

935 Series

UHP Stainless Steel Diaphragm Valve
High Flow

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

Value Proposition:

Parker Hannifin Corporation's Veriflo Division presents the 935 Series 1/2" valve. The 935 provides superior control of gases and liquids under high flow, low pressure conditions where absolute purity is essential. The 935 is a "positive retraction" diaphragm valve — an engineered feature which has reduced the surface area and entrapment potential inherent in bellows valves.



Contact Information:

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Product Features:

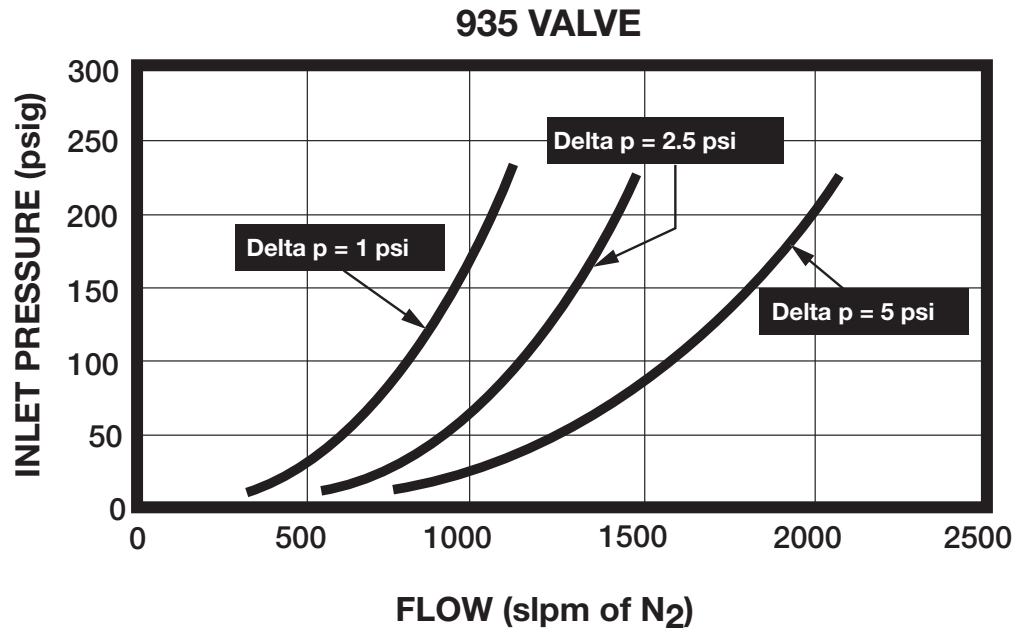
- Standard surface finish of 10 micro inch Ra
- Internally threadless and springless
- Fully functional from vacuum to 300 psig
- Tied diaphragm design for positive retraction
- Serialized and heat code traceable
- 100% Helium leak tested
- Minimal particle generation and particle entrapment areas
- Vericlean™, Veriflo's low sulfur high purity 316L Stainless Steel enhances electropolishing, welding, and corrosion resistance
- Standard full internal electropolish



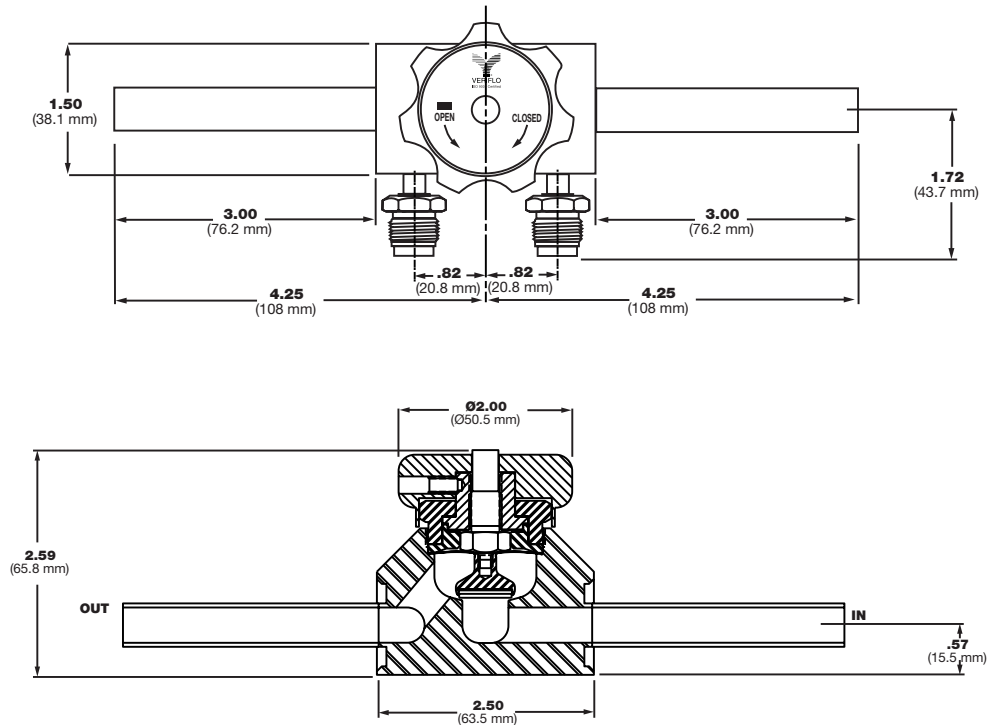
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935 Series

Flow Curve



Dimensional Drawing



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

935 Series

Ordering Information

Build an 935 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: **935**  **FS8**  **MM**  **P2**  **FSM**  **VESP**
Finished Order: **935FS8MMP2FSMVESP**



Connections

- TS = 1/4" Tube
- TS6 = 3/8" Tube
- TS8 = 1/2" Tube *Standard only when configured as TS8TS8*
- TS12 = 3/4" Tube
- TS16 = 1.0" Tube
- FS = 1/4" Face Seal
- FS8 = 1/2" Face Seal
- FS12 = 3/4" Face Seal



Port Configuration

- M = Male
- F = Female



Purge Port Locations

- P1 = Outlet Side
- P2 = Inlet and Outlet
- P3 = Inlet Side
- XY = No Purge Port



Purge Port Connections

- FSM = 1/4" Face Seal Male
- FSF = 1/4" Face Seal Female



Optional Features

This section can have multiple options

- VESP = Vespel® Seat *Recommended for Nitrous Oxide (N2O) Service*
- C1 = Purge port capped and leak tested, per port
- C2 = Face Seal Outlet port capped and leak tested

Consult Factory for additional Handle Colors

935 Series

Specifications

Materials of Construction	
Wetted	
Body	VeriClean™ 316L Stainless Steel
Diaphragm	316L Stainless Steel
Seat Options	PCTFE (std) or Vespel®
Non-wetted	
Stem	416 Stainless Steel
Bushing	Aluminum Silicon Bronze
Knob	Aluminum (Blue)
Operating Conditions	
Maximum Pressure	300 psig (21 barg)
Minimum Pressure	Vacuum
Temperature	
PCTFE	-40°F to 150°F (-40°C to 66°C)
Vespel®	-40°F to 350°F (-40°C to 177°C)
Bake Out	
PCTFE	250°F (121°C)
Vespel®	350°F (177°C)

Functional Performance	
Design	
Burst Pressure	900 psig (62 barg)
Proof Pressure	450 psig (31 barg)
Flow Capacity	C _v 2.8
Leak Rate	
Internal	Inboard Test Method
External	≤ 4 X 10 ⁻⁹ scc/sec He
	≤ 2 X 10 ⁻¹⁰ scc/sec He
Surface Finish	
Standard	10 micro inch Ra
Internal Volume	16.2 cc

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

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

OFFER OF SALE:

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