# **QUANUM** 955



Parker Hannifin Corporation's Veriflo Division presents the Quantum 955 Manually Operated diaphragm valve. The 955 provides higher flows in an exceptionally clean, compact device.



### features

- $\triangleright$  .55 C $_{\rm V}$  flow capacity.
- "VeriClean" low sulfur high purity 316L Stainless Steel™, which enhances electropolishing, welding, and corrosion resistance.
- Internally threadless and springless.
- Ideal for low vapor pressure gases.
- Fully functional from vacuum to 250 psig.
- Aerodynamic, smooth flow passages.
- Minimum particle generation and entrapment.
- High cycle life.
- ▶ 100% Helium leak tested.
- "Hurricane" cleaning, Veriflo's 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 Stainless Steel™, Hastelloy® C-22 Seat ....... PCTFE, optional Vespel®, PEEK™ Diaphragm .......... Elgiloy® or equivalent

#### Non-Wetted

#### operating conditions

#### functional performance

Flow capacity . . . . . . . . . . . . .  $C_V$ = .55 (SEMI Flow Coefficient Test #F-32-0998)

Bake out .... 250°F (121°C) in the open position

Design Leak Rate:

Design Proof Pressure........375 psig (26 barg)
Design Burst Pressure.......750 psig (52 barg)

#### standard connections

Any combination of FS male and/or female fittings:

Tube stubs inlet and outlet:

End to end length . . . . . . . . 2.25 in. (57.1 mm)

Note: Other configurations available as options including as many as five ports

#### internal volume

3.29 cc (including face seal fittings)

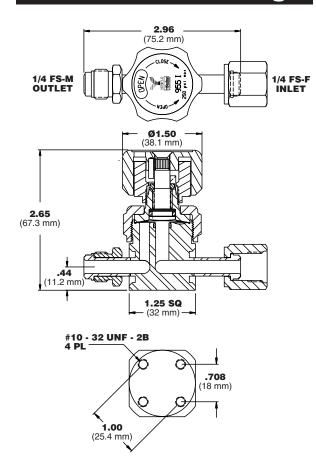
#### **surface finishes**

#### approximate weight

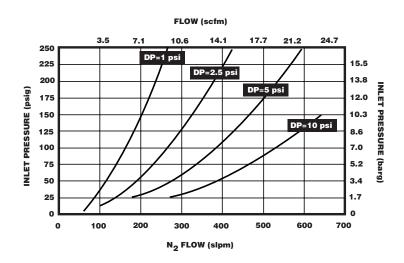
.81 lbs (.36 kg)

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## **Dimensional Drawing**



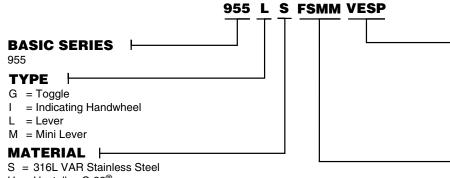
## **Flow Curve**



#### Nitrogen gas was used for flow curves.

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

# **Ordering Information**



H = Hastelloy C-22<sup>®</sup>

TT = Tradiciloy O ZZ

- \* LockOut-TagOut Clamp for M Type Valves LockOut-TagOut Bracket for G Type Valves
- \*\* Not available with Indicating Handwheel (I)

  \*\*\* Recommended for Nitrous Oxide (N<sub>2</sub>0) Service

Note: See Valve Selection Guide for multiple porting selections.

Hastelloy C-22<sup>®</sup> is a registered trademark of Haynes International, Inc. Vespel<sup>®</sup> is a registered trademark of DuPont Company. Elgiloy<sup>®</sup> is a registered trademark of Elgiloy Company. PEK<sup>™</sup> is a registered trademark of Victrex plc.

### **OPTIONAL FEATURES**

BL008 = Bleed Valve .008 Orifice
BL015 = Bleed Valve .015 Orifice
LK = LockOut-TagOut\*
PM = Panel Mount\*\*
VESP = Vespel® Seat\*\*\*
PEEK = PEEK™ Seat

2.78 = 2.78" End-To-End (1/4" FS 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

