



Hydraulik - Pneumatik

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# Veriflo - Ventil Serie 800

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**KATALOG**

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# 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:

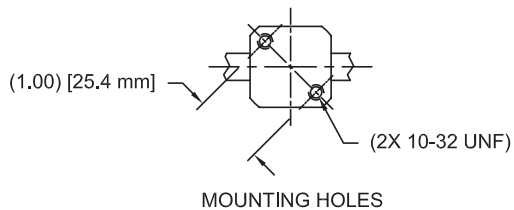
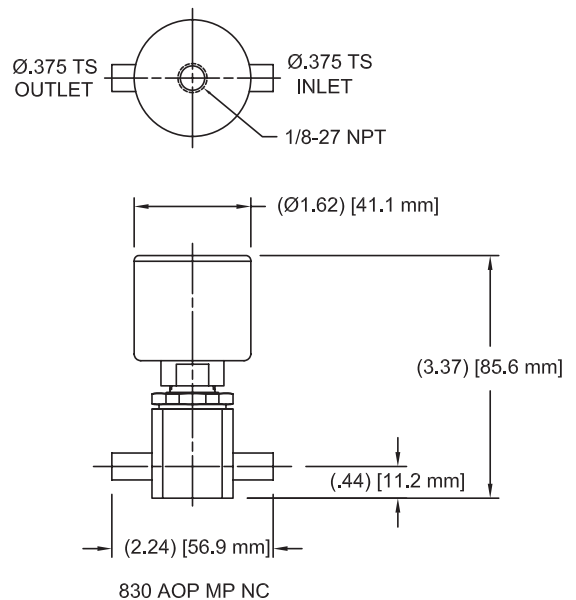
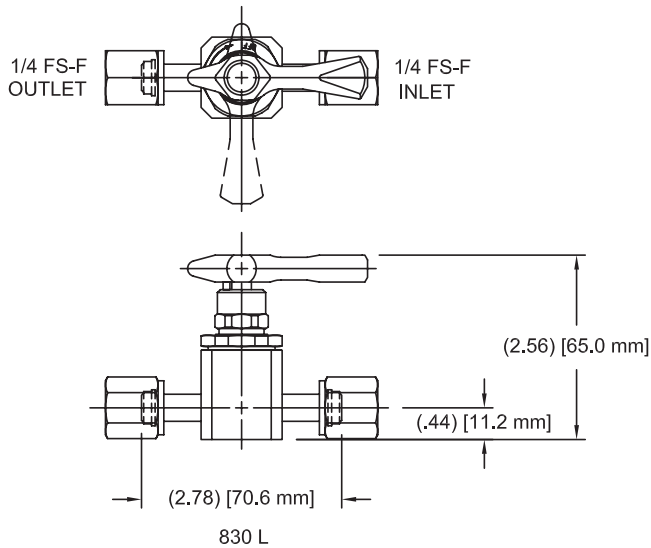
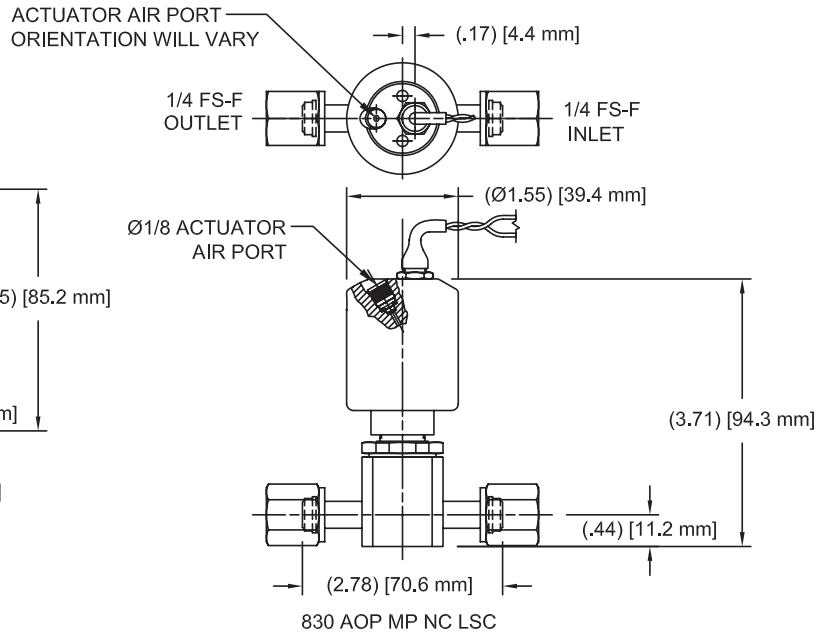
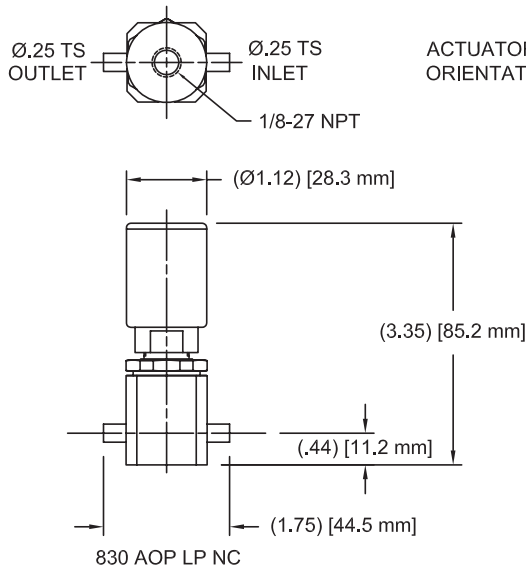
- Standard surface finish 10 micro inch Ra with flash EP.
- Internally threadless and springless.
- "VeriClean™", Veriflo's low sulfur high purity 316L Stainless Steel enhances electropolishing, welding, and corrosion resistance.
- Aerodynamic, fully swept flow passages.
- Minimal particle generation 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



# 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: **830AOPLPNCFSFMVESP**

**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 = Vespel™ 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)<br>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)                 |

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