930 Series

UHP Stainless Steel Diaphragm Valve
Welded

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

Value Proposition:

The 930 Series valves are designed for ultra high purity applications for Semiconductor OEM and process wafer manufacturing.

The 930 Series is available with a variety of manual operators and air operated actuators. The air operated actuators are provided with an LP (125 PSI) or an MP (300 PSI) operating range.

The 300 psig operating pressure for both the manual and the AOPMP (mid-pressure) valves offers an extended application range for this product series.

Contact Information:

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www.parker.com/veriflo
Mobile App: m.parker.com/veriflo

Product Features:

- Standard surface finish 5 micro inch Ra
- Internally threadless and springless
- Fully functional from vacuum to 300 psig
- High cycle life (including corrosive service)
- 100% Helium leak tested
- Standard full internal electroplish
- 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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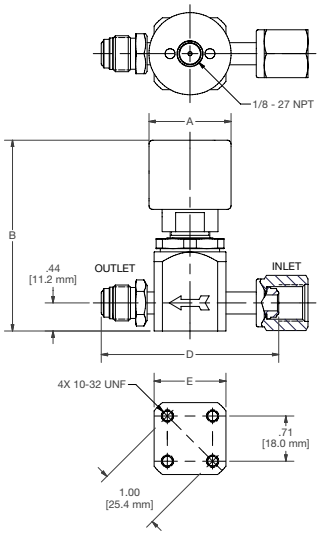
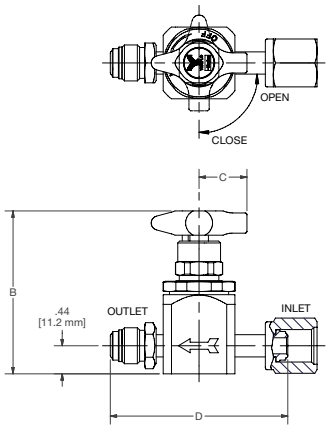
930 Series

Dimensional Drawings

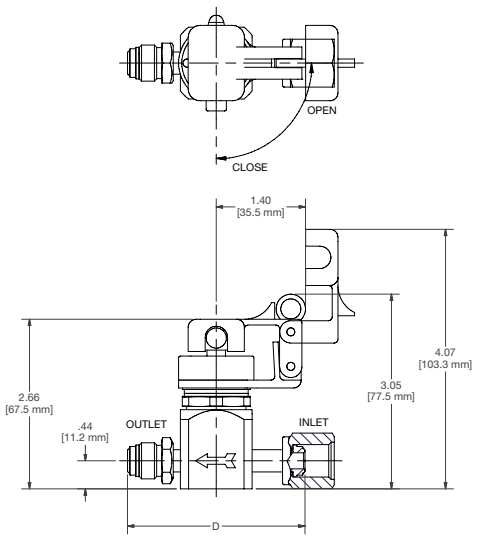
930AOP



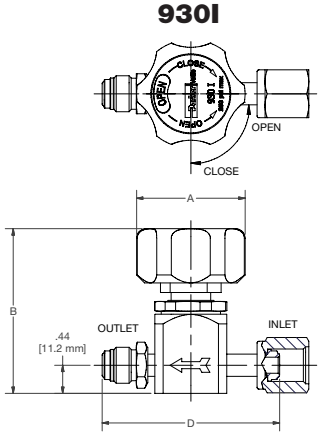
930M



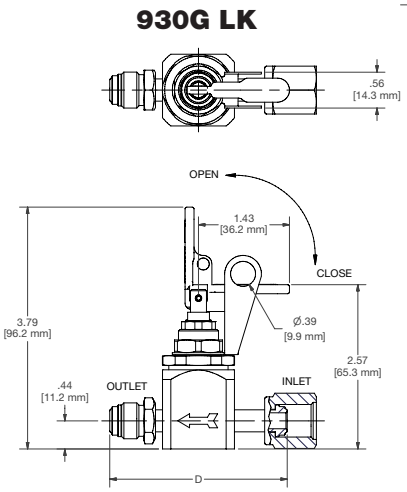
930M LK



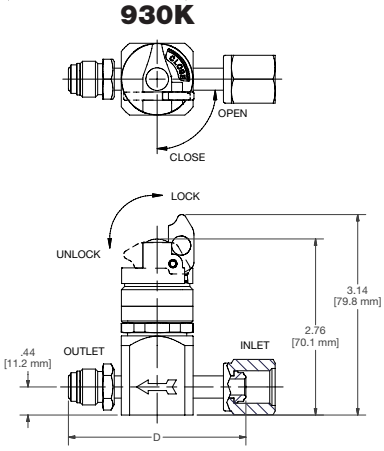
930I



930G LK



930K



Actuator Style	Actuator Diameter (A)	Height (B)	Lever Radius (C)
AOPLPNC	1.12	3.35	-
AOPLPNO	1.29	2.97	-
AOPMPNC	1.55	3.37	-
G	-	*	-
I	1.70	2.58	-
L	-	2.56	1.75
M	-	2.56	.75
S	2.00	2.83	-

Port Style	End-To-End Length (D)	Square Body Size (E)
FS	2.78	1.125
FS8	4.14	1.25
TS	1.75	1.125
TS6	2.24	1.125
TS8	2.24	1.25

* See dimensional drawing.

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

930 Series

Ordering Information

Build a 930 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 will require a price quote and lead time from the factory.

	1	2	3	4	5	6
Sample:	**9**	**30**	**AOPLPNC**	**S**	**FS**	**FM**	**VESP**

Finished Order: **930AOPLPNCSFSFMVESP**

1 Basic Series

30 = 930

2 Type

AOPLPNC = Air Operated, Low Pressure, Normally Closed *Air Connection is 1/8" NPT*
AOPLPNO = Air Operated, Low Pressure, Normally Open *Air Connection is 1/8" NPT*
AOPLP1NC = Air Operated, Low Pressure, Normally Closed *Air Connection is 1/8" Tube*
AOPLP1NO = Air Operated, Low Pressure, Normally Open *Air Connection is 1/8" Tube*
AOPMP1NC = Air Operated, Medium Pressure, Normally Closed *Air Connection is 1/8" Tube*
G = Toggle
I = Indicating Hand wheel
K = LockOut-TagOut Manual Valve
L = Lever
M = Mini-Lever
S = Spin Handwheel

3 Body Material

S = 316L Stainless Steel

4 Port Style

FS = 1/4" Face Seal *Standard only when configured as FSFS*
FS8 = 1/2" Face Seal
TS = 1/4" Tube Stub *Standard only when configured as TSTS*
TS6 = 3/8" Tube Stub
TS8 = 1/2" Tube Stub

Note: 1/2" Connections: *Use a larger size body, please see dimensional drawings.*

Note: *Combinations of Port Style options may have an extended lead time.*

Note: For Multiport: *See 25000178 Valve Selection Guide. All Multiport configurations are Special Order.*

5 Port Configuration

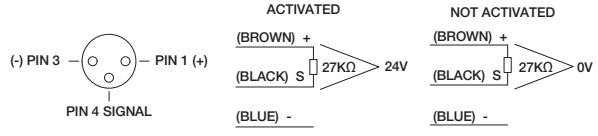
M = Male Face Seal
F = Female Face Seal

6 Optional Features

This section can have multiple options

BK = Black Lever
LK = LockOut-TagOut *LK includes LockOut-TagOut bracket for G-Type Valve; LOTO Clamp for M type Valve*
LSC = Limit Switch Closed *Available with AOPLPNC or AOPMP1NC options only*
LSO = Limit Switch Open *Available with AOPLPNC or AOPMP1NC options only*
PM = Panel Mount *Not available on I and AOP versions*
RD = Red Lever
VESP = Vespel® Seat *Recommended for Nitrous Oxide (N2O) Service*
2.3 = 1/4" Fixed Male Face Seal (2 Port Only)
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
Actuator Housing	Anodized Aluminum
Operating Conditions *(Operating limits based upon pressure applied at inlet port.)*	
Maximum Pressure	
AOPLP, G	125 psig (8.6 barg)
AOPMP, K, L, I, M, S	300 psig (20.7 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.

Functional Performance	
Design	
Proof Pressure	
AOPLP, G	188 psig (13.0 barg)
AOPMP, K, L, I, M, S	450 psig (31.0 barg)
Burst Pressure	
AOPLP, G	375 psig (25.9 barg)
AOPMP, K, L, I, M, S	900 psig (62.1 barg)
Design Pressure [1]	
AOPLP, G	151 psig (10.4 barg)
AOPMP, K, L, I, M, S	330 psig (22.8 barg)
Flow Capacity	
AOP	C_V 0.3
Lever	C_V 0.22
Leak Rate	Inboard Test Method
Internal	≤ 1 X 10^{-9} scc/sec He
External	≤ 2 X 10^{-10} scc/sec He
Internal Volume	2.64 cc
Approx. Weight	1.75 lbs. (0.80 kg)
Limit Switch (Optional)	
Type	Single Pole, Single Throw (SPST) momentary action, non-adjustable
Rating	
AOPLPLSC, AOPMPLSC	1/4 amp at 115 vac (normally closed)
AOPLPLSO, AOPMPLSO	1/2 amp at 115 vac (normally open)
Wire Length	7 inch lead
Wire Type	26 AWG, UL Style 1061 or equal, twisted pair
Wire Ends	1/8" strip tinned ends

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

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