UHP Stainless Steel Diaphragm Valve High Pressure, High Flow

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

Value Proposition:

The 17R Series valve provides a high flow and positive shut off for high purity fluid systems.

This 1/2" spring type diaphragm valve offers superior leak integrity for manually and pneumatically actuated versions with pressure ranges from vacuum to 3,000 psig.



Contact Information:

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

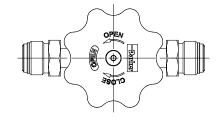
Product Features:

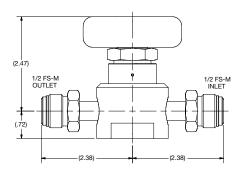
- Standard surface finish of 10 micro inch Ra
- Fully functional from vacuum to 3000 psig for both Manual and Pneumatic styles
- Multi-diaphragm for superior cycle life
- Serialized and heat code traceable
- 100% Helium leak tested
- Vericlean[™], Veriflo's low sulfur high purity 316L Stainless Steel enhances electropolishing, welding, and corrosion resistance



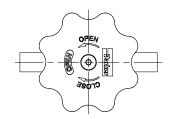
Dimensional Drawing

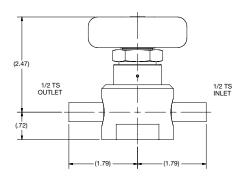
17RI SERIES VACUSEAL™



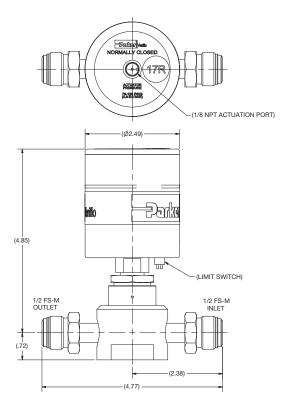


17RI SERIES TUBE STUB

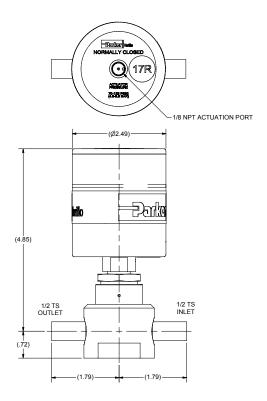




17R AOPNC SERIES VACUSEAL™



17R AOPNC SERIES TUBE STUB



Ordering Information

Build a 17R Series valve by replacing the numbered symbols with an option from the corresponding tables below.

Color Explanations: Black = Standard Lead Time Configurations

Blue = Extended Lead Time Configurations

For an explanation of Ordering options please reference literature 25000275 at www.parker.com/veriflo











Sample:

Finished Order: 17RAOPNCSFS8MM

Basic Series

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AOPNC Air Operated, Normally Closed Air Connection is 1/8" NPT

= Indicating Hand wheel

Body Material

316L Stainless Steel

Inlet/Outlet Connection

FS8MM = 1/2" Face Seal FS8FF = 1/2" Face Seal 3/8" Tube Stub TS6

End-to-End length: 2.74" TS8 = 1/2" Tube Stub FS12MM = 3/4" Face Seal End-to-End length: 5.79"

FS12FF = 3/4" Face Seal

End-to-End length: 5.79"

Optional Features This section can have multiple options

LSC = Limit Switch Closed Available with AOPNC option only

LSO = Limit Switch Open Available with AOPNC option only

= Polyimide Seat 3.25 = 1/2" Fixed Male Face Seal Inlet/Outlet

Additional configurations available upon request

Specifications

-1	
Materials of Construction	
Wetted	
Body	VeriClean™ 316L Stainless Steel (Electropolished)
Diaphragm	Elgiloy [®] or equivalent
Seat Options	PCTFE (std) or Polyimide
Lower Stem	VeriClean™ 316L Stainless Steel (Passivated)
Spring	316 Stainless Steel (Electropolished)
Non-wetted	
Pneumatic	
Actuator Housing	Aluminum
Piston	303 Stainless Steel
Bonnet	17-4 Stainless Steel
Support Diaphragm	Sliver plated Beryllium Copper/ Elgiloy® or equivalent
Manual	
Hand Wheel	Aluminum
Bonnet	17-4 Stainless Steel
Upper Stem	Aluminum Silicon Bronze
Screw	18-8 Stainless Steel
Support Diaphragm	Sliver plated Beryllium Copper/ Elgiloy® or equivalent
Sleeve	Nylon
Limit Switch (Optional)	
Туре	Single Pole, Single Throw (SPST) momentary action, non-adjustable
	26 AWG wire, 7", w/o connector
Rating	
AOPNCLSC	1/4 amp at 115 vac (normally closed)
AOPNCLSO	1/2 amp at 115 vac (normally open)

Functional Performance	
Flow Capacity	
Manual	C _V 0.8
Pneumatic	C _V 0.75
Leak Rate	
Design Internal	< 4 X 10 ⁻⁹ scc/sec He Inboard Test Method
Design External	< 1 X 10 ⁻⁹ scc/sec He Inboard Test Method
Production Leak Test	Outboard sniffer probe at 2000-2500 psig, 20-25% Helium
Surface Finish	10 micro inch Ra
Internal Volume	11.77 cc
Approx. Weight	
Manual	1.85 lbs. (0.84 kgs)
Pneumatic	3.35 lbs. (1.52 kgs)
Operating Conditions	
Operating Pressure	
Manual, Pneumatic	\/\/\/\/\/\/\/
Iviai iuai, Fi leui i alic	Vacuum to 3,000 psig (206.8 barg)
Actuator	70 psig (4.8 barg) minimum to 125 psig (8.6 barg) maximum
,	70 psig (4.8 barg) minimum to
Actuator Max Differential Back	70 psig (4.8 barg) minimum to 125 psig (8.6 barg) maximum
Actuator Max Differential Back Pressure	70 psig (4.8 barg) minimum to 125 psig (8.6 barg) maximum

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

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