

SM955 Series

UHP Surface Mount Diaphragm Valve
1-1/2" Stainless Steel, High Flow

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

Value Proposition:

Parker Hannifin Corporation's Veriflo Division presents the Surface Mount 955 Air Operated and Manual Diaphragm Valve. The SM955 provides exceptional performance for today's modular surface mount systems that have high flow requirements.



Contact Information:

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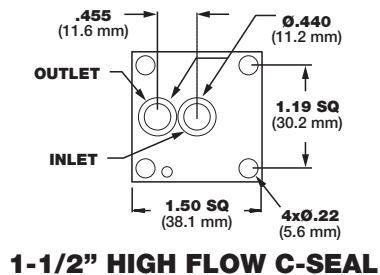
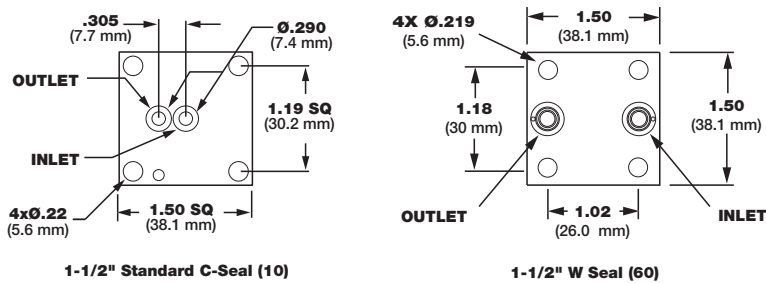
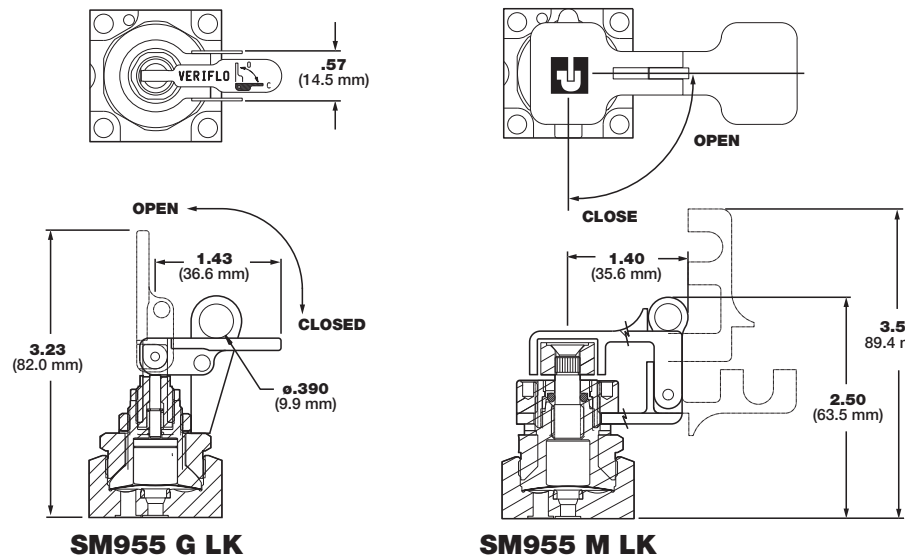
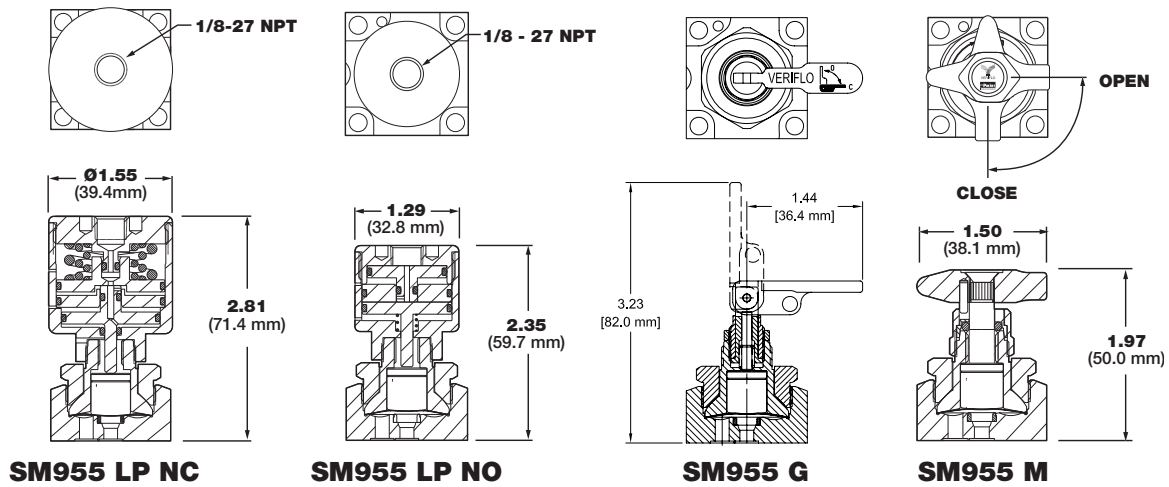
Product Features:

- "VeriClean", Veriflo's custom low sulfur high purity 316L Stainless Steel™ enhances electropolishing, welding and corrosion resistance
- Standard Seal: 0.30 Cv for AOP style, 0.25 Cv for 1/4 turn manual style. High Flow Seal: 0.50 Cv for AOP style, 0.35 Cv for 1/4 turn style valves
- Internally threadless and springless
- 100% Helium leak tested
- Standard full internal electroplish
- Fully functional for pressure ranges from vacuum to 125 psig for Air Operated valves and 250 psig for manual valves
- Change from air operated actuator to lever or visa versa without intruding into wetted area

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SM955 Series

Dimensional Drawings







SM955 Series


Ordering Information

Build an SM955 Series valve by replacing the numbered symbols with an option from the corresponding tables below.








Contact factory for most up to date lead time information.

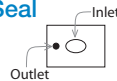
Blue = Configurations that have selections in blue may have an extended lead time and a minimum order quantity.


Sample: **SM955**  **M**  **S**  **10**  **VESP**
Finished Order: **SM955MS10VESP**

-  **Type**
G = Toggle
M = Mini-Lever
LPNC = Air Operated Normally Closed
LPNO = Air Operated Normally Open
Consult Factory for additional Handle Colors

-  **Body Material**
S = 316L Stainless Steel

-  **Porting**
10 =  = 2 Port, Standard C-Seal
11 =  = 2 Port, High Flow C-Seal
20 =  = 3 Port, Standard C-Seal
21 =  = 3 Port, High Flow C-Seal
30 =  = 3 Port, Standard C-Seal
60 =  = "W" Seal



-  **Optional Features**
This section can have multiple options
LK = LockOut-TagOut LK
includes LockOut-TagOut bracket for G-Type Valve; LOTO Clamp or Lever for M type Valve
VESP = Vespel® Seat *Recommended for Nitrous Oxide (N2O) Service*
PEEK = PEEK™ Seat

SM955 Series

Specifications

Materials of Construction	
Wetted	
Body	VeriClean™ 316L Stainless Steel
Diaphragm	Elgiloy® or equivalent
Seat Options	PCTFE (std), PEEK™ or Vespel®
Non-wetted	
Cap	17-4 Stainless Steel
Nut	17-4 Stainless Steel
Operating Conditions	
Maximum Pressure	
AOP	125 psig (8.6 barg)
Manual	250 psig (17 barg)
Minimum Pressure	
Vacuum	
AOP Actuation Pressure	75 psig (5 barg) nominal
Temperature	-40°F to 150°F (-40°C to 66°C)
Bake Out	250°F (121°C) in the open position

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

Functional Performance	
Design	
Burst Pressure	
AOP	375 psig (26 barg)
Manual	750 psig (52 barg)
Proof Pressure	
AOP	188 psig (13 barg)
Manual	375 psig (26 barg)
Flow Capacity	
Standard	
AOP	C _V 0.30
Manual	C _V 0.25
High Flow	
AOP	C _V 0.50
Manual	C _V 0.35
Leak Rate	
Inboard Test Method	
Internal	< 4 x 10 ⁻⁹ scc/sec He
External	< 2 x 10 ⁻¹⁰ scc/sec He
Surface Finish	
5 micro inch Ra or less	
Internal Volume	
0.70 cc	
Approx. Weight	
0.70 lbs. (0.32 kg)	

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.

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Proposition 65 Warning: This product contains chemicals known to the state of California to cause cancer or birth defects or other reproductive harm.

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