945 Series

UHP Stainless Steel Diaphragm Valve High Pressure, Welded

Value Proposition:

Parker Hannifin Corporation's Veriflo Division presents the 945 Valve. This was designed specifically for semiconductor process control and has all of the features and benefits of the 944 Series with reduced internal volume and body size.

A unique feature of the 945 is the machined on tube stubs, which allows for improved dimensional control.



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:

- Standard surface finish of 5 micro inch Ra
- Internally threadless and springless
- Unique compression member which loads the seal uniformly without the need for threaded components or crimping operations
- Standard full internal electroplish

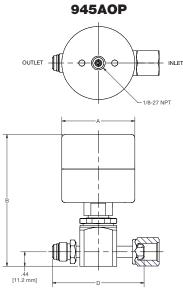
- 100% Helium leak tested
- Fully functional from vacuum to 3500 psig
- Minimal particle generation and particle entrapment areas
- Vericlean[™], Veriflo's low sulfur high purity 316L Stainless Steel enhances electropolishing, welding, and corrosion resistance

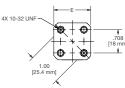
ENGINEERING YOUR SUCCESS.

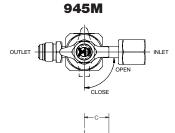
aerospace climate control electromechanical filtration fluid & gas handling hydraulics pneumatics process control sealing & shielding

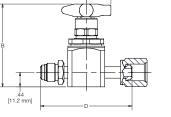
945 Series

Dimensional Drawings

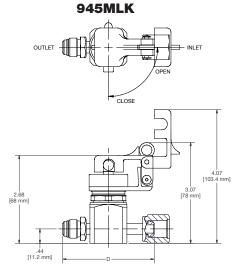








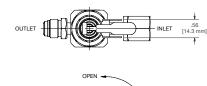
3. [96]



945I

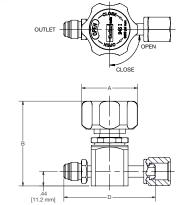
INLET

945G LK BRACKET



.43

CLOSE



Actuator Style	Actuator Diameter (A)	Height (B)	Lever Radius (C)	Port Style	End-To-End Length (D)	Square Body Size (E)
AOPHPNC	2.22	4.01	-	FS	2.78	1.125
G	-	*	-	FS8	4.14	1.250
1	1.70	2.58	-	TS	1.75	1.125
L	-	2.56	1.75	TS6	2.24	1.125
Μ	-	2.56	.75	TS8	2.24	1.250
S	2.00	2.83	-			

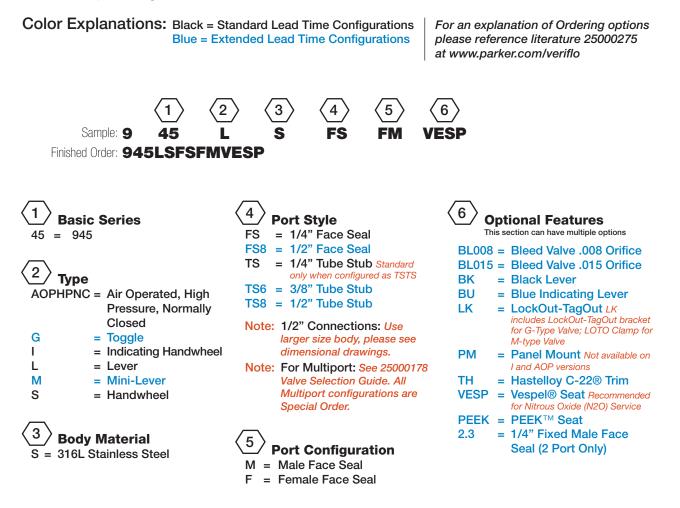
.44 [11.2 mm]

* See dimensional drawing.

945 Series

Ordering Information

Build a 945 Series valve by replacing the numbered symbols with an option from the corresponding tables below.



945 Series Specifications

Materials of Construction				
Wetted				
Body	VeriClean™ 316L Stainless Steel			
Compression Member Options	316L Stainless Steel (std) or Hastelloy C-22®			
Diaphragm	Elgiloy [®] or equivalent			
Seat Options	PCTFE (std), PEEK™ or Vespel®			
Non-wetted				
Сар	17-4 Stainless Steel			
Nut	316L Stainless Steel			
Actuator Housing	Anodized Aluminum			
Operating Conditions (Operating limits based upon pressure applied at inlet port.)				
Maximum Pressure				
AOPHP, I, L, M, S	3,500 psig (241 barg)			
G	125 psig (8.6 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			

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

Functional Performance				
Design				
Proof Pressure				
AOPHP, I, L, M, S	5,250 psig (362 barg)			
G	188 psig (13 barg)			
Burst Pressure				
AOPHP, I, L, M, S	10,500 psig (724 barg)			
G	375 psig (26 barg)			
Flow Capacity				
AOP, G, S, I	C _V 0.25			
Lever	C _V 0.18			
Leak Rate	Inboard Test Method			
Internal	\leq 1 X 10 ⁻⁹ scc/sec He			
External	$\leq 2 \text{ X } 10^{-10} \text{ scc/sec He}$			
Surface Finish	5 micro inch Ra			
Internal Volume	1.26 cc			
Approx. Weight	0.9 lbs. (0.42 kg)			

Vespel® is a registered trademark of DuPont Performance Elastomers L.L.C. Elgiloy® is a registered trademark of Elgiloy Company Hastelloy C-22® is a registered trademark of Haynes International, Inc. VeriClean™ is a trademark of Parker Hannifin Corporation PEEK™ is a trademark of Victex 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



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





ENGINEERING YOUR SUCCESS.

Rev: H

Date of Issue 04/2013

LitPN: 25000014