



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	150% of operating pressure
Burst pressure	300% of operating pressure

*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*	14° to +160° F (-10° to +71°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

*The operating temperature rating is based upon maximum pressure applied to outlet of device with upstream vented to atmosphere. Optional Neoprene seal is limited to a maximum temperature of 122°F (50°C). A lower operating pressure may increase the maximum temperature rating.

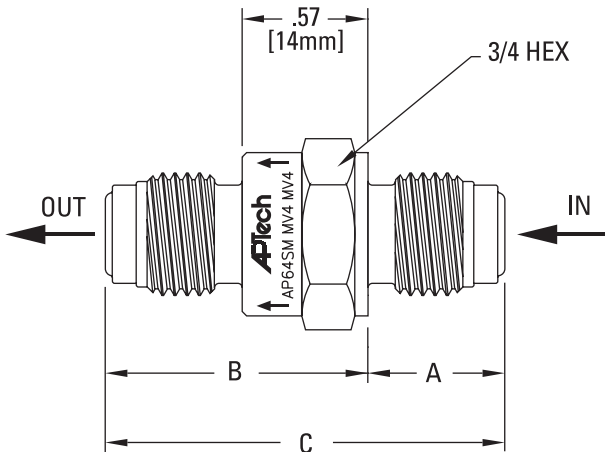
Materials

	Series AP 64 S
Wetted Parts	
Body	316L SS secondary remelt
Finish	electropolished and passivated
Seal	Fluoroelastomer / FKM (Neoprene / polychloroprene optional)

All specifications subject to change without notice.

ULTRACLEAN TECHNOLOGY BACKED BY SERVICE AND SUPPORT

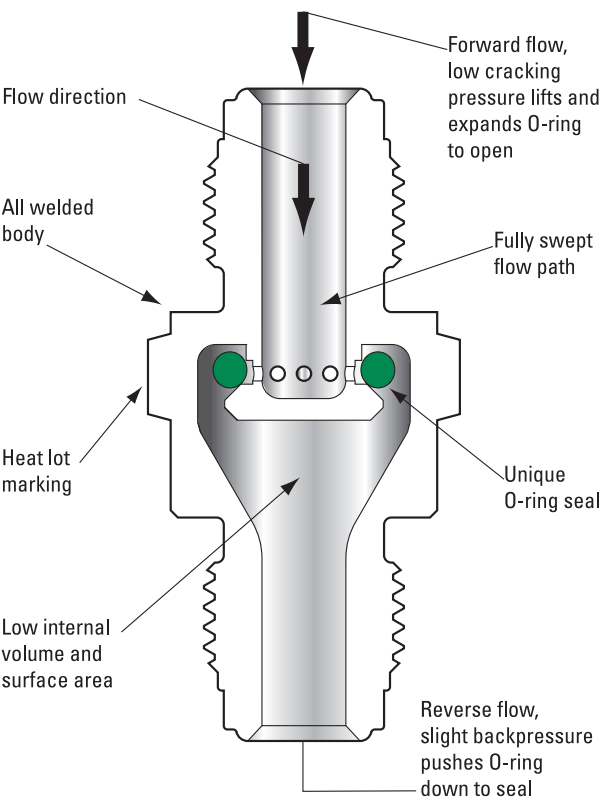
DIMENSIONAL INFORMATION



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 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

Metric dimensions are for reference only.



ORDERING INFORMATION

Sample Order Number		AP 64SM MV4 MV4 NP	
AP 64 Series	AP 64	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
S Material	S = Stainless steel (SS)	NP Option	NP = Neoprene / polychloroprene seal*
M Surface Finish Options	M = 10 µin. Ra max.		*Nominal cracking pressure 6 psi (0.4 bar) differential.

AP Tech has product options and variations which are not documented in data sheets. If you have a model number that is not defined by the ordering information, please consult the factory or your local representative.