

IR6200 Series

Two-Stage, General-Purpose
Pressure Regulator
Internally Threadless • Brass



Value Proposition:

With an inlet pressure up to 4,000 psig, Parker's IR6200 two-stage regulator offers high pressure capability with stable pressure control. This general-purpose series features a large, convoluted Hastelloy C-22® diaphragm that provides high corrosion resistance. Close tolerances and tight alignment of moving components minimizes hysteresis and improves cycle life.



Contact Information:

Parker Hannifin Corporation
Veriflo Division
250 Canal Blvd.
Richmond, California 94804

phone 510 235 9590
fax 510 232 7396
veriflo.sales@parker.com

www.parker.com/veriflo
Mobile App: m.parker.com/veriflo

Product Features:

- Unique compression member loads the seal to the body without requiring a threaded nozzle or additional seals
- 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

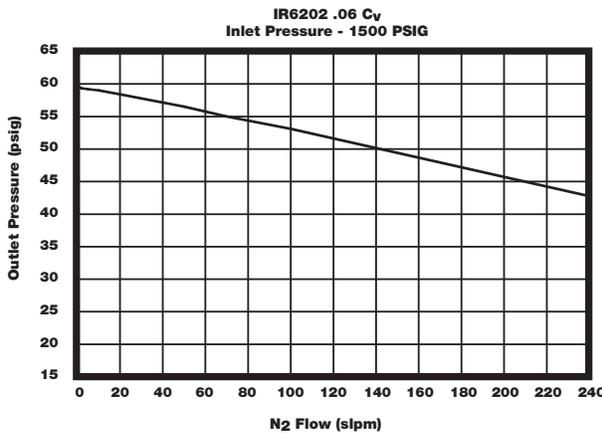
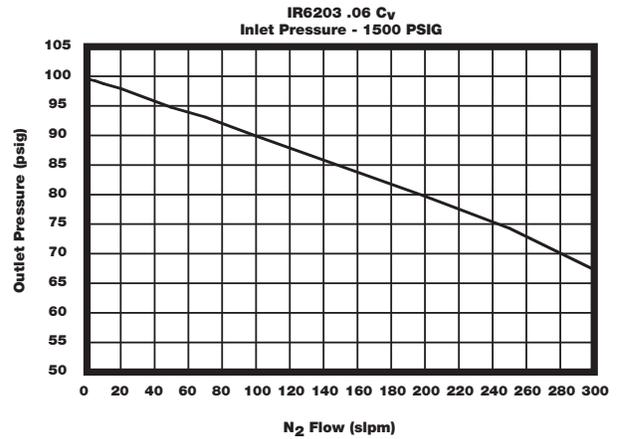
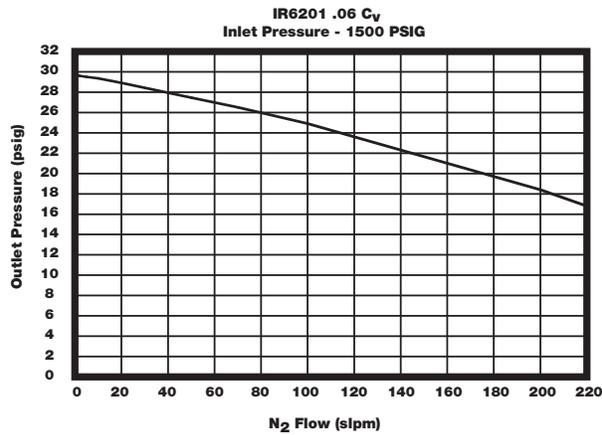


ENGINEERING YOUR SUCCESS.

IR6200 Series

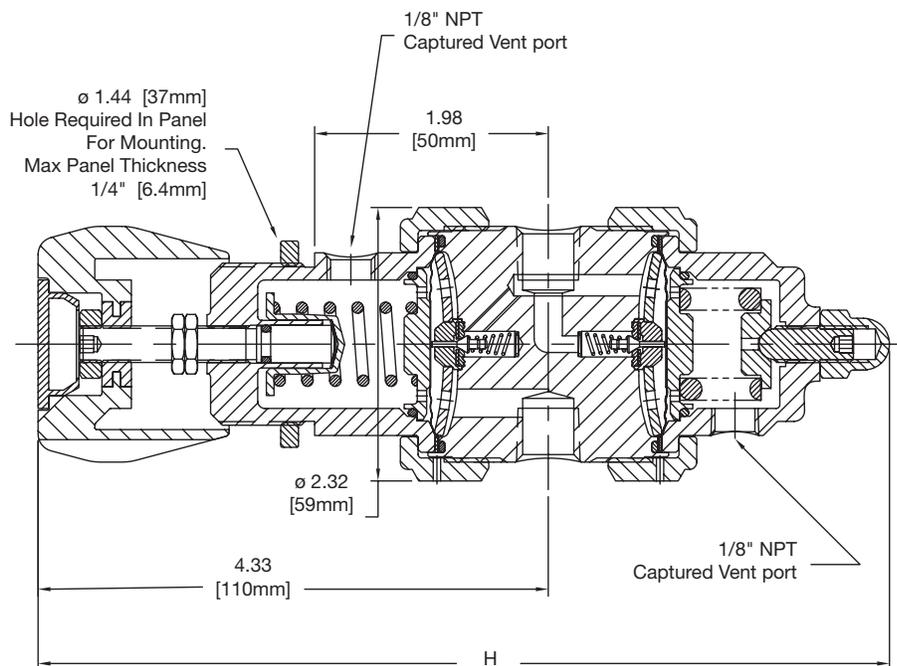
Flow Curves

Additional flow curves available upon request



| Basic Model | Max Inlet PSIG | | |
|-------------|---------------------|---------------------|---------------------|
| | 0.06 C _v | 0.02 C _v | 0.15 C _v |
| IR6200 | 4,000 | 4,000 | 1,250 |
| IR6201 | 4,000 | 4,000 | 1,250 |
| IR6202 | 4,000 | 4,000 | 1,250 |
| IR6203 | 4,000 | 4,000 | 1,250 |
| IR6204 | 4,000 | 4,000 | 1,250 |
| IR6215 | 4,000 | 4,000 | 1,250 |

Dimensional Drawing



| OVERALL HEIGHT TABLE | |
|----------------------|----------------|
| Basic Model | H |
| IR6200 | 7.22 [183.4mm] |
| IR6201 | 7.22 [183.4mm] |
| IR6202 | 7.22 [183.4mm] |
| IR6203 | 7.22 [183.4mm] |
| IR6204 | 7.81 [198.4mm] |
| IR6215 | 7.22 [183.4mm] |

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

IR6200 Series

Ordering Information

Build an IR6200 Series regulator by replacing the numbered symbols with an option from the corresponding tables below.

Contact factory for most up to date lead time information.

Blue = Configurations that have selections in blue may have an extended lead time and a minimum order quantity.



Sample: **IR62 02 B K 4P 01 30 4 B N 580**

Finished Order: **IR6202BK4P01304BN580**



Basic Series

| Range | Outlet Gauge |
|--------------------|--------------|
| 00 = 0 - 10 psig | 0 - 30 psig |
| 01 = 1 - 30 psig | 0 - 60 psig |
| 02 = 2 - 60 psig | 0 - 100 psig |
| 03 = 3 - 100 psig | 0 - 200 psig |
| 15 = 5 - 150 psig | 0 - 200 psig |
| 04 = 10 - 250 psig | 0 - 400 psig |



Body Material

B = Brass



Flow Capacity

= 0.06 Cv *Standard*

1 = 0.02 Cv
2 = 0.15 Cv



Seat Material

K = PCTFE



Porting

2P = 2 Ports *No X required for gauges, inlet & outlet ports only*

3P = 3 Ports *One X for gauge port*

4P = 4 Ports *Two X's for gauge ports*

4PB = 4 Ports *One X for gauge port*

5P = 5 Ports *Two X's for gauge ports*

6P = 6 Ports *Two X's for gauge ports*

See Regulator Porting Guide for additional options and port layouts.

Note: Ports may be plugged for NPT threaded product.



Outlet Gauge

| Outlet Gauge | Basic Series |
|-------------------|--------------|
| 03 = 0 - 30 psig | IR6200 |
| OL = 0 - 60 psig | IR6201 |
| 01 = 0 - 100 psig | IR6202 |
| 2 = 0 - 200 psig | IR6203 |
| 4 = 0 - 400 psig | IR6204 |
| X = No Gauge | |

Additional ranges available upon request



Inlet Gauge

X = No Gauge

30 = 3,000 psig *Standard*

20 = 2,000 psig with the 0.15 Cv option

40 = 4,000 psig

Additional ranges available upon request



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

B = Standard - *No other options*



Optional Features

This section can have multiple options

B = True Ported Body *No plugs*

G = Tamper Proof *Not available with M option*

M = Metal Knob *Not available with G option*

N = Nickel Plate

R2 = Relief Valve *4PB, 5P and 6P Only*

S = Self Relieving

V = Outlet Valve *NV17SB44MF*

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.



CGA#

320, 330, 350, 510, 580 or 590

Do not exceed the rated pressure of the CGA connection.

IR6200 Series

Specifications

| Materials of Construction | |
|---------------------------|--------------------------------------|
| Wetted | |
| Body Options | Brass (std) or Nickel Plated Brass |
| Compression Member | Inconel 625® |
| Diaphragm | Hastelloy C-22® |
| Poppet | Phosphor Bronze |
| Poppet Spring | Inconel X750® |
| Seat | PCTFE |
| Carrier | 316L Stainless Steel |
| Washer Backup | Phosphor Bronze |
| O-ring Backup | FKM |
| Inlet Screen / Filter | Copper and Phosphor Bronze |
| Self Relieving Seat | PEEK™ |
| Non-wetted | |
| Cap | 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, 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 | 0.01 psig/100 psig (0.0007 barg/7 barg) |
| 0.06 C _V | 0.01 psig/100 psig (0.0007 barg/7 barg) |
| 0.15 C _V | 0.02 psig/100 psig (0.0014 barg/7 barg) |
| Internal Volume | |
| 8.1 cc without fittings | |
| Approx. Weight | |
| 3.5 lbs. (1.6 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) |
| Temperature | -40°F to 150°F (-40°C to 66°C) |

A-LOK® is a registered trademark of Parker Hannifin Corporation.
Hastelloy C-22® and Hastelloy C-276® are registered trademarks of Haynes International, Inc.
Inconel® is a registered trademark of Special Metals Corporation.
PEEK™ is a trademark of Victrex plc.

OFFER OF SALE:

The items described in this document are hereby offered for sale by Parker Hannifin Corporation, its subsidiaries or its authorized distributors. This offer and its acceptance are governed by the provisions stated in the detailed "Offer of Sale" elsewhere in this document or available at www.parker.com/veriflo

WARNING USER RESPONSIBILITY

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE. THIS DOCUMENT IS FOR REFERENCE ONLY. PLEASE CONSULT FACTORY FOR LATEST PRODUCT DRAWINGS AND SPECIFICATIONS.

This document and other information from Parker Hannifin Corporation, its subsidiaries and authorized distributors provide product or system options for further investigation by users having technical expertise.

The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application, follow applicable industry standards, and follow the information concerning the product in the current product catalog and in any other materials provided from Parker or its subsidiaries or authorized distributors.

To the extent that Parker or its subsidiaries or authorized distributors provide component or system options based upon data or specifications provided by the user, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the components or systems.

The products described herein, including without limitation, product features, specifications, designs, availability and pricing are subject to change by Parker Hannifin Corporation and its subsidiaries at any time without notice.

Proposition 65 Warning: This product contains chemicals known to the state of California to cause cancer or birth defects or other reproductive harm.

©2007 Parker Hannifin Corporation



Use mobile device to scan this QR Code.

LitPN: 25000227 Rev: L Date of Issue 09/2016



ENGINEERING YOUR SUCCESS.