PSIG / BAR

250 / 17



SERIES AP 37, 38 & 39

1/2 INCH DIAPHRAGM VALVE

Springless – manual and pneumatic (NC & NO)



PSIG / BAR

250 / 17

- 316L VAR SS secondary remelt construction
- Operating pressure vacuum to 250 psig (17 bar)
- Machined from bar stock
- Multi-port and monoblock available (refer to page 4)
- LOTO AP 3900
- Flow capacity 2.8 C_v
- Surface finish
 15 Ra max/10 Ra avg
 (10, 7 & 5 Ra max options)
- Indicating switch AP 3700 and AP 3708 option
- Installation and operating instructions available at www.aptech-online.com in the Tech Briefs section

Manual	va	lves	

AP 3800	•
Round knob	
 Open/closed status indicating window 	
AP 3900	•
Round knob	
 Open/closed status indicating window 	
 Pull, then turn to open – operational or safety feature 	
 Lock out/tag out (LOTO) – integral standard feature 	

Pneumatic valve, normally closed (NC)

ormally closed (NC)	PSIG / BAR 250 / 17
AP 3700	•
 Switch option for remote monitoring 	

Pneumatic valve, normally open (NO)

AP 3708

- Switch option for remote monitoring

All specifications subject to change without notice.

HIGH PURITY ~ HIGH VALUE

Operating Parameters — all valves

Inlet pressure	vacuum to 250 psig (17 bar)
Outlet pressure	vacuum to inlet pressure
Proof pressure	150% of operating pressure
Burst pressure	300% of operating pressure

Other Parameters — all valves

Inlet /outlet connectors	3/8, 1/2 or 3/4 inch face seal or tube weld	
Flow coefficient (Cv)	2.8, XT = 1.0	
Internal volume	0.76 in ³ (12.52 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	
	Optional surface finishes meet or exceed 5 µin Ra average	
Inboard leakage	2 x 10-10 sccs	
Outboard leakage	2 x 10-9 sccs He	
Leakage across seat	1 x 10-9 sccs He	

Operating Parameters — pneumatic valves

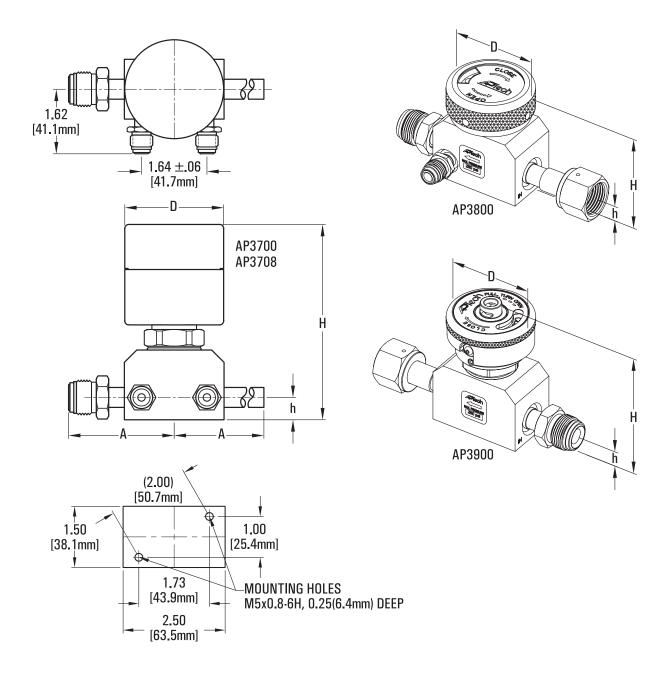
Status	AP 3700 AP 3708	normally closed (NC) normally open (NO)
Actuation port		M5, side port
Actuation pressure		80 to 100 psig (5.5 to 7 bar)

Materials — wetted parts, all valves

Body	SS 316L secondary remelt
Finish	electropolished and passivated
Diaphragm	stainless steel 316L (Ni-Cr-Mo alloy optional)
Seat	PCTFE (Polyimide optional)

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

All specifications subject to change without notice.



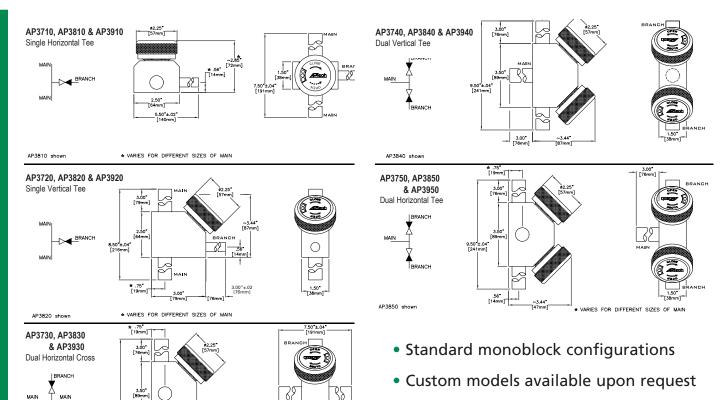
- · Metric dimensions are for reference only.
- Height of the valve (H) is an approximate value.
- · All specifications subject to change without notice.
- AP3800 valve is shown in open position, AP3900 valve is shown in closed position.
- Fitting dimensions do not apply to monoblock configurations

VALVE	D		Н		h	
VALVE	inch	mm	inch	mm	inch	mm
AP3700	ø2.48	63.0	5.0	127	.56	14.2
AP3708	ø2.48	63.0	4.4	112	.56	14.2
AP3800	ø2.25	57.2	2.85	72	.56	14.2
AP3900	ø2.25	57.2	3.64	92	.56	14.2

CONNECTION	А		
CONNECTION	inch [±.02]	mm	
FV8, MV8	2.65	67.3	
TW6, TW8, TW12	4.25	108	
FV12, MV12	3.20	81.3	

AP3830 shown

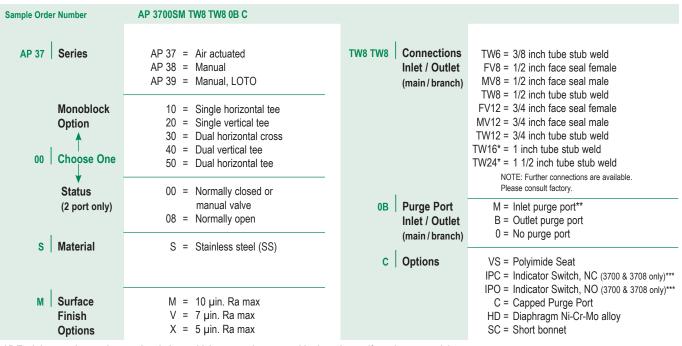
ULTRACLEAN TECHNOLOGY BACKED BY SERVICE AND SUPPORT



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.

 Monoblock fitting dimensions apply to tube stub only, consult factory for face

seal dimensions



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.