800 Series

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:

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:

- 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.

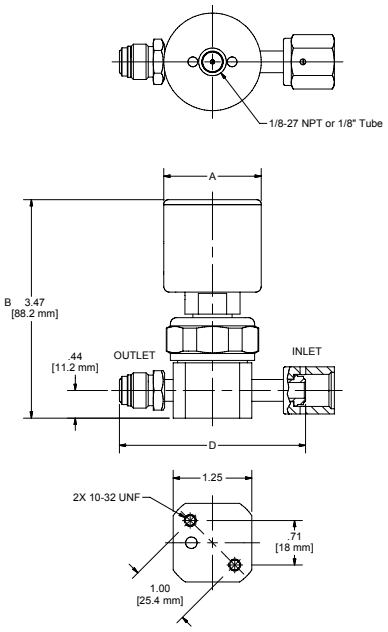
Parker | Veriflo

ENGINEERING YOUR SUCCESS.

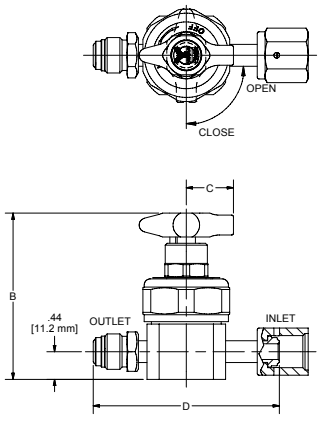
855 Series

Dimensional Drawing

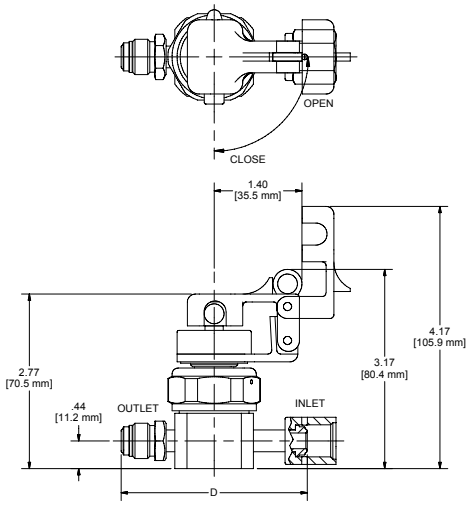
855AOP



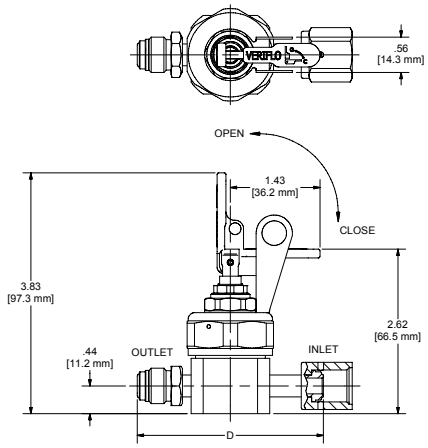
855M



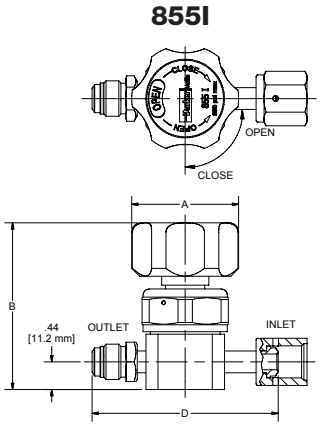
855MLK



855G LK BRACKET



855I



Actuator Style	Actuator Diameter (A)	Height (B)	Lever Radius (C)
AOPLPNC	1.55	3.47	-
AOPLPNO	1.29	3.08	-
G	-	*	-
I	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

** See dimensional drawing*

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

855 Series

Ordering Information

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

	1	2	3	4	5	6
Sample:	**8**	**55**	**AOPLPNC**	**S**	**FS**	**FM**	**VESP**

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

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

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

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 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 on I and AOP versions*
PEEK	=	PEEK™ Seat
VESP	=	Vespel™ Seat *Recommended for Nitrous Oxide (N2O) Service*

855 Series

Specifications

Materials of Construction	
Wetted	
Body	VeriClean™ 316L Stainless Steel
Diaphragm	Elgiloy® or equivalent
Seat Options	PCTFE (std), Vespel®, PEEK™
Non-wetted	
Cap	17-4 PH
Nut	316L Stainless Steel
Actuator Housing	Anodized Aluminum
Functional Performance	
Flow Capacity	C_V 0.55
Design	
Leak Rate	Inboard Test Method
External	≤ 2 X 10^{-10} scc/sec He
Internal	≤ 1 X 10^{-9} 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)	
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.

LitPN: 25000238 Date of Issue 11/2010

Parker Veriflo

ENGINEERING YOUR SUCCESS.