

SERIES W1000

SINGLE STAGE, FREE POPPET REGULATOR

Low to intermediate flow capacity



- Flow rates to 120 slpm (4 scfm) of N₂
- Inlet pressure rating 3,500 psig (24.1 MPa)
- SS 316L VAR or SS 316L construction
- Super alloy internals option
- Standard surface finish 10 Ra μ inch (0.25 μ m), 5 Ra μ inch (0.125 μ m) optional
- Regulator of choice for point of use applications
- Sub atmospheric option for absolute pressure delivery
- 100% Performance and functional automated testing
- True metal to metal diaphragm seal
- 100% He leak tested
- 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	W1000 W1003A and TF option	vacuum to 3,500 psig (24.1 MPa); vacuum to 300 psig (2.1 MPa)
Delivery pressure	W1003A W1003 W1006 W1010 W1015 W1030	100 mmHg absolute to 30 psig (0.2 MPa) 1 to 30 psig (0.007 to 0.2 MPa) 2 to 60 psig (0.014 to 0.4 MPa) 2 to 100 psig (0.014 to 0.7 MPa) 5 to 150 psig (0.034 to 1.0 MPa) 5 to 300 psig (0.34 to 2.1 MPa)
Proof pressure		150% of operating pressures
Burst pressure		300% of operating pressures

Other Parameters

Inlet/outlet connectors	1/4 or 1/2 inch face seal
Flow coefficient (Cv)	0.15
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 He
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	0.75 psig per 100 psig source pressure change

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

Materials

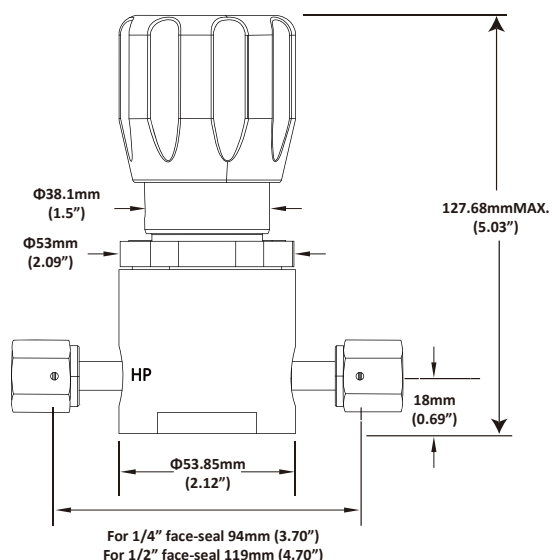
	Series W1000 S / SV	Series W1000 SVH
Wetted Parts		
Body	SS 316L / SS 316L VAR	SS 316L VAR
Poppet, diaphragm	SS 316L	NiCrMo alloy / UNS N06022
Finish	electropolished and passivated	electropolished and passivated
Seat	PCTFE (Polyimide & PTFE optional)	PCTFE (Polyimide & PTFE optional)

All specifications subject to change without notice



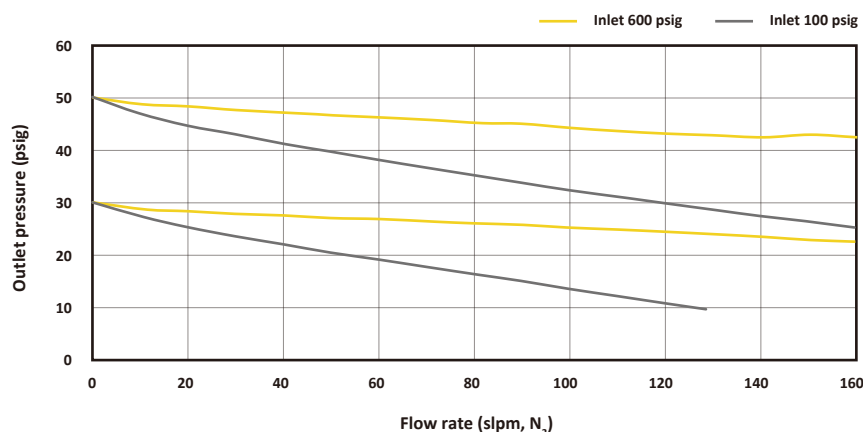
Purity by design

Dimensional Information

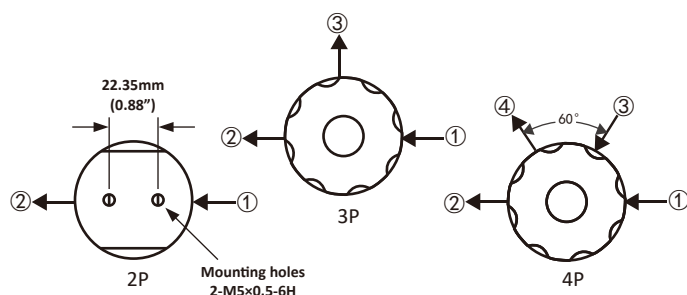


All dimensions in mm (inches). Inch dimensions are for reference only

W1000 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 number W1015S2PF4F4					
Model Pressure	Material	Option ¹	Porting ³	Fittings	Options
W1003 = 30 psig	S = SS 316L	H = NiCrMo internals	2P	F4 = 1/4 inch female face seal	TF = PTFE seat ⁴
W1006 = 60 psig	SV = SS 316L VAR	X = 5Ra	3P	M4 = 1/4 inch male face seal	VS = Polyimide seat
W1010 = 100 psig		A ² = 100 mmHg Absolute to 30 psig	4P	F8 = 1/2 inch female face seal	P = Panel mount ring ⁵
W1015 = 150 psig				M8 = 1/2 inch male face seal	R = Captured vent ring ⁵
W1030 = 300 psig				Tube stubs available upon request	

1: Options listed in the order of H X A
2: A option requires 03 pressure range and reduces inlet pressure rating to 300 psig
3: Porting configuration numbers specify sequence of fittings in model number
4: TF option reduces inlet pressure rating to 300 psig
5: 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.