



W72 RSP Double Seat Mix Proof Valves for Particulates

Application:

The W70 Series Mix Proof Valves for products containing large particulates.

- Gravies
- Stews
- Sauces
- Chunky soup or salsa

Materials:

Product Wetted: ASTM 316L (UNS-S31603); (DIN-1.4404)
 Non-Product: ASTM 304 (UNS-S30400); (DIN-1.4301)
 Seat: Tri-Ring Compression Seal Upper Stem, Radial Seal Lower Stem
 Elastomers: EPDM or FKM (Fluoroelastomer)
 Finish: $\leq 32 \text{ Ra}$ ($\leq 0.8 \mu\text{m}$) *Other finishes available upon request.*

Pressure Ratings:

Operating Pressure: 3" O.D. Tube = 150 psig (10.3 bar)
 4" O.D. Tube = 150 psig (10.3 bar)
 Holding Pressure: 150 psig (10.3 bar)

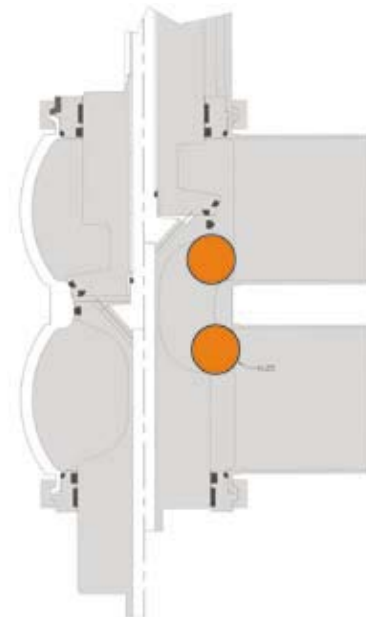
Actuator:

Non Seat Lifting (NSL)
 Air Requirements

Min. Supply Pressure: 75 psi (5.2 bar)
 Air Volume 3"-4" Valves - O.D. Tube - .055 ft³ (.0016 M3)

Independent Seat Lifting (SL)
 Air Requirements

Min. Supply Pressure: 75 psi (5.2 bar)
 Maximum: 100 psi (6.9 bar)
 Air Volume 3"-4" Valves:
 .055 ft³ (.0015 m³) Open Valve
 .162 ft³ (.0046 m³) Lower Seat Lift
 .011 ft³ (.0003m³) Upper Seat Lift

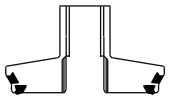
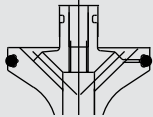


Features:

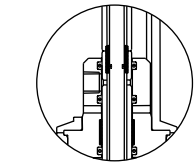
Large diameter valve plugs create open spaces for particulate flows

- 1.25" Firm Particulates
- (2) vent diameters available: standard (shown) and open vent (2.5") diameter
- Radial seal lower plug for minimal transition leakage
- Multiple body choices
- Seat lifting or non-seat lifting options
- One-piece, machined valve body available in 3" and 4"

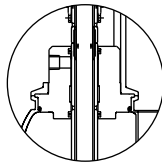
Seat Option & Accessories

Seat Type	Material	Maximum Temperature
 <p>Tri-Ring - Compression Seal (TR) Upper Stem</p>	EPDM or FKM (Fluoroelastomer)	Oper. 280°F (137°C) EPDM Steril. 275°F (135°C) EPDM Oper. 350°F (176°C) FKM Steril. FKM - Consult Factory
 <p>Radial - Seal Lower Stem</p>		

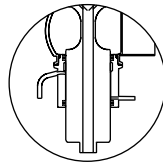
For higher temperature applications than those listed, please consult the factory.



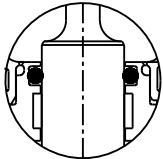
External Liquid Flush



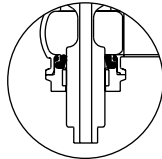
External Steam Barrier - Upper Stem



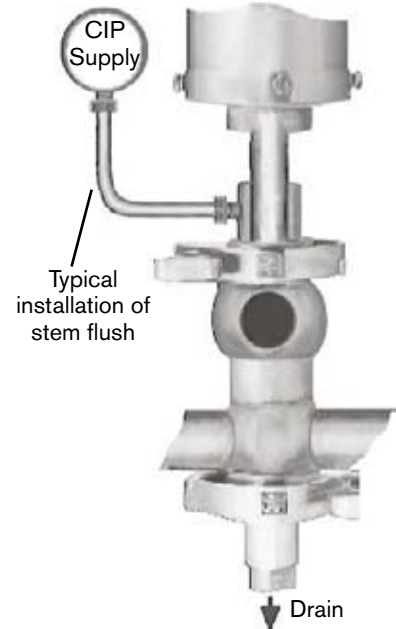
External Flush - Lower Stem



O-Ring Stem Seal



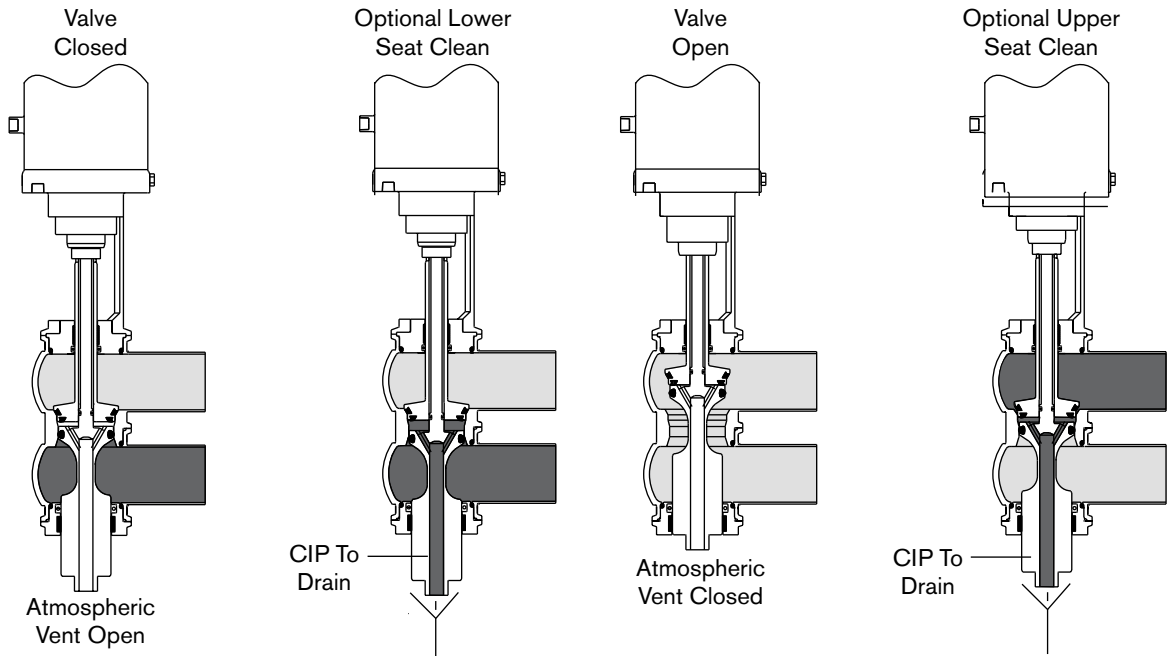
Wiping Stem Seal
 (Lower Stem Shown)



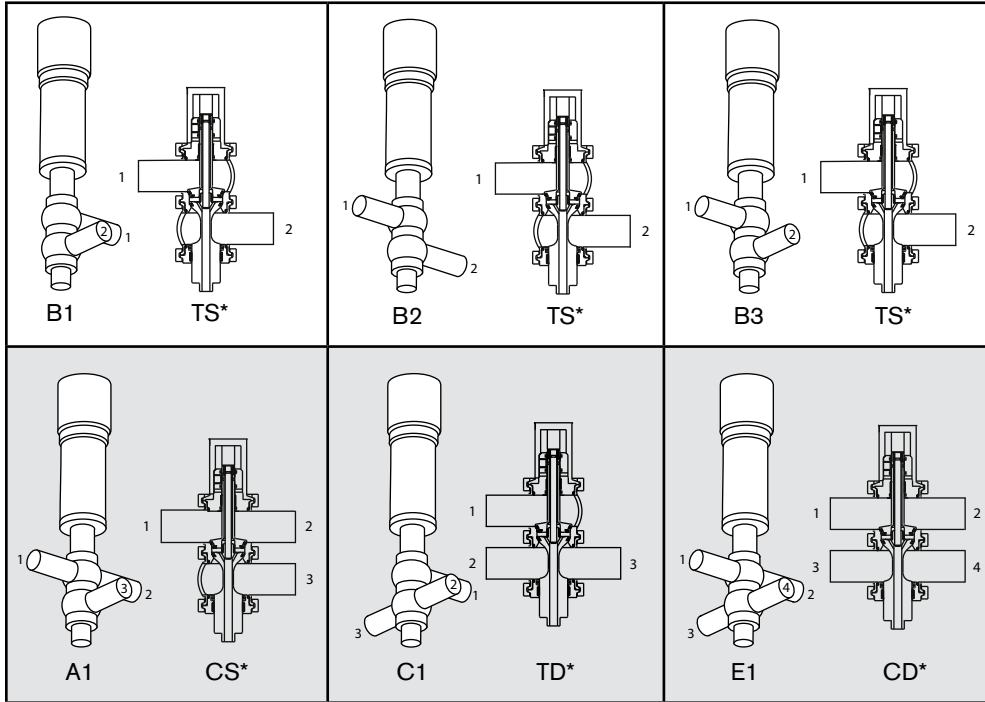
Theory of Operation

Mixproof valves provide safe separation of dissimilar products within the same valve body.

For Example: Product vs. CIP

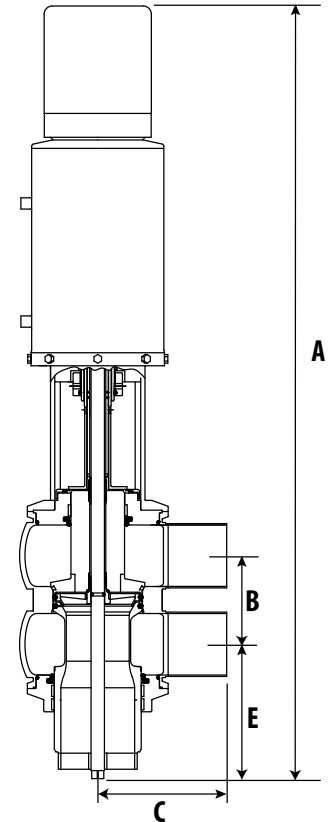


Body Configurations W72 RSP



*Two Piece Clamped Bodies allow ports to be rotated in any direction.

Valve Dimensions



Control Tops

Features

- Transparent Control Top keeps all electrical components visible.
- Maintainable! Designed with the user in mind, making assembly and troubleshooting worry free and easy!
- WCB uses the industry's most widely recognized electrical components, so access to off the shelf replacement parts is easy, ensuring quick delivery and less down time!
- NEMA 4x (Ip66)

Connector Options

- S/O Cord Grip for hard wire (STD)
- Quick Disconnect Pin Connectors

Interface Options

- ASi Field Bus Card
- Device Net Field Bus Network Card

Position Indication

- Inductive Proximity Switches 20-140V AC/DC, 2-Wire (STD)
- Microswitches 24VDC, 110VAC
- Intrinsically safe options 5-24VDC
- Set and forget linear switch

Solenoid Valves

- 24V DC or 110V AC

Manifolding and Welded Assemblies Available

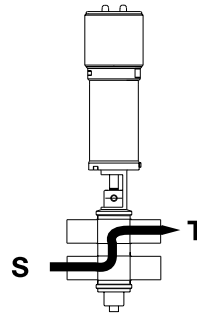
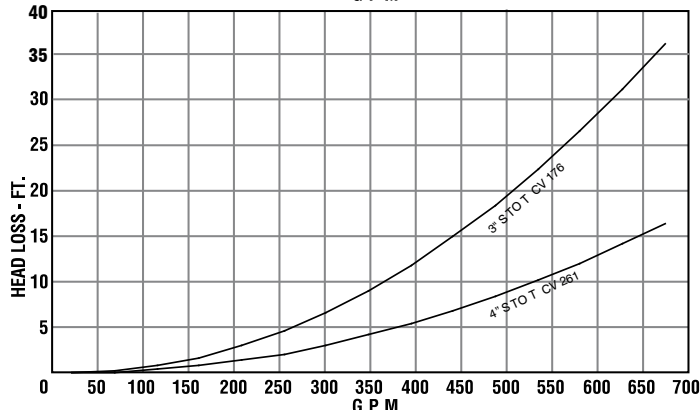
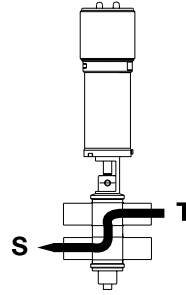
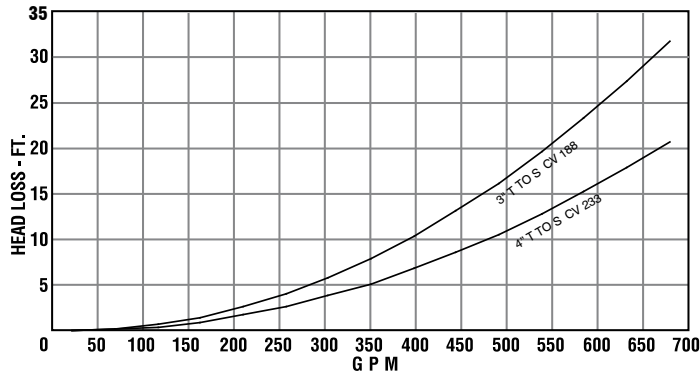
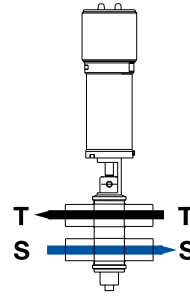
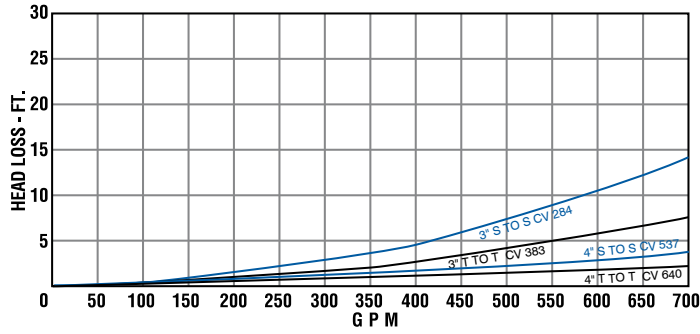
- Contact Factory for Details

Valve Size Inch (mm)	A*	B	C	E*
3.0 (76)	36.6 (930)	5.13 (130)	6.0 (152)	---
4.0 (102)	36.6 (930)	5.13 (130)	6.0 (152)	---

* A & E dimensions shown without optional lower stem flush



Pressure Loss Curves - W72 RSP Series CV



PROCESS EQUIPMENT

SPX Process Equipment
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