DELTA-Fluid
Industrietechnik GmbH

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:

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
Mobile App: m.parker.com/veriflo

Product Features:

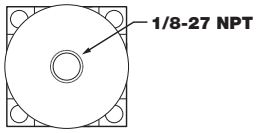
- "VeriClean", Veriflo's custom low sulfur high purity 316L Stainless Steel™ enhances electropolishing, welding and corrosion resistance
- Standard Seal: 0.30 Cv for AOP style, 0.25 Cv for 1/4 turn manual style. High Flow Seal: 0.50 Cv for AOP style, 0.35 Cv for 1/4 turn style valves
- Internally threadless and springless
- 100% Helium leak tested
- Standard full internal electroplish
- Fully functional for pressure ranges from vacuum to125 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

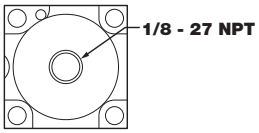
Parker | Veriflo

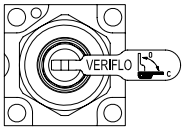
ENGINEERING YOUR SUCCESS.

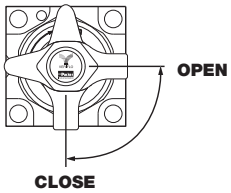
SM955 Series

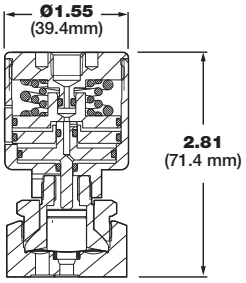
Dimensional Drawings



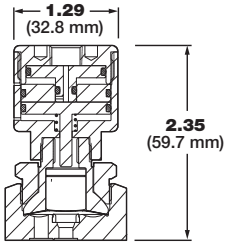




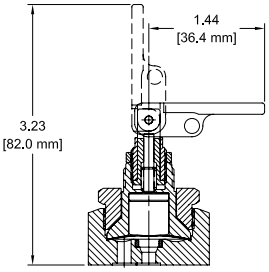




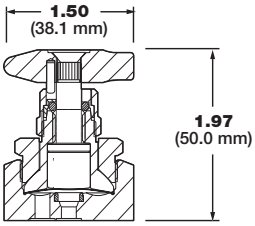
SM955 LP NC



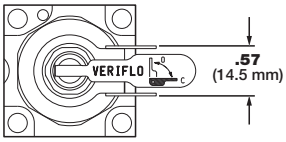
SM955 LP NO

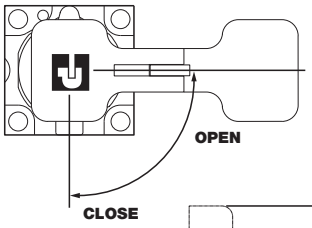


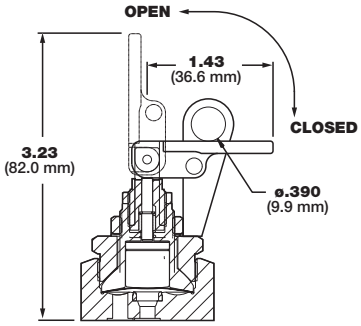
SM955 G



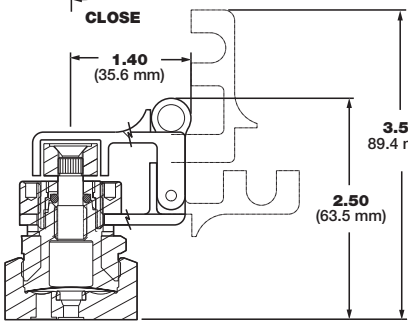
SM955 M



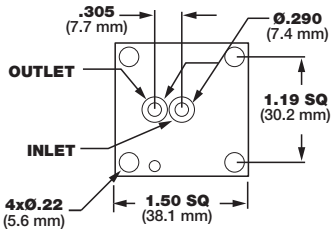




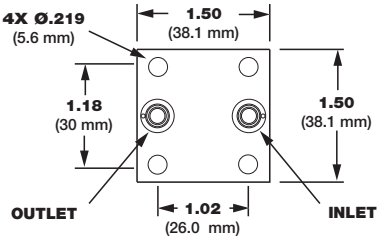
SM955 G LK



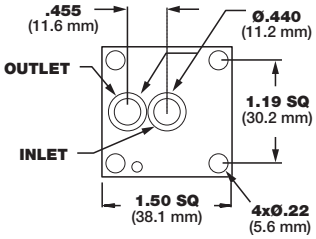
SM955 M LK



1-1/2" Standard C-Seal (10)



1-1/2" W Seal (60)



1-1/2" HIGH FLOW C-SEAL

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

SM955 Series

Ordering Information

Build an SM955 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

		1	2	3	4
Sample:	**SM955**	**M**	**S**	**10**	**VESP**
Finished Order:	**SM955MS10VESP**				

1 Type

G = Toggle
M = Mini-Lever
LPNC = Air Operated Normally Closed
LPNO = Air Operated Normally Open

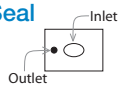
Consult Factory for additional Handle Colors

2 Body Material

S = 316L Stainless Steel

3 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



4 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 (17barg)
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	$< 4 \times 10^{-9}$ scc/sec He
External	$< 2 \times 10^{-10}$ 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.

OFFER OF SALE:

The items described in this document are hereby offered for sale by Parker-Hannifin Corporation, its subsidiaries or its authorized distributors. This offer and its acceptance are governed by the provisions stated in the detailed "Offer of Sale" elsewhere in this document or available at www.parker.com/veriflo

WARNING USER RESPONSIBILITY

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE. THIS DOCUMENT IS FOR REFERENCE ONLY. PLEASE CONSULT FACTORY FOR LATEST PRODUCT DRAWINGS AND SPECIFICATIONS

This document and other information from Parker-Hannifin Corporation, its subsidiaries and authorized distributors provide product or system options for further investigation by users having technical expertise.

The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application, follow applicable industry standards, and follow the information concerning the product in the current product catalog and in any other materials provided from Parker or its subsidiaries or authorized distributors.

To the extent that Parker or its subsidiaries or authorized distributors provide component or system options based upon data or specifications provided by the user, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the components or systems.

The products described herein, including without limitation, product features, specifications, designs, availability and pricing are subject to change by Parker Hannifin Corp and it's subsidiaries at any time without notice.

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

© 2009 Parker Hannifin Corporation

Use mobile device to scan this QR Code.

LitPN: 25000145 Rev: C Date of Issue 04/2013

Parker Veriflo

ENGINEERING YOUR SUCCESS.