

SM930 Series

UHP Surface Mount Diaphragm Valve
1-1/8" & 1-1/2", Stainless Steel

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 930 Air Operated and Manual Diaphragm Valve. The SM930 diaphragm valve provides exceptional performance for today's modular surface mount systems.



Contact Information:

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Product Features:

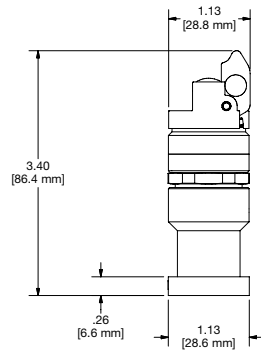
- “VeriClean”, Veriflo’s custom low sulfur high purity 316L Stainless Steel™ enhances electropolishing, welding and corrosion resistance
- Fully field serviceable seat (special tool required)
- Internally threadless and springless
- Standard full internal electropolish
- Fully functional for pressure ranges from vacuum to 125 psig for Air Operated and Toggle (G) valves and 250 psig for manual (I, K, M) valves
- Change from air operated actuator to lever or visa versa without intruding into wetted area
- 100% Helium leak tested



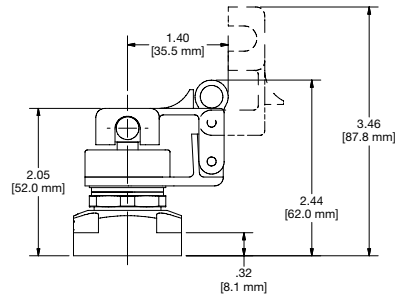
ENGINEERING YOUR SUCCESS.

SM930 Series

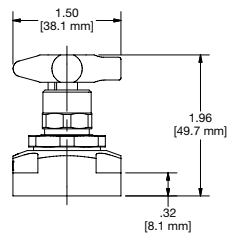
Dimensional Drawings



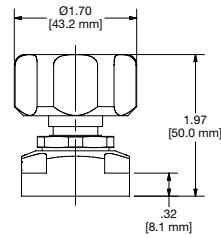
SM930 K



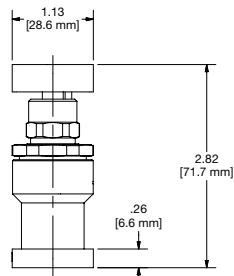
SM930 M LK



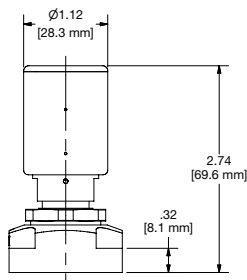
SM930 M



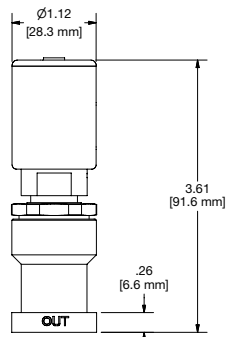
SM930 I



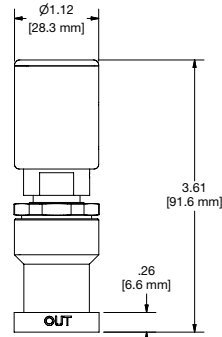
SM930 M 2



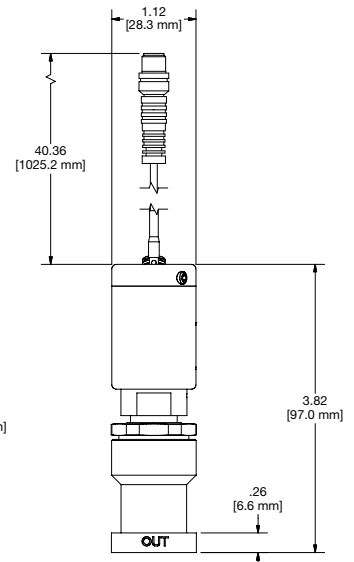
SM930 LPNC



SM930 LP1NC2



SM930 LPNC2



SM930 LP1NCPS

SM930 Series

Ordering Information

Build an SM930 Series valve by replacing the numbered symbols with an option from the corresponding tables below.





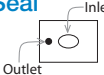
Contact factory for most up to date lead time information.

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

Sample: **SM930** **M** **S** **10** **VESP**
 Finished Order: **SM930MS10VESP**

- 1 Type**
- G = Toggle
 - I = **Indicating Handwheel**
 - K = LockOut-TagOut Manual Valve
 - M = Mini-Lever
 - LPNC = Air Operated Normally Closed**
 - LPNO = Air Operated Normally Open**
 - LP1NC = Air Operated Normally Closed with 1/8" O.D. Integral Cartridge Fitting
- Consult Factory for additional Handle Colors*

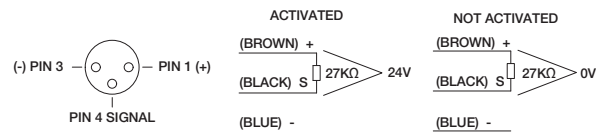
- 2 Body Material**
- S = 316L Stainless Steel

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

- 4 Base Size**
- = 1-1/2" Interface
 - 2 = 1-1/8" Interface

- 5 Optional Features**
 This section can have multiple options
- LK = **LockOut-TagOut LOTO Clamp for M type Valve**
 - LSC = Limit Switch Closed**
Available with LPNC Options Only
 - LSO = **Limit Switch Open**
Available with LPNC Options Only
 - VESP = **VespeI® Seat**
Recommended for Nitrous Oxide (N2O) Service
 - PEEK = PEEK™ Seat**
 - NPNO = NPN Proximity Switch, 8" Long Cable**
Available with Normally Open or Normally Closed Actuators
 - NPNO1 = NPN Proximity Switch, 40" Long Cable**
Available with Normally Open or Normally Closed Actuators

NPN CONNECTOR PIN CONFIGURATION:



SM930 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	316L Stainless Steel
Operating Conditions	
Maximum Pressure	
LPNC, LPNO, LP1NC, G	125 psig (8.6 barg)
I, K, M	250 psig (17.2 barg)
Minimum Pressure	
Vacuum	
AOP Actuation Pressure	
75 psig (5.2 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.

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.

Functional Performance	
Design	
Burst Pressure	
LPNC, LPNO, LP1NC, G	375 psig (25.9 barg)
I, K, M	750 psig (51.7 barg)
Proof Pressure	
LPNC, LPNO, LP1NC, G	188 psig (13.0 barg)
I, K, M	375 psig (25.9 barg)
Design Pressure ⁽¹⁾	
LPNC, LPNO, LP1NC, G	151 psig (10.4 barg)
I, K, M	276 psig (19.0 barg)
Flow Capacity	
LP	C _v 0.25
1/4 Turn Manual	C _v 0.20
Leak Rate	
Inboard Test Method	
Internal	< 1 x 10 ⁻⁹ scc/sec He
External	< 2 x 10 ⁻¹⁰ scc/sec He
Surface Finish	
5 micro inch Ra or less	

1. Design pressure per KOSHA Guide D-5-2012, Para. 6.2

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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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