

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:

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:

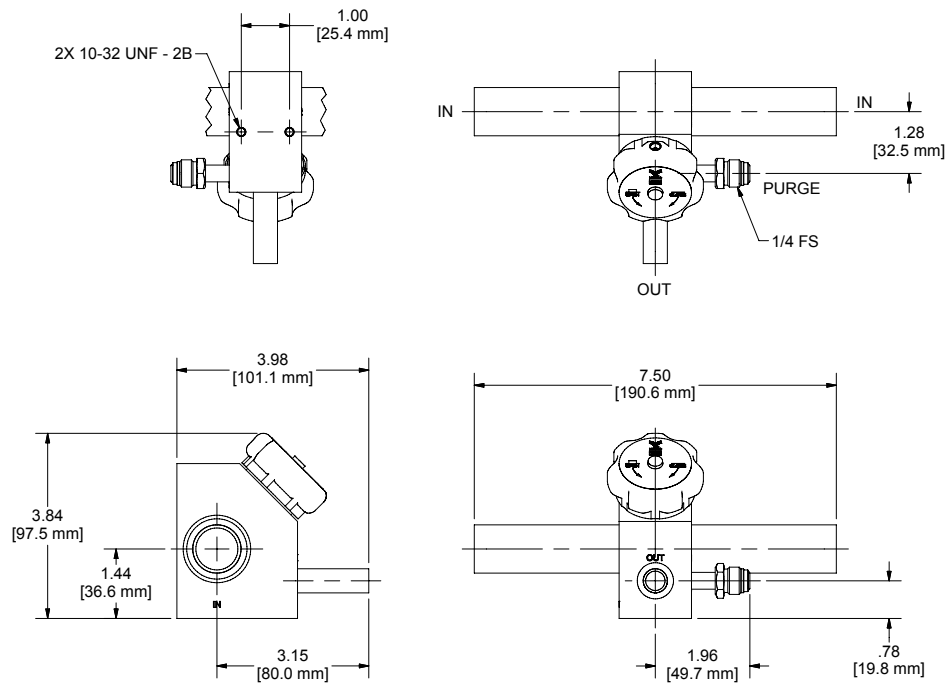
- Standard surface finish of 10 micro inch Ra
- Internally threadless and springless
- Fully functional from vacuum to 300 psig
- Tied diaphragm design for positive retraction
- Serialized and heat code traceable
- 100% Helium leak tested
- Standard full internal electropolish
- Minimal particle generation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

ENGINEERING YOUR SUCCESS.

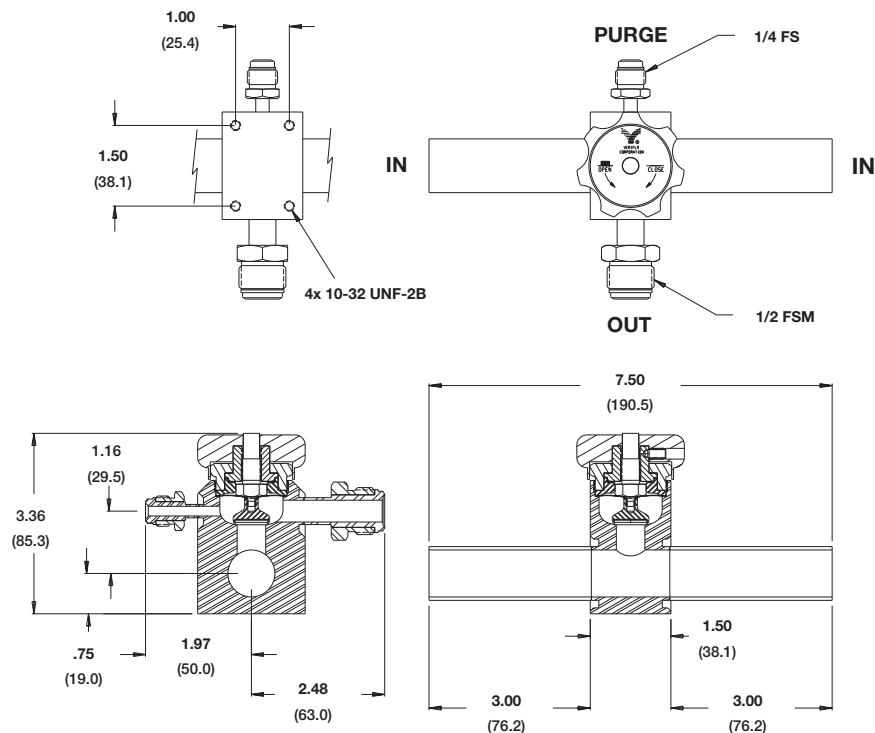
935A & 935T Series

Dimensional Drawings

"A" BODY

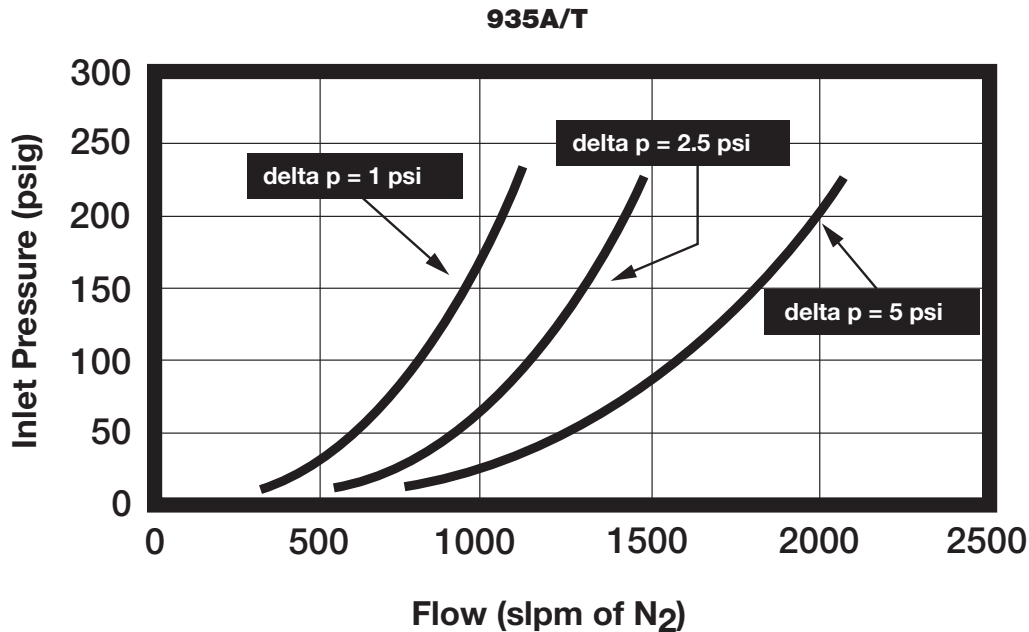


"T" BODY



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.

Contact factory for most up to date lead time information.

Blue = Configurations that have selections in blue will require a price quote from the factory.

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

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 VespeI®
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)
VespeI®	-40°F to 350°F (-40°C to 177°C)
Bake Out	Open Position
PCTFE	250°F (121°C)
VespeI®	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

VespeI® 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



WARNING USER RESPONSIBILITY

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE. THIS DOCUMENT IS FOR REFERENCE ONLY. PLEASE CONSULT FACTORY FOR LATEST PRODUCT DRAWINGS AND SPECIFICATIONS

This document and other information from Parker-Hannifin Corporation, its subsidiaries and authorized distributors provide product or system options for further investigation by users having technical expertise.

The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application, follow applicable industry standards, and follow the information concerning the product in the current product catalog and in any other materials provided from Parker or its subsidiaries or authorized distributors.

To the extent that Parker or its subsidiaries or authorized distributors provide component or system options based upon data or specifications provided by the user, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the components or systems.

The products described herein, including without limitation, product features, specifications, designs, availability and pricing are subject to change by Parker Hannifin Corp and its subsidiaries at any time without notice.

Proposition 65 Warning: This product contains chemicals known to the state of California to cause cancer or birth defects or other reproductive harm.

© 2009 Parker Hannifin Corporation



Use mobile device to scan this QR Code.

LitPN: 25000010

Rev: D

Date of Issue 03/2017



ENGINEERING YOUR SUCCESS.