

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:

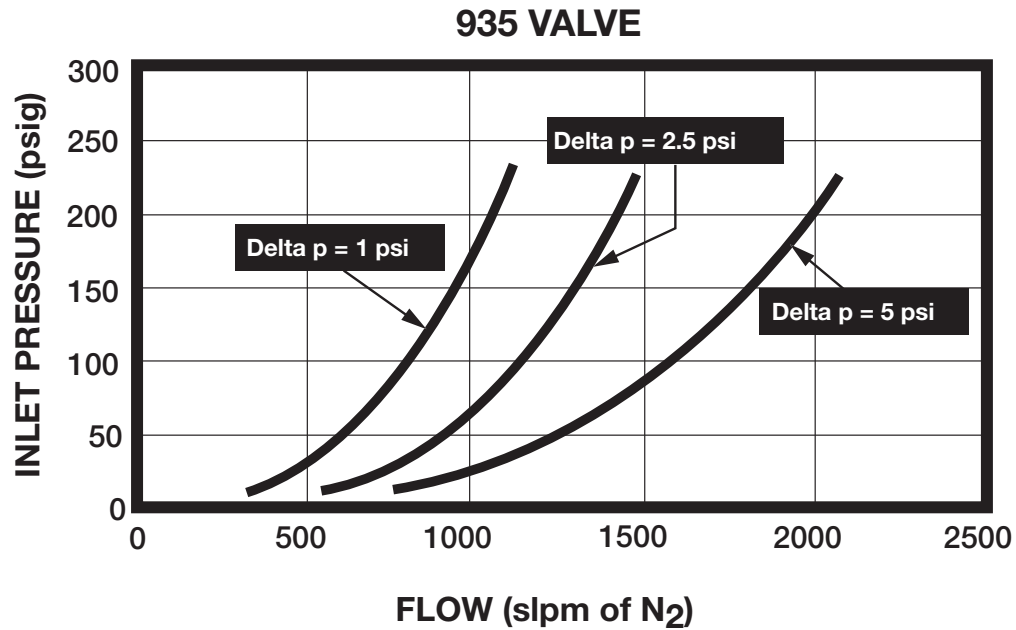
- Standard surface finish of 10 micro inch Ra
- Internally threadless and springless
- Fully functional from vacuum to 300 psig
- Tied diaphragm design for positive retraction
- Serialized and heat code traceable
- 100% Helium leak tested
- Minimal particle generation and particle entrapment areas
-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



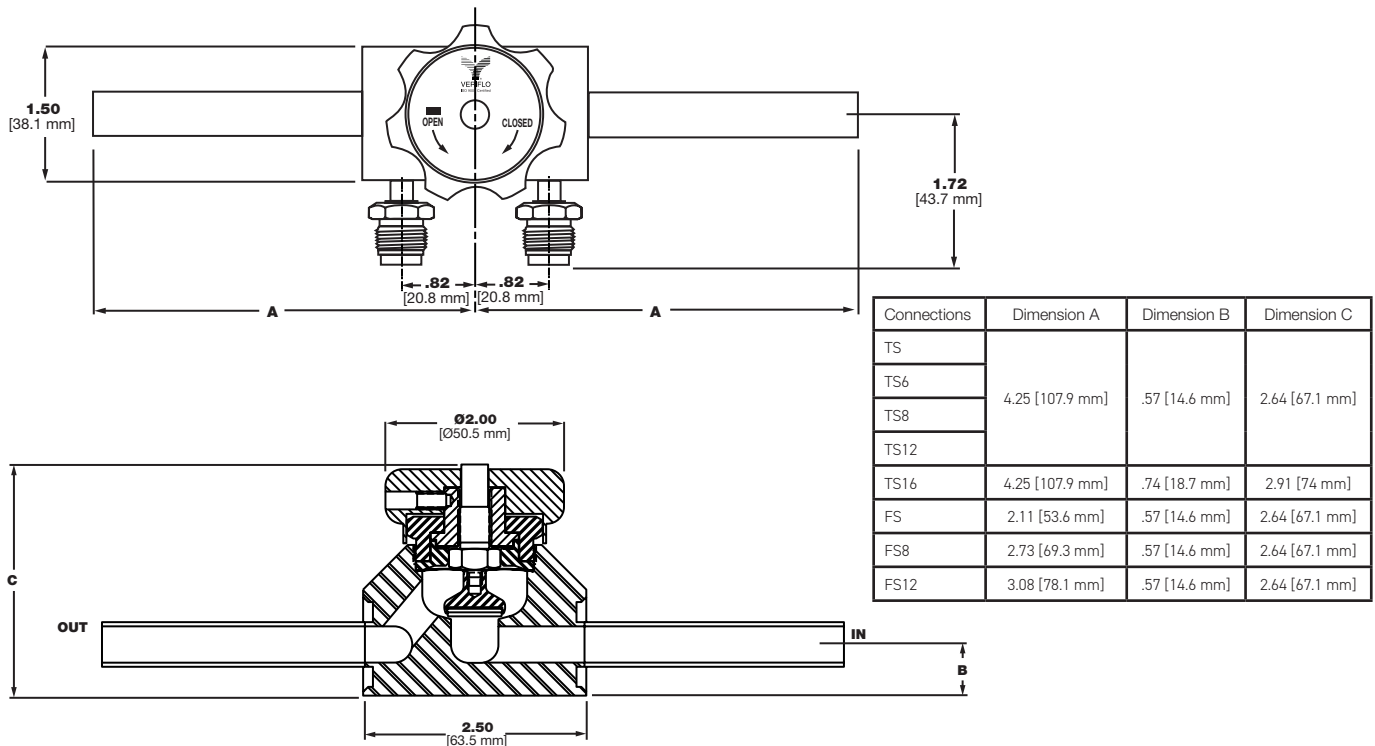
ENGINEERING YOUR SUCCESS.

935 Series

Flow Curve



Dimensional Drawing



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



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Ordering Information

Build an 935 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: **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	Open Position
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	≤ 1 X 10 ⁻⁹ scc/sec He
External	≤ 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:

The items described in this document are hereby offered for sale by Parker-Hannifin Corporation, its subsidiaries or its authorized distributors. This offer and its acceptance are governed by the provisions stated in the detailed "Offer of Sale" elsewhere in this document or available at www.parker.com/veriflo



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