



# SERIES AP 64

## SPRINGLESS ALL WELDED CHECK VALVE

Defining the new standard of safety & ultraclean

- True Springless Design, free of springs or poppets
- SS 316L VAR secondary remelt material
- 3,500 psig rated (241 bar)
- Low cracking pressure
- Reseals with minimal back pressure
- 15, 10 or 5  $\mu\text{in.}$  Ra max electropolished finish with proper surface chemistry
- DI cleaned and baked dry
- Manufactured to meet UHP requirements

### Operating Parameters

Source pressure	vacuum to 3500 psig (241 bar)
Cracking pressure*	3 psi (0.23 bar) differential
Maximum backpressure	3500 psig (241 bar)
Proof pressure	4,000 psig (276 bar)
Burst pressure	10,000 psig (690 bar)

\*Cracking pressure is a nominal value which may vary in specific applications due to pressure, temperature and system variables such as length of time between cracking.

### Other Parameters

Inlet & outlet connectors	1/4 in. face seal or tube weld
Flow coefficient (Cv)	0.4 max
Internal volume	0.122 in. <sup>3</sup> (2cm <sup>3</sup> )
Operating temperature	-10° to +400° F (-23° to +240°C)
Surface finish	15 $\mu\text{in.}$ (0.4 $\mu\text{m}$ ) Ra max standard 10 $\mu\text{in.}$ (0.25 $\mu\text{m}$ ) and 5 $\mu\text{in.}$ (0.13 $\mu\text{m}$ ) optional
Inboard leakage	2 x 10 <sup>-10</sup> sccs
Outboard leakage	2 x 10 <sup>-10</sup> sccs at 500 psig

### Materials

Series AP 64	
Wetted Parts	
Body	316L SS secondary remelt
Finish	electropolished and passivated
Seal	Viton® (optional seal materials available)

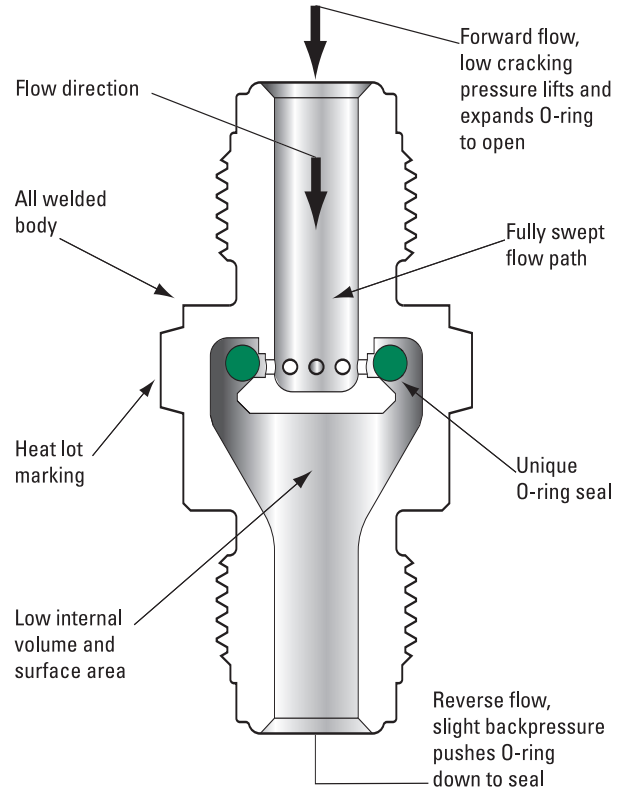
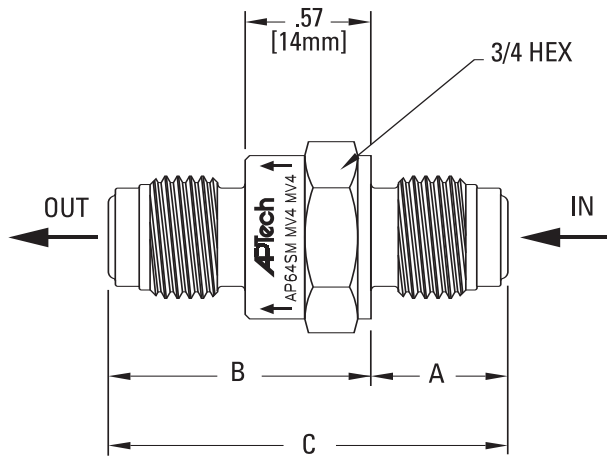
All specifications subject to change without notice.

Viton® DuPont

ENGINEERING DATA — SERIES AP 64 SPRINGLESS ALL WELDED CHECK VALVE

# ULTRACLEAN TECHNOLOGY BACKED BY SERVICE AND SUPPORT

## DIMENSIONAL INFORMATION



## DIMENSION CHART

Connectors (inlet x outlet)	A		B		C	
	in [±.02]	mm	in [±.02]	mm	in [±.02]	mm
MV4 x MV4	.62	16	1.19	30	1.81	46
MV4 x FV4	.62	16	1.50	38	2.12	54
FV4 x MV4	.93	24	1.50	38	2.43	62
FV4 x MV4	.93	24	1.19	30	2.12	54
TW4 x TW4	.34	9	.91	23	1.25	32

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

## ORDERING INFORMATION

Sample Order Number		AP 64SM MV4 MV4 NP	
<b>AP 64</b>   Series	AP 64		
<b>S</b>   Material	S = Stainless steel (SS)		
<b>M</b>   Surface Finish Options	M = 10 µin. Ra max. X = 5 µin. Ra max.		
<b>MV4 MV4</b>   Connections Inlet / Outlet	FV4 = 1/4 inch face seal female MV4 = 1/4 inch face seal male TW4 = 1/4 inch tube stub weld Optional connections available		
<b>NP</b>   Option	NP = Neoprene Seal		