

945Y Series

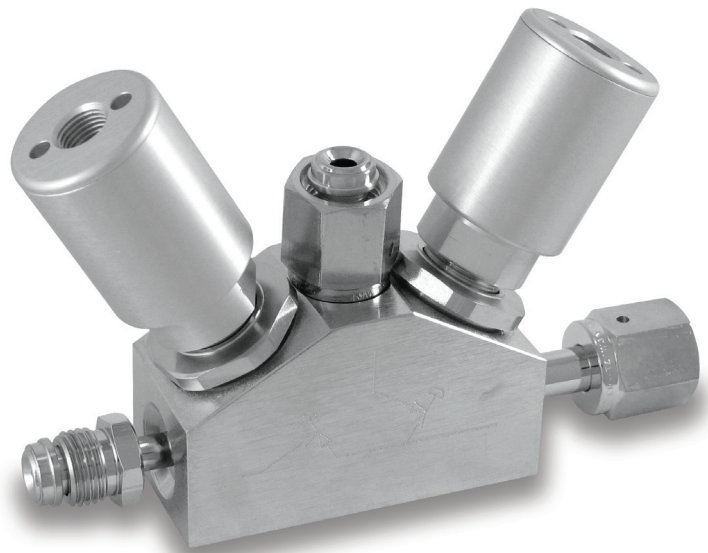
UHP Stainless Steel Diaphragm Valve
High Pressure Manifold

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

Value Proposition:

The 945Y valve offers the same benefits as the standard two way valve. The “Y” valve configuration allows for a mix of operator combinations, reduces space requirements, and has fewer welds over standard valve alignments.

Pressure and flow requirements are unique to each valve in this offering, please reference the two way data sheet to ensure proper selection.



Contact Information:

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Product Features:

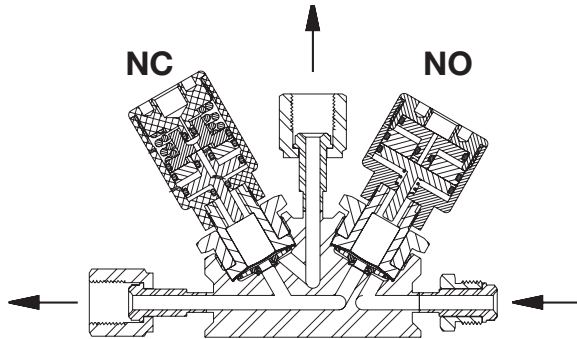
- Standard surface finish of 10 micro inch Ra
- Internally threadless and springless
- Unique compression member which loads the seal uniformly without the need for threaded components or crimping operations
- Fully functional from vacuum to 3500 psig
- 100% Helium leak tested
- Standard full internal electropolish
- 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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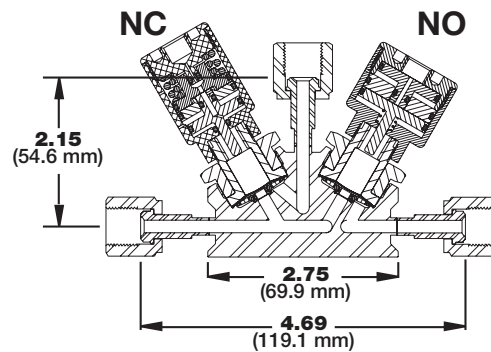
945Y Series

Dimensional Drawings

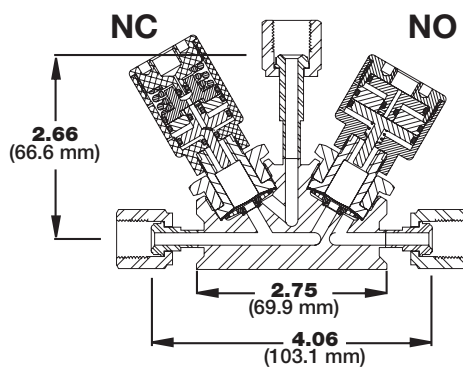
945Y1NO/NCFSMFFA



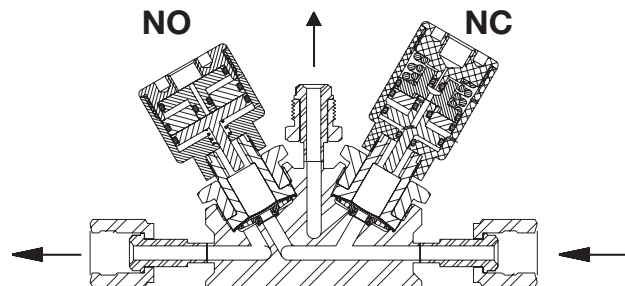
945Y1NO/NCFSFFFA



945Y1NO/NCFSFFFB



945Y2NC/NOFSFMFA



945Y Series

Ordering Information

Build a 945Y 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 may have an extended lead time and a minimum order quantity.

Sample: **9 45Y 1 NC/NO FS MMF VESP A**
 Finished Order: **945Y1NC/NOFSMMFVESPA**

1 Basic Series
 45Y = 945Y

2 Flow Path
 1 = Down Stream Purge
 2 = Up Stream Purge
 3 = Common

3 Activating Device Type (V1/V2)
 HP = Air Operated, High Pressure, Normally Closed
HP can only be used in combination with HP or M actuators
 NC = Air Operated, Low Pressure, Normally Closed
 NO = Air Operated, Low Pressure, Normally Open
 M = Mini-Lever

4 Port Style
 FS = 1/4" Face Seal
 FS8 = 1/2" Face Seal
 TS = 1/4" Tube Stub
 TS6 = 3/8" Tube Stub
 TS8 = 1/2" Tube Stub

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

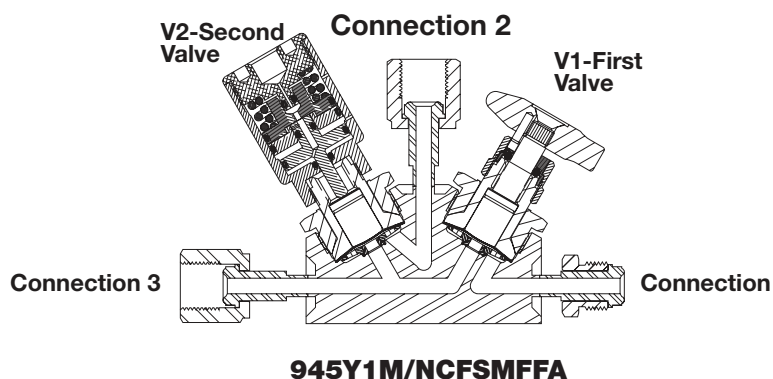
6 Optional Features
 PEEK = PEEK™ Seats
 VESP = Vespel® Seats Recommended for Nitrous Oxide (N2O) Service

7 Dimensions
 Dimensions applicable to all actuating device types except HP. For HP actuating device type dimensions, see table below.
 A = 4.69 x 2.15
 B = 4.06 x 2.66 FSF or TS Only.

DIMENSION TABLE - HP Actuating Device Type

Style	A	A	B
Fitting Type	FS-M	FS-F	FS-F
End-To-End Connection	4.69	4.69	4.06
Vertical Connection	3.75	3.25	3.25

Ordering Example



945Y Series

Specifications

Materials of Construction	
Wetted	
Body	VeriClean™ 316L Stainless Steel
Compression Member	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	
HP, I, M	3,500 psig (241 barg)
NC, NO	125 psig (8.6 barg)
Minimum Pressure	Vacuum
AOP Actuation Pressure	75 psig (5 barg) nominal
AOP Air Inlet	1/8-27 NPT
Temperature	-40°F to 150°F (-40°C to 66°C)

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

Functional Performance	
Design	
Proof Pressure	
HP, I, M	5,250 psig (362 barg)
NC, NO	188 psig (13 barg)
Burst Pressure	
HP, I, M	10,500 psig (724 barg)
NC, NO	375 psig (26 barg)
Flow Capacity	
Process Valve	
HP, NC, NO, I	C _v 0.25
Lever (M)	C _v 0.18
Purge Valve	C _v 0.17
Leak Rate	
Inboard Test Method	
Internal	≤ 1 X 10 ⁻⁹ scc/sec He
External	≤ 2 X 10 ⁻¹⁰ scc/sec He
Surface Finish	
10 micro inch Ra	
Internal Volume	
4.26 cc	
Approx. Weight	
2.1 lbs. (0.98 kg)	

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PEEK™ is a trademark of Victrex plc.

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LitPN: 25000015

Rev: H

Date of Issue 09/2016



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