

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:

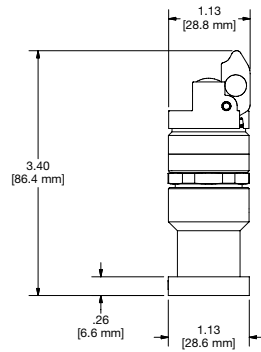
- “VeriClean”, Veriflo’s custom low sulfur high purity 316L Stainless Steel™ enhances electropolishing, welding and corrosion resistance
- Fully field serviceable seat (special tool required)
- Internally threadless and springless
- Standard full internal electropolish
- Fully functional for pressure 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



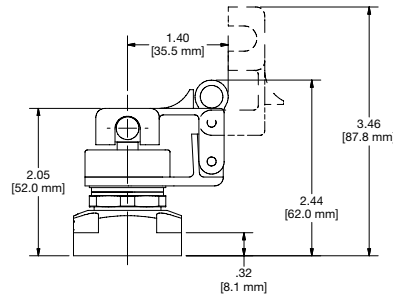
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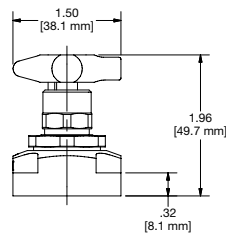
Dimensional Drawings



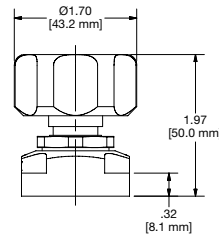
SM930 K



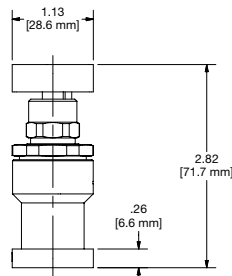
SM930 M LK



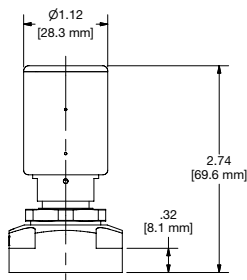
SM930 M



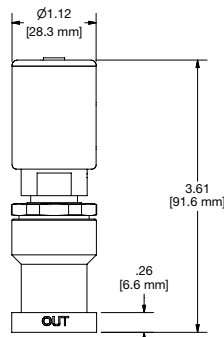
SM930 I



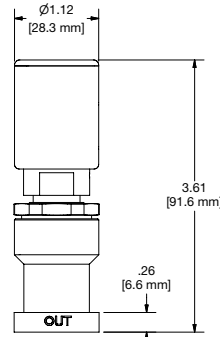
SM930 M 2



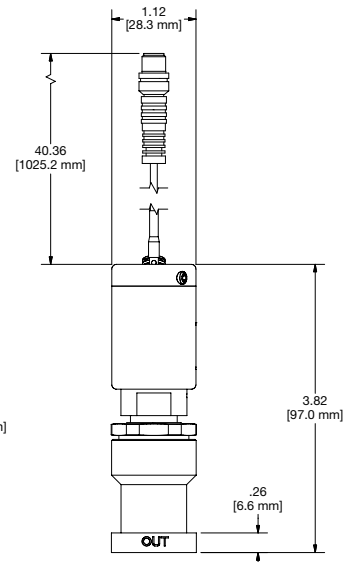
SM930 LPNC



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.





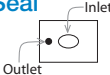
Contact factory for most up to date lead time information.

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*

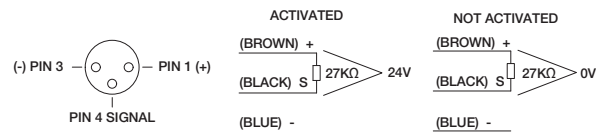
- 2 Body Material**
- S = 316L Stainless Steel

- 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:



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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 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

Functional Performance	
Design	
Burst Pressure	
LPNC, LPNO, LP1NC, G	375 psig (26 barg)
I, K, M	750 psig (52 barg)
Proof Pressure	
LPNC, LPNO, LP1NC, G	188 psig (13 barg)
I, K, M	375 psig (26 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	

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

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PEEK™ is a trademark of Victrex plc.

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