

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:

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Product Features:

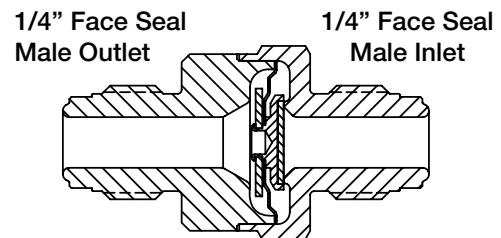
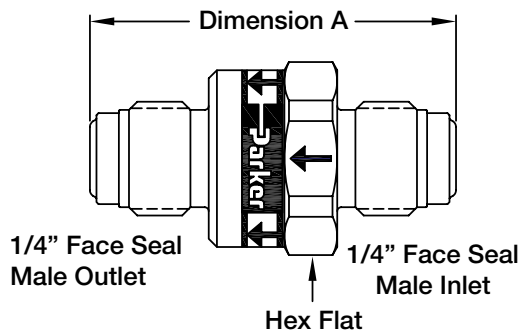
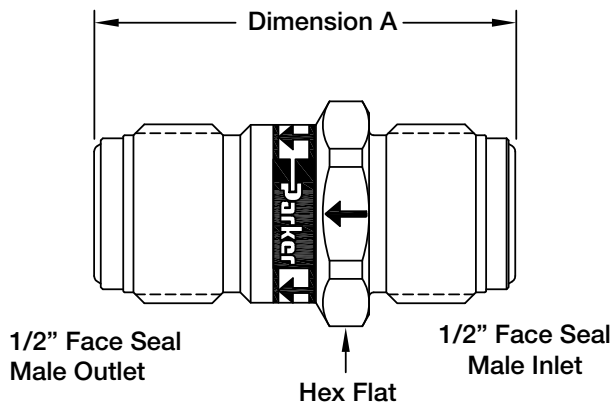
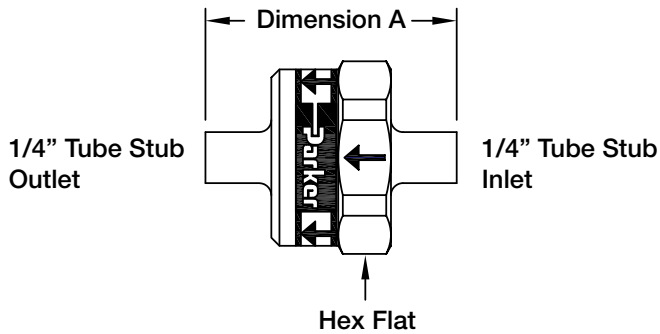
- Noise Free Operation with the patented asymmetric spring design
- Reduced footprint with the welded design
- Two seal offerings to meet all SEMI gas compatibility requirements
- Class 100 clean room assembled and packaged
- Electropolished (EP) version for Ultra High Purity applications available
-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



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Dimensional Drawing



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"
Tube Stub	1/4"	1.24 (31.5)	7/8"
	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.


Contact factory for most up to date lead time information.

Blue = Configurations that have selections in blue will require a quote from the factory.

Samples: **F9**  **M8**  **V**  **-EP**
Finished Orders: **F9M8V-EP**

 **Inlet/Outlet Port Type**
M4 = 1/4" Face Seal Male
M8 = 1/2" Face Seal Male
T4 = 1/4" Tube Stub
T6 = 3/8" Tube Stub

 **Seal Material**
V = Fluorocarbon Elastomer (FKM) Rated at 3,000 psig max. pressure
KR = Perfluoroelastomer (FFKM) Rated at 1,000 psig max. pressure

 **Internal Surface Finish**
-EP = Electropolish 7 R_a Blue label
Omit = Passivate 10 R_a Gold label
Additional configurations available upon request

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Specifications

Materials of Construction		
Wetted		
Body	VeriClean™ 316L Stainless Steel	
Spring	Elgiloy® or equivalent	
Seal Options	Fluorocarbon Elastomer (FKM) or Perfluoroelastomer (FFKM) <small>The user is solely responsible for selecting and insuring that the product and materials of constructions are compatible with the process fluid.</small>	
	<small>Contact factory for seat material and bonding agent MSDS.</small>	
Poppet	316L Stainless Steel	
Stop	316L Stainless Steel	
Operating Conditions		
<i>Based Upon Seal Options:</i>	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	≤ 2 psig (0.13 barg)	≤ 2 psig (0.13 barg)
Reset	≤ 2 psig (0.13 barg)	≤ 2 psig (0.13 barg)
Temperature	-10°F to 150°F (-23°C to 66°C)	

Functional Performance	
Flow Capacity	<i>Flow curves available. Please consult factory.</i>
1/4" Tube Stub	C _V 0.45 (X _T 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

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

OFFER OF SALE:

The items described in this document are hereby offered for sale by Parker-Hannifin Corporation, its subsidiaries or its authorized distributors. This offer and its acceptance are governed by the provisions stated in the detailed "Offer of Sale" elsewhere in this document or available at www.parker.com/veriflo



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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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LitPN: 25000204

Rev: H

Date of Issue 03/2017



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