

SERIES W1200

SINGLE STAGE, TIED DIAPHRAGM REGULATOR

High flow capacity



- Flow rates to 1,000 slpm (35 scfm) of N₂
- Inlet pressure rating 3,000 psig (20.7 MPag)
- Tied diaphragm design for failsafe shutoff
- SS 316L VAR or SS 316L construction
- Super alloy internals standard
- Standard surface finish 10 Ra μ inch (0.25 μ m) , 5 Ra μ inch (0.125 μ m) optional
- Automated performance and functional testing
- True metal to metal diaphragm seal
- 100% He leak tested
- Regulator of choice for high flow source 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 3,000 psig (20.7 MPag)
Delivery pressure W1203	1 to 30 psig (0.007 to 0.2 MPag)
W1206	1 to 60 psig (0.007 to 0.4 MPag)
W1210	2 to 100 psig (0.014 to 0.7 MPag)
W1215	5 to 150 psig (0.034 to 1.0 MPag)
W1225	Preset to 250 psig (1.7 MPag) at 800psig (5.5MPag) inlet
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)	1.1
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	2.7 psig per 100 psig source pressure change

**VS option -10°to+90°C (14°to 194°F)

Materials

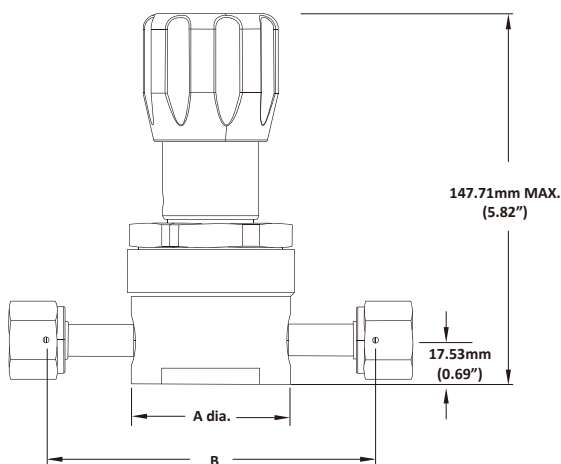
	Series W1200 SH	Series W1200 SVH
Wetted Parts		
Body	SS 316L	SS 316L VAR
Poppet, diaphragm	NiCrMo alloy / UNS N06022	NiCrMo alloy / UNS N06022
Finish	electropolished and passivated	electropolished and passivated
Seat	PCTFE (Polyimide & PTFE optional)	PCTFE (Polyimide & PTFE optional)

All specifications subject to change without notice

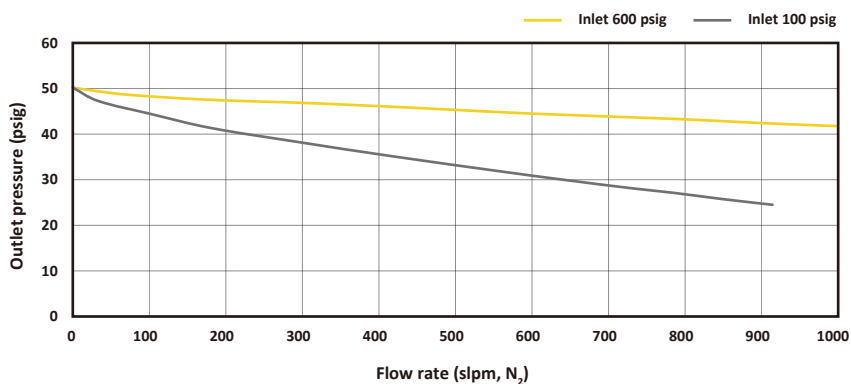


Purity under pressure

Dimensional Information



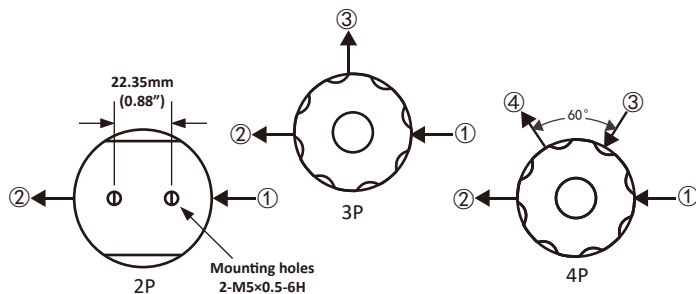
W1200 Flow curve



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 W1215SH2PF8F8					
Model Pressure	Material	Option	Porting ²	Fittings	Options
W1203 = 30 psig W1206 = 60 psig W1210 = 100 psig W1215 = 150 psig W1225 = 250 psig ¹	SH = 316L SVH = 316L VAR	X = 5Ra	2P 3P 4P	F4 = 1/4 inch female face seal ³ M4 = 1/4 inch male face seal ³ 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	VS = Polyimide seat P = Panel mount ring ⁴ R = Captured vent ring ⁴

1: 250 psig outlet is preset only, set at 800 psig inlet

2: Porting configuration numbers specify sequence of fittings in model number

3: F4 and M4 can be specified on port numbers 3 and 4 only

4: 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.