

HPR800 Series

Single-Stage, High Pressure Regulator

Low Acting Torque • Stainless Steel



Value Proposition:

For applications requiring high outlet pressures up to 2,500 psig, the HPR800 Series delivers. Its diaphragm-actuated design means fewer seals exposed to the media than a piston-actuated regulator.

Product Features:

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

Specifications:

Functional Performance	
Design	
Burst Pressure	15,000 psig (1034 barg)
Proof Pressure	7,500 psig (517 barg)
Flow Capacity	
C _v Options	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
Approximate 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 Options	10 - 800 psig (0-2 barg) 20 - 1,500 psig (1.4-103 barg) 50 - 2,500 psig (3.4-172 barg)
Temperature	-40°F to 150°F (-40°C to 66°C)

Material of Construction	
Wetted	
Body Options	316L Stainless Steel
Diaphragm	316L Stainless Steel, PTFE Lined
Gasket	PCTFE
Nozzel Assembly	
Nozzel Body Options	316L Stainless Steel
Filter	316L Stainless Steel
Poppet Options	316L Stainless Steel
Poppet Spring	Inconel® 600
Seat	PCTFE
Retaining Ring	15-7 PH
Non-Wetted	
Spring Housing Options	Nickel Plated Brass
Bushing	Nickel Plated Brass
Stem Handle Tee Options	Nickel Plated Brass

For additional information on materials of construction, functional performance and operating conditions, please contact factory.

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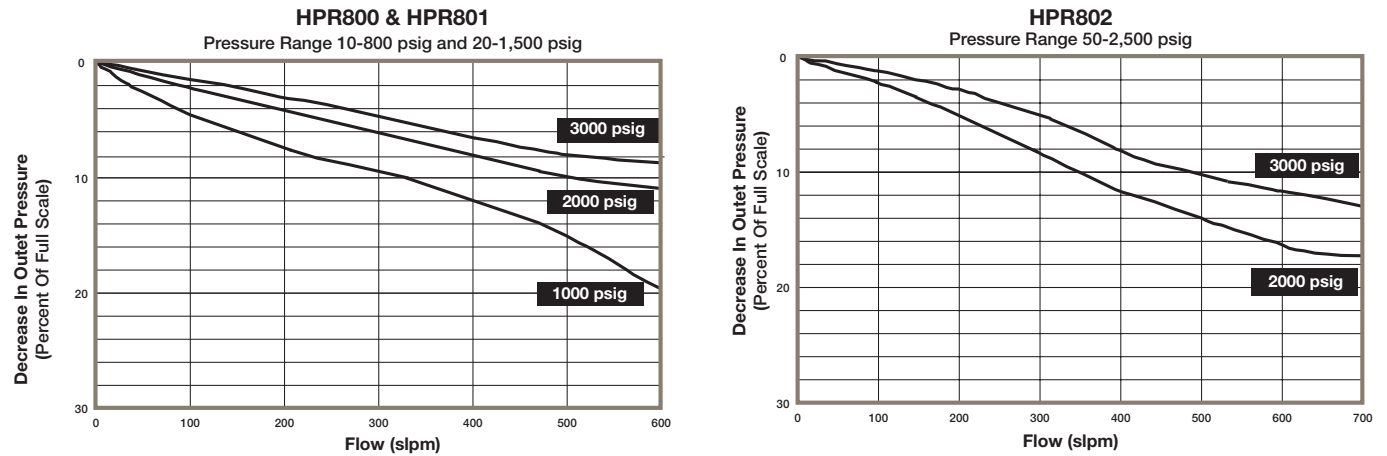


INSTRUMENTATION PRODUCTS DIVISION

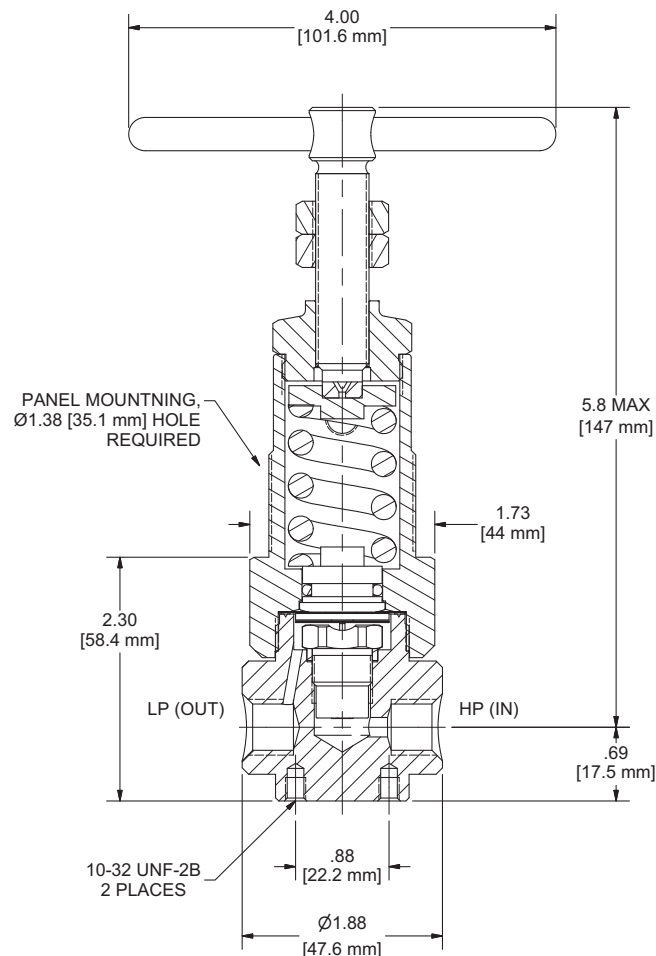
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Flow Curve:



Dimensional Drawing:



HPR800 Series

Ordering Information:

Building a Part Number: *Example: HPR801S3P104*

Example Part Number:	HPR80	1	S	3P	10		4	
Ordering Parameters/Options:	Series	Range	Body Material	Porting	Outlet Gauge	Inlet Gauge	Port Style	Optional Features
Table Reference: (see below)	A	B	C	D	E	F	G	I

A - Series

HPR800	HPR800 Series Regulator
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B - Range

0	10-800 psig
1	20-1,500 psig
2	50-2,500 psig

C - Body Material

S	316L Stainless Steel (Consult factory for Alloy Material options and availability)
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D - Porting

2P	2 Ports (No X required for gauges, inlet and outlet ports only)
3P	3 Ports (One X for gauge ports)
4P	4 Ports (Two X for gauge ports)
5P	5 Ports (Two X for gauge ports)

E - Outlet Gauge

10	0-1,000 psig
20	0-2,000 psig
30	0-3,000 psig
X	No Gauge

F - Inlet Gauge

30	0-3,000 psig
40	0-4,000 psig
60	0-6,000 psig
X	No Gauge

G - Port Style

4	1/4" NPT Female (All Gauges ports are 1/4" NPT Female)
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I - Optional Features (This section can have multiple options)

PM	Panel Mount (Captured Vent Not Available)
C3	Cleaned Oxygen Service (Oxygen Cleaning requirements are in accordance with Parker Specification ES8003)

Note:

Panel Mount Option: Order Panel Mount Nut Ring (PN: IR4-Panel-Nut-B-NP) as separate line item

Vent Muffler Option: Vent Muffler (PN: Muffler-2F-Bronze) as separate line item.

Vent Muffler is standard for the Self Relieving (S), Corrosion Resistant (C) option combination.

Parker Instrumentation Products Division reserves the right to plug NPT ports

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WARNING

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

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