

# *Sullivan & Sons*

INSTRUMENTATION VALVES



[www.sullivanandsons.com](http://www.sullivanandsons.com)

## Engineering Services

Sullivan and Sons, Inc., offers a wide range of engineering services. Our expertise can help you through each stage, including conception, design, construction, start-up, and operations maintenance.

Consulting

Valve Sizing

- Valve and Instrument Specifications
- Mass Flow and Density Sizing
- Start-up



## S&S Flow Test & Calibration services

### Need Repairs and/or Calibration?

Our full service/repair facility is equipped to provide all your instrumentation or control valve calibration needs. These services come standard with all of the products we sell. All calibrations done by Sullivan and Sons, Inc., are traceable to standards established by the National Institute of Standards and Technology (NIST).

### Need your meters flow tested?

A partnership with an independent flow lab enables each flow product to be proved and certified by technicians specializing in flow calibrations using state-of-the-art calibration and proving equipment. Also, as the only accredited aftermarket MicroMotion® meter calibration facility in the USA, the lab is uniquely qualified to calibrate any coriolis meters.



## SS 4160 Pressure Controller

The 4150/4160 pressure controller compares a sensed process pressure with an operator adjusted set point and sends a pneumatic signal to an adjacent control element that maintains the process pressure at or near the set point value.



# S&S Control Valves & Accessories

## SS 310 Volume Booster

The 310 volume booster relay is used in conjunction with a positioner to increase stroking speed. Adjustment is critical for system stability. This adjustment allows for small input signal changes without sacrificing accuracy. It also allows high-volume output for fast stroking when large input signal changes occur.



## SS940 I/P Converter

SS940 I/P Converter accurately converts a 4-20 ma input signal to a 3-15 psig or 6-30 psig output signal.

Features:

- High accuracy
- Simple zero and span adjustment
- Feedback Signal (optional)
- Explosion proof



## SS 4800 Smart Positioner (Explosionproof)

A high accuracy Hart protocol smart valve positioner. Uses a 4-20ma input signal.

Features:

- Auto Calibration
- Auto/Manual switch
- LCD display
- PID Control
- Feedback Signal
- Limit Switches
- Hart Protocol
- 4 button local control
- Ex d IIC T6/T5



# S&S Control Valves & Accessories

## S&S HPB Globe and Angle Style Control Valves

S&S HPB are designed for high pressure applications in the process industry. Valves are cage guided, with metal seats and quick change trim. Balanced plugs are push down to close.

Sizes	2", 3", 4" & 6"
Pressure Classes	ASME Class 900-2500
End Connections	Raised Face, Ring Type Joint, NPT, or welded flanges.
Body Materials	LCC, WCB, WCC, and CF8M (SST), Others on request
Flow Characteristics	Linear, Equal percentage and Quick opening
Shutoff	Class II & V



## S&S BD, BT & BZ Globe Style Control Valves

The S&S BD, BT & BZ are single port, globe style bodies with composition or metal seats, and a balanced valve plug with "push down to close" action. The S&S BD & BT are intended for general control applications over a wide variety of temperature and pressure drops. The S&S BZ is an unbalanced valve featuring a single port quick change trim available in a wide variety of port sizes and materials.

Sizes	BD & BT available in 1"-8" BZ available in 1" – 4"
Pressure Classes	ASME Class 150, 300 and 600
End Connections	RFF, RTJ, SWE, NPT and BWE
Body Materials	LCC, WCB, CF8M (SST), Others on request
Flow Characteristics	Linear, Quick Opening or Equal Percentage
Shutoff	BT: ANSI Class IV & V; BD: ANSI Class II & III, BZ: ANSI Class IV



## S&S D Series Globe and Angle Style Control Valves

The S&S D Series is a single port, screwed-in metal seated globe style valve, with an unbalanced post-guided plug, and "push down to close" plug action for use in high pressure applications. The S&S D valve is especially useful for throttling or on/off control of liquids or gases.

Sizes	1" & 2"
Pressure Classes	ASME Class 150-2500
End Connections	S&SD: cast integral flanges, welded flanges, screwed or socket weld connections; S&SDA: welded flanges, screwed or socket welded end connections
Body Materials	LCC, WCB, CF8M (SST), Others on request
Flow Characteristics	Equal percentage
Shutoff	Class IV and V



# S&S Control Valves & Accessories

## SS V-100 Rotary Control Valves

The SS V-100 Ball Valve design utilizes a standard ball with a triangular shaped wedge formed in it. This design allows for both throttling control and on/off service used in conjunction with a variety of actuators.

Sizes	2-12"
Pressure Classes	ASME Class 150, 300 & 600
End Connections	Wafer Style (flangeless)
Body Materials	LCC, WCB, CF8M (316SS), Others on request
Flow Characteristics	Modified equal percentage with forward flow into the convex side of the V-ball
Shutoff	Class IV



## SS25 Vport Trunnion Ball Valve

- Sizes - 2"-16"
- Ansi 150# thru 600# Pressure Class
- Uni-Directional
- Low Hysteresis
- Carbon Steel and 316SST body material available
- Excellent Control



## S&S Valve Trim, Packing & Gaskets

S&S manufactures valve trim for all of our valves as well as replacement trim for Fisher® valves. We offer plugs, stems, seats, cages as well as guide bushings, gasket sets, packing sets, diaphragms and soft goods.





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