI seat: -40 °F to 250 °F (-40 °C to 121 °C)
- ❖ Flow Capacity
Cv = 1.0

Cleaning

- ❖ CGA4.1 and ASTM G93 Grade C

Internal Volume

- ❖ 6 cc

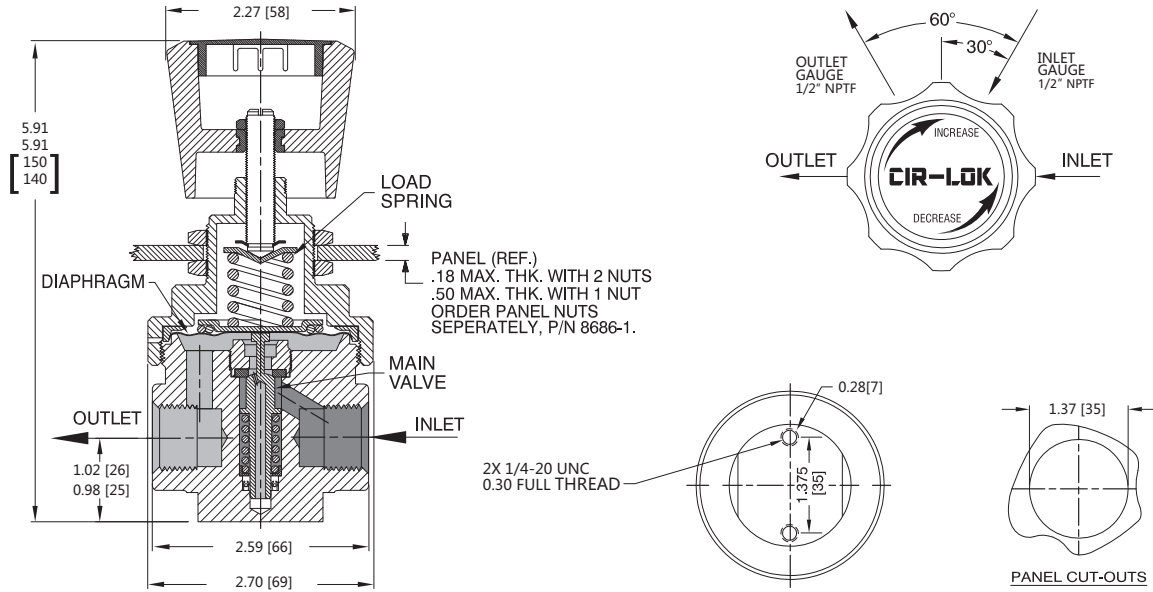
Weight (without gauges)

- ❖ 2.4 lbs / 1.1 kg

Wetted Material

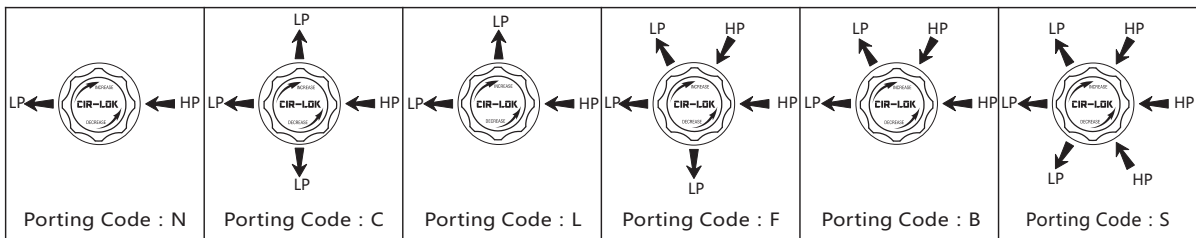
- ❖ Body
316L S. S., Brass
- ❖ Bonnet
300 series S. S., Brass
- ❖ Filter
10 micron nominal sintered 316 S. S.
310 micron nominal sintered Bronze
- ❖ Diaphragm
316 S. S.
- ❖ Seat
PEEK, PI, PCTFE
- ❖ Remaining Parts
316 S. S., Brass

Dimensions In. [millimeter]

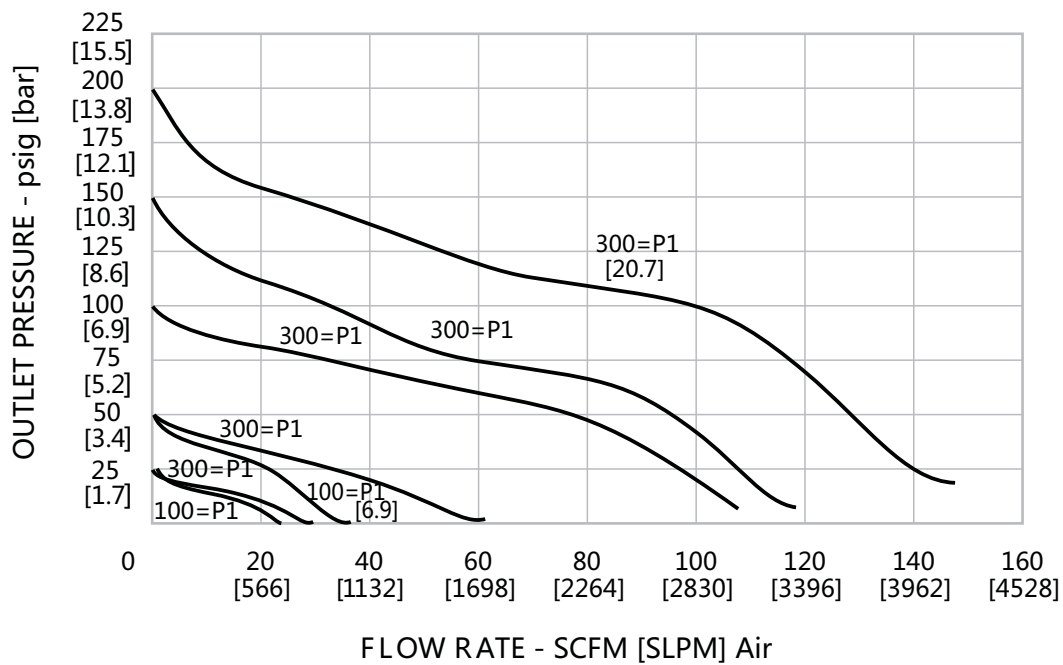
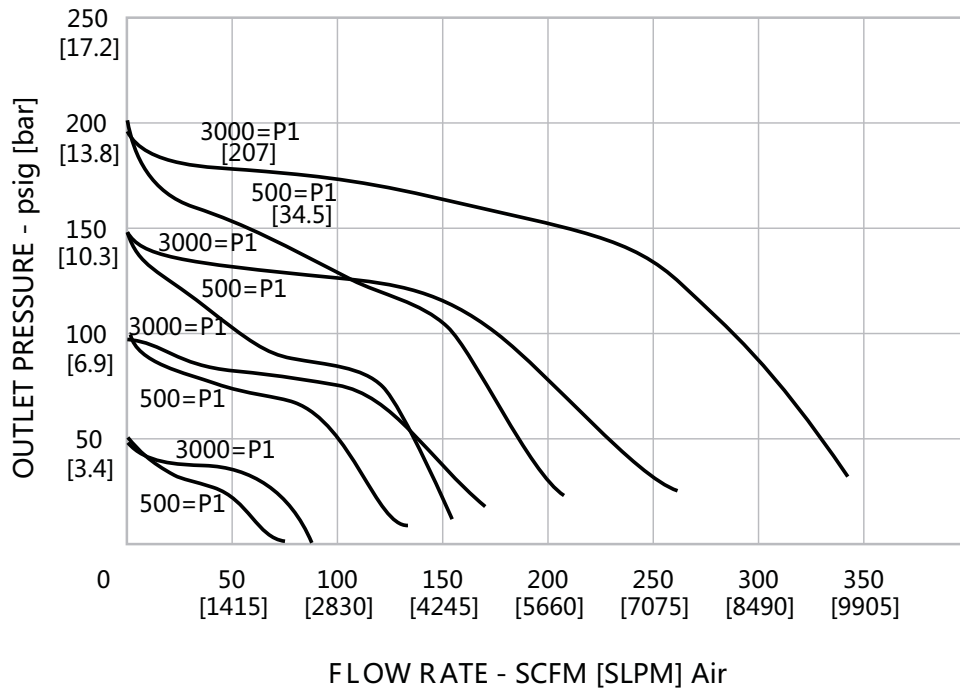


Port Configurations

Notes: HP=High Pressure; LP=Low Pressure



Flow Charts



How to Order

PR2 — **FNPT8** — **IB** — **3250G** — **316L**

Series	Inlet Type Outlet Type	Inlet Size Outlet Size	Seat Material	Porting	Intel Pressure	Out Pressure	Gauges	Body Material
PR2	FNPT Female NPT	6 3/8 in.	PCTFE	N No Gauge Ports	3 3000 psig	250 0-250 psig	G No gauges with gauges	316 316 S.S. 316L 316L S.S. A400 Alloy 400 A276 Alloy C276 BR Brass
	FBT Female BSPT	8 1/2 in.	P PEEK	L One Gauge Ports		125 0-125 psig		
	F Fractional Tube Fitting	10 10 mm	I PI	C One Gauge Ports		100 0-100 psig		
	M Metric Tube Fitting	12 12 mm		B Two Gauge Ports		50 0-50 psig		
				F Two Gauge Ports		25 0-25 psig		
				S Two Gauge Ports				