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:

Parker Hannifin Corporation
Veriflo Division
250 Canal Blvd
Richmond, California 94804

phone 510 235 9590
fax 510 232 7396
veriflo.sales@parker.com

www.parker.com/veriflo
Mobile App: m.parker.com/veriflo

Product Features:

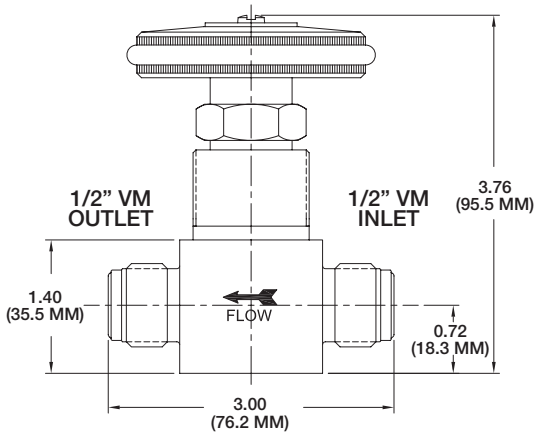
- Metal diaphragm sealed
- Spring type design
- Minimal particle generation
- High cycle life
- Cleaned for O_2 service
- 3,000 psig for both manual and pneumatic styles

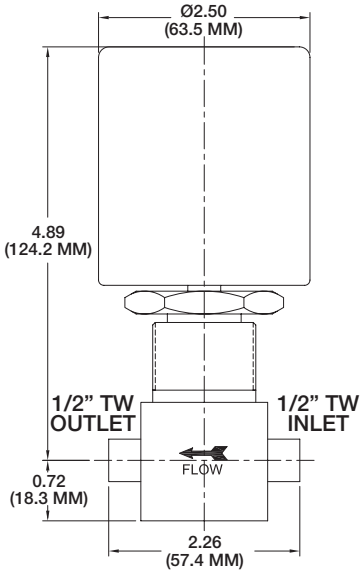
Parker Veriflo

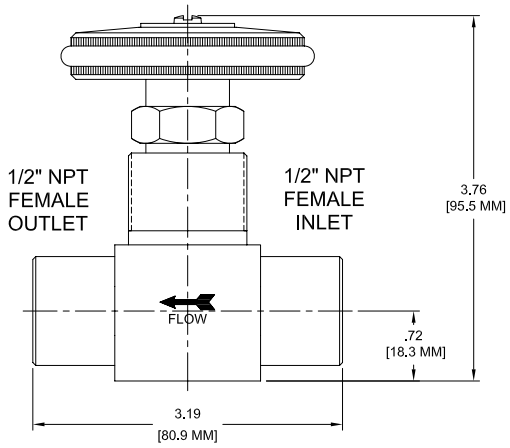
ENGINEERING YOUR SUCCESS.

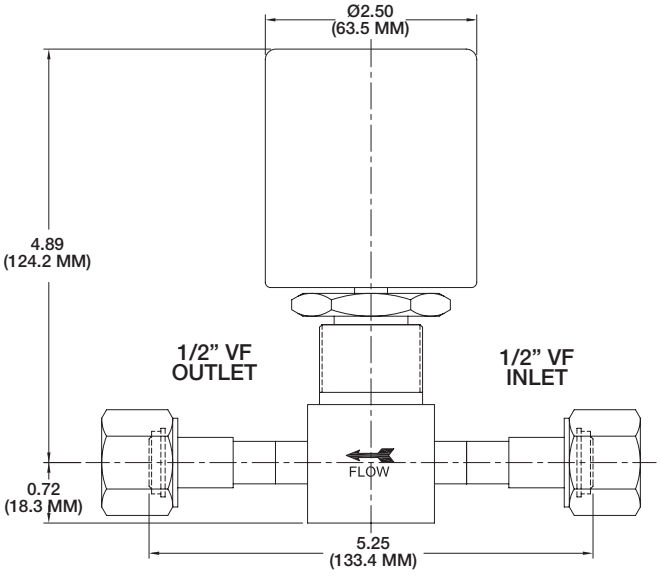
16 Series

Dimensional Drawings









Safety Guide and Installation and Operating Instructions available at
www.parker.com/veriflo

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

	1	2	3	4	5
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	$< 2 \times 10^{-8}$ scc/sec He Inboard Test Method
Design External	$< 2 \times 10^{-10}$ 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)

Vespel® is a registered trademark of DuPont Performance Elastomers L.L.C.
Elgiloy® is a registered trademark of Elgiloy Company
VacuSeal™ is a trademark of Parker Hannifin Corporation

Use mobile device to scan this QR Code.

LitPN: 25000232 Rev: E Date of Issue 03/2013

Parker Veriflo

ENGINEERING YOUR SUCCESS.