IR4200 Series

Single Stage, General Purpose Pressure Regulator Internally Threadless, Brass

Value Proposition:

The IR4200 Series regulator offers high pressure capability with an inlet pressure up to 4,000 psig. The large convoluted Hastelloy C-22[®] diaphragm provides stable pressure control over the operational range of the regulator.

Close tolerances and tight alignment of moving components minimize hysteresis and improve cycle life. Convoluted, Hastelloy C-22® diaphragm provides high corrosion resistance and increases cycle life.



Contact Information:

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Product Features:

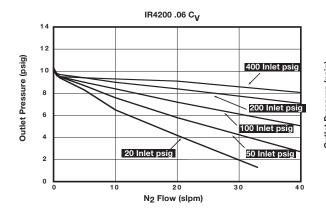
- Unique compression member loads the seal to the body without requiring a threaded nozzle or additional seals to atmosphere
- Internally threadless design reduces particle generation. Low internal volume reduces purge times
- Cleaned for O₂ service is standard

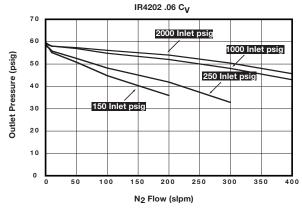
- Positive upward and downward stops increase cycle life by preventing over stroking of the diaphragm
- Express Service Program available noted in green italic print

IR4200 SERIES

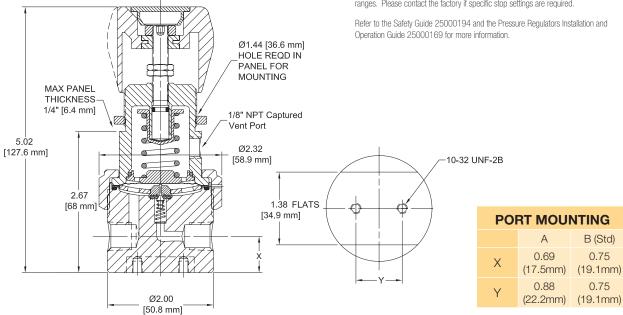
Flow Curves

Additional flow curves available upon request

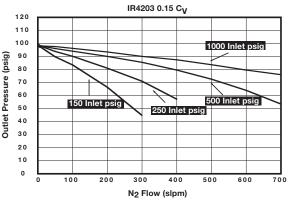




Dimensional Drawing



Safety Guide and Installation and Operating Instructions available at www.parker.com/veriflo



RANGE TABLE					
Basic	Max Inlet PSIG				
Model	0.06 C _V	0.02 C _V	0.15 C _v		
IR4200	400	400	400		
IR4201	4000	4000	1250		
IR4202	4000	4000	1250		
IR4203	4000	4000	4000*		
IR4204	4000	4000	1250		
IR4205	4000	4000	1250		
IR4215	4000	4000	4000*		

* 4000 PSIG max inlet pressure for PCTFE seats only (HP option). 1250 PSIG max inlet pressure for PEEK and Vespel seats.

When setting the delivery pressure, ensure that the maximum outlet pressure of the regulator is not exceeded for any operating condition including increases in delivery pressure due to flow shutoff and supply pressure effect. Supply pressure effect will result in a significant rise in outlet pressure as the inlet pressure decreases.

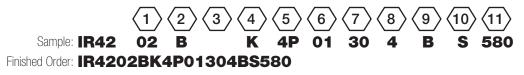
The stop settings will be adjusted to accommodate typical inlet and outlet pressure ranges. Please contact the factory if specific stop settings are required.

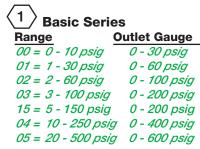
IR4200 SERIES

Ordering Information

Build an IR4200 Series regulator by replacing the numbered symbols with an option from the corresponding tables below.

Color Explanations: Black = Standard Lead Time Configurations Blue = Extended Lead Time Configurations *Green Italic* = Express Service Program (ESP) For an explanation of Ordering options please reference literature 25000275 at www.parker.com/veriflo

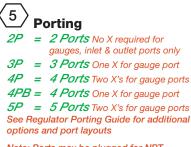








4 Seat MaterialK = PCTFE



Note: Ports may be plugged for NPT threaded product.

6 **Outlet Gauge** Outlet Gauge **Basic Series** 03 = 0 - 30 psigIR4200 OL = 0 - 60 psiqIR4201 = 0 - 100 psig 11 IR4202 2 = 0 - 200 psig IR4203 4 = 0 - 400 psig IR4204 6 = 0 - 600 psig IR4205 = No Gauge X Additional ranges available upon request

$\begin{pmatrix} 7 \end{pmatrix}$ Inlet Gauge

- X = No Gauge
- 30 = 3000 psig Standard
- 4 = 400 psig with the 10 psig range 20 = 2000 psig with the 0.15 Cv
- option

40 = 4000 psig Additional ranges available upon request

8 Port Style

- 2 = 1/8" NPT Female
- 4 = 1/4" NPT Female
- 6 = 3/8" NPT Female
- 4T= 1/4" A-LOK®

6T = 3/8" A-LOK® All Gauge ports are 1/4" NPT Female



Port Mounting

A = 0.69 (17.5mm) port height w/0.88 (22.2mm) mounting

B = 0.75 (19.1mm) port height w/0.75 (19.1mm) mounting (Standard)

10 Optional Features This section can have multiple options

- = True Ported Body No plugs
- D = Dome Loaded Not available with G or M options
- G = Tamper Proof Not available with D or M options
- M = Metal Knob (Black) Not available with D or G options
- N = Nickel Plate

В

- R = Relief Valve 4PB and 5P Only
- S = Self Relieving
- V = Outlet Valve NV17SB44MF
- HP = 4000 psig Max Inlet Pressure For .15 C_V IR4203 and IR4215 with PCTFE seats only
- Note: Panel Mount Option: Order Panel Nut Ring p/n: 41900363 as a separate line item. Vent Muffler Option: Order Vent Muffler p/n: 46600581 as a separate line item.

320, 330, 350, 510, 580 or 590 Do not exceed the rated pressure of the CGA connection.

IR4200 Series Specifications

Materials of Construction

Wetteo

welled		
Body Option	ns	Brass (std) or Nickel Plated Brass
Compressio	n Member	Inconel 625®
Diaphragm		Hastelloy C-22®
Poppet		Phosphor Bronze
Poppet Spr	ing	Inconel X750®
Seat		PCTFE
Carrier		316L Stainless Steel
Washer Bac	ck-up	Phosphor Bronze
O-ring Back	k-up	FKM
Inlet Screen	/ Filter	Copper and Phosphor Bronze
Self Relievin	ng Seat	PEEK™
Non-wette	d	
Сар		Nickel Plated Brass
Nut		Nickel Plated Brass
Knob Options		ABS (std) (ambient temp) or Aluminum

For additional information on materials of construction, functional performance and operating conditions, please see Regulator Technical Bulletin.

Functional Performance

Design				
Burst Pressure	12,000 psig (828 barg)			
Proof Pressure	6,000 psig (414 barg)			
Flow Capacity				
C _V Options	C _V 0.06 (std), C _V 0.02, C _V 0.15			
Leak Rate				
Internal	Bubble Tight			
External	Bubble Tight			
Supply Pressure Effect	Based upon C _V Option			
0.02 C _V	0.23 psig/100 psig (0.016 barg/7 barg)			
0.06 C _V	0.6 psig/100 psig (0.04 barg/7 barg)			
0.15 C _V	1.5 psig/100 psig (0.1 barg/7 barg)			
Internal Volume	4.0 cc without fittings			
Approx. Weight	1.5 lbs. (0.7 kg)			
Operating Conditions				
Maximum Inlet	Refer to Range Table for specific information			
Outlet Options	0-10 psig (.7 barg), 1-30 psig (2 barg), 2-60 psig (4 barg), 3-100 psig (7 barg), 5-150 psig (10 barg), 10-250 psig (17 barg), 20-500 psig (35 barg)			
Temperature	-40°F to 150°F (-40°C to 66°C)			

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