



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
- Installation and operating instructions available at www.aptech-online.com in the Tech Briefs section

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. ³ (2cm ³)
Operating temperature	-10° to +400° F (-23° to +204°C)
Surface finish	15 $\mu\text{in.}$ (0.4 μm) Ra max standard 10 $\mu\text{in.}$ (0.25 μm) and 5 $\mu\text{in.}$ (0.13 μm) optional
Inboard leakage	2 x 10 ⁻¹⁰ sccs
Outboard leakage	2 x 10 ⁻¹⁰ sccs at 500 psig

Materials

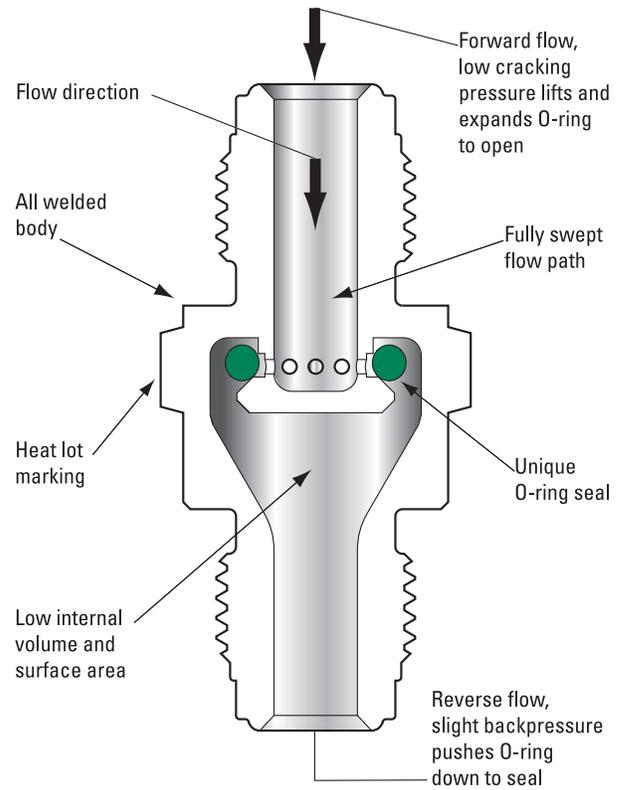
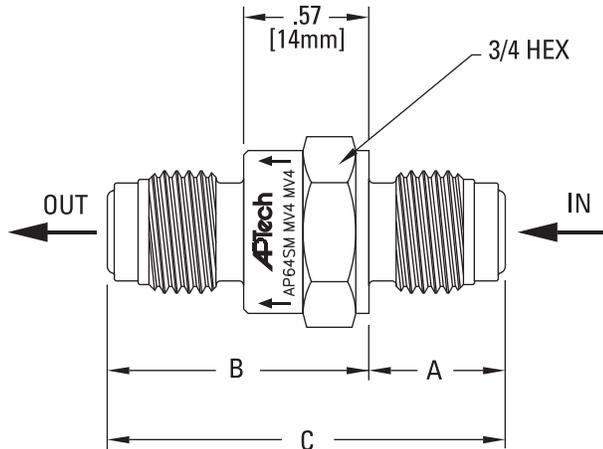
Series AP 64 S	
Wetted Parts	
Body	316L SS secondary remelt
Finish	electropolished and passivated
Seal	Viton® (neoprene optional)

All specifications subject to change without notice.

Viton® DuPont

ULTRACLEAN TECHNOLOGY BACKED BY SERVICE AND SUPPORT

DIMENSIONAL INFORMATION



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 FV4	.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.

DIMENSION CHART

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 64SM MV4 MV4 NP

AP 64 | Series

AP 64

S | Material

S = Stainless steel (SS)

M | Surface Finish Options

M = 10 µin. Ra max.
X = 5 µin. Ra max.

MV4 MV4 | 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

NP | Option

NP = Neoprene Seal*

*Nominal cracking pressure 6 psi (0.4 bar) differential