

# SERIES AP 3625 & AP 4625

## MANUAL 1/4" & 3/8" SPRINGLESS DIAPHRAGM VALVE

A new twist in 1/4 turn technology



- Stainless steel 316L VAR secondary remelt or Hastelloy® alloy C-22® construction
- 1/4 turn lever
- 15 µin. surface finish; (10, 7 and 5 µin. optional)
- Metal to metal seal to atmosphere
- Replaceable PCTFE seat (Vespel® optional)
- LOTO compatible, PL 225
- Available in surface mount, multiport or monoblock
- Optional handle sizes and colors
- Low internal volume and surface area

### Operating Parameters

Inlet pressure	AP 3625 AP 4625	vacuum to 3,000 psig (207 bar) vacuum to 250 psig (17 bar)
Outlet pressure	AP 3625 AP 4625	vacuum to inlet pressure vacuum to inlet pressure
Proof pressure	AP 3625 AP 4625	4,000 psig (276 bar) 1,000 psig (69 bar)
Burst pressure	AP 3625 AP 4625	8,000 psig (552 bar) 8,000 psig (552 bar)

### Other Parameters

Inlet/outlet connectors	1/4 or 3/8 inch face seal or tube weld
Flow coefficient (Cv)	AP 3625 AP 4625
Internal volume	0.06 in³ (1.07 cm³)
Operating temperature	-40° to +160°F (-40° to +71°C)
Surface finish	15 µin. (0.4 µm) Ra max standard; 10 µin (0.25 µm); 7 µin (0.18 µm); and 5 µin (0.13 µm) optional
Inboard leakage	2 x 10⁻¹⁰ sccs
Outboard leakage	2 x 10⁻⁹ sccs He at 250 psig inlet pressure
Leakage across seat	4 x 10⁻⁸ sccs He at 250 psig inlet pressure

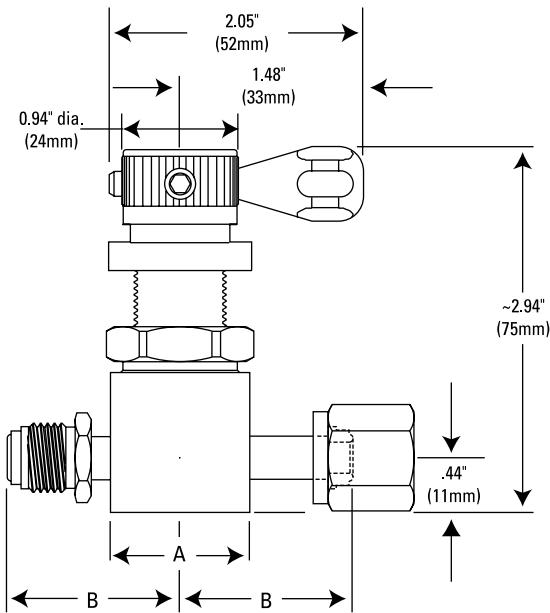
### Materials

Type of Service	Series AP 3625 S & 4625 S	Series AP 3625 H & 4625 H
Noncorrosive		Corrosive
Wetted Parts		
Body	stainless steel 316L secondary remelt	Hastelloy alloy C-22
Finish	electropolished and passivated	electropolished
Diaphragm	Elgiloy®	Elgiloy
Seat	PCTFE (Vespel® optional)	PCTFE

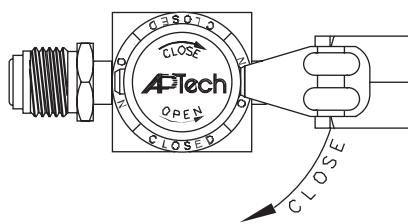
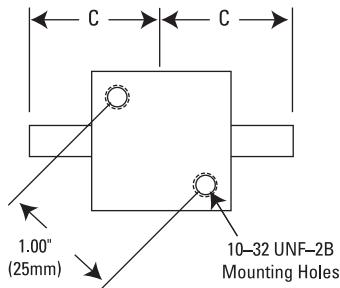
All specifications subject to change without notice.

Hastelloy® C-22® Haynes Corporation   Vespel® DuPont   Elgiloy® Elgiloy Corporation

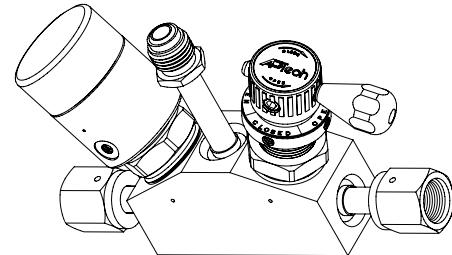
## DIMENSIONAL INFORMATION



All dimensions in inches (mm).



Optional handle colors and configurations available.



Multiport, monoblock, IGS and custom configurations available.

## ORDERING INFORMATION

Sample Order Number	AP 3625SM 2PW MV4 MV4	
AP 3625   Series	AP 3625 AP 4625	MV4 MV4   Connections Inlet / Outlet
S   Material	S = 316 L stainless steel H = Hastelloy alloy C-22	F4 = 1/4 inch face seal female M4 = 1/4 inch face seal male TW4 = 1/4 inch tube stub weld F6 = 3/8 inch face seal female M6 = 3/8 inch face seal male TW6 = 3/8 inch tube stub weld
M   Surface Finish Options	M = 10 µin. Ra V = 7 µin. Ra X = 5 µin. Ra	1.75" = 1.75" face to face TW4 VS = Vespel seat P = Panel Mount*
2PW   Ports	2PW = 2 ports butt weld 3PW = 3 ports butt weld 4PW = 4 ports butt weld 5PW = 5 ports butt weld	* Panel hole 0.78" diameter.
Refer to valve porting guide for selection. Please refer to technical bulletin 206 for surface mount (IGS) options.		