

SERIES AZ 1000

SINGLE STAGE REGULATOR

Flow Rates to 120 slpm



- SS 316L construction
- 10 μ in. surface finish
- 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 bulk gas 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 in. (0.25 μ m) Ra avg
Inboard leakage	2 x 10 ⁻¹⁰ sccs
Outboard leakage	2 x 10 ⁻⁹ sccs He at 1,500 psig inlet pressure
Leakage across seat	4 x 10 ⁻⁸ sccs He at 1,000 psig inlet pressure
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
Type of Service	Noncorrosive
Wetted Parts	
Body	SS 316L*
Poppet, nozzle, diaphragm	SS 316L
Finish	electropolished and passivated
Seat	PCTFE (Vespel® optional)

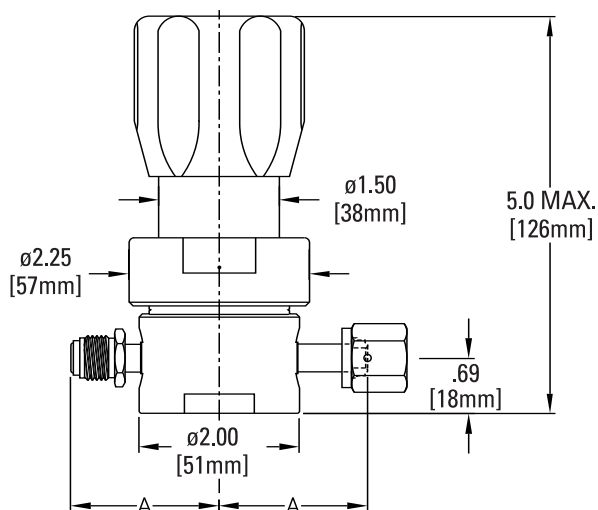
All specifications subject to change without notice.

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

Vespel® DuPont

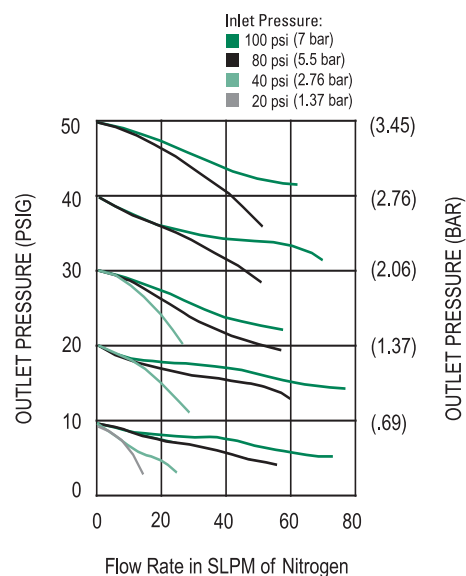
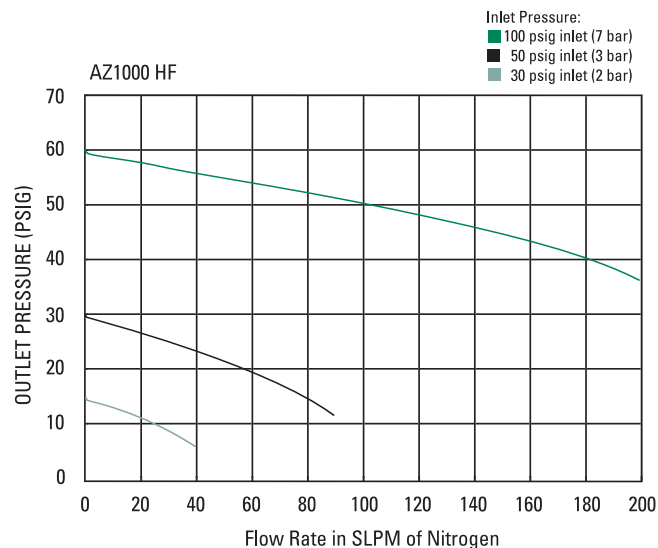
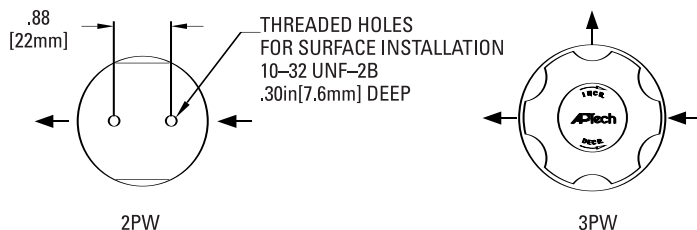
ULTRACLEAN BY DESIGN AND MANUFACTURING

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 1010S 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)

S | Material

S = Stainless steel

2PW | Ports

2PW = 2 ports butt weld
3PW = 3 ports butt weld

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

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).

Options

P = Panel installation**
VS = Vespel seat
HF = High flow

** Panel hole 1.56" diameter.