



aerospace  
climate control  
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hydraulics  
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# PR400 Series Regulators



ENGINEERING YOUR SUCCESS.

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## > INTRODUCTION

PR400 is a versatile, compact regulator designed to fulfill a wide range of needs in instrumentation analyzer, Labs and other process applications. Many features of PR400 make it ideal to control pressures from inlet pressure up to 4000 Psig to a lower value outlet pressure with excellent accuracy, sensitivity and set point pressure stability. Furthermore, we've made it easier to order and faster to deliver.

## > TYPICAL APPLICATIONS

- Analyzer sample systems
- Point-of-use for corrosive or specialty gases
- General purpose regulator for research labs
- Instrument calibration
- Breathing systems

## > FEATURES

- Robust product design with 316L stainless steel material.
- Instrument grade construction.
- Integrated filter screen.
- Positive upward and downward stops in operation.
- Strict quality control of manufacture and 100% factory testing.
- Excellent internal body surface finish and clean manufacturing environment.
- Oxygen cleaning option is available.
- Excellent endurance for high and low pressure application.
- Good performance for corrosion resistance.
- Precise control of high and low pressure gas.
- Though rated for 4000 psi (275 bar) supply pressure for cylinder use, it functions equally well with low supply pressure for point-of-use applications.
- Protect seat from impurities for longer service life.
- Increase cycle life by preventing over stroking of the diaphragm.
- Reliable performance and quality.
- Less particle contamination in the flow gas.
- Meeting oxygen service requirements according to ASTM G93.



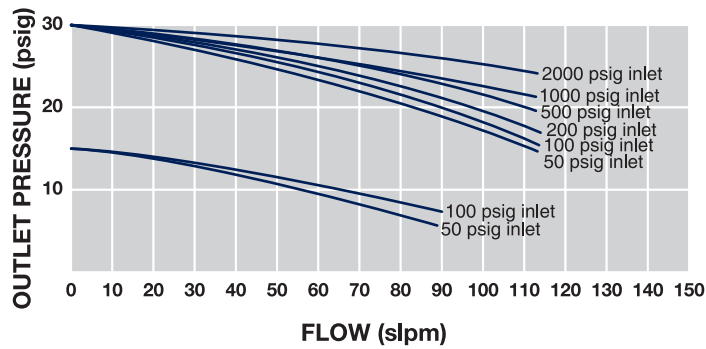
## > SPECIFICATIONS

Materials of Construction	
Body	316L Stainless Steel
Cap	316L Stainless Steel
Poppet	316L Stainless Steel
Poppet Spring	Inconel 600
Nozzle Assy	316L Stainless Steel
Nozzle Assy Seal	PTFE
Seat	PCTFE
Diaphragm	316L Stainless Steel
Filter	316L Stainless Steel, 25µm
Surface Finishes	
Standard Roughness	25 Micro Inch Ra Max

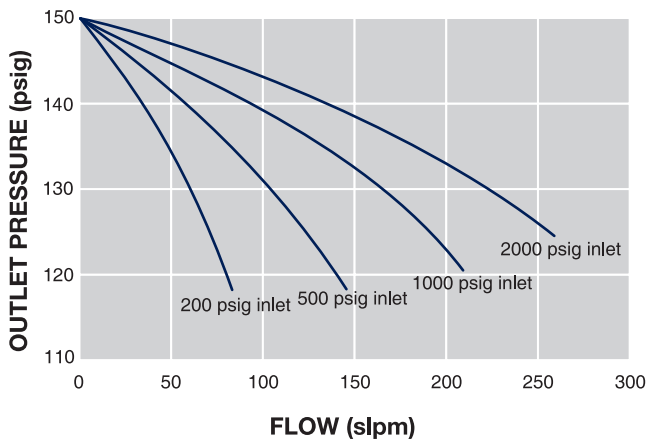
Operating Conditions	
Maximum Inlet	4000 psig (275 bar)
Outlet	1-30 psig (0.06 - 2 bar)
	4-150 psig (10.3 bar)
	5-300 psig (21 bar)
Temperature	-40°C to 66°C
Functional Performance	
Flow Capacity	Cv = 0.06 (ANSI/ISA S 75.02 using water)
Leakage	Bubble Tight
Approximate Weight	
1.5 lbs (0.7 kg)	

## ➤ FLOW CURVES

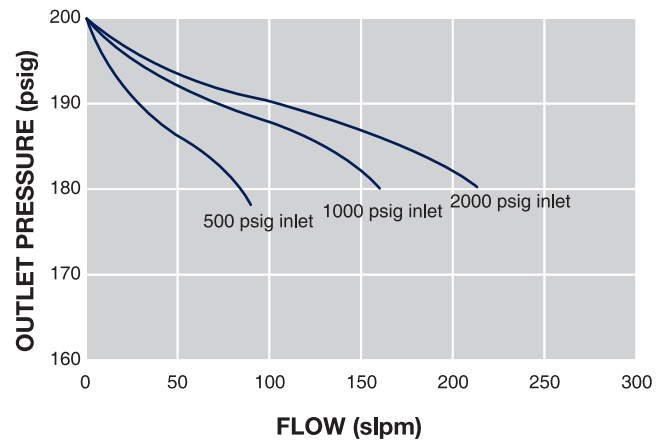
**PRESSURE REGULATOR PR400**  
Range: 1-30 psig



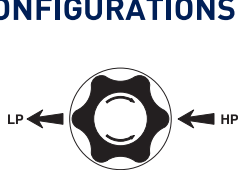
**PRESSURE REGULATOR PR4015**  
Range: 4-150 psig



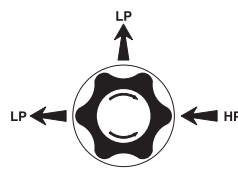
**PRESSURE REGULATOR PR402**  
Range: 5-300 psig



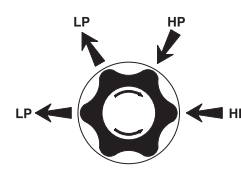
## ➤ PORTING CONFIGURATIONS



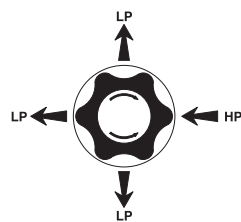
**Porting Code 2P**



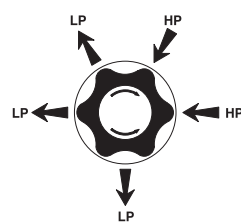
**Porting Code 3P**



**Porting Code 4P**

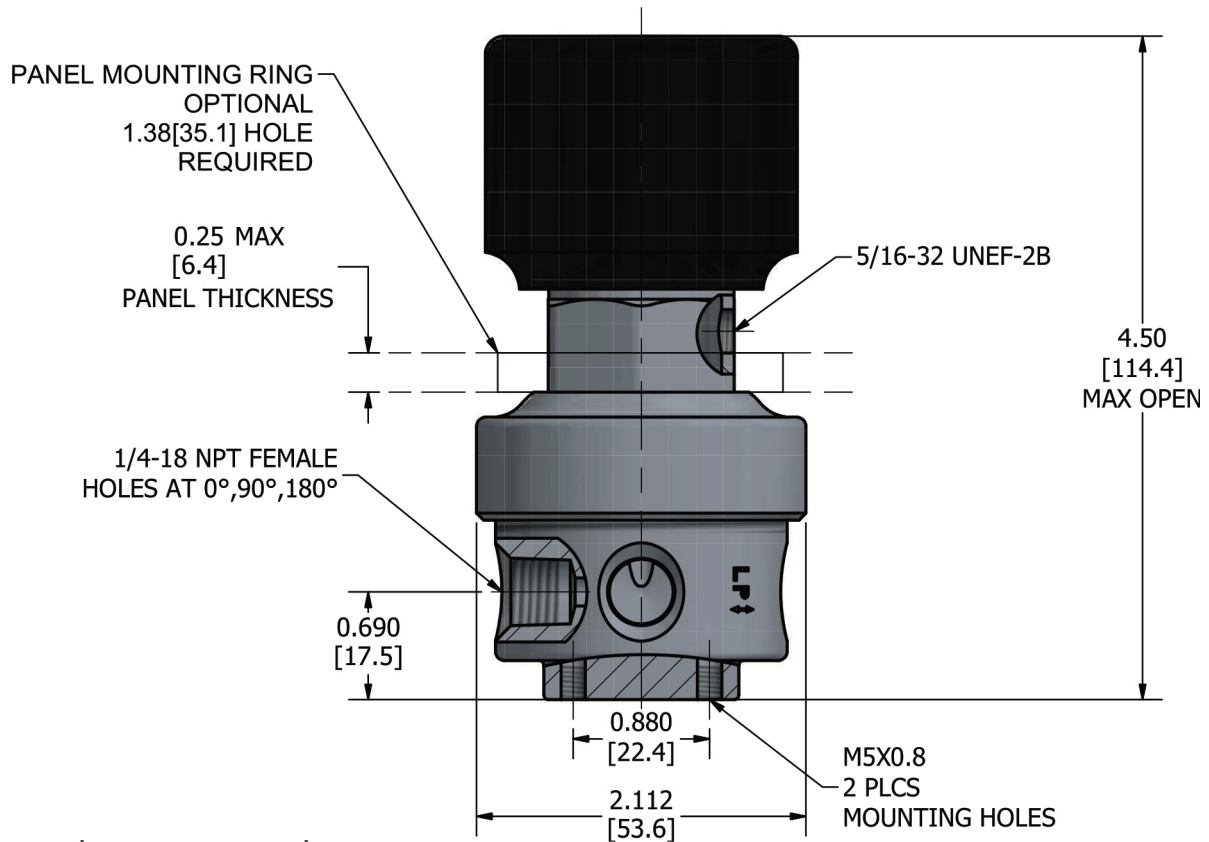


**Porting Code 4PB**



**Porting Code 5P**

## > DIMENSIONS



## > HOW TO ORDER

The correct part number is easily derived from the following number sequence. The product characteristics required are coded as shown below.

Example: **PR4015S3PX4** Describes a PR400 series regulator with 4-150 psig outlet pressure range, 3P porting, 316L stainless steel body material, and 1/4 NPT female port style.

PR	4015	S	3P	X	4
Series	Outlet Pressure Range	Body Material	Porting	Gauge	Port Style
PR	400 – 1-30 psig 4015 – 4-150 psig 402 – 5-300 psig	316L Stainless Steel	2P 3P 4P 4PB 5P	Blank – No Gauge for 2P X – No Gauge for 3P, 4PB XX – No Gauge for 4P, 5P	4 – 1/4 NPT Female

## > HOW TO ORDER OPTIONS

**Oxygen Cleaning** — Add the suffix **C3** to the end of the part number to receive valves cleaned and assembled for oxygen service.

**Panel Mount** — Add the suffix **PM** to the end of the part number to receive valves with panel mount function. Panel hole diameter: 33.3mm. Acceptable panel thickness range: 1.5~3.5mm.

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