

SERIES W1300

SINGLE STAGE REGULATOR, FREE POPPET

High Flow Capacity



- Flow rates to 1,000 slpm (35 scfm) of N₂
- Inlet pressure rating 300 psig (2.1 MPag)
- SS 316L VAR or SS 316L construction
- Standard surface finish 10 Ra μ inch (0.25 μm), 5 Ra μ inch (0.125 μm) optional
- Performance verified by automated testing
- True metal to metal diaphragm seal
- 100% He leak tested
- Regulator of choice for high flow point of use applications
- All manufacturing and testing to Pure T UHP semiconductor standards
- Face seal connection options
- Installation and operating instructions posted to www.puretuhp.com in the Pure Tech section

Operating Parameters

Source pressure	vacuum to 300 psig (2.1MPag)
Delivery pressure	W1303 1 to 30 psig (0.007 to 0.2 MPag)
	W1306 2 to 60 psig (0.014 to 0.4 MPag)
	W1310 2 to 100 psig (0.014 to 0.7 MPag)
	W1315 5 to 150 psig (0.034 to 1.0 MPag)
Proof pressure	150% of operating pressures
Burst pressure	300% of operating pressures

Other Parameters

Connections	1/2 inch face seal
Flow coefficient (Cv)	1.3
Operating temperature	-30° to +70°C (-22° to +158°F)*
Surface finish	10 Ra μ inch (0.25μm) standard, 5 Ra μ inch (0.125μm) optional
Inboard leakage	1 x 10 ⁻¹⁰ sccs
Outboard leakage	2 x 10 ⁻⁹ sccs He
Leakage across seat	He sniffer probe, no rise above background
Installation	surface or panel (optional)
Supply pressure effect	3.5 psig per 100 psig source pressure change

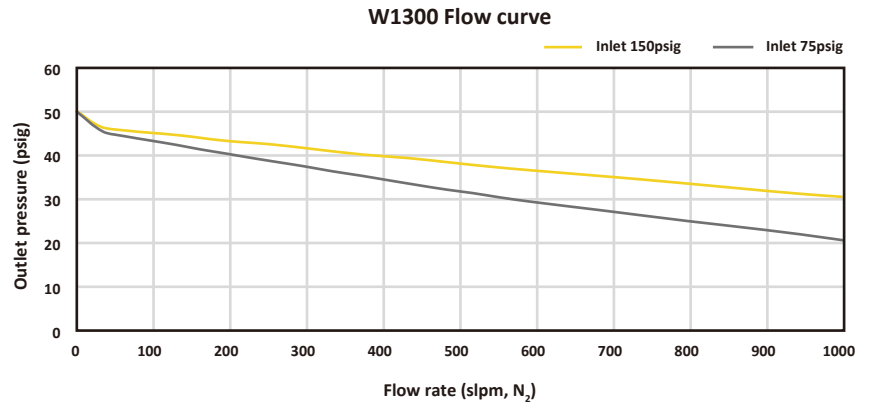
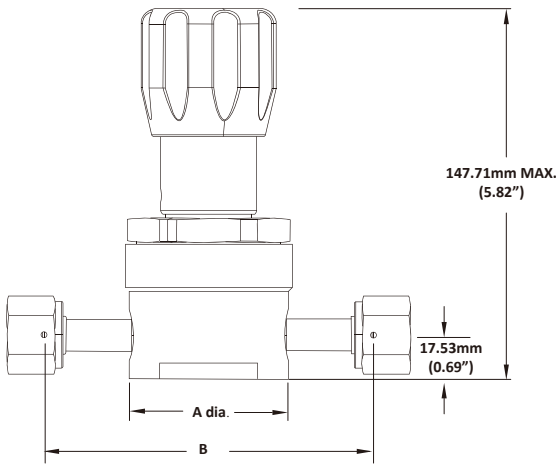
*VS option -10°to+90°C (14°to 194°F)

Materials

	Series W1300 S	Series W1300 SV
Wetted Parts		
Body	SS 316L	SS 316L VAR
Nozzle, Poppet	SS 316L	SS 316L
Diaphragm	NiCrMo alloy / UNS 06022	NiCrMo alloy / UNS 06022
Finish	electropolished and passivated	electropolished and passivated
Seat	PCTFE (PTFE optional)	PCTFE (PTFE optional)

All specifications subject to change without notice

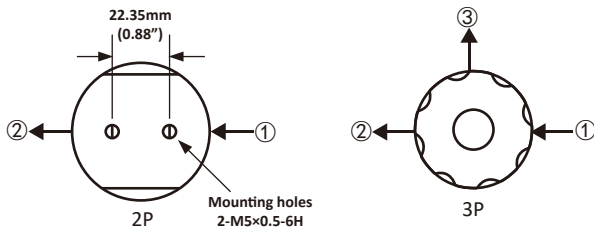
Dimensional Information



Face Seal	A dia.	B dia.
1/2"	64mm (2.50")	133mm (5.22"±.03)
3/4"	64mm (2.50")	159mm (6.26"±.04)

All dimensions in mm (inches). Inch dimensions are for reference only

Porting Configurations



Caution: The customer is entirely responsible for product selection and it should be based upon the customer's own analysis regardless of any recommendations, published or communicated, by Pure T. Products must also be installed, operated and maintained correctly for safe, problem-free usage.

Ordering Information

Model numbers W1315S2PF8F8					
Model Pressure	Material	Option	Porting ¹	Fittings	Options
W1303 = 30 psig	S = 316L	X = 5Ra	2P	F4 = 1/4 inch female face seal ²	TF = PTFE seat
W1306 = 60 psig	SV = 316L VAR		3P	M4 = 1/4 inch male face seal ²	VS = Polyimide seat
W1310 = 100 psig				F8 = 1/2 inch female face seal	P = Panel mount ring ³
W1315 = 150 psig				M8 = 1/2 inch male face seal	R = Captured vent ring ³
				F12 = 3/4 inch female face seal	
				M12 = 3/4 inch male face seal	
				Tube stubs available upon request	

1: Porting configuration numbers specify sequence of fittings in model number
 2: F4 and M4 can be specified on port numbers 3 only
 3: P and R options cannot be specified together

Pure T has product options which are not shown in the data sheet. Please consult your local distributor or the factory directly regarding special requests.