

830 Series

UHP Stainless Steel Quick Turn Handle Diaphragm Valve

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

Value Proposition:

- Parker Hannifin Corporation's Veriflo Division presents the 830 quick turn handle valve for use in semiconductor and solar applications.
- The maximum operating pressure for the quick turn handle valve is 150 psig.
- Safety is highly focused with a simple push-pin to enable lock and release functionality, at the same time preventing accidental turning on and off by the locking device.



Contact Information:

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www.parkerkorea.com

Product Features:

- Standard surface finish of 10 micro inch Ra with flash EP
- Internally threadless and springless
- Fully functional from vacuum to 150 psig
- 100% Helium leak tested
- Minimal particle generation and particle entrapment areas

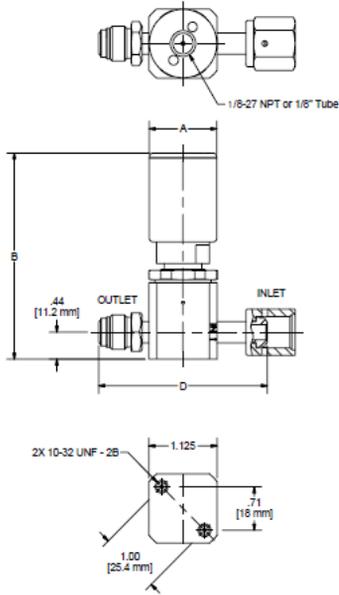


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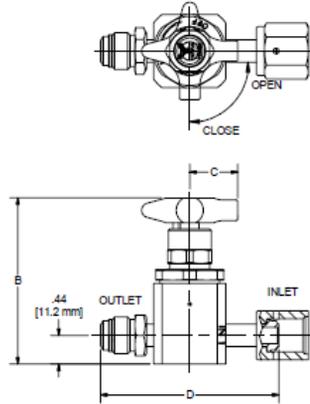
830 Series

Dimensional Drawing

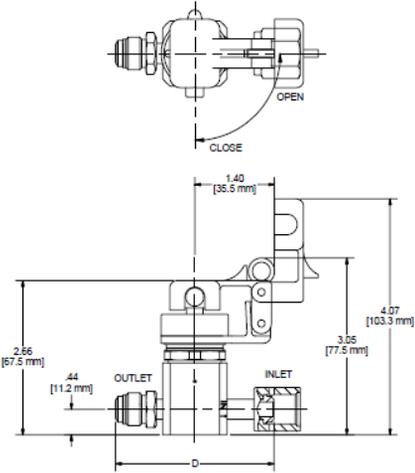
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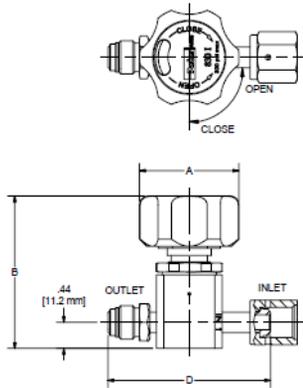
830M



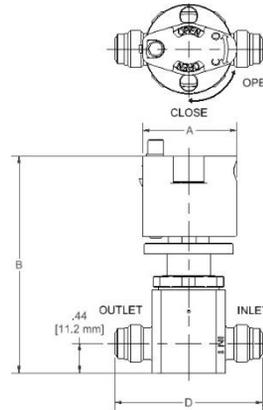
830MLK



830I



830Q



Actuator Style	Actuator Diameter (A)	Height (B)	Lever Radius (C)
AOPLPNC	1.12	3.35	-
AOPLPNO	1.29	2.99	-
AOPMPNC	1.55	3.38	-
I	1.70	2.57	-
L	-	2.55	1.75
M	-	2.55	0.75
S	2.00	2.83	-
Q	1.43	3.25	-

Port Style	End-to-End Length (D)
FS	2.78
TS	1.76
TS6	2.24
FSMM224	2.24

Safety Guide and Installation and Operating Instruction available at

www.parker.com/veriflo



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Ordering Information

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

Color Explanation: Black = Standard Lead Time Configurations
Blue = Extended Lead Time Configurations

For an explanation of Ordering options please reference literature 25000275 at www.parker.com/veriflo

Sample : 8  30  AOPLPNC  S  FS  FM  VESP

Finished Order: **830AOPLPNCFSFMVESP**

 **1 Basic Series**
30 = 830

 **3 Body Material**
S = VeriClean™ 316L Stainless Steel
L = 316L Stainless Steel

 **6 Optional Features**
This section can have multiple options
RG = Green Lever (Basic color Red)
LK = LockOut-TagOut LK includes LOTO Clamp M type Valve
LSC = Limit Switch Closed Available with AOPLPNC or AOPMPNC options only
LSO = Limit Switch Open Available with AOPLPNC or AOPMPNC only
PM = Panel Mount Not available on I and AOP versions
VESP = Vespel™ Seat Recommended for Nitrous Oxide (N2O) Service
LD = Locking Device Quick Turn Handle option only

 **2 Type**
125 psig (8.6 barg) max. pressure
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
AOPLP1NC = Air Operated, Low Pressure, Normally Open Air Connection is 1/8" Tube

 **4 Port Style**
FS = 1/4" Face Seal
FSMM224 = 1/4" Face Seal overall length 2.24 machining fixed male
TS = 1/4" Tube Stub Standard only when configured as TSTS
TS6 = 3/8" Tube Stub

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

 **5 Port Configuration**
M = Male Face Seal
F = Female Face Seal

300 psig (20.7 barg) max. pressure
AOPMPNC = Air Operated, Medium Pressure, Normally Closed Air Connection is 1/8" NPT

I = Indicating Handwheel
L = Lever
M = Mini Lever
S = Spin Handwheel

150 psig (10.3 barg) max. pressure
Q = Quick Turn Handle



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Specifications

Materials of Construction	
Wetted	
Body	316L Stainless Steel(Std) or VeriClean™ 316L Stainless Steel
Diaphragm	Elgiloy® or equivalent
Seat	PCTFE(Std) or Vespel®
Non-wetted	
Nut	316L Stainless Steel
Cap	316L Stainless Steel
Stem	17-4 Stainless Steel
Operating Conditions (Operating limits based upon pressure applied at inlet port.)	
Maximum Pressure	150 psig (10.3 barg)
Minimum Pressure	Vacuum
Temperature	-40°F to 150°F (-40°C to 66°C)

Functional Performance	
Design	
Proof Pressure	225 psig (15.5 barg)
Burst Pressure	450 psig (31.0 barg)
Flow Capacity	Cv 0.30
Leak Rate	
Internal	≤ 1X10 ⁻⁹ scc/sec He
External	≤ 2X10 ⁻¹⁰ scc/sec He
Surface Finish	10 micro inch Ra with Flash EP
Internal Volume	2.64 cc (including Face Seal Fitting)
Approx. Weight	1.75 lbs. (0.80 kg)

Elgiloy® is a registered trademark of DuPont Performance Elastomers L.L.C
 Vespel® is a registered trademark of Elgiloy Company
 VeriClean™ is a trademark of Parker Hannifin Corporation

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

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