

16 Series

High Pressure Diaphragm Valve
High Flow, Stainless Steel

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

Value Proposition:

Veriflo Division's 16 Series valves provide a high-flow, positive shut-off for fluid systems.

This 1/2" spring type diaphragm valve offers superior leak integrity for manually and pneumatically actuated applications with pressure ranges from vacuum to 3,000 psig.



Contact Information:

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Product Features:

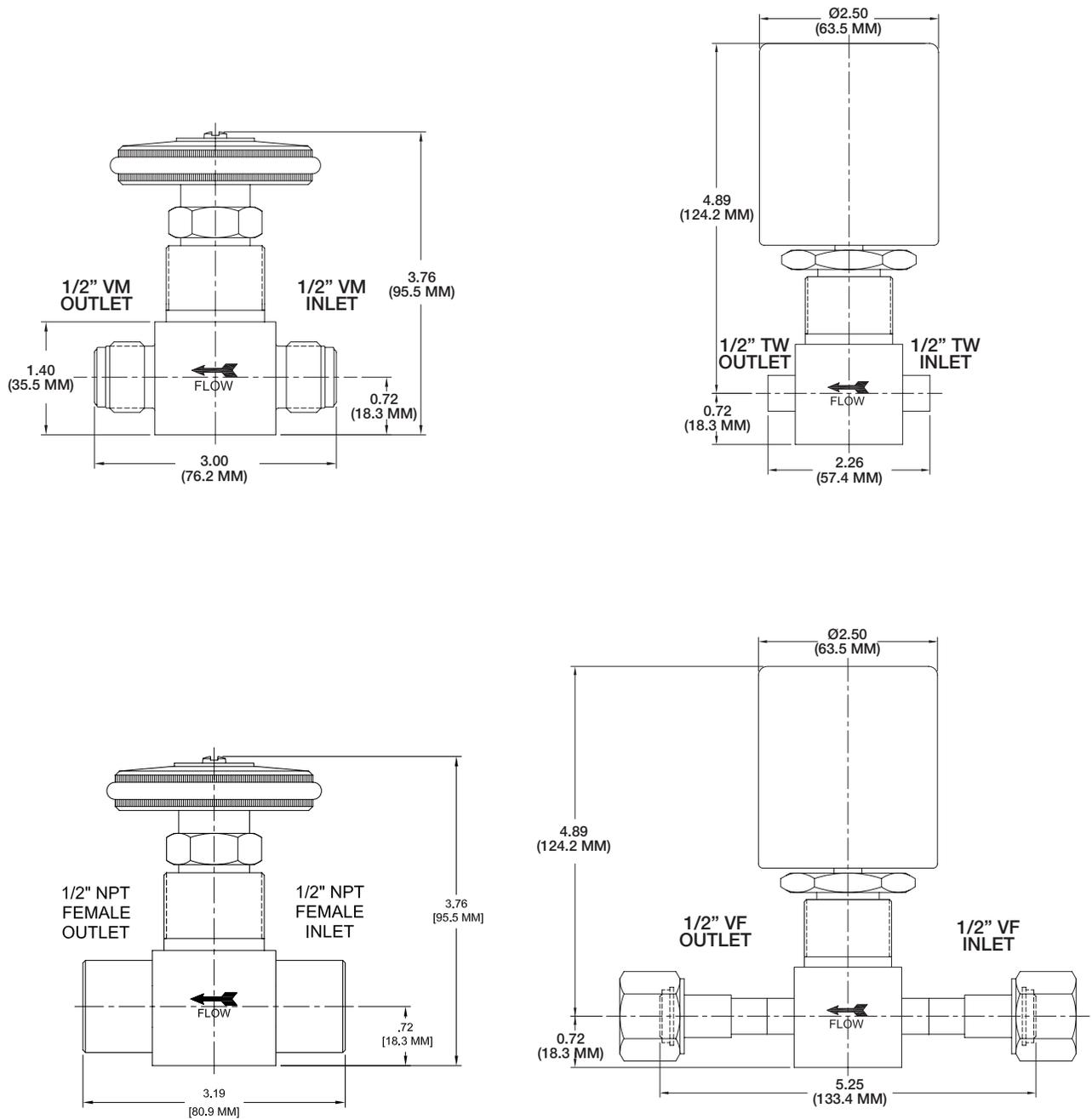
- Metal diaphragm sealed
- Spring type design
- Minimal particle generation
- High cycle life
- Cleaned for O₂ service
- 3,000 psig for both manual and pneumatic styles



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Dimensional Drawings



16 Series

Ordering Information

Build a 16 Series valve by replacing the numbered symbols with an option from the corresponding tables below.

Color Explanations: Black = Standard Lead Time Configurations
Blue = Extended Lead Time Configurations

For an explanation of Ordering options please reference literature 25000275 at www.parker.com/veriflo

Sample:  **93-16**  **88**  **2**  **VMVM**  **-PI**
Finished Order: **93-16882VMVM-PI**

 **1 Basic Series**
16- = Handwheel
93-16 = Pneumatic

 **2 Port Size**
88 = 1/2" Inlet/Outlet

 **3 Body Material**
2 = 316L Stainless Steel

 **4 Inlet/Outlet Connection**
FF = 1/2" NPT Female
TWTW = Tube Stub
VFVF = VacuSeal™ Female
VMVM = VacuSeal™ Male

 **5 Optional Features**
This section can have multiple options
-PI = Vespel® Seat Material
PM = Panel Mount Rings

Additional configurations available upon request

16 Series

Specifications

Materials of Construction	
Wetted	
Body	316L Stainless Steel
Seal Options	PCTFE (std) or Vespel®
Diaphragm	Elgiloy® or equivalent
Lower Stem	316L Stainless Steel
Spring	316 Stainless Steel
Non-wetted	
Manual	
Button	Nitronic-60
Guide Pin	303 Stainless Steel
Upper Stem	Nitronic-60
Bonnet	303 Stainless Steel
Handwheel/O-ring	Aluminum/Neoprene
Handwheel Screw	18-8 Stainless Steel
Handwheel Label	Aluminum
Panel Mount Nuts	303 Stainless Steel
Pneumatic	
Bonnet	303 Stainless Steel
Set Screw	18-8 Stainless Steel
Actuator Housing	Aluminum Polyurethane Paint (Grey)

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

Functional Performance	
Design	
Proof Pressure	4,500 psig
Burst Pressure	12,000 psig
Flow Capacity	C _v 0.3
Leak Rate	
NPT Threaded	
Internal	Bubble Tight
External	Bubble Tight
Welded	
Design Internal	< 2 x 10 ⁻⁸ scc/sec He Inboard Test Method
Design External	< 2 x 10 ⁻¹⁰ scc/sec He Inboard Test Method
Production Leak Test	Outboard Sniffer Probe at 2000 ± 100 psig, 20-25% Helium
Approx. Weight	
Manual	1.85 lbs (0.84 kgs)
Pneumatic	2.65 lbs. (1.20 kgs)
Operating Conditions	
Operating Pressure	Vacuum to 3,000 psig
AOP Actuation Pressure	70 psig min to 125 psig max
Temperature	-65°F to 150°F (-54°C to 66° C)

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VacuSeal™ is a trademark of Parker Hannifin Corporation

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