

800 Series

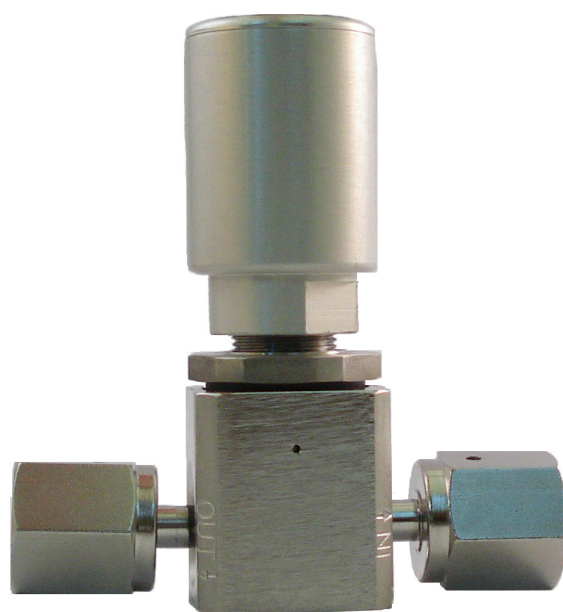
830 Valve

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:

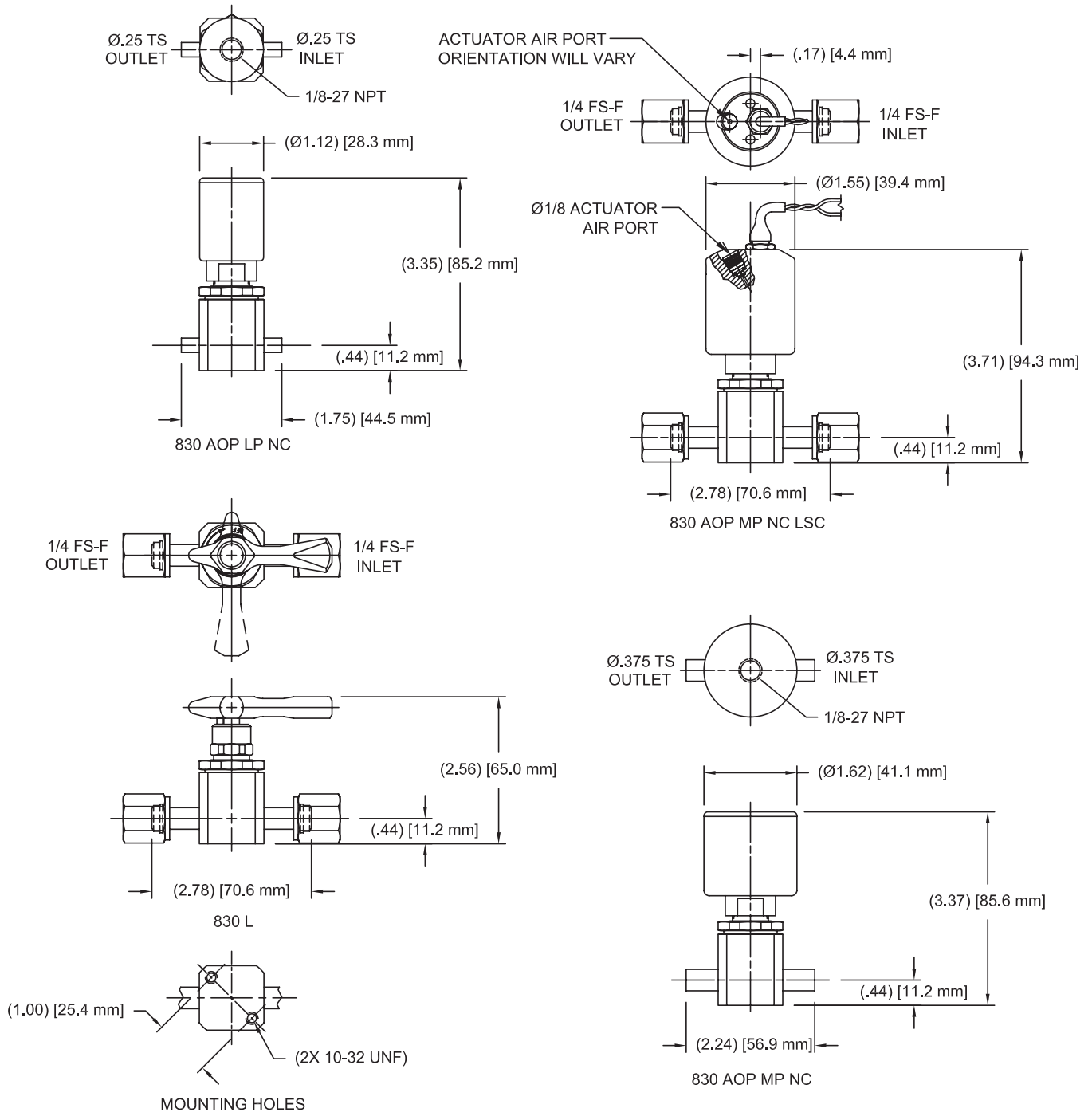
- Standard surface finish 10 micro inch Ra with flash EP.
- Internally threadless and springless.
- "VeriClean™", Veriflo's low sulfur high purity 316L Stainless Steel enhances electropolishing, welding, and corrosion resistance.
- Aerodynamic, fully swept flow passages.
- Minimal particle generation 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: **830AOPLPNC SFSFM VESP**

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		Operating Conditions	
Wetted		Minimum Pressure	Vacuum
Body	VeriClean™ 316L Stainless Steel	Maximum Pressure	
Diaphragm	Elgiloy® or equivalent	AOPLP	125 psig (8.6 barg)
Seat Options	PCTFE (std) Vespel®	AOPMP, Manual	300 psig (20.7 barg)
Non-wetted		Temperature	-40°F to 150°F (-40°C to 66°C)
Cap	17-4 PH	Bake Out	250°F (121°C) in the open position
Nut	316L Stainless Steel	AOP Actuation Pressure	75 psig (5 barg) nominal
Standard Configuration		Functional Performance	
Face Seal (FS) Length	Any configuration of FS male or female fittings gland to gland	Flow Capacity	
1/4"	2.78 in (70.6 mm)	All AOP and Spin Handwheel	C _v 0.30
Tube Stub (TS) Length	End to End	Lever (L), Mini Lever (M), Indicator Knob (I)	C _v 0.22
1/4"	1.75 in. (44.5 mm)	Design	
3/8"	2.24 in. (56.9 mm)	Leak Rate	Inboard Test Method
Surface Finish	10 micro inch with flash EP	External	≤ 2 X 10 ⁻¹⁰ scc/sec He
Internal Volume	2.64 cc (including Face Seal Fittings)	Internal	≤ 1 X 10 ⁻⁹ scc/sec He
Approx. Weight	1.75 lbs. (0.80 kg)	Proof Pressure	
For additional information on materials of construction, functional performance and operating conditions, please contact factory.		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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