UHP Stainless Steel Diaphragm Valve High Pressure, Welded aerospace climate control electromechanical filtration fluid & gas handling hydraulics pneumatics process control sealing & shielding

Value Proposition:

The 845 Series diaphragm valve provides high pressure flow control for semiconductor, solar, and flat panel applications. The design provides high pressure and high flow in a compact device.

The 845AOPHP valves offer operating conditions from vacuum to 3500 psi with the newly designed and patent pending actuator. The new actuator requires only 75 psi actuation pressure for all pressure control applications and provides high cycle life.

<image>

Contact Information:

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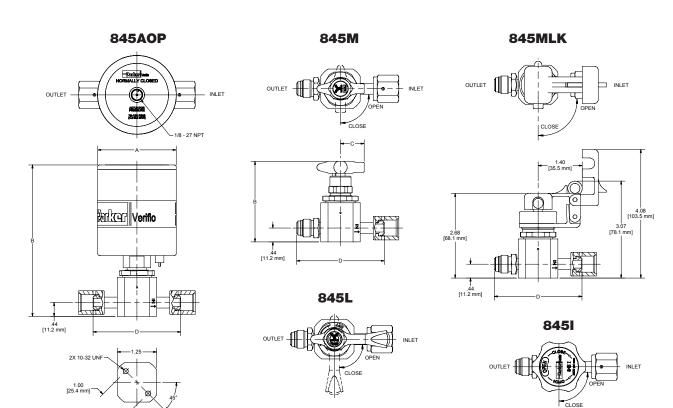
Product Features:

- Standard surface finish of 10 micro inch Ra with flash EP.
- Internally threadless and springless.
- Fully functional from vacuum to 3500 psig.
- Cycle life of AOPHP exceeds 30000 cycles at 3000 psi inlet pressure.

- 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 Drawings



Actuator Style	Actuator Diameter (A)	Height (B)	Lever Radius (C)	Port Sty
AOPHPNC	2.49	4.80	-	FS
1	1.70	2.58	-	TS
L	-	2.56	1.75	TS6
Μ	-	2.56	.75	
S	2.00	2.88	-	

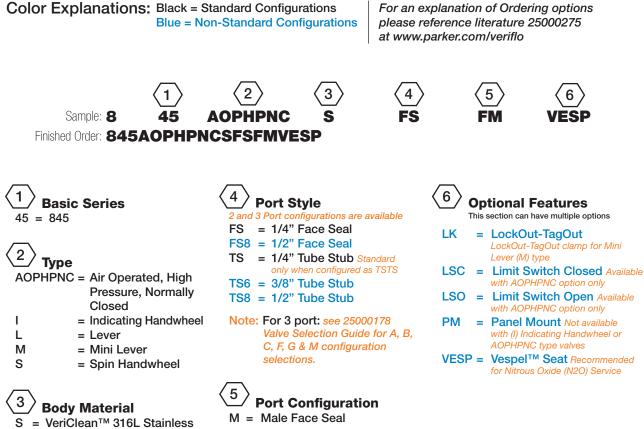
.44 [11.2 mm]

Port Style	End-To-End Length (D)
FS	2.78
TS	1.75
TS6	2.24

.44 [11.2 mm]

Ordering Information

Build an 845 Series valve by replacing the numbered symbols with an option from the corresponding tables below.



an™ 316L Stainless F

Steel

= Female Face Seal

Specifications

Materials of Construction				
		De		
VeriClean™ 316L Stainless Steel		Pro		
Elgiloy [®] or equivalent		Bu		
PCTFE (std) or $Vespel^{\mathbb{R}}$		Flo		
		Le		
17-4 PH		Int		
316L Stainless Steel		Ex		
Beryllium Copper (BeCu)		Su		
Anodized Aluminum		In		
Operating Conditions				
(Operating limits based upon pressure applied at inlet port.)				
3,500 psig (241 barg)		Li		
Vacuum		Тур		
-40°F to 150°F (-40°C to 66°C)		Ra		
75 psig (5 barg) nominal				
1/8-27 NPT				
	VeriClean [™] 316L Stainless Steel Elgiloy [®] or equivalent PCTFE (std) or Vespel [®] 17-4 PH 316L Stainless Steel Beryllium Copper (BeCu) Anodized Aluminum DS soure applied at inlet port.) 3,500 psig (241 barg) Vacuum -40°F to 150°F (-40°C to 66°C) 75 psig (5 barg) nominal	VeriClean [™] 316L Stainless Steel Elgiloy [®] or equivalent PCTFE (std) or Vespel [®] 17-4 PH 316L Stainless Steel Beryllium Copper (BeCu) Anodized Aluminum Dns sure applied at inlet port.) 3,500 psig (241 barg) Vacuum -40°F to 150°F (-40°C to 66°C) 75 psig (5 barg) nominal		

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

Functional Performance				
Design				
Proof Pressure	5,250 psig (362 barg)			
Burst Pressure	10,500 psig (724 barg)			
Flow Capacity	C _V 0.27			
Leak Rate	Inboard Test Method			
Internal	\leq 1 X 10 ⁻⁹ scc/sec He			
External	\leq 2 X 10 ⁻¹⁰ scc/sec He			
Surface Finish	10 micro inch Ra with flash EP			
Internal Volume	2.7 cc (including glands)			
Approx. Weight	2.5 lbs. (1.2 kg)			
Limit Switch (Optional)				
Туре	Single Pole, Single Throw (SPST) momentary action, non-adjustable			
Rating				
AOPHPLSC	1/4 amp at 115 vac (normally closed)			
AOPHPLSO	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

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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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