F9 Series

UHP Check Valve Stainless Steel, Welded



Value Proposition:

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 Cv (up to Cv = 0.90) in a small footprint to conserve much needed panel space.

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



Contact Information:

Parker Hannifin Corporation Veriflo Division 250 Canal Blvd Richmond, California 94804

phone 510 235 9590 fax 510 232 7396 veriflo.sales@parker.com

www.parker.com/veriflo Mobile App: m.parker.com/veriflo

Product Features:

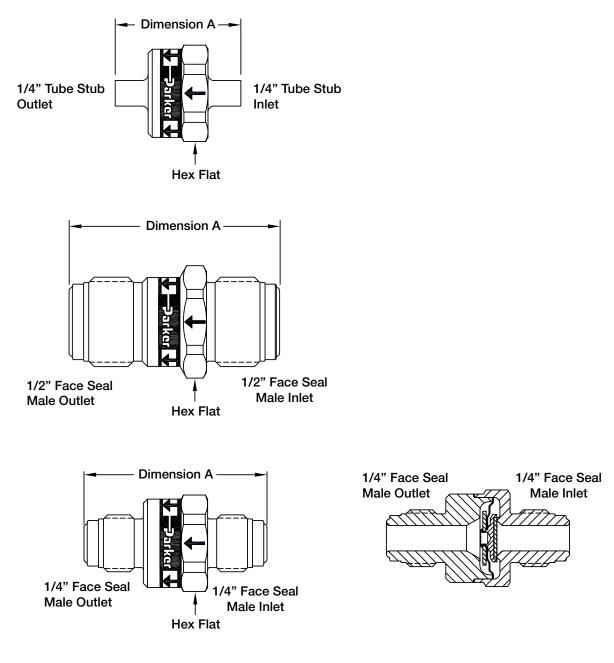
- Noise Free Operation with the

 patented asymmetric spring design
- Reduced footprint with the welded design
- Two seal offerings to meet all SEMI gas compatibility requirements
- Class 100 clean room assembled and packaged
- Electropolished (EP) version for Ultra High Purity applications available
- VeriClean[™] 316L Stainless Steel enhances electropolishing and corrosion resistance



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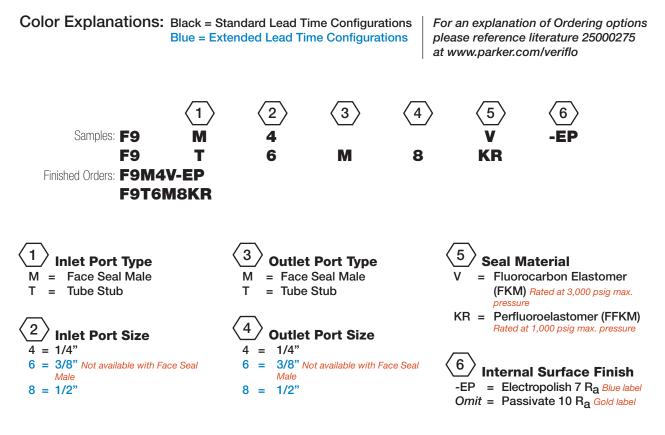
DIMENSION TABLE				
Connection Type	Size	A in. (mm)	Hex	
Male Face Seal Fitting	1/4"	1.80 (45.7)	7/8"	
	1/2"	2.06 (52.3)	1.0"	
	1/4"	1.24 (31.5)	7/8"	
Tube Stub	3/8"	1.24 (31.5)	7/8"	
	1/2"	1.24 (31.5)	7/8"	

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

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Ordering Information

Build an F9 Series Check Valve by replacing the numbered symbols with an option from the corresponding tables below. If choosing the same Inlet and Outlet Port Type and Size, only call out the designation one time as per example below.



Additional configurations available upon request

F9 Series Specifications

Materials of Construction		
Wetted		
Body	VeriClean [™] 316L Stainless Steel	
Spring	Elgiloy® or equivalent	
Seal Options The user is solely responsible for selecting and insuring that the product and materials of constructions are compatible with the process fluid.	Fluorocarbon Elastomer (FKM) or Perfluoroelastomer (FFKM) Contact factory for seat material and bonding agent MSDS.	
Poppet	316L Stainless Steel	
Stop	316L Stainless Steel	

Operating Conditions

Based Upon Seal Options:	Fluorocarbon Elastomer (FKM)	Perfluoroelastomer (FFKM)
Maximum Pressure	3,000 psig (206 barg)	1,000 psig (68 barg)
Maximum Back Pressure	3,000 psig (206 barg)	1,000 psig (68 barg)
Cracking	\leq 2 psig (0.13 barg)	\leq 2 psig (0.13 barg)
Reset	\leq 2 psig (0.13 barg)	\leq 2 psig (0.13 barg)
Temperature	-10°F to 150°F (-23°C to 66°C)	

For additional information on materials of construction, functional performance and operating conditions, please contact factory.

Functional Performance

Flow Capacity	Flow curves available. Please consult factory.	
1/4" Tube Stub	С _V 0.45 (Х _т 0.89)	
1/4" & 1/2" Face Seal	C _V 0.90 (X _T 0.78)	
3/8" & 1/2" Tube Stub	C _V 0.90 (X _T 0.78)	
Leak Rate		
Internal	Bubble Tight	
External	< 1 x 10 ⁻⁹ scc/sec He	
	Inboard Test Method	
Surface Finish		
Omit	10 Ra Passivate (std) (gold label)	
EP	7 Ra Electropolished (blue label)	
Internal Volume		
1/4" Face Seal Male	0.14 cubic inch (2.29 cc)	
Approx. Weight		
1/4" Face Seal Male	0.15 lbs. (2.4 oz)	
1/4" Tube Stub	0.07 lbs. (1.2 oz)	

Elgiloy® is a registered trademark of Elgiloy Company Vericlean™ is a trademark of Parker Hannifin Corporation

OFFER OF SALE:

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Proposition 65 Warning: This product contains chemicals known to the state of California to cause cancer or birth defects or other reproductive harm.

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