



SERIES AZ 10PA

SINGLE STAGE REGULATOR

PNEUMATIC ACTUATION

Flow Rates to 120 slpm

- Actuation control pressure isolated from process gas
- SS 316L construction
- 10 μ m. surface finish (25 μ m. optional)
- Vacuum to 3500 psig (241 bar) inlet
- 7 to 150 psig (0.5 to 10 bar) outlet
- Flow rates
 - Standard to 30 slpm
 - HF option to 100 slpm
- 100 psig outlet achieved with 80 psig control pressure or less
- Actuator 'fail safe' normally closed (NC)
- Installation and operating instructions available at www.aptech-online.com in the Tech Briefs section

Operating Parameters

Source pressure		vacuum to 3,500 psig (241 bar)
Delivery pressure	AZ 10PA	7 to 150 psig (0.5 to 10 bar)
Proof pressure		5,000 psig (345 bar)
Burst pressure		10,000 psig (690 bar)
Control pressure		150 psig (10 bar) maximum

Other Parameters

Inlet/outlet connectors		1/4 or 3/8 inch face seal or tube weld
Control pressure port		1/8 inch NPT
Bonnet vent port		1/8 inch NPT
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
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 10PA S	Series AZ 10PA 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.

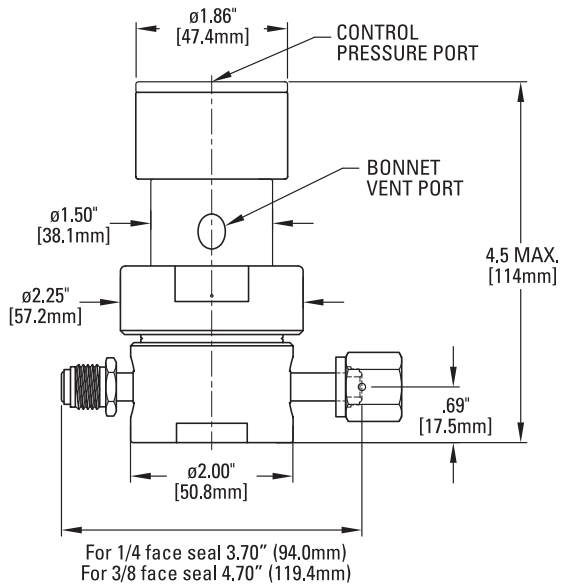
Hastelloy® C-22® Haynes Corporation Vespel® DuPont

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

ENGINEERING DATA — SERIES AZ 10PA SINGLE STAGE REGULATOR

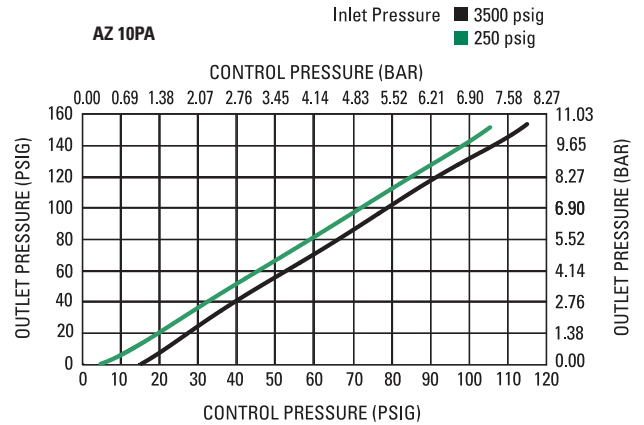
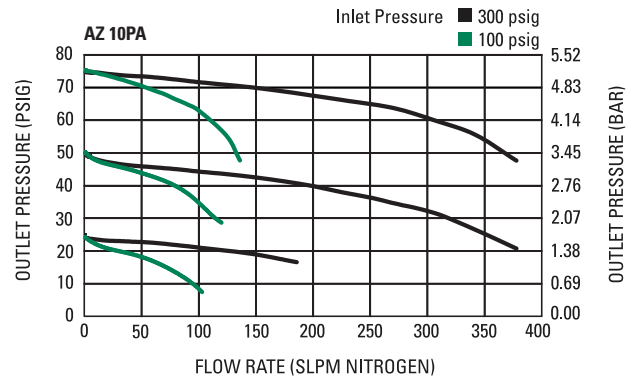
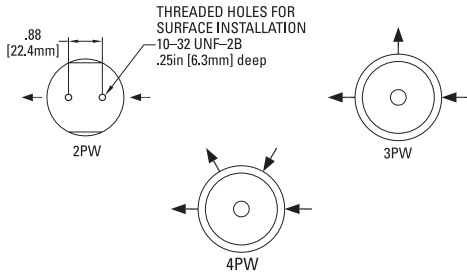
ULTRACLEAN BY DESIGN AND MANUFACTURING

DIMENSIONAL INFORMATION



All dimensions in inches (mm).

PORTING CONFIGURATIONS



CAUTION: Product selection is the sole responsibility of the user, regardless of any recommendations or suggestions made by the factory. The user shall make selections based upon their own analysis and testing with regard to function, material compatibility and product ratings. Proper installation, operation and maintenance are also required to assure safe, trouble free performance.

ORDERING INFORMATION

Sample Order Number	AZ 10PASQ 2PW FV4 FV4	
AZ 10PA Series	AZ 10PA = 7-150 psig (0.5 to 10 bar)	FV4 FV4 Connections Inlet / Outlet
S Material	S = Stainless steel (SS) SHP = SS/Hastelloy poppet and diaphragm	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
Q Surface Finish Option	Q = 25 μ in.	Delivery Gauge*
2PW Ports	2PW = 2 ports butt weld 3PW = 3 ports butt weld 4PW = 4 ports butt weld	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
		VS = Vespel seat HF = High flow**
		** HF option does not achieve maximum rated outlet pressure at all inlet pressures.