

# HF1200 & HFT1200 Series

Single-Stage, High-Flow Pressure Regulator  
High Sensitivity • Stainless Steel



## Value Proposition:

Parker's HF1200 and HFT1200 offering combines high flow capability with high inlet pressure (up to 1,250 psig), resulting in reduced regulator inventories. For hazardous gas applications, the HFT model's tied diaphragm ensures positive shutoff. Both regulators feature a large, convoluted Hastelloy C-22® diaphragm that delivers stable control over their operating ranges.



## Contact Information:

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## Product Features:

- High inlet pressure with 1.2 Cv to meet a variety of applications
- Hastelloy C-22® diaphragm for high corrosion resistance
- HFT offers a tied diaphragm for positive shutoff
- Large convoluted diaphragm provides stable pressure control
- Seat material selection for media compatibility
- 59% greater effective diaphragm area over competitive products



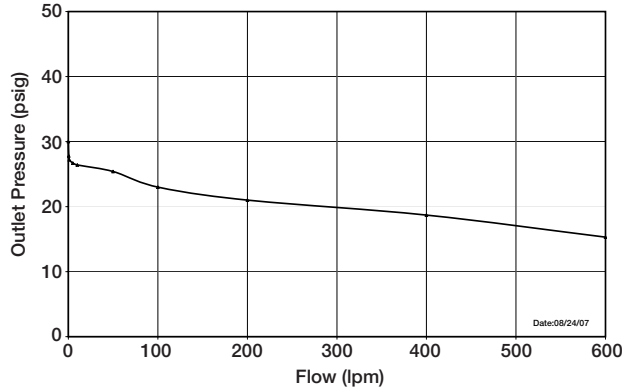
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# HF1200 & HFT1200 Series

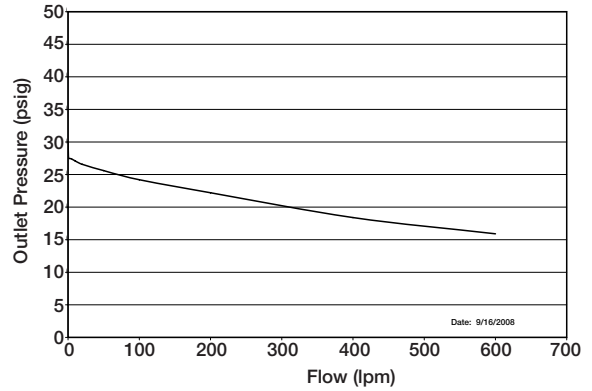
## Flow Curves

Additional flow curves available upon request

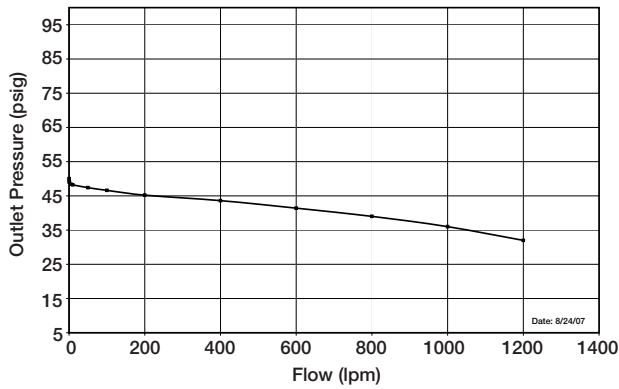
HF1200 Regulator with 3/4" tube fittings  
Inlet Pressure: 50 psig, N<sub>2</sub>  
Outlet Pressure: 30 psig



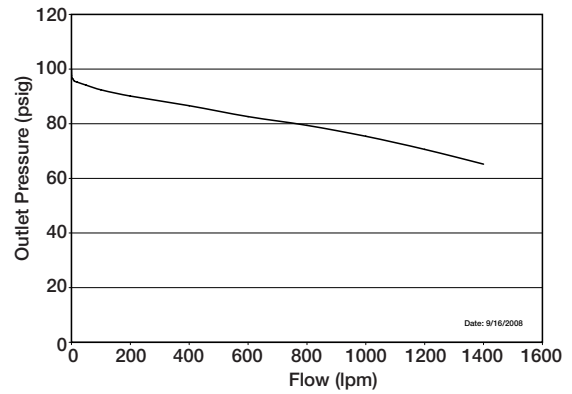
HFT1200 Regulator with 1/2" Face Seal Connections  
Inlet Pressure: 50 psig, N<sub>2</sub>  
Outlet Pressure: 30 psig



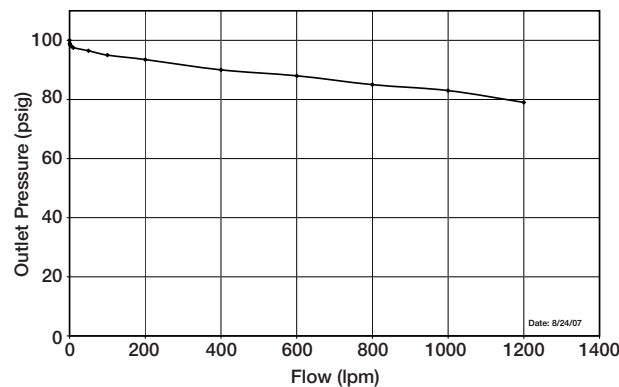
HF1201 Regulator with 3/4" tube fittings  
Inlet Pressure: 100 psig, N<sub>2</sub>  
Outlet Pressure: 50 psig



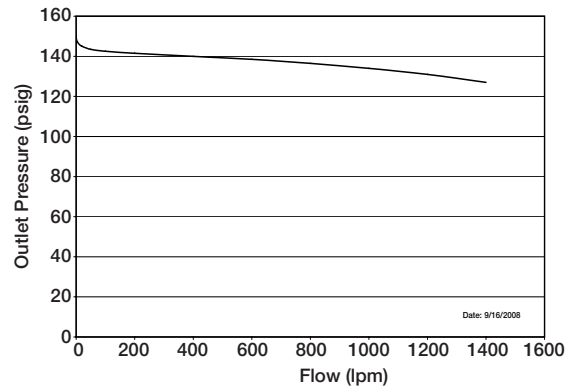
HFT1201 Regulator with 1/2" Face Seal Connections  
Inlet Pressure: 120 psig, N<sub>2</sub>  
Outlet Pressure: 100 psig



HF1202 Regulator with 3/4" tube fittings  
Inlet Pressure: 120 psig, N<sub>2</sub>  
Outlet Pressure: 100 psig

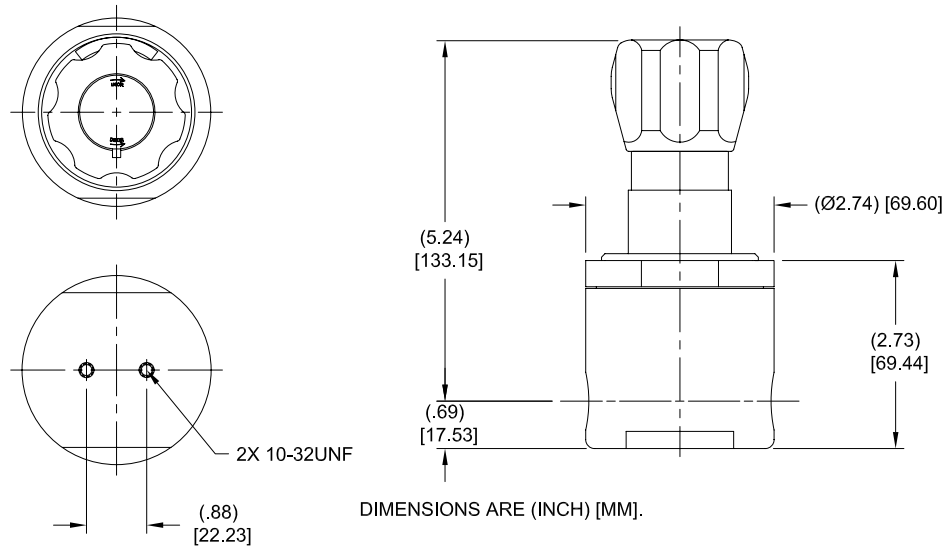


HFT1202 Regulator with 1/2" Face Seal Connections  
Inlet Pressure: 600 psig, N<sub>2</sub>  
Outlet Pressure: 150 psig



# HF1200 & HFT1200 Series

## Dimensional Drawing



## Ordering Information

Build an HF1200 or HFT1200 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: **HFT12 01 S K 3P 2 8 B**

Finished Order: **HFT1201SK3P28B**

**1 Basic Series**  
 HF12 (Non-Tied Diaphragm)  
 HFT12 (Tied Diaphragm)

**2 Pressure Range**  
 00 = 5 - 50 psig  
 01 = 5 - 100 psig  
 15 = 5 - 150 psig  
 02 = 20 - 200 psig

**3 Body Material**  
 S = 316L Stainless Steel

**4 Seat Material**  
 K = PCTFE  
 V = Vespel®

**5 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 port*  
 4PB = 4 Ports *One X for gauge port*  
*See Regulator Porting Guide for additional options and port layouts.*

**6 Outlet Gauge**  
 VX = -30 in Hg 0 - 150 psig  
*(HFT1200 only)*  
 OL = 0 - 60 psig  
 01 = 0 - 100 psig  
 2 = 0 - 200 psig  
 X = No Gauge  
*Additional ranges available upon request*

**7 Inlet Gauge**  
 20 = 0 - 2,000 psig  
 X = No Gauge  
*Additional ranges available upon request*

**8 Port Style**  
 8 = 1/2" NPT Female  
 8T = 1/2" A-LOK®  
 12T = 3/4" A-LOK®  
*1/4" NPT Gauge Ports are Standard*  
*Any other Gauge Port Configuration may have an extended lead time.*

**9 Place Holder**  
 B = Place Holder

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## Specifications

Materials of Construction	
<b>Wetted</b>	
Body	316L Stainless Steel
Diaphragm	Hastelloy C-22®
Poppet	316L Stainless Steel
Poppet Spring	316L Stainless Steel
Seat Retainer	316L Stainless Steel
Seat Options	PCTFE (std) or Vespel®
<b>Non-wetted</b>	
Cap	Nickel Plated Brass
Nut	17 - 4 PH
Knob	ABS (Black)
Operating Conditions	
Maximum Inlet	1,250 psig (86 barg)
Outlet Options	5 - 50 psig (3 barg)
	5 - 100 psig (7 barg)
	5 - 150 psig (10 barg)
	20 - 200 psig (14 barg)
Temperature	-40°F to 150°F (-40°C to 66°C)

Functional Performance	
<b>Design</b>	
Burst Pressure	3,750 psig (259 barg)
Proof Pressure	1,875 psig (129 barg)
<b>Flow Capacity</b>	C <sub>v</sub> 1.2
<b>Leak Rate</b>	
Internal	Bubble Tight
External	Bubble Tight
<b>Supply Pressure Effect</b>	5.4 psig / 100 psig
<b>Approx. Weight</b>	4.2 lbs. (1.9 kg)
<b>Surface Finish</b>	10 micro-inch Ra

Vespel® is a registered trademark of DuPont Performance Elastomers L.L.C.  
Hastelloy C-22® is a registered trademark of Haynes International, Inc.  
A-LOK® is a registered trademark of Parker Hannifin Corporation.

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

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