

# HFT 1200 Series

## High Flow Tied Diaphragm Threaded Regulator

aerospace  
climate control  
electromechanical  
filtration  
fluid & gas handling  
hydraulics  
pneumatics  
process control  
sealing & shielding

### Customer Value Proposition:

The HFT1200 regulator offers high flow capability with an inlet pressure up to 1,250 psig. The large convoluted Hastelloy C22<sup>®</sup> diaphragm provides stable pressure control over the operational range of the regulator.

The tied diaphragm provides positive seal shut off for hazardous gas applications.

The combined high flow and high inlet pressure increases the application range of the regulator thus reducing regulator inventories.



### Contact Information:

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### Product Features:

- High inlet pressure with 1.2 C<sub>v</sub> to meet a variety of applications.
- Hastelloy C-22<sup>®</sup> diaphragm for high corrosion resistance.
- Tied diaphragm for positive shut off.
- 59% larger effective area of the diaphragm than other manufacturers.
- Large convoluted diaphragm provides stable pressure control.
- Seat material selection for media compatibility.

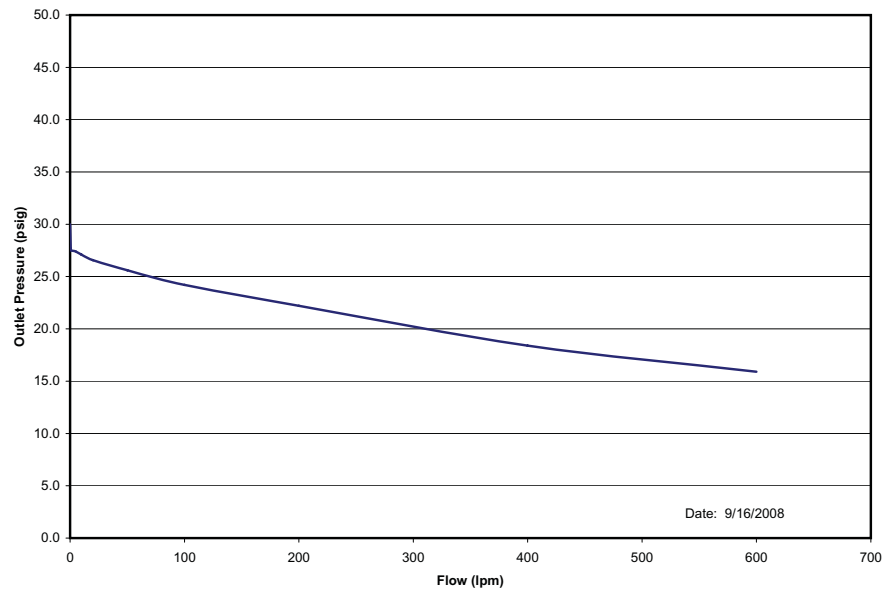


ENGINEERING YOUR SUCCESS.

# HFT1200 SERIES REGULATOR

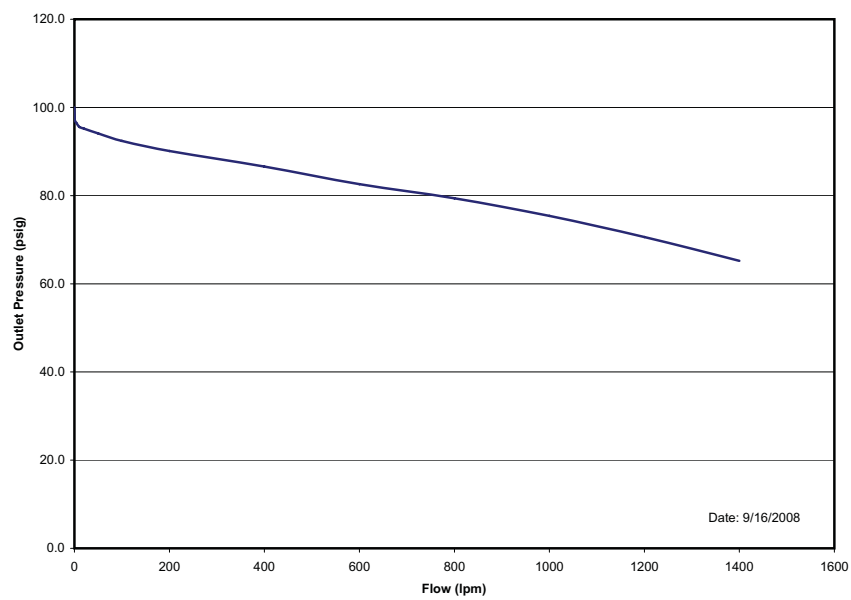
## FLOW CURVE 30 psig

HFT1200 Regulator with 1/2" Face Seal Connections  
Inlet Pressure: 50 psig, N2  
Outlet Pressure: 30 psig



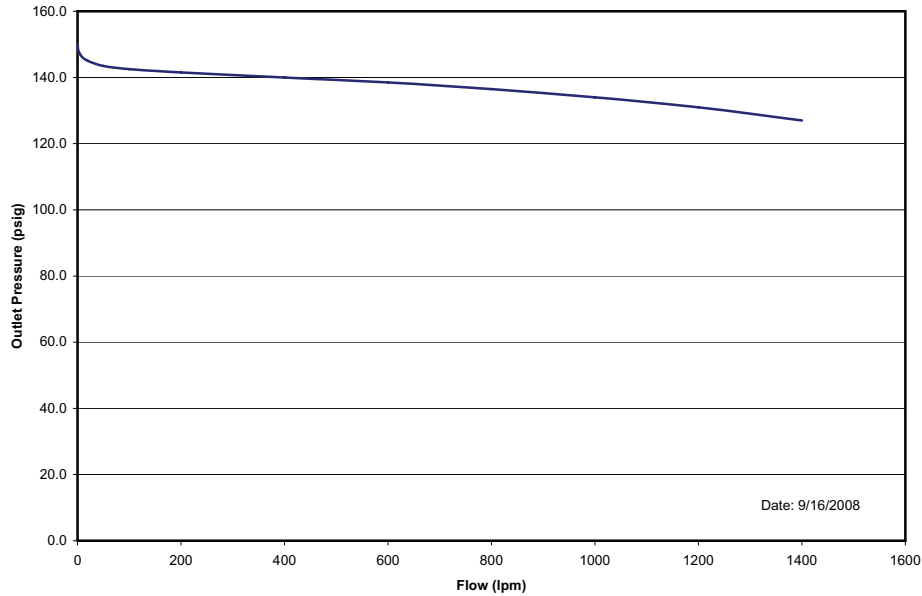
## FLOW CURVE 50 psig

HFT1201 Regulator with 1/2" Face Seal Connections  
Inlet Pressure: 120 psig, N2  
Outlet Pressure: 50 psig

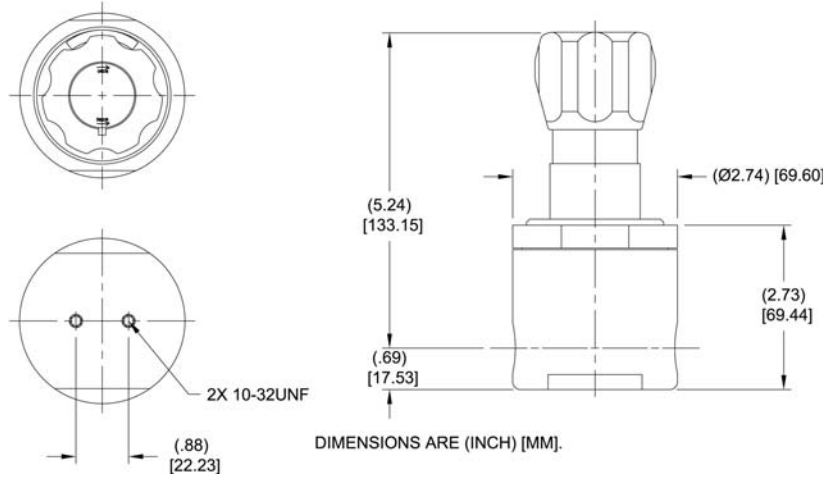


# FLOW CURVE 100 psig

HFT1202 Regulator with 1/2" Face Seal Connections  
 Inlet Pressure: 600 psig, N2  
 Outlet Pressure: 150 psig



## DIMENSIONAL DRAWING



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# HFT 1200 Series Specifications

Materials of Construction		Functional Performance	
<b>Wetted</b>		<b>Design</b>	
Body	316L Stainless Steel	Burst Pressure	3,750 psig (259 barg)
Diaphragm	Hastelloy C-22® Std	Proof Pressure	1,875 psig (129 barg)
Diaphragm Backup	Hastelloy C-22®	<b>Flow Capacity</b>	
Poppet	316L Stainless Steel	Standard	C <sub>v</sub> 1.2
Poppet Spring	316 Stainless Steel	<i>SEMI Flow Coefficient Test #F-32-0998316L Stainless Steel</i>	
Seat	PCTFE, Vespel®	<b>Design Leak Rate</b>	
<b>Non-Wetted</b>		External seal	Bubble Tight
Nut	17-4 Ph	Internal seat	Bubble Tight
Cap	Nickel Plated Brass	<b>Supply Pressure Effect</b>	
Knob (Black)	ABS Plastic		5.9 psig/100psig
<b>Operating Conditions</b>		<b>Standard Configuration</b>	
Maximum Inlet	1,250 psig (86 barg)		1/2" NPT Female
Outlet	5-50 psig (3 barg), 5-100 psig (7 barg), 5-150 psig (10 barg), 20-200 psig (14 barg)		1/2", 3/4" A-LOK Compression Fittings
Temperature:		<b>Approx. Weight</b>	4.2 lbs. (1.9 kg)
PCTFE	-40°F to 150°F (-40°C to 66°C)		
Vespel	-40°F to 150°F (-40°C to 66°C)		

## Ordering Information

