

855 Series

UHP Stainless Steel Diaphragm Valve
High Flow, Welded

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

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:

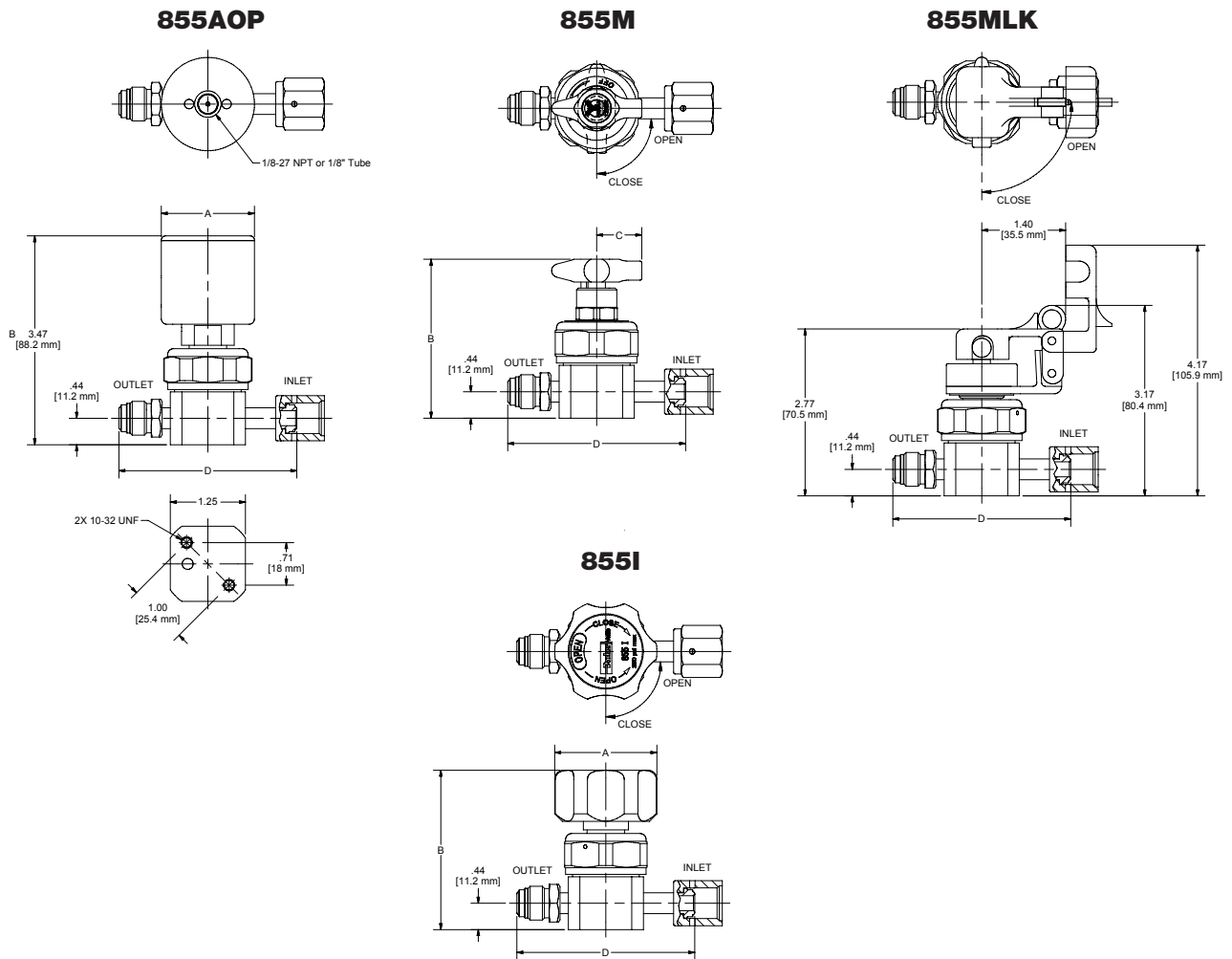
- Standard surface finish of 10 micro inch Ra with flash EP
- Internally threadless and springless
- Fully functional from vacuum to 250 psig
- Maintains key dimensions of Veriflo's 955 valve
- 100% Helium leak tested
- Minimal particle generation and particle entrapment areas
- Vericlean™, Veriflo's 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	-
I	1.70	2.64	-
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

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Ordering Information

Build an 855 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: **8** **55** **AOPLPNC** **S** **FS** **FM** **VESP**
Finished Order: **855AOPLPNCFSFMVESP**

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

3 **Body Material**
S = Vericlean™ 316L Stainless Steel

4 **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 *Standard only when configured as TS8TS8*

Note: For Multiport: See 25000178 Valve Selection Guide. All Multiport configurations are Special Order.

5 **Port Configuration**
M = Male Face Seal
F = Female Face Seal

6 **Optional Features**
This section can have multiple options
LK = LockOut-TagOut LK *includes 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 on I and AOP versions*
PEEK = PEEK™ Seat
VESP = Vespel™ Seat *Recommended for Nitrous Oxide (N2O) Service*

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Specifications

Materials of Construction	
Wetted	
Body	VeriClean™ 316L Stainless Steel
Diaphragm	Elgiloy® or equivalent
Seat Options	PCTFE (std), Vespel® or PEEK™
Non-wetted	
Cap	17-4 PH
Nut	316L Stainless Steel
Actuator Housing	Anodized Aluminum
Operating Conditions	
<i>(Operating limits based upon pressure applied at inlet port.)</i>	
Maximum Pressure	
AOPLPNO	125 psig (8.62 barg)
AOPLPNC, I, L, M, S	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

Functional Performance	
Design	
Proof Pressure	375 psig (26 barg)
Burst Pressure	750 psig (52 barg)
Flow Capacity	C _v 0.55
Leak Rate	
Inboard Test Method	
Internal	≤ 1 X 10 ⁻⁹ scc/sec He
External	≤ 2 X 10 ⁻¹⁰ scc/sec He
Surface Finish	10 micro inch Ra with flash EP
Internal Volume	3.29 cc
Approx. Weight	0.81 lbs. (0.36 kg)
Limit Switch (Optional)	
Type	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)

Vespel® is a registered trademark of DuPont Performance Elastomers L.L.C.
Elgiloy® is a registered trademark of Elgiloy Company
VeriClean™ is a trademark of Parker Hannifin Corporation
PEEK™ is a trademark of Victrex plc.

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

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