



# W72 RSP Double Seat Mix Proof Valves for Particulates

## Application:

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

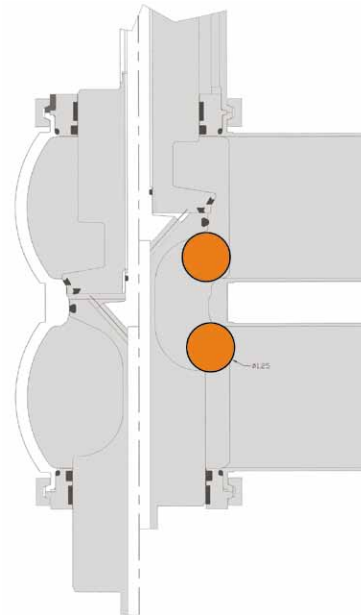
- Gravies
- Stews
- Sauces
- Chunky soup or salsa

## 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:  $\leq 32$  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 ft<sup>3</sup> (.0016 M3)

Independent Seat Lifting (SL)

Air Requirements

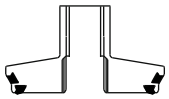
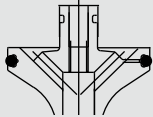
Min. Supply Pressure: 75 psi (5.2 bar)  
 Maximum: 100 psi (6.9 bar)  
 Air Volume 3"-4" Valves:  
 .055 ft<sup>3</sup> (.0015 m<sup>3</sup>) Open Valve  
 .162 ft<sup>3</sup> (.0046 m<sup>3</sup>) Lower Seat Lift  
 .011 ft<sup>3</sup> (.0003m<sup>3</sup>) Upper Seat Lift

## Features:

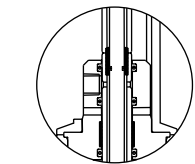
Large diameter valve plugs create open spaces for particulate flows

- 1.25" Firm Particulates
- 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"

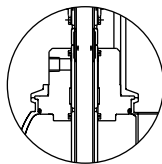
# Seat Option & Accessories

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>		

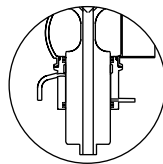
For higher temperature applications than those listed, please consult the factory.



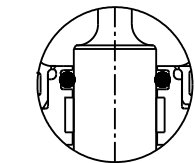
External Liquid Flush



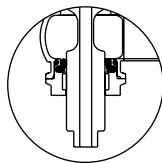
External Steam Barrier - Upper Stem



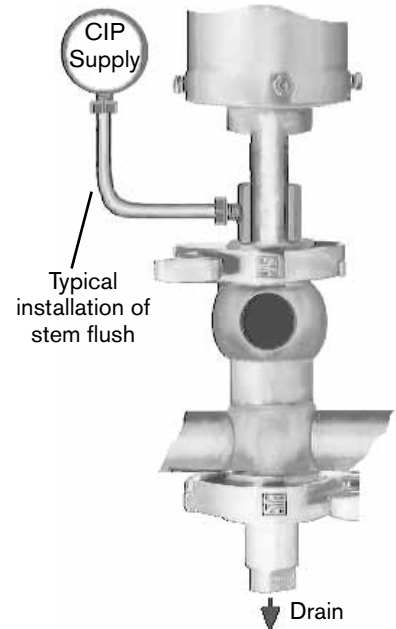
External Flush - Lower Stem



O-Ring Stem Seal



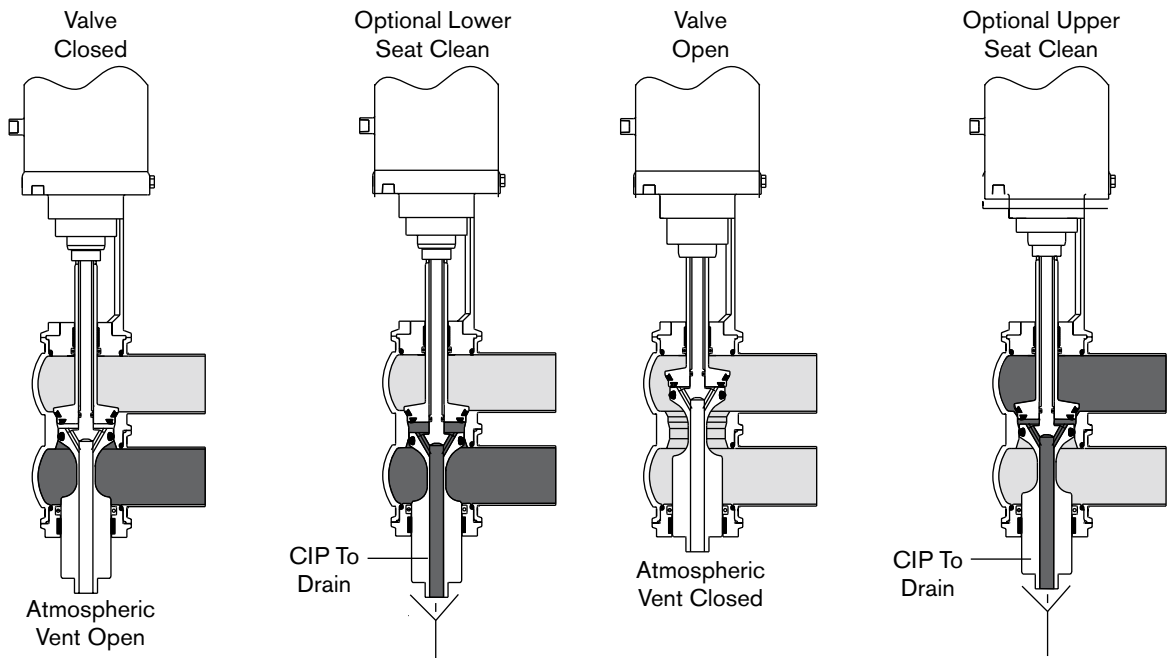
Wiping Stem Seal  
(Lower Stem Shown)



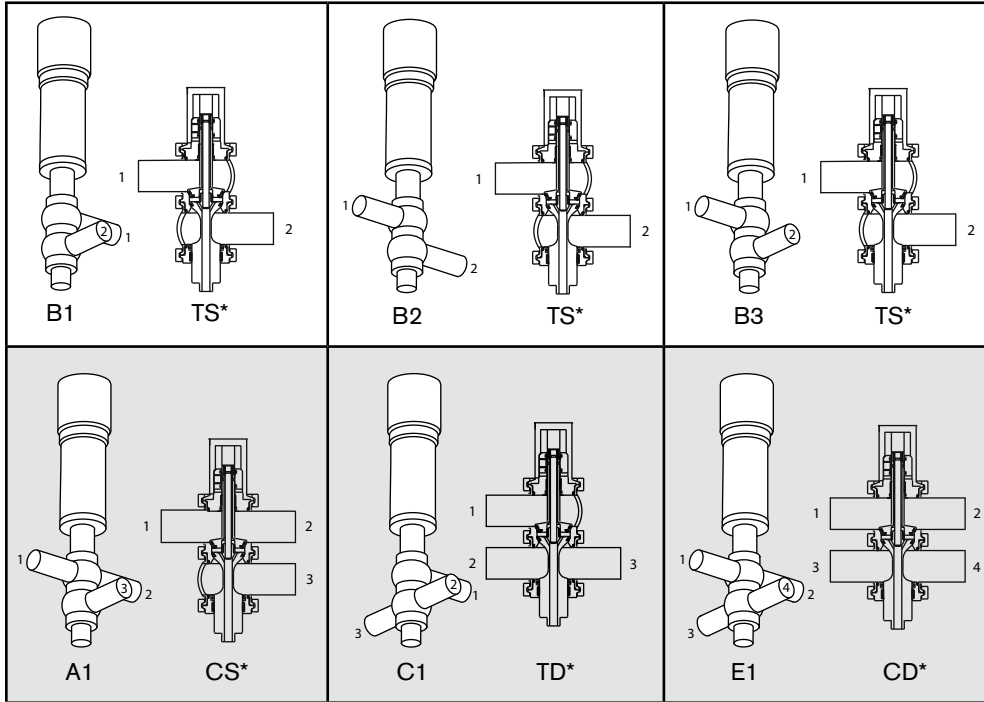
## Theory of Operation

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

For Example: Product vs. CIP

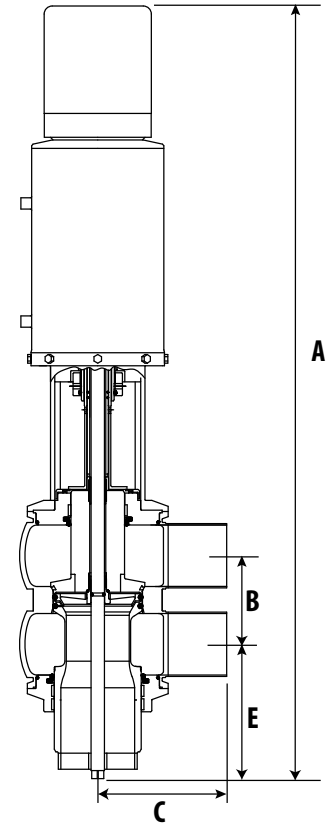


## Body Configurations W72 RSP



\*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, standard
- 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

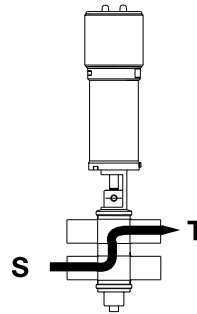
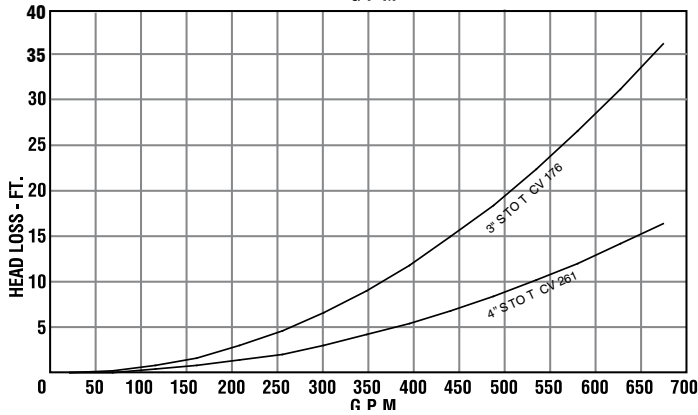
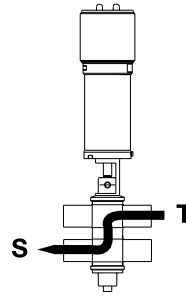
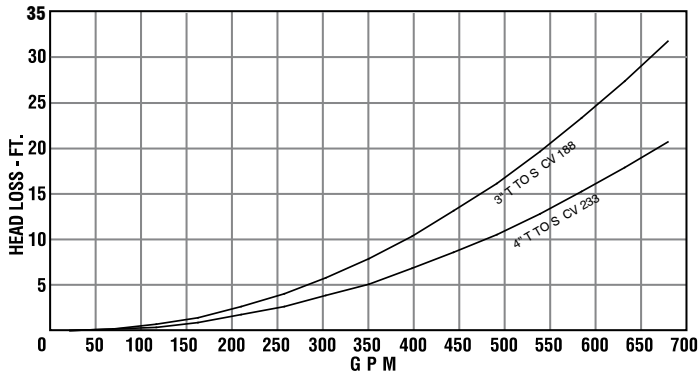
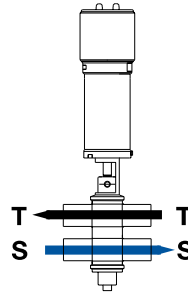
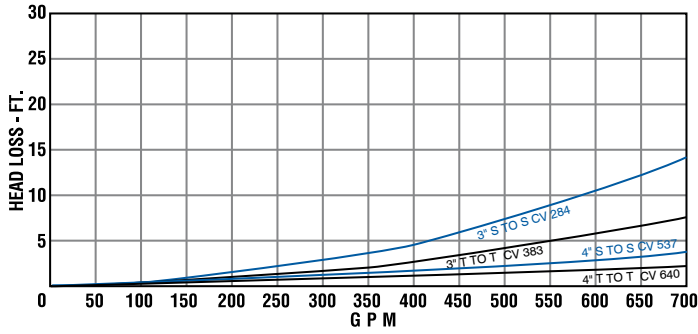
- Contact Factory for Details

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



Your local contact:



SPX  
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