# "S" Series Needle/Gauge Valves



Autoclave Engineer's "S" Series needle and gauge valves have been engineered to provide reliable service and versatility in meeting specific process requirements. Valve heads are installed in hard and soft seat models of various body designs to accommodate the process control, flow measurement and mounting requirements of specific applications.

Standard valve assemblies with optional stems, seals and materials are available. Standard pressure rating is 6000 psi (414 bar) and 10,000 (690 bar) designed to 4 times safety factor.



Fluid Components
Division of Snap-tite, Inc.

### **Quality:**

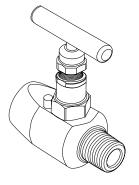
- ISO 9001
- 100% Pressure Tested
- Material Traceability
- Manufactured to NACE, ASME, DIN, etc.

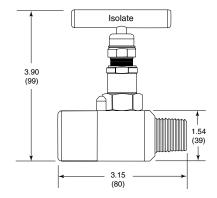
#### **Features:**

- Bar Stock Construction
- Non-rotating Ball Stem
- Hard or Soft Seat
- Anti-blowout stem
- Bubble Tight Back Seal
- PTFE or Graphite Seals
- Oxygen Service Option
- Color-coded Valve Designation
- Metering Stem Option

## **Isolation Valve MNPT In FNPT Out**

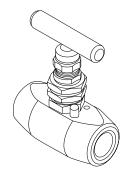
Model Number SI-M4F4TXXSXS

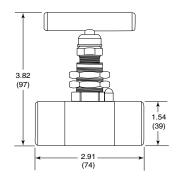






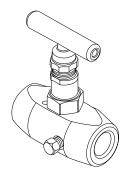
## **Female Panel Mounting Needle Valve |**Model Number SI-F4F4TXXSXS

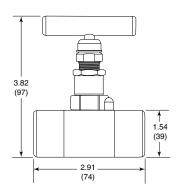


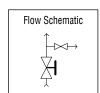




## FNPT Screwed Bleeding Gauge Valve | Model Number SI-F2F2TBMSXS

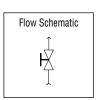


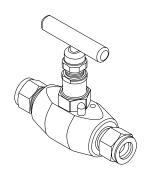


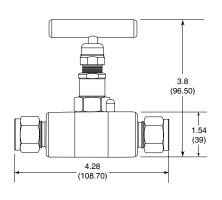


## **Isolation Valve with Tube Connection Ends**

Model Number SI-T8T8TXXSXS



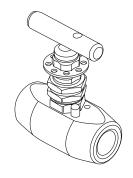


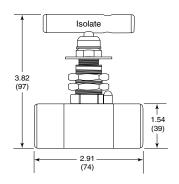


#### Series "S" Valve Type **Options** I - Isolation Valve 2 - Oxygen Cleaned 2R - Remote Mount 2-Way PM - Panel Mount IB- Isolate with Union Bonnet 316 - All 316 SS IDB - Double Isolate/Union Bonnet ST - Soft Seat PTEF 2B - 2-Way with Union Bonnet SD - Soft Seat Delrin IDC - Dual Channel Gauge Valve 50 - Inlet Extension Adder 66 - Inlet Extension Adder 12M - Inline Two Way Manifold 79 - Inlet Extension Adder **Connection Inlet** 100 - Inlet Extension Adder 134 - Inlet Extension Adder F - Female NPT 185 - Inlet Extension Adder M - Male NPT HL - Handle Lock S - Socket Weld Q - 1/4" Bleed Plug in Vent Bleed Port B - Butt Weld Trim Contact Factory for Weld Ends M - Metering Tip **Connection Size** 4 - Monel 400 **7** - 17-4 PH **2** - 1/4" 3 - 3/8" Material **4** - 1/2" S - 316 SS **5** - 5/8" L - 316L NACE 6 - 3/4" **C** - C276 **Connection Outlet** M - Monel 400 I - Inconel 718 F - Female NPT K - Carb Steel M - Male NPT S - Socket Weld **Pressure Rating** B - Butt Weld Contact Factory for Weld Ends X - 6,000 psi Standard E - 10,000 psi Design **Connection Size Handle Type** 2 - 1/4" **3** - 3/8" S - Standard Tee **4** - 1/2" T - Tamper Proof Isolation **5** - 5/8" V - Tamper Proof Vent **6** - 3/4" A - All Tamper Proof K - Knobs on all **Bleed/Vent Size** X - No Bleed M - M8 Metric 2- 1/4" NPT 4 -1/2" NPT **Bleed/Vent Requirement** X - No Bleed B - Single Bleed P- Bleed & Plug V - Vent **Packing Seal** T - Teflon G - Graphite 1. Stems are ball stem design only 2. K option-50 piece minimum **G** after the connection size means the connection is BSP Parallel **R** after the connection size means the connection is BSP Taper eg: 1/2" NPT Male/Female Valve SI-M4F4TXXSXS 1/2" BSP Parallel Male/Female Valve SI-M4GF4GTXXSXS



Model Number SI-F4F4TXXSXS-PMHL

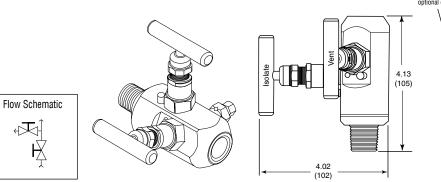


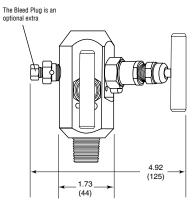




## | MNPT Remote Mount 2-Way Manifold |

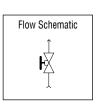
Model Number S2R-M4F4TVXSXS

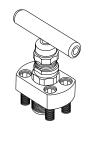


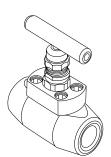


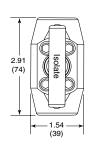
## **FNPT Union Bonnet Isolation Valve**

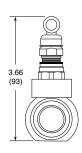
Model Number SIB-F4F4TXXSXS





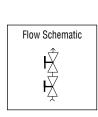


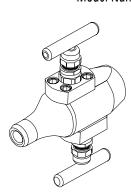


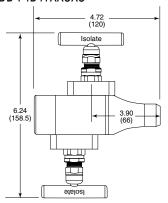


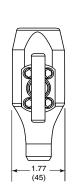
## **Double Isolating Union Bonnet Needle Valve**

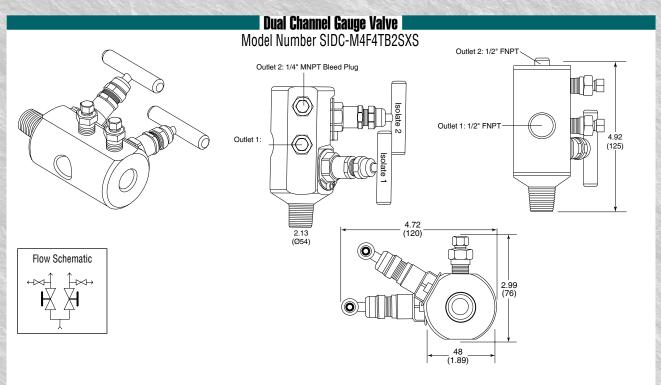
Model Number SIDB-F4B4TXXSXS

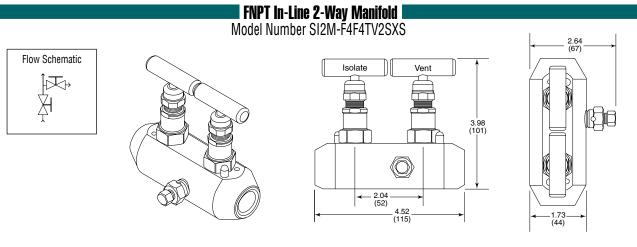


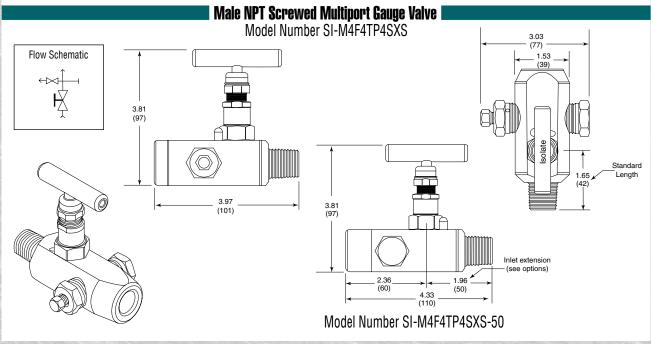




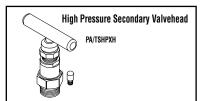


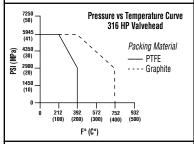






### **HP Secondary Valvehead (PA/SHPXH)**





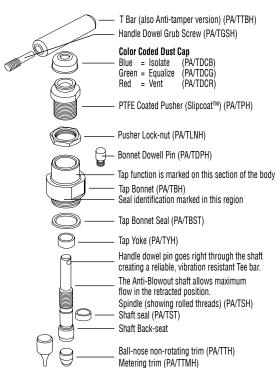
Notes: The stuffing box is self adjusting an requires no maintenance. In low pressure applications the pusher may need to be tightened by loosening the Locknut and turning the pusher clockwise one or two flats only, making sure that the valve is in the open positions.

Pressure Rating:

PTFE 6,000 psi (41.4 MPa) @ 212°F (100°C) PTFE 6,000 psi (41.4 MPa) @ 392°F (200°C)

The High Pressure Secondary Valvehead has a safety margin of 4 times

The S Series valve has a fully articulated, back-sealing, antiblowout spindle whose pusher is grey in appearance because it is coated with a PTFE compound. Normally supplied with a T-Bar handle this unit is also available with a Tamper Proof drive mechanism.



PA/TGSH	Grub Screw	H = 316SS
PA/TTBH	T-Bar	H = 316SS
PA/TDCR	Dust Cap	R-Red G-Green B-Blue
PA/TPH	Pusher	H = 316SS
PA/TLNH	Lock Nut + Spacer	H = 316SS
PA/TYH	Yoke	H = 316SS
PA/TSH	Spindle	H = 316SS
PA/TST	Shaft Seal	T-PTFE G-Graphite
PA/TBH	Bonnet	H = 316SS
PA/TDPH	Dowell Pin	H = 316SS
PA/TBST	Bonnet Seal	T-PTFE G-Graphite
PA/TTH	Trim	H = 316SS

**Notes:** <sup>1</sup> The Tap Pusher is grey in appearance as it is plated Slipcoat, a PTFE lubricating coating.

The Valvehead (tap) is permanently engraved and also color coded. Details highlighted are the valve's function and the stuffing box seal material. An A number code (All element traceability or Heat Code) and the general material of construction is stamped on the main manifold body indicating wetted part materials. Information pertinent to the seals can be found in the general part number or by locating the letter T or G engraved on the Bonnet.

Flange seals will be supplied in the same material as the stuffing box seals.

#### ! WARNING!

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

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