

955 Series

UHP Stainless Steel Diaphragm Valve
High Flow, Welded

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

Value Proposition:

The 955 high purity diaphragm valves offer high flow in a compact device. The 955 valves offer a variety of manual operators to fit the customer's system requirements. Both the 955 manual and the Air Operated versions can be used in UHP systems up to 250 psig.

The 955AOP is ideal for low vapor pressure gas delivery systems.



Contact Information:

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Product Features:

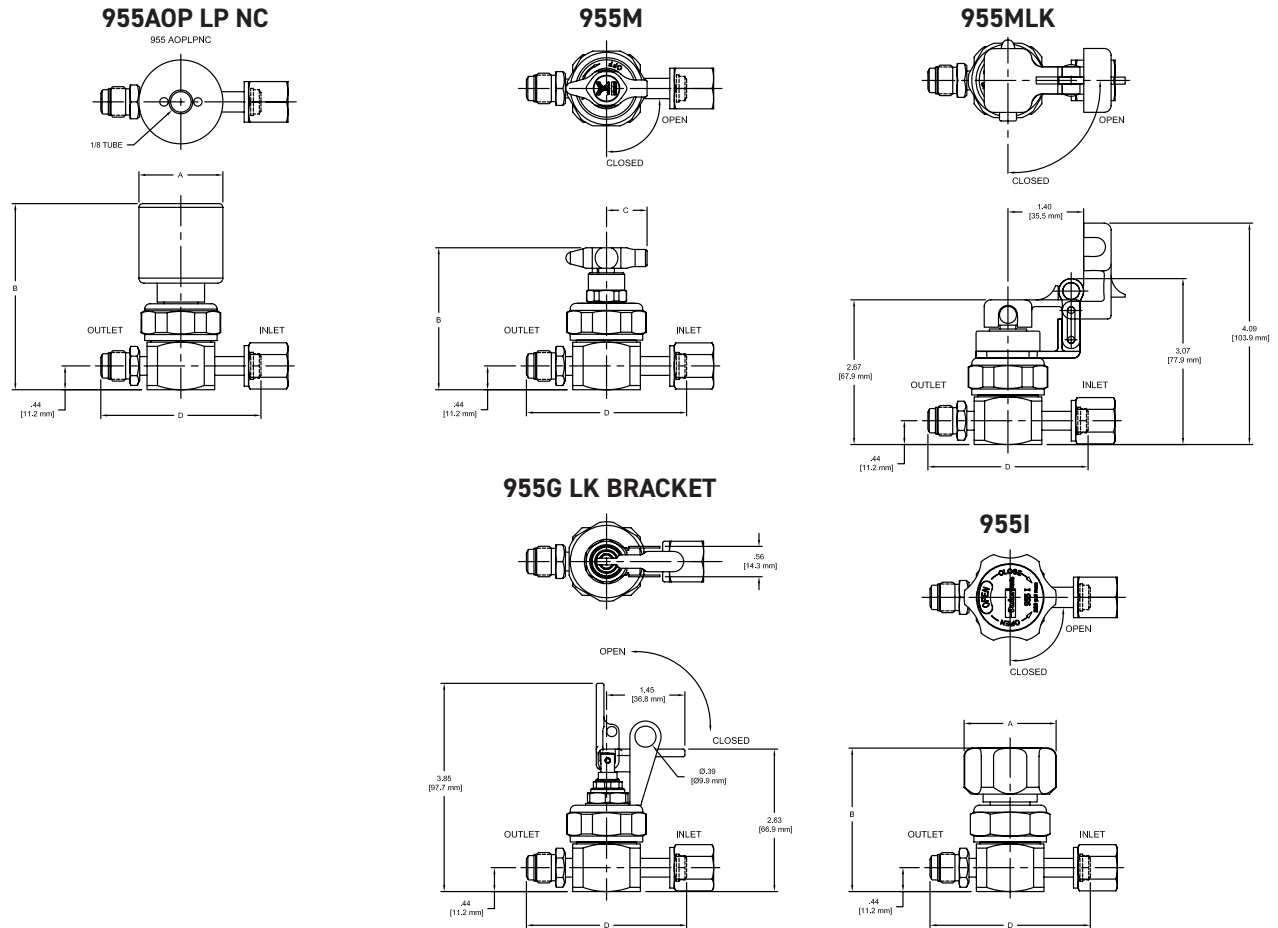
- Standard surface finish of 5 micro inch Ra
- Internally threadless and springless
- Fully functional from vacuum to 250 psig
- High cycle life (including corrosive service)
- 100% Helium leak tested
- Standard full internal electroplish
- Minimal particle generation and particle entrapment areas
- Vericlean™, Veriflo's low sulfur high purity 316L Stainless Steel enhances electropolishing, welding, and corrosion resistance



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Dimensional Drawing



Actuator Style	Actuator Diameter (A)	Height (B)	Lever Radius (C)
AOPLPNC	1.55	3.44	-
AOPLPNO	1.29	3.05	-
G	-	*	-
I	1.70	2.65	-
L	-	2.63	1.75
M	-	2.63	.75
S	2.00	2.90	-

* See dimensional drawing.

Port Style	End-To-End Length (D)
FS	2.96
FS (Optional)	2.30
FS (Optional)	2.78
FS8	4.20
TS	2.25
TS6	2.25
TS8	2.25

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Ordering Information

Build a 955 Series valve by replacing the numbered symbols with an option from the corresponding tables below.

Contact factory for most up to date lead time information.

Blue = Configurations that have selections in blue will require a price quote and lead time from the factory.

Sample: **9** **1** **2** **3** **4** **5** **6**
 55 **L** **S** **FS** **FM** **VESP**
 Finished Order: **955LSFSFMVESP**

1 **Basic Series**
 55 = 955

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

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

2 **Type**
 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*
 G = Toggle
 I = Indicating Handwheel
 L = Lever
 M = Mini-Lever

4 **Port Style**
 FS = 1/4" Face Seal *Standard only when configured as FSFS*
 FS8 = 1/2" Face Seal *Standard only when configured as FS8FS8*
 TS = 1/4" Tube Stub *Standard only when configured as TSTS*
 TS6 = 3/8" Tube Stub *Standard only when configured as TS6TS6*
 TS8 = 1/2" Tube Stub *Standard only when configured as TS8TS8*
Note: *Combinations of Port Style options may have an extended lead time.*
Note: *For Multiport: See 25000178 Valve Selection Guide. All Multiport configurations are Special Order.*

6 **Optional Features**
 This section can have multiple options
 BL008 = Bleed Valve .008 Orifice
 BL015 = Bleed Valve .015 Orifice
 LK = LockOut-TagOut
LK includes LockOut-TagOut bracket for G-Type Valve; LOTO Clamp for M type Valve
 PM = Panel Mount *Not available with Indicating Handwheel (I)*
 PEEK = PEEK™ Seat
 VESP = Vespel® Seat
Recommended for Nitrous Oxide (N2O) Service
 2.3 = 2.3" End-To-End 1/4" FS Only
 2.78 = 2.78" End-To-End 1/4" FS Only

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Specifications

Materials of Construction	
Wetted	
Body	VeriClean™ 316L Stainless Steel
Diaphragm	Elgiloy® or equivalent
Seat Options	PCTFE (std), PEEK™ or Vespel®
Non-wetted	
Cap	17-4 Stainless Steel
Nut	316L Stainless Steel
Actuator Housing	Anodized Aluminum
Operating Conditions	
<i>(Operating limits based upon pressure applied at inlet port.)</i>	
Maximum Pressure	
AOPLPNO, G	125 psig (8.62 barg)
AOPLPNC, I, L, M	250 psig (17.22 barg)
Minimum Pressure	Vacuum
Temperature	-40°F to 150°F (-40°C to 66°C)
AOP Actuation Pressure	75 psig (5 barg) nominal
AOP Air Inlet	1/8" NPT

Functional Performance	
Design	
Proof Pressure	375 psig (26 barg)
Burst Pressure	750 psig (52 barg)
Design Pressure ⁽¹⁾	
AOPLPNO, G	151 psig (10.4 barg)
AOPLPNC, I, L, M	276 psig (19.0 barg)
Flow Capacity	C _v 0.55
Leak Rate	Inboard Test Method
Internal	≤ 1 X 10 ⁻⁹ scc/sec He
External	≤ 2 X 10 ⁻¹⁰ scc/sec He
Surface Finish	5 micro inch Ra
Internal Volume	3.29 cc (including Face Seal Fittings)
Approx. Weight	0.81 lbs. (0.36 kg)

1. Design pressure per KOSHA Guide D-5 - 2012, Para. 6.2

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

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