

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 μ m), 5 Ra μ inch (0.125 μ m) 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, 3/4 inch face seal
Flow coefficient (Cv)	1.3
Operating temperature	-30° to +70°C (-22° to +158°F) *
Surface finish	10 Ra μ inch (0.25 μ m) standard, 5 Ra μ inch (0.125 μ m) 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

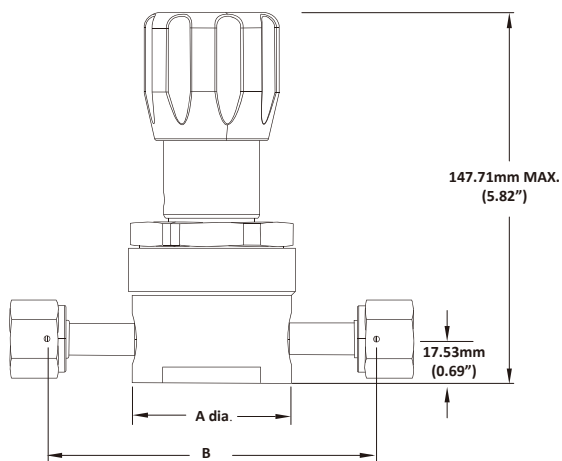
	Series W1300 S	Series W1300 SV
Wetted Parts		
Body	SS 316L	SS 316L VAR
Nozzle, Poppet	SS 316L	SS 316L
Diaphragm	NiCrMo alloy / UNS 06022	NiCrMo alloy / UNS 06022
Finish	electropolished and passivated	electropolished and passivated
Seat	PCTFE (PTFE optional)	PCTFE (PTFE optional)

All specifications subject to change without notice



Purity by design and manufacturing

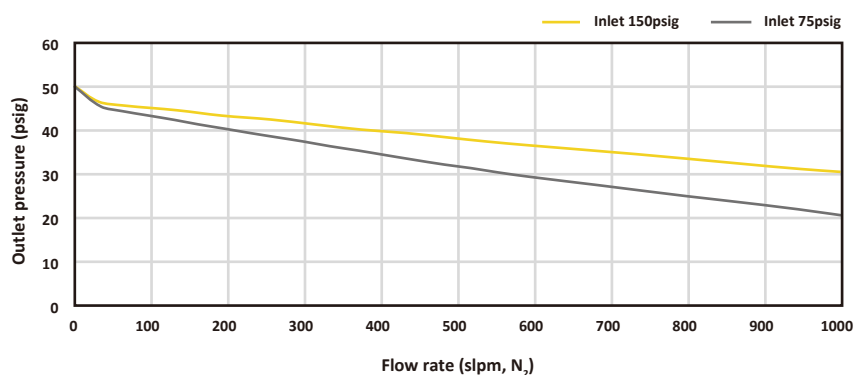
Dimensional Information



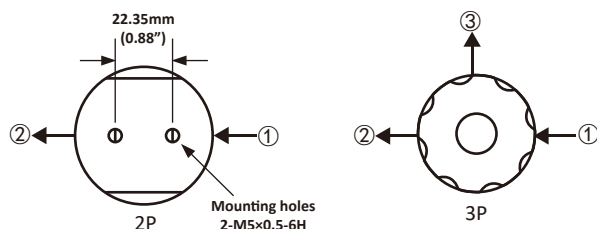
Face Seal	A dia.	B dia.
1/2"	64mm (2.50")	133mm (5.22"±.03)
3/4"	64mm (2.50")	159mm (6.26"±.04)

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

W1300 Flow curve



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