F9 Series All Welded Check Valve

aerospace climate control electromechanical filtration fluid & gas handling hydraulics pneumatics process control sealing & shielding

Performance and Cost Savings:

Veriflo Division presents the F9 Series Check Valve, a high purity, all welded check valve, featuring a patented asymmetric spring design for a consistently quiet operation.

The F9 Series Check Valve offers high C_v (up to $C_v = 0.90$) in a small footprint to conserve much needed panel space.

Its two seal materials achieve compatibility with all semiconductor gases, reducing inventory requirements.

Parkerts

Contact Information:

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www.parker.com/veriflo





- Noise free operation with the patented asymmetric spring design.
- Reduced footprint with welded design.
- Two seal offering to meet all semi gas compatibility requirements.

VERIFLC

- Class 100 clean room assembled and packaged.
- Electro polish (EP) version for Ultra High Purity applications available.
- VeriClean[™] 316L Stainless Steel enhances electropolishing and corrosion resistance.

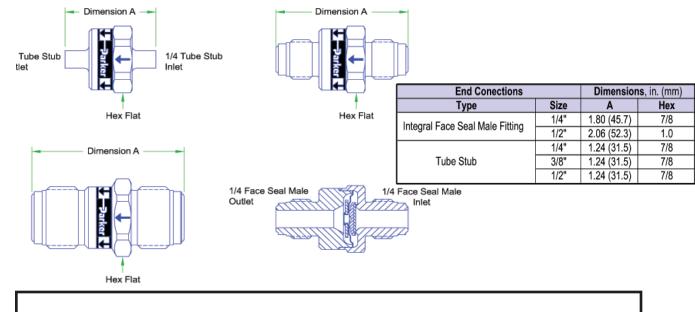
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F9 Check Valve Specifications

Materials of Construction		Functional Performance	
Body	VeriClean [™] 316L Stainless Steel,	Flow Capacity*	
Spring	Elgiloy [®] or equivalent	1/4" Tube Stub	$C_v = .45 (X_T 0.89)$
Seal	Fluorocarbon (FKM),	1/4" & 1/2" Face Seal	$C_v = .90 (X_T 0.78)$
	Perfluoroelastomer (FFKM)*	3/8" & 1/2" Tube Stub	$C_v = .90 (X_T 0.78)$
Poppet	316L Stainless Steel	* Flow curves available	e. Please contact factory.
Stop	316L Stainless Steel	Maximum Leakage:	
* Contact factory for	seat material and bonding agent MSDS ¹	External	1 x 10 ⁻⁹ scc/sec He
Operating Conditions		Across the seat	Bubble Tight
Fluorocarbon Elastomer (FKM) Pressure:		Standard Connections	
Maximum Operating	g 3000 psig (206 barg),		Tube Stub or Face Seal Male
Maximum Back	3000 psig (206 barg)	Internal Volume	
Cracking	<u><</u> 2 psig (0.13 barg)	1/4" Face Seal Male	0.14 cubic inch (2.29 cc)
Reset	<u><</u> 2 psig (0.13 barg)	Surface Finish	
Perfluoroelastomer (F	FKM) Pressure:	EP	7 Ra Electropolished (blue label)
Maximum Operating	g 1000 psig (68 barg),	Omit	10 Ra (gold label)
Maximum Back	1000 psig (68 barg)		
Cracking	≤2 psig (0.13 barg)	Approx. Weight	0.07 lbs. (1.2 oz.) - 1/4" Tube Stub
Reset	≤2 psig (0.13 barg)		0.15 lbs. (2.4 oz.) - 1/4" Face Seal
Temperature:	-10°F to 150°F (-23°C to 66°C)		

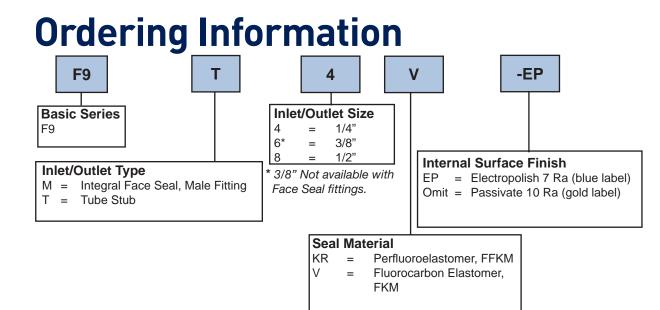
¹The user is solely responsible for selecting and assuming that the product and materials of constructions are compatible with the process fluid.

DIMENSIONAL DRAWING



Safety Guide and Installation and Operating instructions available at www.parker.com/veriflo

VeriClean[™] is a trademark of Veriflo Division of Parker Hannifin Elgiloy® is a registered trademark of Elgiloy Company



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