



SERIES AZ 1000

SINGLE STAGE REGULATOR

Flow Rates to 120 slpm

- SS 316L construction
- 10 μ m. surface finish (25 μ m. optional)
- Vacuum to 3500 psig (241 bar) inlet
- 1 to 150 psig (0.07 to 10 bar) outlet
- Cleaned, assembled and packaged for high purity semiconductor applications
- Flow rates
 - Standard to 30 slpm
 - HF option to 120 slpm
- Regulator of choice for point of use applications

Operating Parameters

Source pressure	vacuum to 3,500 psig (241 bar) for AZ 1001, 300 psig (21 bar)
Delivery pressure	AZ 1001: 1 to 10 psig (0.07 to 0.7 bar) AZ 1002: 1 to 30 psig (0.07 to 2 bar) AZ 1006: 2 to 60 psig (0.14 to 4 bar) AZ 1010: 2 to 100 psig (0.14 to 7 bar) AZ 1015: 5 to 150 psig (.34 to 10 bar)
Proof pressure	5,000 psig (345 bar)
Burst pressure	10,000 psig (690 bar)

Other Parameters

Inlet/outlet connectors	1/4 or 3/8 inch face seal or tube weld
Flow coefficient (Cv)	0.09 (0.15 HF option)
Internal volume	0.49 in ³ (8 cm ³)
Operating temperature	-40° to +160°F (-40° to +71°C)
Surface finish	10 μ m. (0.25 μ m) Ra avg 25 μ m. (0.62 μ m) optional
Inboard leakage	2 x 10 ⁻¹⁰ sccs
Outboard leakage	2 x 10 ⁻⁹ sccs He
Leakage across seat	4 x 10 ⁻⁸ sccs He
Installation	surface or panel (optional)
Delivery pressure rise	0.25 psig per 100 psig source pressure drop
HF	0.75 psig per 100 psig source pressure drop

Materials

	Series AZ 1000 S	Series AZ 1000 SHP
Wetted Parts		
Body, nozzle	SS 316L*	SS 316L*
Poppet, diaphragm	SS 316L	Hastelloy® C-22®
Finish	electropolished and passivated	electropolished and passivated
Seat	PCTFE (Vespel® optional)	PCTFE

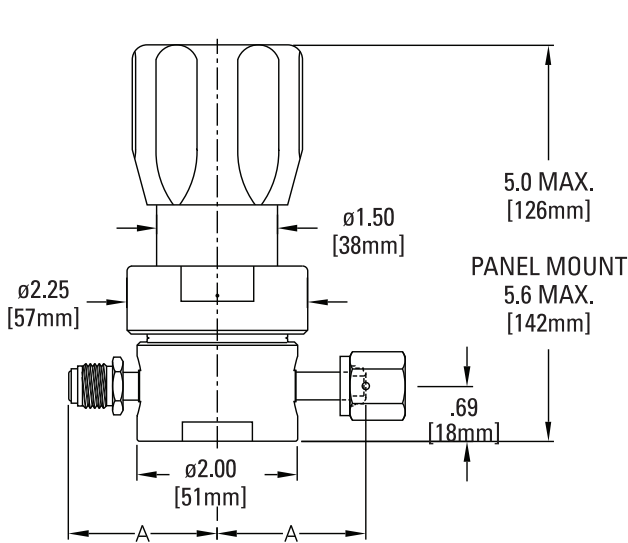
All specifications subject to change without notice.

Hastelloy® C-22® Haynes Corporation Vespel® DuPont

* Please refer to product note PN 414 regarding single melt 316L SS material

ULTRACLEAN BY DESIGN AND MANUFACTURING

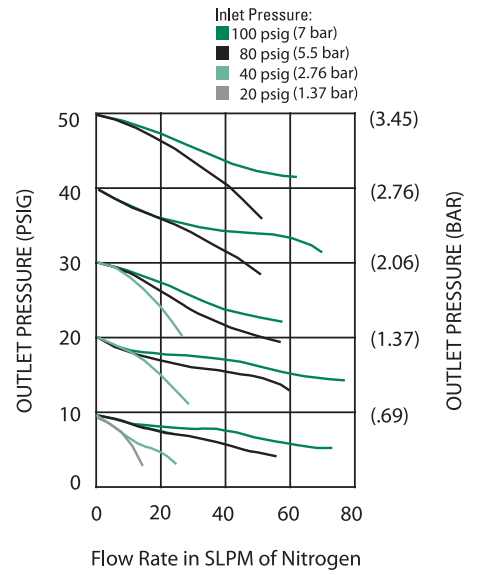
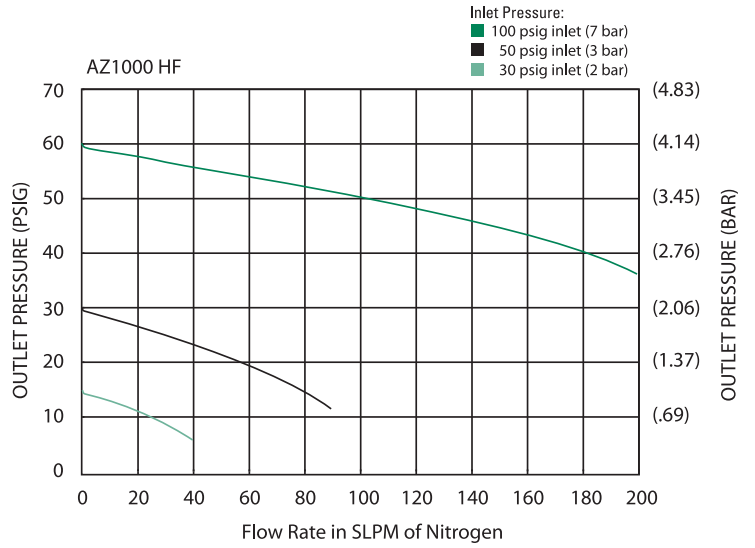
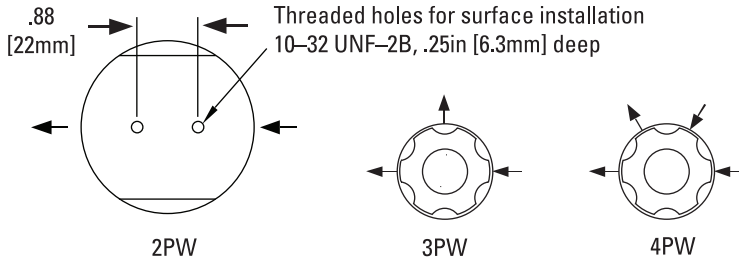
DIMENSIONAL INFORMATION



Face Seal	A	
	in	mm
1/4"	1.85 ±.01	47
3/8"	2.35 ±.02	60

All dimensions in inches (mm).

PORTING CONFIGURATIONS



ORDERING INFORMATION

Sample Order Number **AZ 1010SQ 2PW FV4 FV4**

AZ 1010 Series	AZ 1001 = 1-10 psig (.07 to .7 bar) AZ 1002 = 1-30 psig (.07 to 2 bar) AZ 1006 = 2-60 psig (.14 to 4 bar) AZ 1010 = 2-100 psig (.14 to 7 bar) AZ 1015 = 5-150 psig (.34 to 10 bar)	FV4 FV4 Connections Inlet / Outlet	FV4 = 1/4 inch face seal female MV4 = 1/4 inch face seal male FV6 = 3/8 inch face seal female MV6 = 3/8 inch face seal male Tube weld stub available
S Material	S = Stainless steel (SS) SHP = SS/Hastelloy poppet and diaphragm	Delivery Gauge*	0 = No gauge V3 = 30-0-30 psig/bar L = 30-0-60 psig/bar 1 = 30-0-100 psig/bar H = 30-0-160 psig/bar * Standard gauge port is 1/4 inch face seal male (1/4 inch face seal female are available).
Q Surface Finish Option	Q = 25 µin.	Options	P = Panel installation** VS = Vespel seat HF = High flow ** Panel hole 1.56" diameter.
2PW Ports	2PW = 2 ports butt weld 3PW = 3 ports butt weld 4PW = 4 ports butt weld		