



# SERIES AP 3200 & 3260

## METAL SEATED 1/4 INCH DIAPHRAGM VALVE

Pneumatically (NC) or manually actuated

- Vacuum to 125 psig (9 bar)
- Stainless steel 316L VAR secondary remelt
- All metal wetted parts for increased compatibility with  $\text{ClF}_3$  and  $\text{F}_2$
- 15  $\mu\text{in.}$  surface finish (10, 7 and 5  $\mu\text{in.}$  opt)
- Cleaned, assembled and packaged for high purity semiconductor applications
- AP 3200 = Air actuated NC (normally closed)
- AP 3260 = Manual, multi turn
- All metal, no wetted plastic or polymer

### Operating Parameters — all valves

Inlet pressure	vacuum to 125 psig (9 bar)
Outlet pressure	vacuum to inlet pressure
Proof pressure	1,000 psig (69 bar)
Burst pressure	8,000 psig (552 bar)

### Other Parameters — all valves

Inlet /outlet connectors	1/4 or 3/8 inch face seal or tube weld
Flow coefficient (Cv)	0.27, $X_T = 0.7$
Internal volume	0.06 in <sup>3</sup> (1.07 cm <sup>3</sup> )
Operating temperature	-40° to +212°F (-40° to +100°C)
Surface finish	15 $\mu\text{in.}$ (0.4 $\mu\text{m}$ ) Ra max standard; 10 $\mu\text{in}$ (0.25 $\mu\text{m}$ ); 7 $\mu\text{in}$ (0.18 $\mu\text{m}$ ); and 5 $\mu\text{in}$ (0.13 $\mu\text{m}$ ) optional
Inboard leakage	$2 \times 10^{-10}$ sccs
Outboard leakage	$2 \times 10^{-9}$ sccs He at 125 psig
Leakage across seat	$1 \times 10^{-6}$ sccs He at 125 psig inlet pressure

### Other Parameters – AP 3200

Actuation port	1/8 inch NPT, top port
Actuation pressure	70 – 110 psig (4.8 – 8.3 bar)
Status	Normally closed (NC)

### Materials

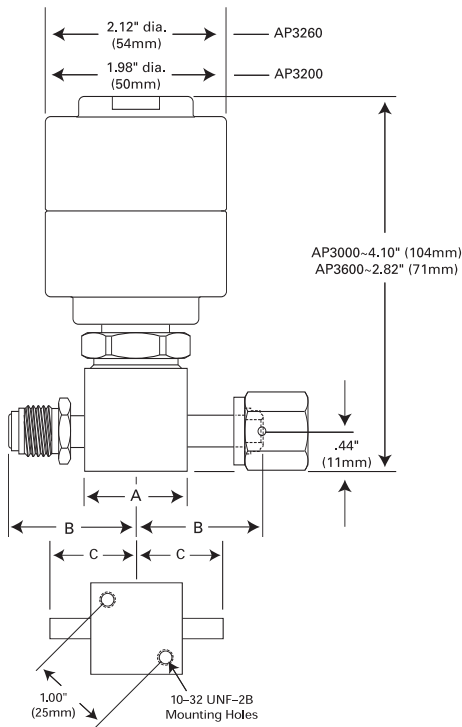
Series AP 32 S	
Wetted Parts	
Body	SS 316L secondary remelt
Finish	electropolished and passivated
Diaphragm	Elgiloy®

All specifications subject to change without notice

Elgiloy® Elgiloy Corporation

# UNCOMPROMISING QUALITY, PERFORMANCE AND RELIABILITY

## DIMENSIONAL INFORMATION



MATERIAL	CONNECTION	A		B		C	
		in.	mm	in. [ $\pm 0.01$ ]	mm	in. [ $\pm 0.01$ ]	mm
S	FV4, MV4	1.12 sq.	28	1.39	35	–	–
	TW4	1.12 sq.	28	–	–	1.06	27
	FV6, MV6	1.12 sq.	28	1.93	49	–	–
	TW6	1.12 sq.	28	–	–	1.33	34

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

## PORTING CONFIGURATIONS

Please refer to Technical Bulletin 203 for valve porting configurations.

## ORDERING INFORMATION

Sample Order Number

**AP 3200SM 2PW MV4 MV4**

**AP 3200 | Series**  
 AP 3200 = Pneumatic, NC  
 AP 3260 = Manual, multi-turn

**S | Material**  
 S = Stainless steel (SS)

**M | Surface Finish Options**  
 M = 10  $\mu$ m. Ra max  
 V = 7  $\mu$ m. Ra max  
 X = 5  $\mu$ m. Ra max

**2PW | Ports**  
 2PW = 2 ports butt weld  
 3PW = 3 ports butt weld  
 4PW = 4 ports butt weld  
 5PW = 5 ports butt weld  
 (Refer to valve porting guide for selection)

**MV4 MV4 | Connections Inlet / Outlet**  
 MV4 = 1/4 inch face seal male  
 FV4 = 1/4 inch face seal female  
 TW4 = 1/4 inch tube stub weld  
 (3/8 connectors optional)

**Options**  
 1.75 = 1.75" face to face TW4  
 P = Panel Mount (AP 3260 only)  
 IS = Indicator Switch (AP 3200 only)