



# 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  $\text{F}_2$
- Surface finish  
15 Ra max/10 Ra avg  
(10, 7 & 5 Ra max options)
- AP 3200 = Air actuated NC (normally closed)
- AP 3260 = Manual, multi turn
- All metal, no wetted plastic or polymer
- Indicating switch option (AP 3200)
- Installation and operating instructions available at [www.aptech-online.com](http://www.aptech-online.com) in the Tech Briefs section

### 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 $\mu\text{in}$ Ra max / 10 $\mu\text{in}$ Ra avg. (0.4/0.25 $\mu\text{m}$ ) 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 $\mu\text{m}$ ) Ra max 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

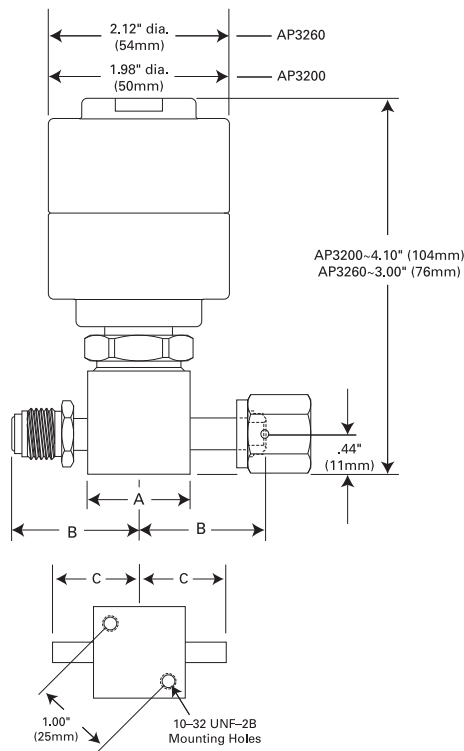
	Series AP 32 S
Wetted Parts	
Body	SS 316L secondary remelt
Finish	electropolished and passivated
Diaphragm	Elgiloy®

All specifications subject to change without notice

Elgiloy® Elgiloy Corporation

# UNCOMPROMISING QUALITY, PERFORMANCE AND RELIABILITY

## DIMENSIONAL INFORMATION



Drawing of 3200

MATERIAL	CONNECTION	A		B		C	
		in.	mm	in. [±.01]	mm	in. [±.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	—	—	1.325	34

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

## PORTING CONFIGURATIONS

Please refer to Technical Bulletin 203 for valve porting configurations.

**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.

## ORDERING INFORMATION

Sample Order Number		AP 3200SM 2PW MV4 MV4	
AP 3200	Series	AP 3200 = Pneumatic, NC AP 3260 = Manual, multi-turn	MV4 MV4   Connections Inlet / Outlet  Options
S	Material	S = Stainless steel (SS)	
M	Surface Finish Options	M = 10 µin. Ra max V = 7 µin. Ra max X = 5 µin. 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 = 1/4 inch face seal male FV4 = 1/4 inch face seal female TW4 = 1/4 inch tube stub weld (3/8 connectors optional)  1.75 = 1.75" face to face TW4 P = Panel Mount (AP 3260 only)* IS = Indicator Switch (AP 3200 only)**  *Panel hole 0.78 inch diameter **Refer to operating manual for further switch information	