Rometec srl - www.rometec.it - Rometec srl - www.rometec.it - Rometec srl - www.rometec.it

# 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.

## 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

## Product Features:

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

Parker

VERIFLO

ENGINEERING YOUR SUCCESS.

Rometec srl - www.rometec.it - Rometec srl - www.rometec.it - Rometec srl - www.rometec.it

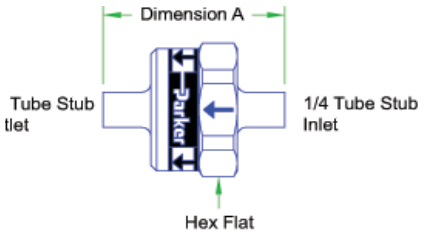
Rometec srl - www.rometec.it - Rometec srl - www.rometec.it - Rometec srl - www.rometec.it

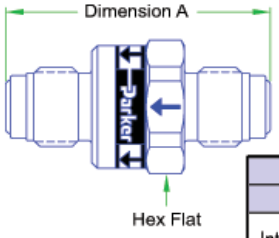
# F9 Check Valve Specifications

| **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. 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 | 3000 psig (206 barg), | | Tube Stub or Face Seal Male |
| Maximum Back | 3000 psig (206 barg) | ***Internal Volume*** | |
| Cracking | ≤2 psig (0.13 barg) | 1/4" Face Seal Male | 0.14 cubic inch (2.29 cc) |
| Reset | ≤2 psig (0.13 barg) | ***Surface Finish*** | |
| Perfluoroelastomer (FFKM) Pressure: | | EP | 7 Ra Electropolished (blue label) |
| Maximum Operating | 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) | | |

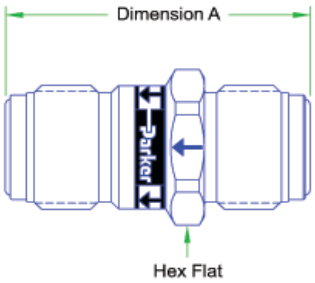
[1]The user is solely responsible for selecting and assuming that the product and materials of constructions are compatible with the process fluid.

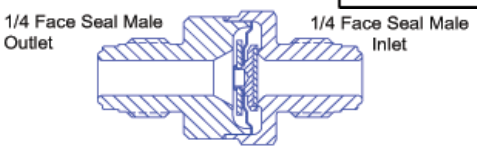
## DIMENSIONAL DRAWING




| End Conections | | Dimensions, in. (mm) | |
|---|---|---|---|
| **Type** | **Size** | **A** | **Hex** |
| Integral Face Seal Male 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 |



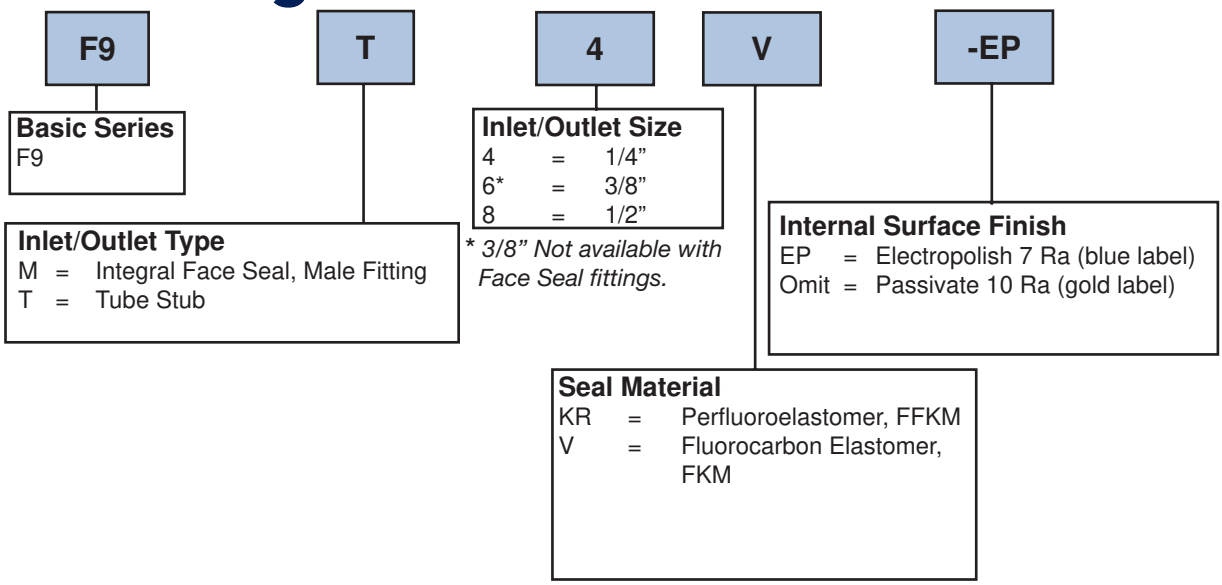

**Safety Guide and Installation and Operating instructions available at**
**www.parker.com/veriflo**

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

Rometec srl - www.rometec.it - Rometec srl - www.rometec.it - Rometec srl - www.rometec.it

Rometec srl - www.rometec.it - Rometec srl - www.rometec.it - Rometec srl - www.rometec.it

# Ordering Information




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

WARNING USER RESPONSIBILITY

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

This document and other information from Parker-Hannifin Corporation, its subsidiaries and authorized distributors provide product or system options for further investigation by users having technical expertise.

The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application, follow applicable industry standards, and follow the information concerning the product in the current product catalog and in any other materials provided from Parker or its subsidiaries or authorized distributors.

To the extent that Parker or its subsidiaries or authorized distributors provide component or system options based upon data or specifications provided by the user, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the components or systems.

Rometec srl - www.rometec.it - Rometec srl - www.rometec.it - Rometec srl - www.rometec.it

Rometec srl - www.rometec.it - Rometec srl - www.rometec.it - Rometec srl - www.rometec.it

© 2007 Parker Hannifin Corporation
LitPN: 25000204 Date of Issue 03/2008

Parker

VERIFLO

ENGINEERING YOUR SUCCESS.

Rometec srl - www.rometec.it - Rometec srl - www.rometec.it - Rometec srl - www.rometec.it