

HFR900 Series

Single-Stage, High Flow Pressure Regulator

Stainless Steel



Value Proposition:

The HFR900 Series is designed for high flow rates requiring a compact pressure regulator for control. It can be used with corrosive and non-corrosive gases. Meets most high flow requirements with less than 500 psig supply pressure.

Product Features:

- Self-contained, replaceable valve seat assembly
- Over 20 years of proven reliability
- Available in 316L Stainless Steel
- 1/8" NPT captured vent port is standard
- Large orifice for high flow (up to 500 LPM)
- Large diaphragm for higher sensitivity
- Panel Mount option available

Specifications:

| Functional Performance | |
|---------------------------|------------------------|
| Design | |
| Burst Pressure | 1,500 psig (103 barg) |
| Proof Pressure | 750 psig (52 barg) |
| Flow Capacity | C _v 0.85 |
| Leak Rate | |
| Internal | Bubble Tight |
| External | Bubble Tight |
| Internal Volume | 38 cc without fittings |
| Approximate Weight | 2.5 lbs. (1.2 kg) |

| Operating Conditions | |
|----------------------|--|
| Maximum Inlet | Based upon seat option |
| Fluorocarbon | 500 psig (35 barg) |
| Perfluoroelastomer | 200 psig (14 barg) |
| Outlet Options | 1 - 30 psig (0-2 barg) 2 - 75 psig (0.1-5 barg) 5 - 150 psig (0.3-10 barg) |
| Temperature | -40°F to 150°F (-40°C to 66°C) |

| Material of Construction | |
|--------------------------|--|
| Wetted | |
| Body | 316L Stainless Steel |
| Diaphragm | 316L Stainless Steel, PTFE Lined |
| Nozzel Assembly | |
| Nozzel Body Options | 316L Stainless Steel |
| Seat Options | (K) Perfluoroelastomer (FFKM) or (V) Fluorocarbon (FKM) |
| Screen | 316L Stainless Steel |
| Retaining Ring | 15-7 PH |
| Gasket | PTFE |
| Washer | 316L Stainless Steel |
| Spring | 316 Stainless Steel |
| Non-Wetted | |
| Cap Options | Nickel Plated Brass |
| Knob | ABS |

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

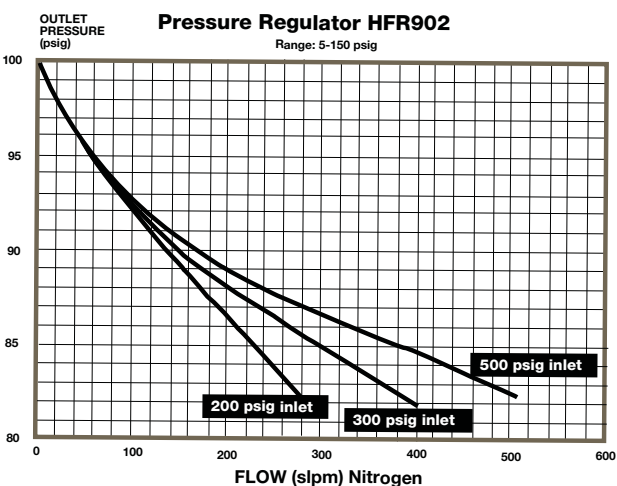
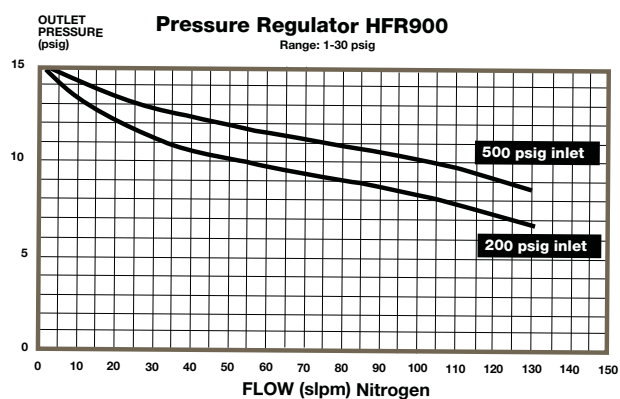
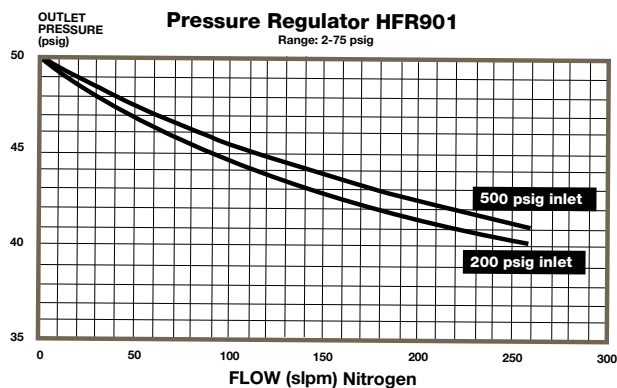
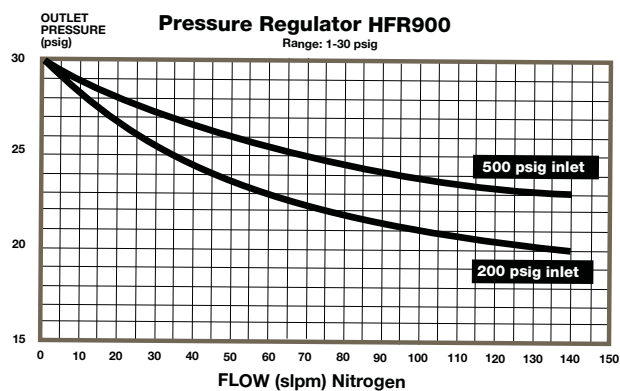


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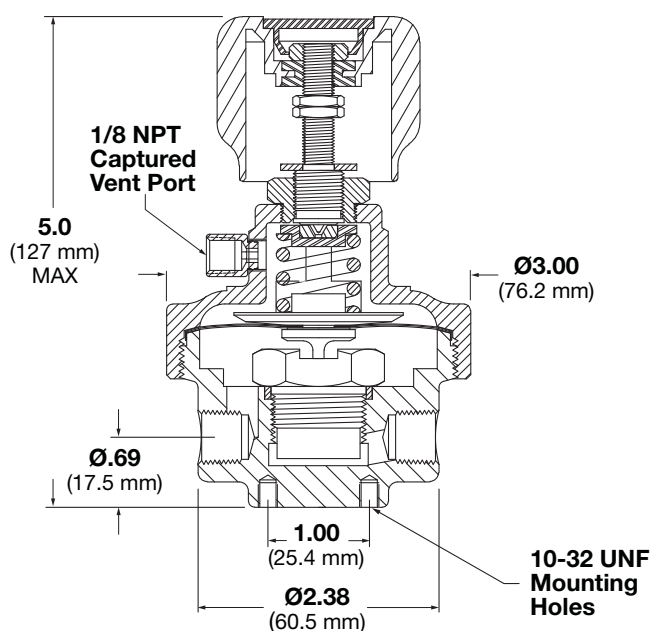
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HFR900 Series

Flow Curve:



Dimensional Drawing:



HFR900 Series

Ordering Information:

Building a Part Number: *Example: HFR900S4P0366K*

| Example Part Number: | HFR90 | 0 | S | 4P | 03 | 6 | 6 | K | |
|------------------------------|--------|-------|---------------|---------|--------------|-------------|------------|---------------|-------------------|
| Ordering Parameters/Options: | Series | Range | Body Material | Porting | Outlet Gauge | Inlet Gauge | Port Style | Seat Material | Optional Features |
| Table Reference: (see below) | A | B | C | D | E | F | G | H | I |

A - Series

| | |
|--------|-------------------------|
| HFR900 | HFR900 Series Regulator |
|--------|-------------------------|

B - Range

| | |
|---|------------|
| 0 | 0-30 psig |
| 1 | 2-75 psig |
| 2 | 5-150 psig |

C - Body Material

| | |
|---|----------------------|
| S | 316L Stainless Steel |
|---|----------------------|

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) |
| 4PB | 4 Ports (One X for gauge ports) |

Note: Ports may be plugged for NPT threaded product.

E - Outlet Gauge / Basic Series

| | |
|----|------------|
| 03 | 0-30 psig |
| OL | 0-60 psig |
| 01 | 0-100 psig |
| 2 | 0-200 psig |
| X | No Gauge |

F - Inlet Gauge

| | |
|---|------------|
| 4 | 0-400 psig |
| 6 | 0-600 psig |
| X | No Gauge |

G - Port Style

| | |
|---|---|
| 4 | 1/4" NPT Female (All Gauge ports are 1/4" NPT Female) |
| 6 | 3/8" NPT Female (All Gauge ports are 1/4" NPT Female) |
| 8 | 1/2" NPT Female (All Gauge ports are 1/4" NPT Female) |

H - Seat Material

| | |
|---|--|
| K | Perfluoroelastomer (FFKM) (200 psig maximum) |
| V | Fluorocarbon (FKM) (500 psig maximum) |

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) |

Parker Instrumentation Products Division reserves the right to plug NPT ports

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Literature #: 25000035

Nov 2017



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