

# 800 Series

830 Valve

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

## Value Priced Valve for High Purity Applications:

Parker Hannifin Corporation's Veriflo Division presents the 830 valve for use in solar and semiconductor applications. The 830 has many of the 930 Series valve features but at a lower price point.

The maximum operating pressure for the manual valve is 300 psig. In addition, the 830 offers a LP (125 psig) and a new MP (300 psig) air actuation versions.



## Contact Information:

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## Product Features:

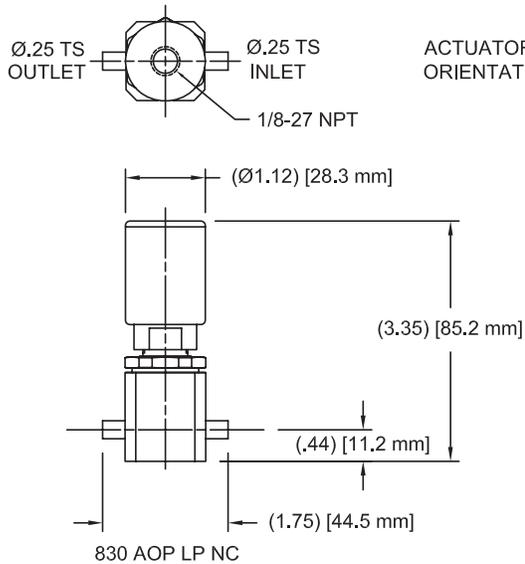
- Standard surface finish 10 micro inch Ra with flash EP.
- Internally threadless and springless.
- "VeriClean™", Veriflo's low sulfur high purity 316L Stainless Steel enhances electropolishing, welding, and corrosion resistance.
- Aerodynamic, fully swept flow passages.
- Minimal particle generation and particle entrapment areas.
- Change from air operated actuator to lever or vice versa without intruding into wetted area.
- Maintains key dimensions of Veriflo's 930 valve.
- 100% Helium leak tested.



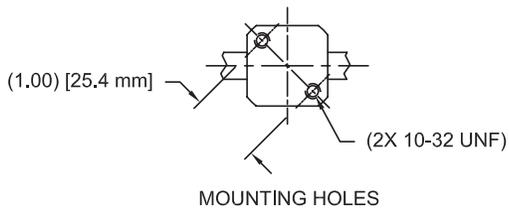
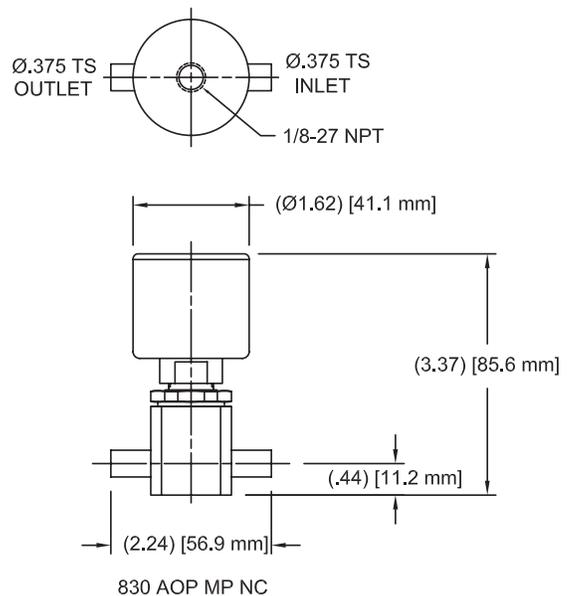
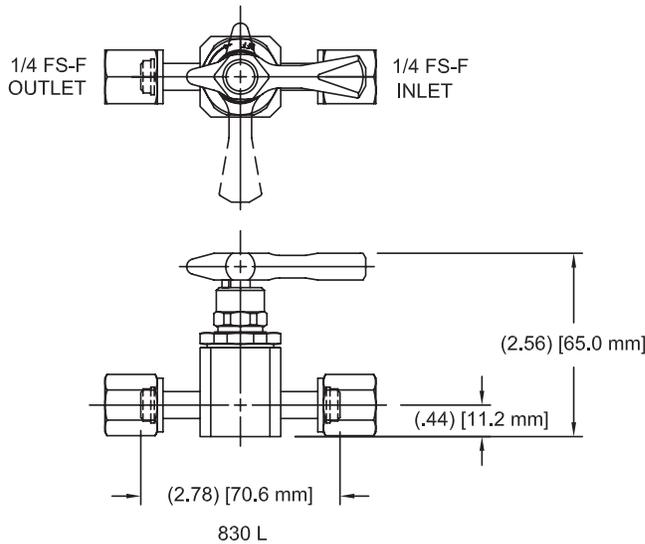
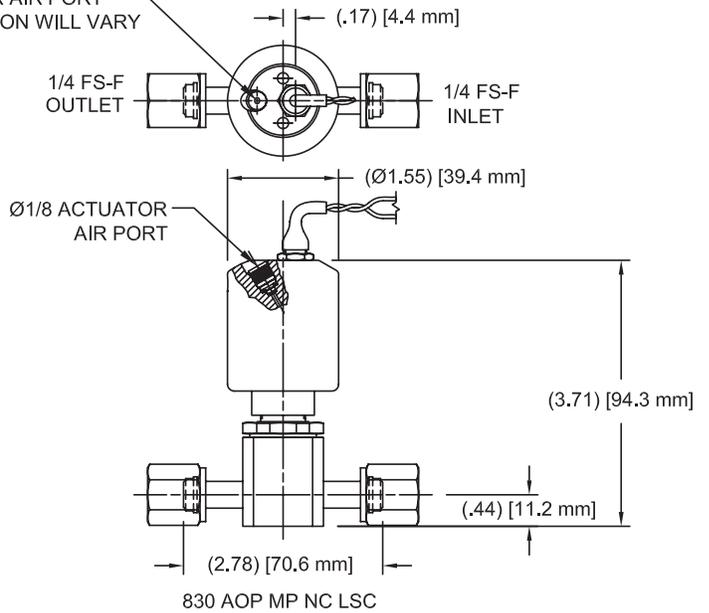
ENGINEERING YOUR SUCCESS.

# 800 Series - 830 Valve

## Dimensional Drawings



ACTUATOR AIR PORT  
ORIENTATION WILL VARY



# 800 Series - 830 Valve

## Ordering Information

Build an 800 Series - 830 Valve by replacing the numbered symbols with an option from the corresponding tables below.

Sample: **8**      **1**      **2**      **3**      **4**      **5**  
Finished Order: **830AOPLPNCFSFMSVESP**

### **1** Basic Series

30 = 830

### **2** Type

*125 psig (8.6 barg) max pressure*

AOPLPNC = Air Operated, Low Pressure, Normally Closed

AOPLPNO = Air Operated, Low Pressure, Normally Open

*300 psig (20.7 barg) max pressure*

AOPMPNC = Air Operated, Medium Pressure, Normally Closed

I = Indicating Handwheel

L = Lever

M = Mini Lever

S = Spin Handwheel

### **3** Body Material

S = VeriClean™ 316L Stainless Steel

### **4** Port Style

*(2 and 3 Port configurations are available)*

FSMM = 1/4" Face Seal *Male in, Male Out*

FSFF = 1/4" Face Seal *Female in, Female Out*

FSFM = 1/4" Face Seal *Female in, Male Out*

FSMF = 1/4" Face Seal *Male in, Female Out*

TS = 1/4" Tube Stub

TS6 = 3/8" Tube Stub

*For 3 port see 4504 Valve Selection Guide for A, B, C, F, G & M configuration selections*

### **5** Optional Features

This section can have multiple options

LK = LockOut-TagOut - *LockOut-TagOut clamp for Mini Lever (M) type*

LSC = Limit Switch Closed *(Available with AOPLPNC or AOPMPNC Options Only)*

LSO = Limit Switch Open *(Available with AOPLPNC or AOPMPNC Options Only)*

PM = Panel Mount *(Not available with (I) Indicating Handwheel or AOP type valves)*

VESP = VespeI™ Seat - *Recommended for Nitrous Oxide (N2O) Service*

Additional configurations available upon request

# 800 Series - 830 Valve

## Specifications

Materials of Construction	
<b>Wetted</b>	
Body	VeriClean™ 316L Stainless Steel
Diaphragm	Elgiloy® or equivalent
Seat Options	PCTFE (std) Vespel®
<b>Non-wetted</b>	
Cap	17-4 PH
Nut	316L Stainless Steel
Standard Configuration	
Face Seal (FS) Length	Any configuration of FS male or female fittings gland to gland
1/4"	2.78 in (70.6 mm)
Tube Stub (TS) Length	End to End
1/4"	1.75 in. (44.5 mm)
3/8"	2.24 in. (56.9 mm)
<b>Surface Finish</b>	10 micro inch with flash EP
<b>Internal Volume</b>	2.64 cc (including Face Seal Fittings)
<b>Approx. Weight</b>	1.75 lbs. (0.80 kg)

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

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Elgiloy® is a registered trademark of Elgiloy Company  
VeriClean™ is a trademark of Parker Hannifin Corporation

Operating Conditions	
Minimum Pressure	Vacuum
Maximum Pressure	
AOPLP	125 psig (8.6 barg)
AOPMP, Manual	300 psig (20.7 barg)
Temperature	-40°F to 150°F (-40°C to 66°C)
Bake Out	250°F (121°C) in the open position
AOP Actuation Pressure	75 psig (5 barg) nominal
Functional Performance	
<b>Flow Capacity</b>	
All AOP and Spin Handwheel	C <sub>v</sub> 0.30
Lever (L), Mini Lever (M), Indicator Knob (I)	C <sub>v</sub> 0.22
<b>Design</b>	
Leak Rate	Inboard Test Method
External	≤ 2 X 10 <sup>-10</sup> scc/sec He
Internal	≤ 1 X 10 <sup>-9</sup> scc/sec He
Proof Pressure	
AOPLP	188 psig (13 barg)
AOPMP, L, I, M, S	450 psig (31 barg)
Burst Pressure	
AOPLP	375 psig (26 barg)
AOPMP, L, I, M, S	900 psig (62 barg)

### OFFER OF SALE:

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