855 High Purity, High Flow Diaphragm Valve

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

# Customer Value Proposition:

Parker Hannifin Corporation's Veriflo Division presents the 855 valve for use in solar and semiconductor applications. The high flow 855 has many of the 955 Series valve features, including high flow in a compact device, but at a lower price point.

The 855's maximum operating pressure is 250 psig for both the manual and air actuated versions.



#### **Contact Information:**

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#### **Product Features:**

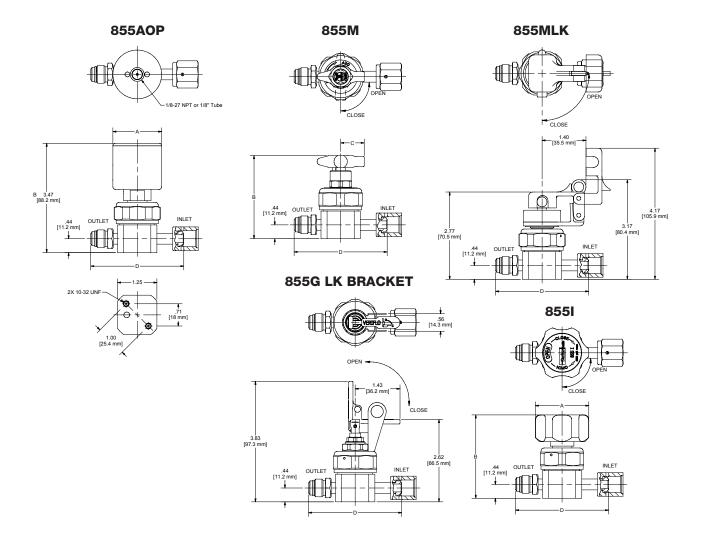
- Standard surface finish of 10 micro inch Ra with flash EP.
- Internally threadless and springless.
- Fully functional from vacuum to 250 psig.
- Maintains key dimensions of Veriflo's 955 valve.

- 100% Helium leak tested.
- Minimal particle generation and particle entrapment areas.
- Vericlean<sup>™</sup>, Veriflo's low sulfur high purity 316L Stainless Steel enhances electropolishing, welding, and corrosion resistance.



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### **Dimensional Drawing**



Actuator Style	Actuator Diameter (A)	Height (B)	Lever Radius (C)
AOPLPNC	1.55	3.47	-
AOPLPNO	1.29	3.08	-
G	-	*	-
1	1.70	2.62	-
L	-	2.64	1.75
M	-	2.64	.75
S	2.00	2.88	-

Port Style	End-To-End Length (D)
FS	2.96
FS8	4.20
TS	1.76
TS6	2.24
TS8	2.24

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

<sup>\*</sup> See dimensional drawing

#### Ordering Information

Build an 800 Series - 855 valve by replacing the numbered symbols with an option from the corresponding tables below.

Sample: 8 55 AOPLPNC S FS FM VES
Finished Order: 855AOPLPNCSFSFMVESP

1 Basic Series
55 = 855

2 Type

AOPLPNC = Air Operated, Low Pressure, Normally

Closed

AOPLPNO = Air Operated, Low

Pressure, Normally Open

I = Indicating Handwheel

L = Lever
M = Mini Lever
S = Spin Handwheel

 $\stackrel{4}{\longrightarrow}$  Port Style

FS = 1/4" Face Seal FS8 = 1/2" Face Seal TS = 1/4" Tube Stub TS6 = 3/8" Tube Stub TS8 = 1/2" Tube Stub

Note: For 3 port: See 4504 Valve Selection Guide for A, B, C, F, G & M configuration selections.

= Female Face Seal

Port Configuration

M = Male Face Seal

 $\stackrel{\textstyle \langle 6 \rangle}{}$  Optional Features

This section can have multiple options

LK = LockOut-TagOut LK includes LockOut-TagOut bracket for G-Type Valve; LOTO Clamp for M type Valve

LSC = Limit Switch Closed

Available with AOPLPNC option
only

LSO = Limit Switch Open

Available with AOPLPNC option

only

PM = Panel Mount Not available

PEEK = PEEK™ Seat VESP = Vespel™ Seat

Recommended for Nitrous Oxide (N2O) Service

3 Body Material

S = Vericlean<sup>™</sup> 316L Stainless Steel

### Specifications

Materials of Construction			
Wetted			
Body	VeriClean™ 316L Stainless Steel		
Diaphragm	Elgiloy® or equivalent		
Seat Options	PCTFE (std), Vespel®, PEEK™		
Non-wetted			
Сар	17-4 PH		
Nut	316L Stainless Steel		
Actuator Housing	Anodized Aluminum		
<b>Functional Performance</b>			
Flow Capacity	C <sub>V</sub> 0.55		
Design			
Leak Rate	Inboard Test Method		
External	$\leq$ 2 X 10 <sup>-10</sup> scc/sec He		
Internal	≤ 1 X 10 <sup>-9</sup> scc/sec He		
Proof Pressure	375 psig (26 barg)		
Burst Pressure	750 psig (52 barg)		

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

Standard Configuration				
Surface Finish	10 micro inch Ra with flash EP			
Internal Volume	3.29 cc			
Approx. Weight	0.81 lbs. (0.36 kg)			
Operating Conditions (Operating limits based upon pressure applied at inlet port.)				
Maximum Pressure	250 psig (17.22 barg)			
Minimum Pressure	Vacuum			
Temperature	-40°F to 150°F (-40°C to 66°C)			
AOP Actuation Pressure	75 psig (5 barg) nominal			
AOP Air Inlet	1/8-27 NPT			
Limit Switch (Optional)				
Туре	Single Pole, Single Throw (SPST) momentary action, non-adjustable			
Rating				
AOPLPLSC	1/4 amp at 115 vac (normally closed)			
AOPLPLSO	1/2 amp at 115 vac (normally open			

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