

935A & 935T Series

UHP Stainless Steel Diaphragm Valve
Single & Duplex

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

Value Proposition:

The 935A/T (horizontal cross) 1/2" valve, provides superior control of gases and liquids under high flow, low pressure conditions where absolute purity is essential. The 935A/T is a "positive retraction" diaphragm valve — an engineered feature which has reduced the surface area and entrapment potential inherent in bellows valves.

There are no springs or retaining clips in the gas stream. This pure design yields a valve with neither entrapment zones nor particle generating surfaces.



Contact Information:

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Product Features:

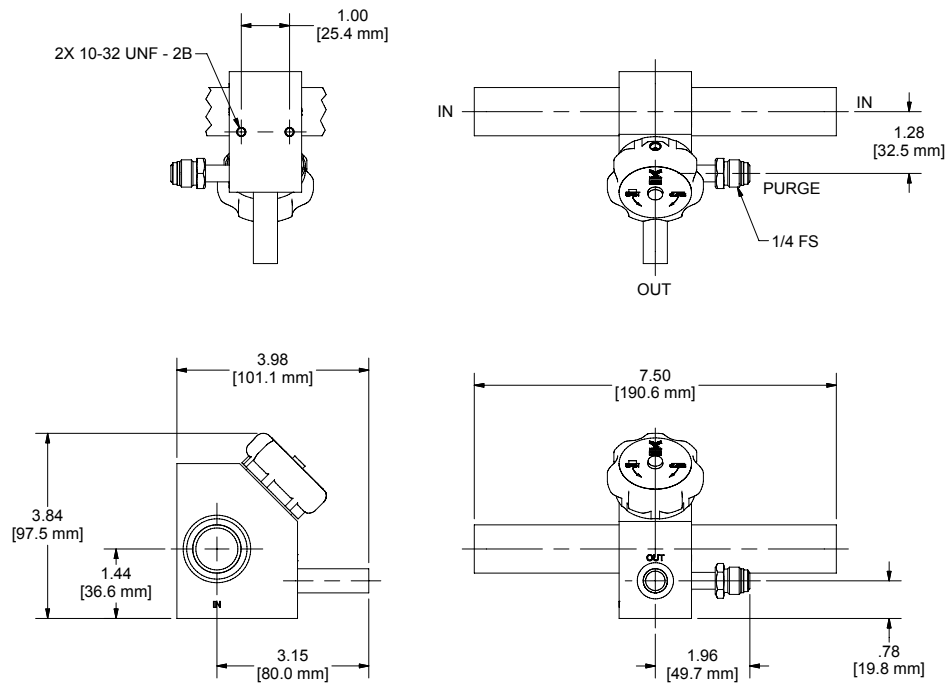
- Standard surface finish of 10 micro inch Ra
- Internally threadless and springless
- Fully functional from vacuum to 300 psig
- Tied diaphragm design for positive retraction
- Serialized and heat code traceable
- 100% Helium leak tested
- Standard full internal electropolish
- Minimal particle generation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

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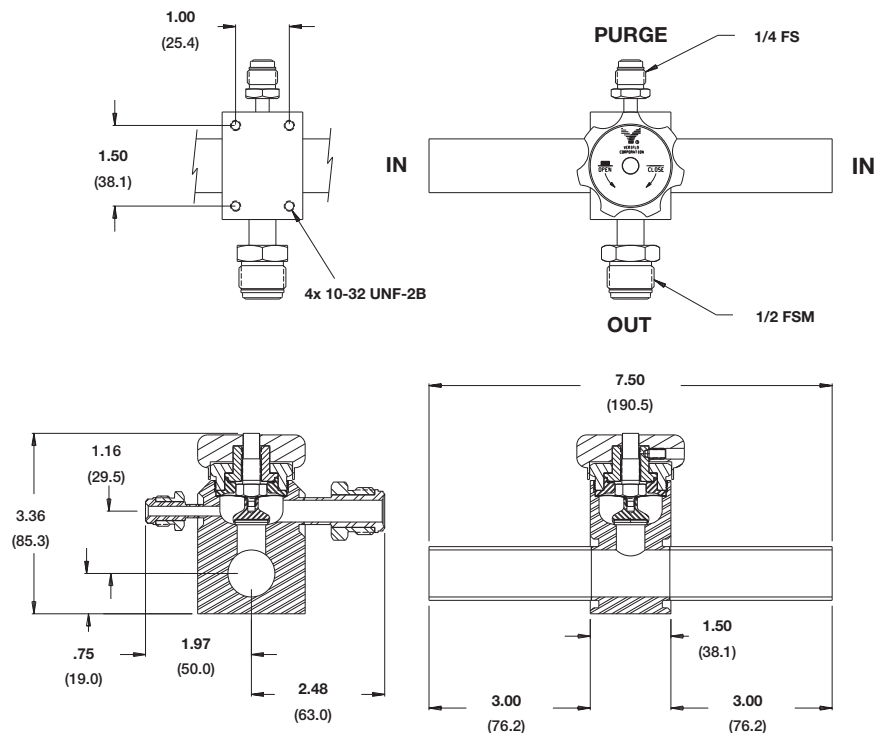
935A & 935T Series

Dimensional Drawings

"A" BODY

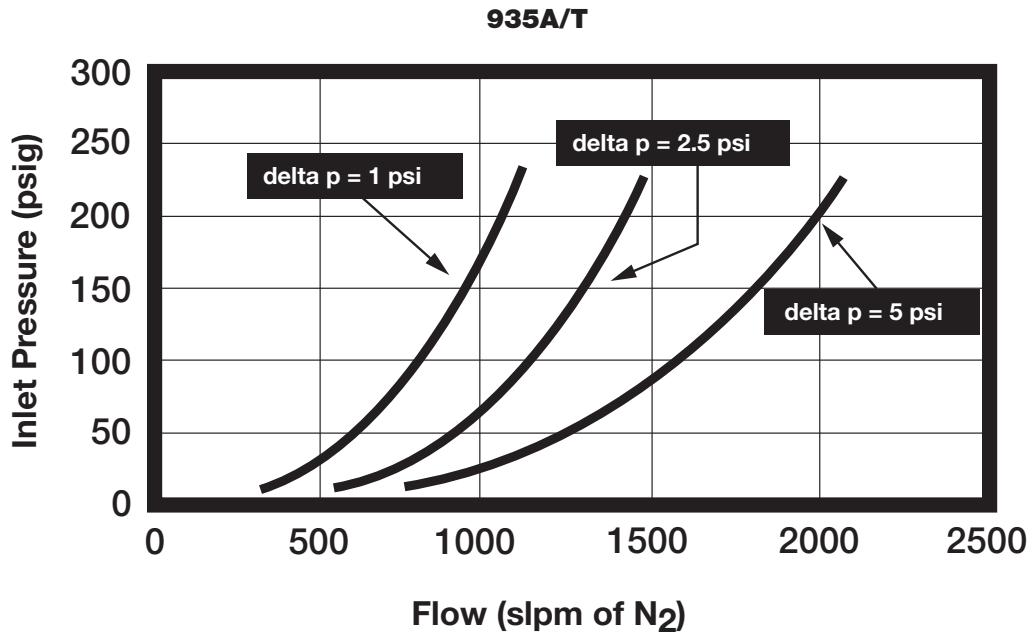


"T" BODY



935A & 935T Series

Flow Curve



Ordering Information

Build a 935A or 935T 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: **935T TS8 FS8 M P1 FSM C1**
Finished Order: **935TTS8FS8MP1FSMVESP**

1 Body Style
935A = "A" Body
935T = "T" Body

2 Inlet Connections
TS8 = 1/2" Tube
TS12 = 3/4" Tube
TS16 = 1" Tube
TS24 = 1-1/2" Tube
TS32 = 2" Tube

3 Outlet Connection
FS = 1/4" Face Seal
FS8 = 1/2" Face Seal
TS = 1/4" Tube
TS6 = 3/8" Tube
TS8 = 1/2" Tube

4 Face Seal Style
M = Male
F = Female

5 Purge Port Location
P1 = Outlet Side

6 Purge Port Connections
FSM = 1/4" Face Seal Male

7 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 *Recommended*
C2 = Face Seal Outlet port capped and leak tested

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Specifications

Materials of Construction	
Wetted	
Body	VeriClean™ 316L Stainless Steel
Diaphragm	316L Stainless Steel
Seal Options	PCTFE (std) or Vespe®
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 65°C)
Vespe®	-40°F to 350°F (-40°C to 177°C)
Bake Out	Open Position
PCTFE	250°F (121°C)
Vespe®	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	Inboard Test Method
Internal	≤ 4 X 10 ⁻⁹ scc/sec He
External	≤ 2 X 10 ⁻¹⁰ scc/sec He
Surface Finish	
Standard	10 micro inch Ra

Vespe® 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.

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