High Flow Pressure Regulator

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

Customer Value Proposition:

The HFR900W Series regulator offers precise pressure control with a high C_V for high flow applications.

The HFR900W Series regulator can be used with corrosive and non-corrosive gases and meets high flow requirements with less than 500 psig supply pressure.



Contact Information:

Parker Hannifin Corporation Veriflo Division 250 Canal Blvd Richmond, California 94804

phone 510 235 9590 fax 510 232 7396 veriflo.sales@parker.com

www.parker.com/veriflo

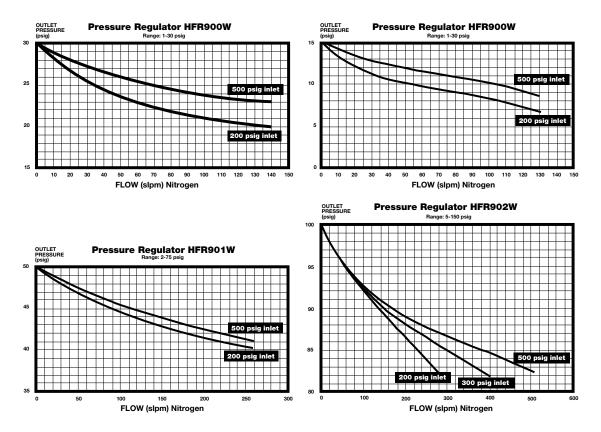
Product Features:

- "VeriClean", Veriflo's custom low sulfur high purity 316L Stainless Steel[™] enhances electropolishing, welding and corrosion resistance.
- Low leakage rates eliminates the back diffusion of atmospheric contamination into the system.
- Designed to withstand an internal vacuum without distortion of the diaphragm or deterioration of the seat and seal.
- Internally electropolished.

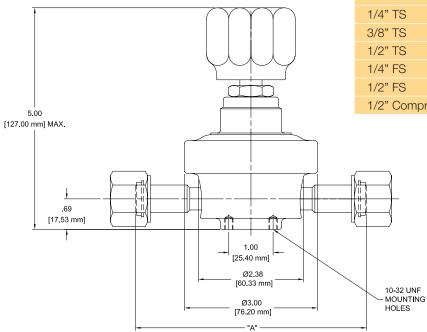


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Flow Curves



Dimensional Drawing



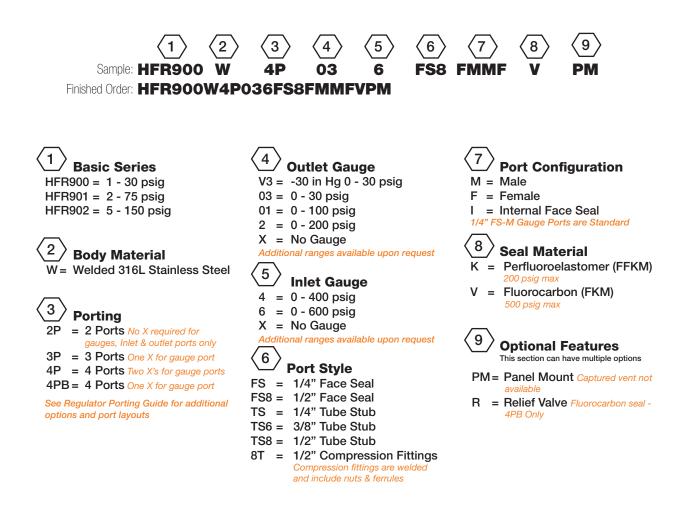
CONNECTION SIZE	"A"	
INLET & OUTLET	INCH	ММ
1/4" TS	3.76	95.50
3/8" TS	5.00	127.00
1/2" TS	5.00	127.00
1/4" FS	4.30	109.00
1/2" FS	5.20	133.00
1/2" Compression Fittings	4.78	121.40

Note: ø1.44 (36.6 mm) hole required in panel for mounting.

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

Ordering Information

Build an HFR900W Series regulator by replacing the numbered symbols with an option from the corresponding tables below.



Specifications

Materials of Construction		
Wetted		
Body	VeriClean™ 316L Stainless Steel	
Diaphragm	316L Stainless Steel, PTFE Lined	
Nozzle Assembly		
Nozzle Body	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		
Сар	Nickel Plated Brass	
Knob	ABS	

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

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	2 x 10 ⁻⁹ scc/sec He (Inboard Test Method)	
Internal Volume	38 cc without fittings	
Approx. 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 (0.06 - 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)	

VeriClean™ is a trademark of Parker Hannifin Corporation

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LitPN: 25000036 Date of Issue 12/2009



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