

SERIES AP 15PA

TIED DIAPHRAGM REGULATOR PNEUMATIC ACTUATION

Low Flow — High Pressure



- Actuation control pressure isolated from process gas by two seals
- Single stage
- SS 316L VAR secondary remelt or super alloy construction
- Surface finish
 15 Ra max/10 Ra avg
 (10, 7 & 5 Ra max options)
- Vacuum to 3,500 psig (241 bar) inlet
- 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 AP 15PA	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
Internal volume	0.51 in ³ (8.4 cm ³)
Operating temperature	-40° to +160°F (-40° to +71°C)*
Surface finish	15 μin Ra max / 10 μin. Ra avg.
	(0.4/0.25 μm) standard; 10 μin (0.25 μm);
	7 μin (0.18 μm); and 5 μin (0.13 μm) Ra max optional
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
Supply pressure effect	0.25 psig per 100 psig source pressure change

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

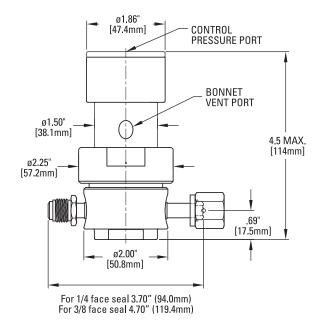
Materials

Type of Service	Series AP 15PA S Noncorrosive	Series AP 15PA SH Corrosive (SHP option)**	Series AP 15PA H Corrosive
Wetted Parts			
Body	SS 316L secondary remelt	SS 316L secondary remelt	Ni-Cr-Mo alloy / UNS N06022
Poppet, nozzle, diaphragm	SS 316L	Ni-Cr-Mo alloy / UNS N06022	Ni-Cr-Mo alloy / UNS N06022
Finish	electropolished and passivated	electropolished and passivated	electropolished
Seat	PCTFE (Polyimide optional)	PCTFE	PCTFE

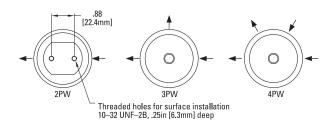
 $[\]star\star SHP$ option Ni-Cr-Mo alloy poppet and diaphragm only.

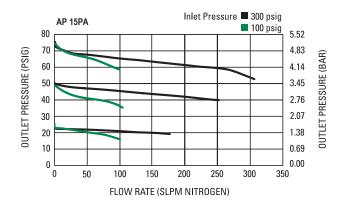
All specifications subject to change without notice.

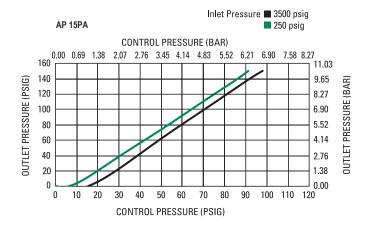
ULTRACLEAN TECHNOLOGY BACKED BY SERVICE AND SUPPORT



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







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	AP 15PASM 4PW FV4 FV4 40 1				
AP 15PA Series	AP 15PA = 7-150 psig (.5 to 10 bar)				
S Material	S = Stainless steel (SS) SH = SS/Ni-Cr-Mo alloy internals SHP = SS/Ni-Cr-Mo alloy poppet diaphragm H = Ni-Cr-Mo alloy				
M Surface Finish Options	M = 10 μin. Ra max V = 7 μin. Ra max X = 5 μin. Ra max				
4PW 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 Connections Inlet / Outlet	MV4 = FV6 =	1/4 inch face seal female 1/4 inch face seal male 3/8 inch face seal female 3/8 inch face seal male Tube weld stub available
40 1 Gauges* Source / Delivery	V3 = L = 1 = 2 = 4 = 10 =	No gauge 30-0-30 psig/bar 30-0-60 psig/bar 30-0-100 psig/bar 0-200 psig/bar 0-400 psig/bar 0-1000 psig/bar 0-4000 psig/bar
Options		* Standard gauge ports are 1/4 inch face seal male (1/4 inch female available). Polyimide seat Short bonnet