

SERIES AZ 10PA SINGLE STAGE REGULATOR PNEUMATIC ACTUATION

Flow Rates to 120 slpm



- Actuation control pressure isolated from process gas
- SS 316L construction
- 10 μin. surface finish (25 μin. 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

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		150% of operating pressures	
	Burst pressure		300% of operating pressures	
	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 μin. (0.25 μm) Ra avg	
	25 μin. (0.62 μm) 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	
Supply pressure effect	0.25 psig per 100 psig source pressure change	
HF	0.75 psig per 100 psig source pressure change	

^{*}VS option 14° to 194°F (-10° to + 90°C).

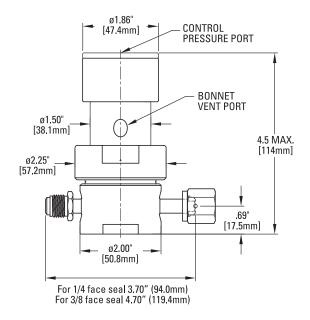
Materials

	Series AZ 10PA S	Series AZ 10PA SHP
Wetted Parts		
Body, nozzle	SS 316L**	SS 316L**
Poppet, diaphragm	SS 316L	Ni-Cr-Mo alloy / UNS N06022
·		electropolished and passivated
		PCTFE

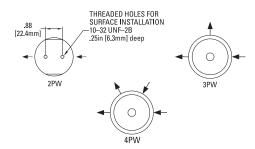
^{**}Please refer to product note PN 414 regarding single melt 316L SS material. All specifications subject to change without notice.

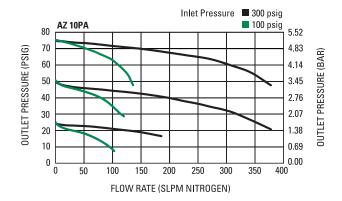
^{***}A pressure regulator Cv is a nominal value which indicates the point of choked flow. Please refer to a flow curve or a recommendation guide for usable flow range.

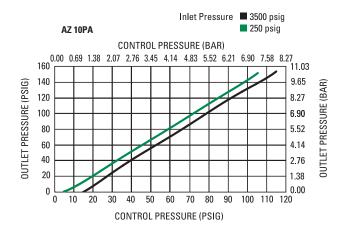
ULTRACLEAN BY DESIGN AND MANUFACTURING



All dimensions in inches (mm).







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.

Sample Order Number	AZ 10PASQ 2PW FV4 FV4			
AZ 10PA Series	AZ 10PA = 7-150 psig (0.5 to 10 bar)			
S Material	S = Stainless steel (SS) SHP = SS/Ni-Cr-Mo alloy poppet and diaphragm			
Q Surface Finish Option	Q = 25 μin.			
2PW Ports	2PW = 2 ports butt weld 3PW = 3 ports butt weld 4PW = 4 ports butt weld			
AP Tech has product options and variations which are not documented in data sheets. If you have a model number that is not defined by the ordering information, please consult the factory or your local representative.				

FV4 FV4	FV4 Connections Inlet / Outlet	MV4 = 1/4 ir FV6 = 3/8 ir MV6 = 3/8 ir	nch face seal female nch face seal male nch face seal female nch face seal male weld stub available
	Gauges* Source / Delivery	$ 1 = 0-100 \\ 2 = 0-200 \\ 4 = 0-400 \\ 10 = 0-100 \\ 40 = 0-400 $	30 psig/bar 60 psig/bar) psig/bar) psig/bar) psig/bar)0 psig/bar)0 psig/bar
	Options		