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

935A & 935T Series

UHP Stainless Steel Diaphragm Valve
Single & Duplex

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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Veriflo Division
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Richmond, California 94804

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fax 510 232 7396
veriflo.sales@parker.com

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

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 electroplish
- 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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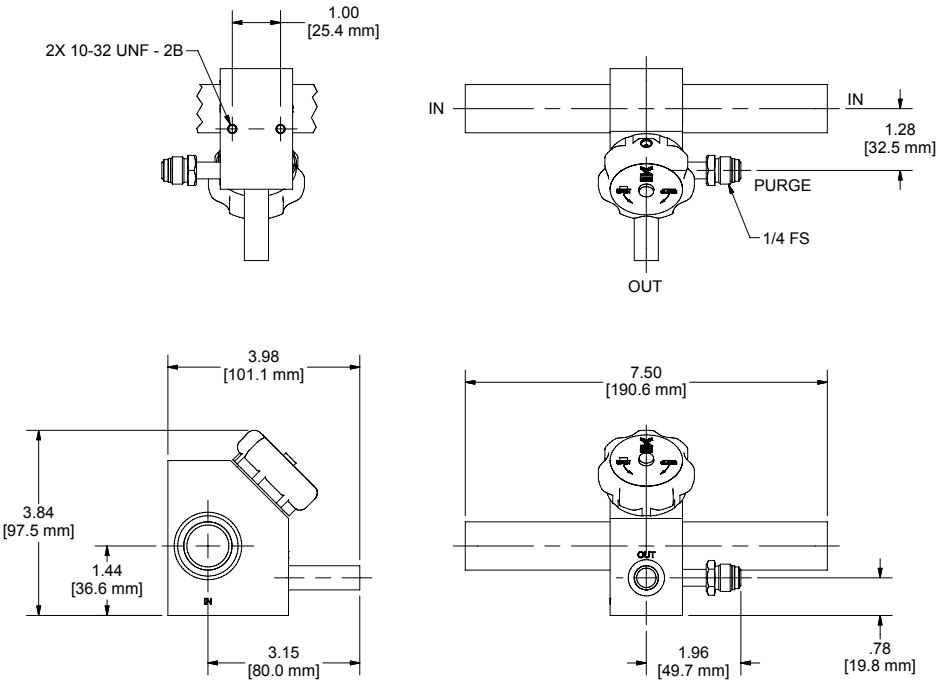
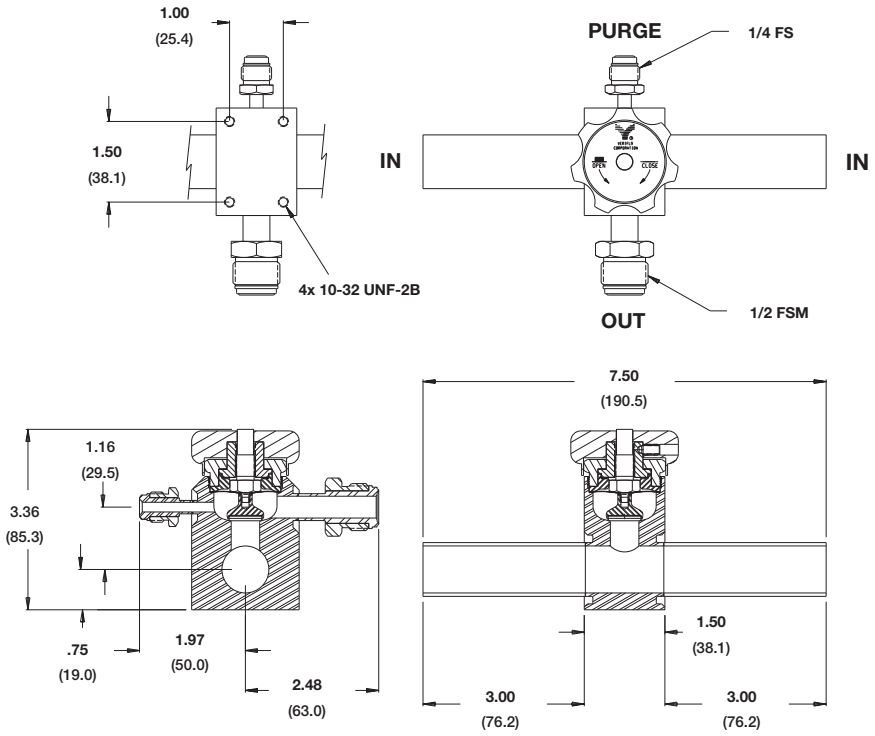
935A & 935T Series

Dimensional Drawings

"A" BODY



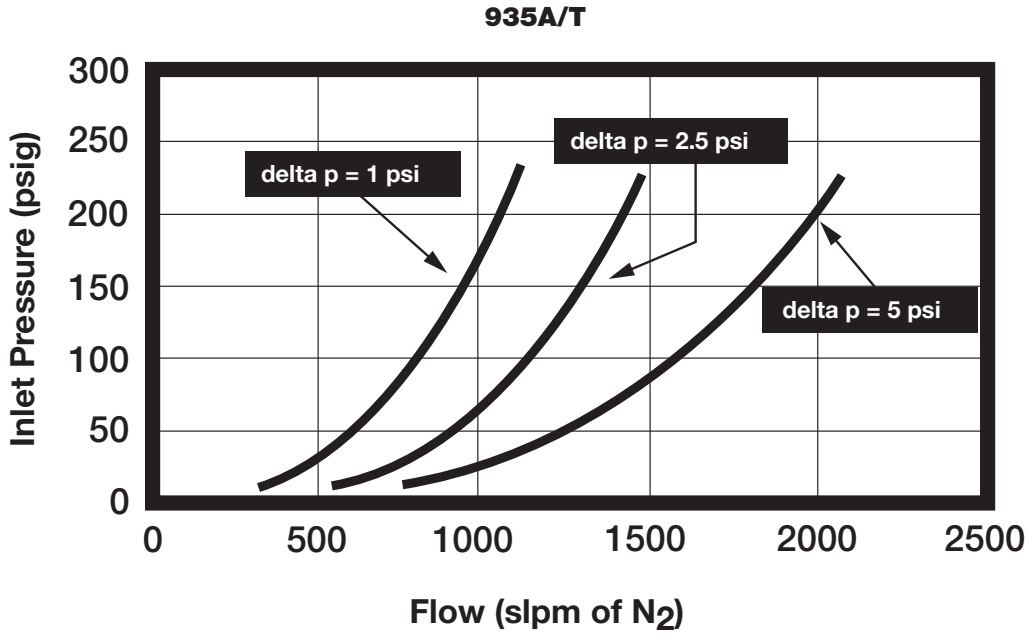
"T" BODY



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

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

	1	2	3	4	5	6	7
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

935A & 935T Series

Specifications

Materials of Construction	
Wetted	
Body	VeriClean™ 316L Stainless Steel
Diaphragm	316L Stainless Steel
Seal 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 65°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)

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

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

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

LitPN: 25000010 Rev: B Date of Issue 04/2013

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