

HPR800 Series

High Pressure Regulator



Customer Value Proposition:

The HPR800 Series high pressure regulator is designed to meet those applications requiring high outlet pressures up to 2500 psig.

As a diaphragm actuated regulator, the HPR800 has fewer seals exposed to the media than a piston actuated regulator.



Contact Information:

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Product Features:

- Low actuating torque.
- Diaphragm sensing regulator.
- Cleaned for O₂ service is standard.
- Self-contained valve seat assembly.
- Fluid media capabilities: Corrosive and non-corrosive gases.
- Easily maintained.
- Maximum inlet of 5,000 psig.



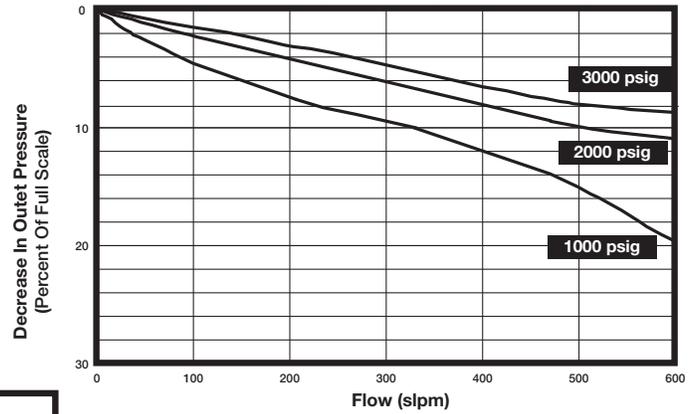
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HPR800 Series

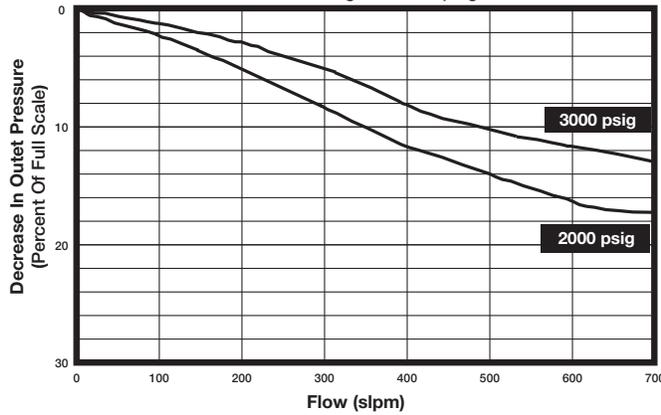
Flow Curves

Additional configurations available upon request

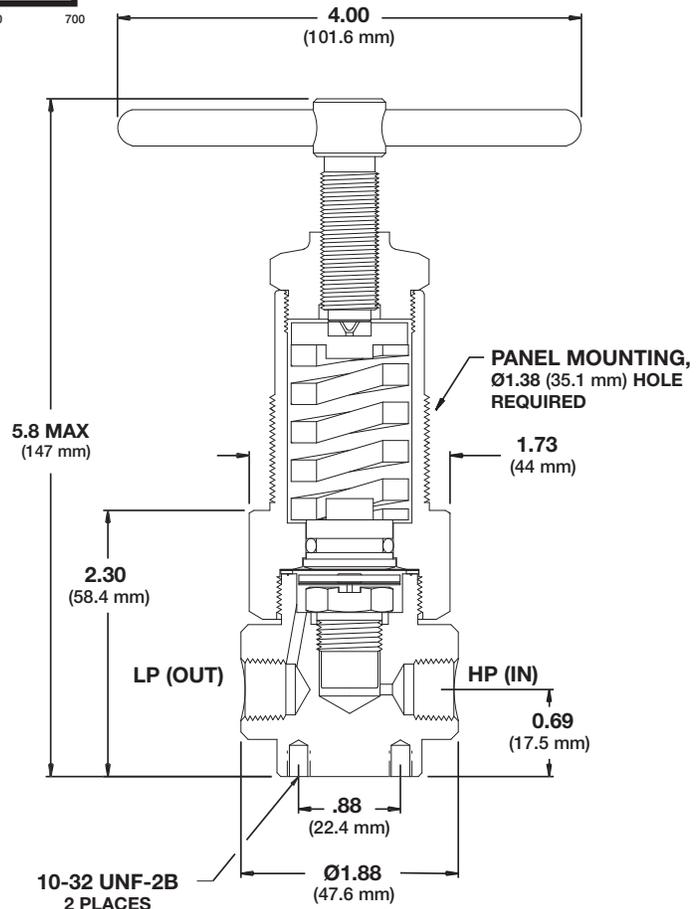
HPR800 & HPR801
Pressure Range 10-800 psig and 20-1500 psig



HPR802
Pressure Range 50-2500 psig



Dimensional Drawing



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

HPR800 Series

Ordering Information

Build an HPR800 Series Regulator by replacing the numbered symbols with an option from the corresponding tables below.

1
 2
 3
 4
 5
 6
 7
 8

Sample: **HPR80 1 S 3P 10 4**

Finished Order: **HPR801S3P104**

1 Basic Series

- 0 = 10 - 800 psig
- 1 = 20 - 1500 psig
- 2 = 50 - 2500 psig

2 Body Material

- B = Brass
- S = 316L Stainless Steel

3 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*
- 5P = 5 Ports - *Two X's for gauge ports*

See Regulator Porting Guide for more information.

4 Outlet Gauge

- 10 = 0 - 1000 psig
- 20 = 0 - 2000 psig
- 30 = 0 - 3000 psig
- X = No Gauge

(Additional ranges available upon request)

5 Inlet Gauge

- 30 = 0 - 3000 psig
- 40 = 0 - 4000 psig
- 60 = 0 - 6000 psig
- X = No Gauge

(Additional ranges available upon request)

6 Port Style

- 4 = 1/4" NPT Female

(All Gauge ports are 1/4" NPT Female)

7 Optional Features

This section can have multiple options

PM = Panel Mount

Vent Muffler Option:

Order Vent Muffler p/n: 46600581 as a separate line item.

8 CGA#

320, 330, 350, 510, 580, 590 or 660

Do not exceed the rated pressure of the CGA connection.

Note: Veriflo reserves the right to plug NPT ports. If a true ported body is required, please contact Customer Service.

HPR800 Series

Specifications

Materials of Construction	
Wetted	
Body Options:	316L Stainless Steel (std) Brass
Diaphragm	316L Stainless Steel
Gasket	PCTFE
Nozzle Assembly:	
Nozzle Body Options	316L Stainless Steel (Std) Brass
Filter	316L Stainless Steel
Poppet Options	316L Stainless Steel (Std) Brass
Poppet Spring	Inconel® 600
Gasket	PTFE
Seat	PCTFE
Retaining Ring	15-7 PH
Non-wetted	
Spring Housing Options	Nickel Plated Brass (std) Brass
Bushing	Nickel Plated Brass
Stem Handle Tee Options	Nickel Plated Brass (std) Brass

Functional Performance	
Design	
Burst Pressure	15,000 psig (1,034 barg)
Proof Pressure	7,500 psig (517 barg)
Flow Capacity	C _v 0.02
Leak Rate	
Internal:	Bubble Tight
External:	Bubble Tight
Supply Pressure Effect	0.5 psig / 100 psig (0.03 barg / 7 barg)
Internal Volume	6.5 cc
Approx. Weight	2.19 lbs. (0.993 kg)
Operating Conditions	
Maximum Inlet	5,000 psig @70°F (345 barg @ 21°C)
For Oxygen	3,000 psig (206.9 barg)
Outlet Pressure	10 - 800 psig (0.7 - 55 barg) 20 - 1500 psig (1.4 - 103 barg) 50 - 2500 psig (3.4 - 172 barg)
Temperature	-40°F to 150°F (-40°C to 66°C)

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

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