QUANUM 955AOPLP



Parker Hannifin Corporation's Veriflo Division presents the Quantum 955 Air-Operated diaphragm valve. The 955AOPLP is ideal for low vapor pressure gasses such as WF6 and BCL3.



features

- ▶ .55 Cv flow capacity.
- "VeriClean" low sulfur high purity 316L VAR Stainless Steel™, which enhances electropolishing, welding, and corrosion resistance.
- Internally threadless and springless.
- ► Fully functional from vacuum to 125 psig.
- ▶ Ideal for low vapor pressure gasses.
- ► Aerodynamic, smooth flow passages.
- Minimum particle generation and entrapment.
- ► High cycle life (including corrosive service).
- ▶ 100% Helium leak tested.
- "Hurricane" cleaning, proprietary cleaning process, removes metallic ions, organic films and surface adhering particles.

Catalog: 4505 LitPN: 25000179 Revision: A • 10/03



materials of construction

Wetted Body "VeriClean", Veriflo's custom high purity type 316L VAR Stainless Steel™, Hastelloy C-22® Seat..... PCTFE, optional Vespel®, PEEK™ Diaphragm..... Elgiloy®or equivalent Non-Wetted Cap316L Stainless Steel Actuator Housing Aluminum operating conditions Maximum operating pressure 125 psig (8.6 barg) Minimum operating pressure..... Vacuum Temperature.....-40°F to 150°F (-40°C to 66°C) Bake out 250°F (121°C) in the open position Actuator pressure..... 60-120 psig (4-8.3 barg) functional performance

Flow capacity $C_V = .55$

(SEMI Flow Coefficient Test #F-32-0998)

standard connectionsAny combination of 1/4" FS male and/or female fittinas:

Tube stubs inlet and outlet: End to end length 2.25 in. (57.1 mm)

Other configurations available as optionsincluding as many as four ports. see Valve Selection Guide

internal volume

3.29 cc (including face seal fittings)

surface finishes

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

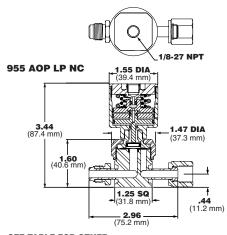
approximate weight

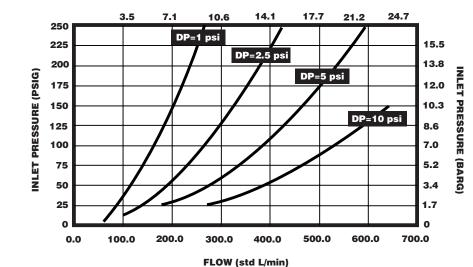
.81 lbs (.36 kg)

QUANUM 955AOPLI

Dimensional Drawing

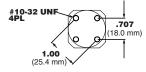
Flow Curve

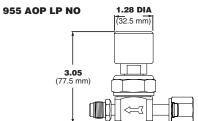




FLOW (SCFM)

SEE TABLE FOR OTHER CONNECTION DIMENSIONS





Connection	End to End Length
1/4" FS	2.96" (75.1 mm) STD
1/4" FS	2.78" (70.6 mm) Optional
1/4" TS	2.25" (57.1 mm) STD
3/8" TS6	2.25" (57.1 mm) STD
1/2" TS8	2.25" (57.1mm) STD
1/2" FS8	4.20 (106.7 mm) STD

Ordering Information

955AOPLP NC S FSMM VESP **BASIC SERIES** + 955AOPLP = 955 Air Operated, Low Pressure TYPE | NC = Normally Closed NO = Normally Open **MATERIAL** = 316L VAR Stainless Steel = Hastelloy C-22® Н Recommended for Nitrous Oxide (N₂0) Service

Note: Refer to Valve Selection Guide for multiple porting selections.

Hastelloy C-22® is a registered trademark of Haynes International, Inc. Vespel® is a registered trademark of DuPont Company. Viton® is a registered trademark of DuPont Elastomers Company. Elgiloy® is a registered trademark of Elgiloy Company. PEEK™ is a registered trademark of Victrex plc.

OPTIONAL FEATURES

BL008 = Bleed Valve .008 Orifice BL015 = Bleed Valve .015 Orifice

Limit Switch PEEK = PEEK™ Seat Vespel® Seat* VESP =

2.78" End-To-End (1/4" FS Only) 2.78

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

