

QUANTUM 930 Valve



Parker Hannifin Corporation's Veriflo Division presents the 930 valve for use in ultra high purity applications.



features

- ▶ "VeriClean", Veriflo's low sulfur high purity 316L VAR Stainless Steel™, which enhances electropolishing, welding and corrosion resistance.
- ▶ Standard surface finish 5 micro inch Ra (.13 micro meter).
- ▶ Internally threadless and springless.
- ▶ Fully functional from vacuum to 125 psig (for Air Operated Actuator), 250 psig for manual versions.
- ▶ Aerodynamic, fully swept flow passages.
- ▶ Minimum particle generation and particle entrapment areas.
- ▶ Change from air operated actuator to lever or visa versa without intruding into wetted area.
- ▶ 100% Helium leak tested.
- ▶ Maintains key dimensions of Veriflo's 944 and 945 valves.

materials of construction

Wetted

Body . . . "VeriClean", Veriflo's custom high purity type 316L VAR Stainless Steel™, Hastelloy C-22®
Seat PCTFE, optional Vespel®
Diaphragm Elgiloy® or equivalent

Non-wetted

Nut. 316L Stainless Steel
Cap. 316L Stainless Steel

operating conditions

Maximum operating pressure:

AOP 125 psig (8.6 barg)
Manual 250 psig (17 barg)
Minimum operating pressure Vacuum
AOP Actuation 75 psig (5 barg) nominal
Temperature 0°F to 150°F (-18°C to 66°C)
Bake out 250°F (121°C) in the open position

functional performance

Flow capacity:

AOP $C_v = .3$
Lever $C_v = .22$

Design Leak Rate:

Outboard less than 1×10^{-9} scc/sec He
Inboard less than 2×10^{-10} scc/sec He
Across seat less than 1×10^{-9} scc/sec He

Design Proof Pressure:

AOP 188 psig (13 barg)
Manual 375 psig (26 barg)

Design Burst Pressure:

AOP 375 psig (26 barg)
Manual 750 psig (52 barg)

standard configuration

Any configuration of FS male and/or female fittings.

1/4" gland to gland length $2.78 \pm .02$ in.
(70.6 $\pm$.05 mm)

Optional $3.06 \pm .02$ in. (77.7 $\pm$.05 mm)
1/2" gland to gland length $4.14 \pm .02$ in.
(105.2 mm)

1/4" tube stubs inlet and outlet

End to end length . . . $1.75 \pm .02$ in. (44.5 $\pm$.05 mm)

Optional $1.61 \pm .02$ in. (40.7 $\pm$.05 mm)

3/8" & 1/2" tube stubs inlet and outlet

End to end length . . . $2.24 \pm .02$ in. (56.9 $\pm$.05 mm)

Other configurations available including as many as five ports.

See Valve Selection Guide.

internal volume

2.64 cc (including face seal fittings)

surface finish

Standard Ra 5 micro inch
(.13 micro meter) or less

approximate weight

1.75 lbs. (.80 kg)

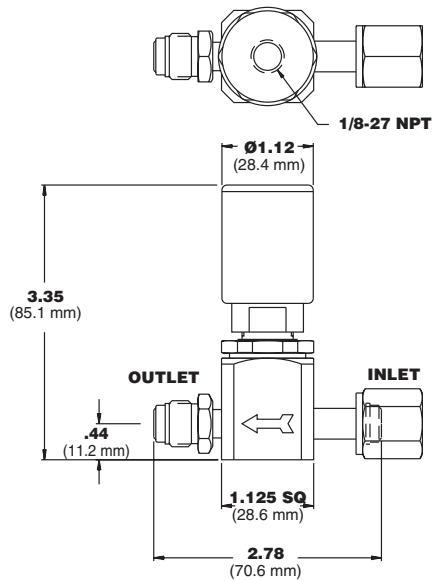
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LitPN: 25000179
Revision: A • 10/03



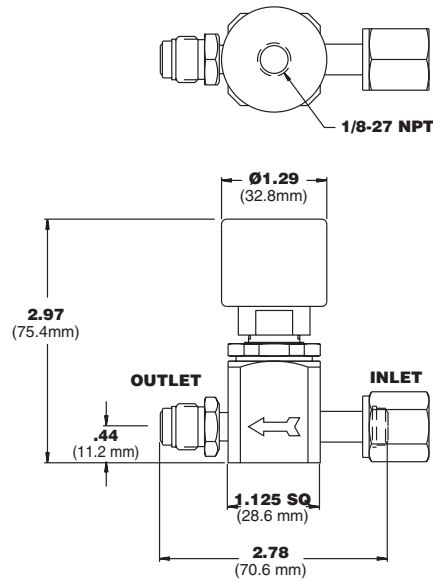
QUANTUM 930 Valve

Dimensional Drawings

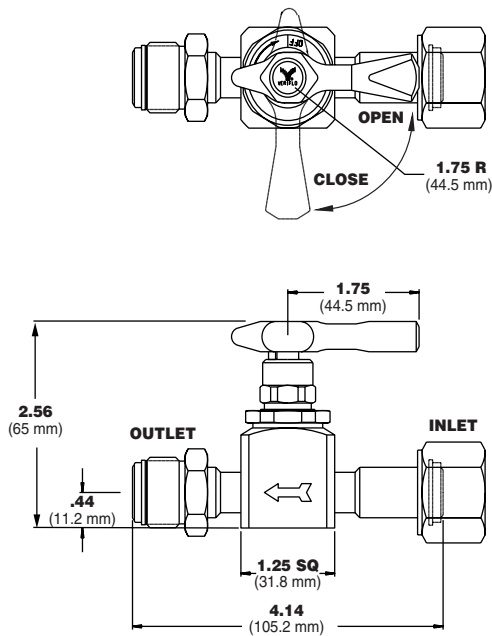
930 AOP LP NC



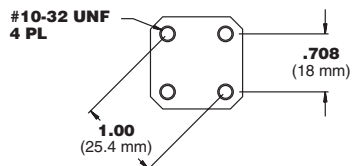
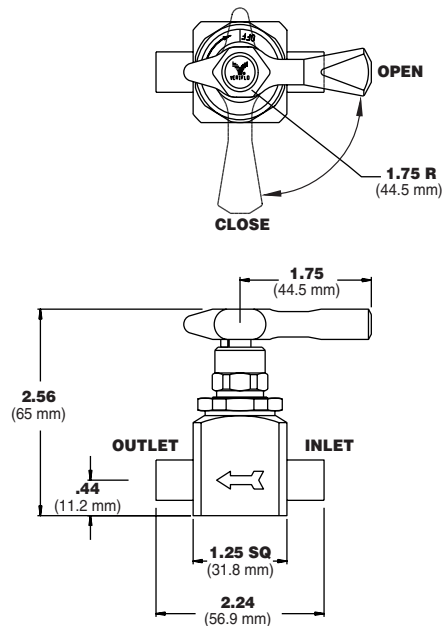
930 AOP LP NO



930 L FS8



930 L TS8

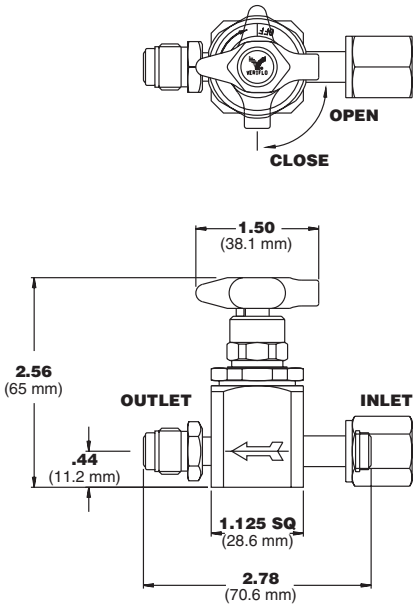


Standard Mounting Hole Pattern

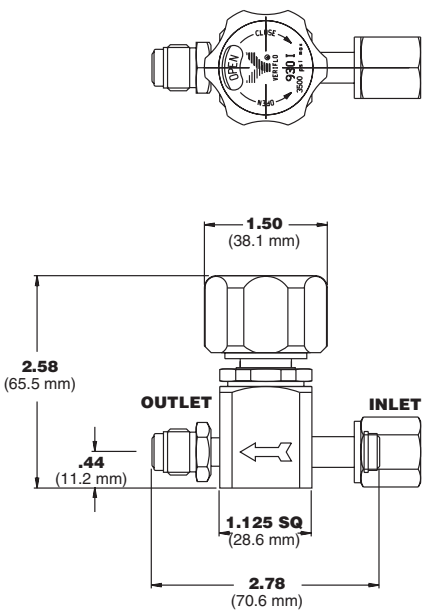
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Dimensional Drawings

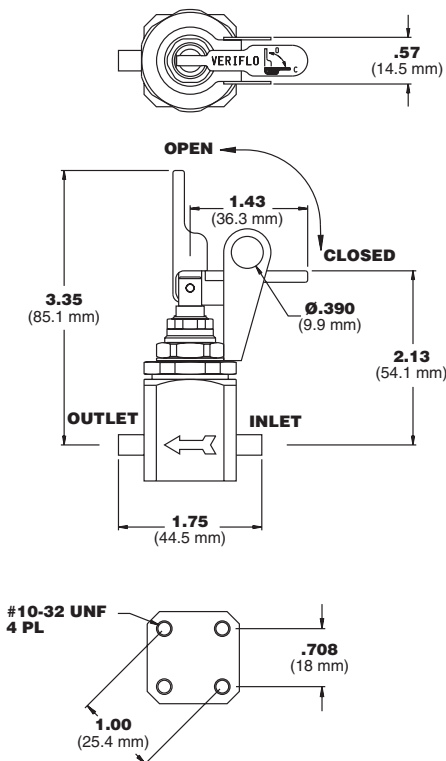
930 M



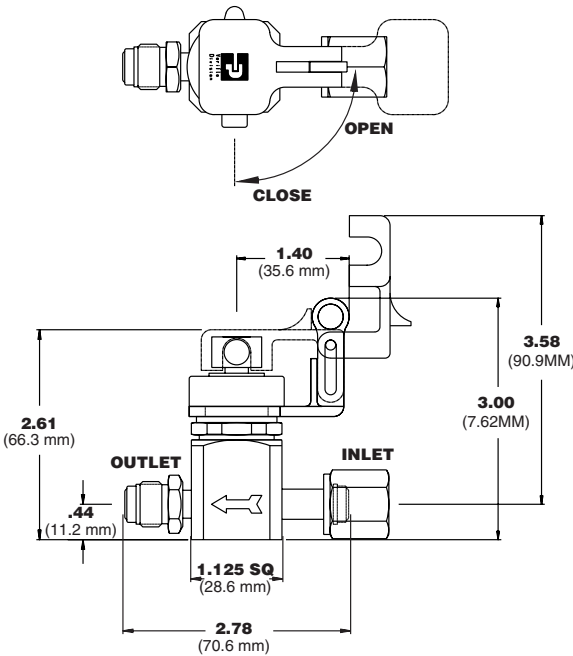
930 I



930 G LK BRACKET



930 M LK CLAMP

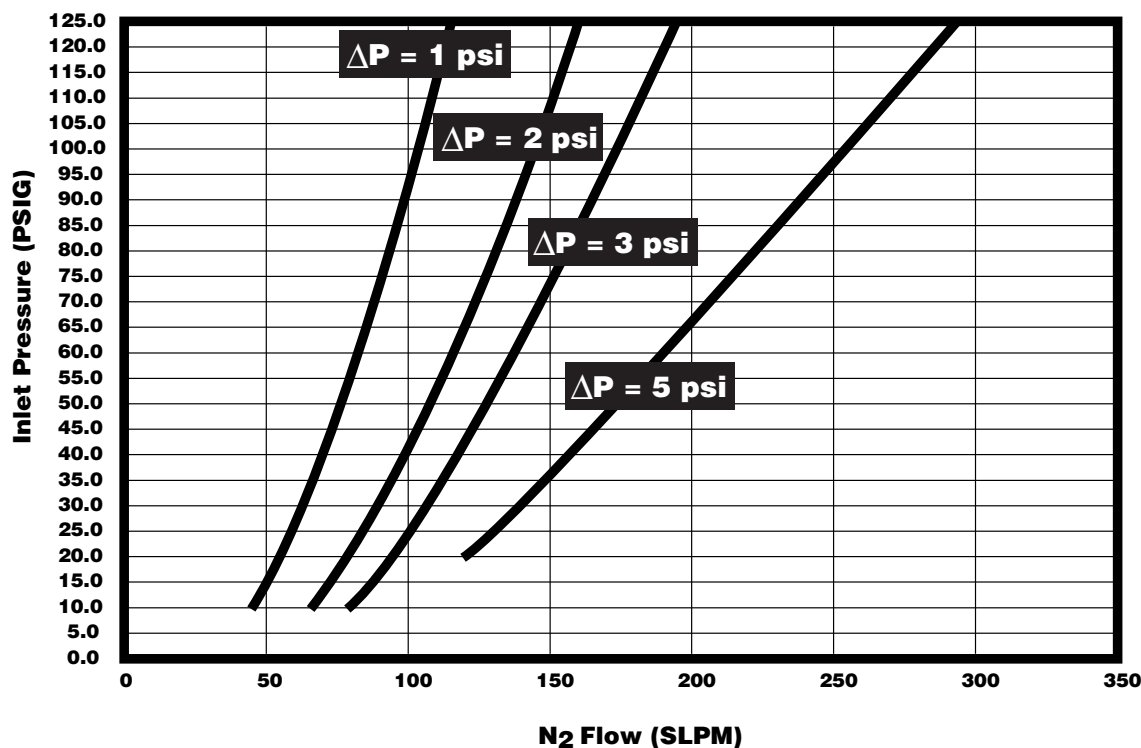


Standard Mounting Hole Pattern

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Flow Curve

.3 C_v Actuator Types



Ordering Information

930 AOPLPNC S FSFM VESP

BASIC SERIES

930

TYPE

AOPLPNC = Air Operated, Low Pressure, Normally Closed

AOPLPNO = Air Operated, Low Pressure, Normally Open

G = Toggle

I = Indicating Handwheel

L = Lever

M = Mini Lever

S = Spin Handwheel

MATERIAL

S = 316L VAR Stainless Steel

H = Hastelloy C-22®

* 1/2" Connections use larger size body, please see dimensional drawings

** LockOut-TagOut Clamp for M Type Valves
LockOut-TagOut Bracket for G Type Valves

*** Not available on I and AOP versions

Hastelloy C-22® is a registered trademark of Haynes International, Inc.

Kel-F 81® is a registered trademark of 3M Company.

Vespe® is a registered trademark of DuPont Company.

Elgiloy® is a registered trademark of Elgiloy Company.

OPTIONAL FEATURES

VESP = Vespe® Seat (For N₂O use)

LK = LockOut-TagOut **

PM = Panel Mount ***

2.3 = 1/4" Fixed Male Face Seal (2 Port Only)

CONNECTIONS

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

FS8MM* = 1/2" Face Seal, Male in-Male out

FS8FF* = 1/2" Face Seal, Female in-Female out

FS8FM* = 1/2" Face Seal, Female in-Male out

FS8MF* = 1/2" Face Seal, Male in-Female out

TS = 1/4" Tube Stub

TS6 = 3/8" Tube Stub

TS8* = 1/2" Tube Stub