

Technical Advantages

- ✓ **Low Pressure Loss** – Y-pattern diaphragm valve, with large seat opening and high lift disc permits higher flow rates at lower pressure loss than other comparable valves.
- ✓ **Separate Diaphragm Chambers** – Separate diaphragm chambers protect the valve diaphragm from the flow stream. This allows the diaphragm to be replaced without disrupting service.
- ✓ **Long Diaphragm Life** – Pre-formed, stress-relieved diaphragm minimizes fatigue, maximizes valve responsiveness and diaphragm lifetime.
- ✓ **Corrosion Resistant** – All internal parts in contact with media are made of composite materials.^① Seals are ethylene propylene for better chemical resistance.^②
- ✓ **Adaptable to a Wide Variety of Control Devices.**
- ✓ **Valve is operated by introducing either hydraulic or pneumatic pressure.**

Y52



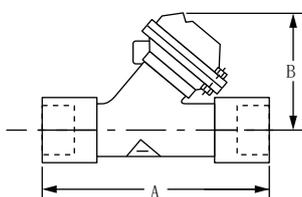
- Working Pressure: 1 - 8 bar (15-115 psi)
- Working Temperature: 4 - 50 °C (40-122 °F)

① Normally closed valve configurations are NOT recommended when used with corrosive fluids.
 ② Valves are NOT recommended for use with any aromatic, hydrocarbon-based media.

Available Valve Options:

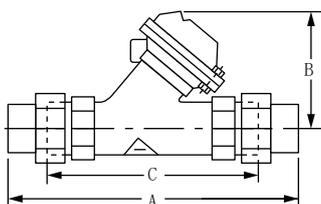
- Normally Open (NO) (Standard)
- Normally Closed (NC)
- Spring-Assist Closed (SAC)
- Spring-Assist Open (SAO)
- Limit Stop (LS)
- Position Indicator (PI)
- Signal Switch (SS)
- Solenoid
- Liquid Level Control (LLC)

Female Socket Weld End Connectors



| Valve Model | Pipe Size | Units | A | B |
|-------------|-----------|--------|-------|-------|
| Y521 | 1" | inches | 6.30 | 3.43 |
| | | mm | 160.0 | 87.0 |
| Y524 | 1.5" | inches | 8.35 | 5.35 |
| | | mm | 212.0 | 136.0 |
| | 2" | inches | 10.24 | 5.35 |
| | | mm | 260.0 | 136.0 |

Union End Connectors

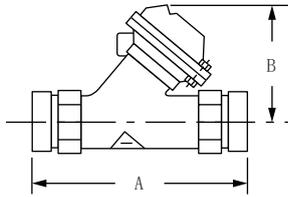


| Valve Model | Pipe Size | Units | A | B | C |
|-------------|-----------|--------|-------|-------|------|
| Y521 | 1" | inches | 9.06 | 4.06 | / |
| | | mm | 230.0 | 103.1 | |
| Y524 | 2" | inches | 12.32 | 5.06 | 8.78 |
| | | mm | 313 | 128.5 | 223 |

Diaphragm Valve

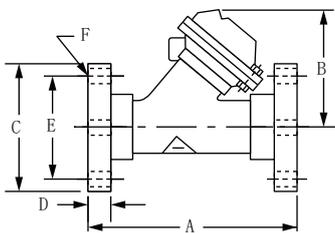


Grooved Prepared for Coupling End Connectors



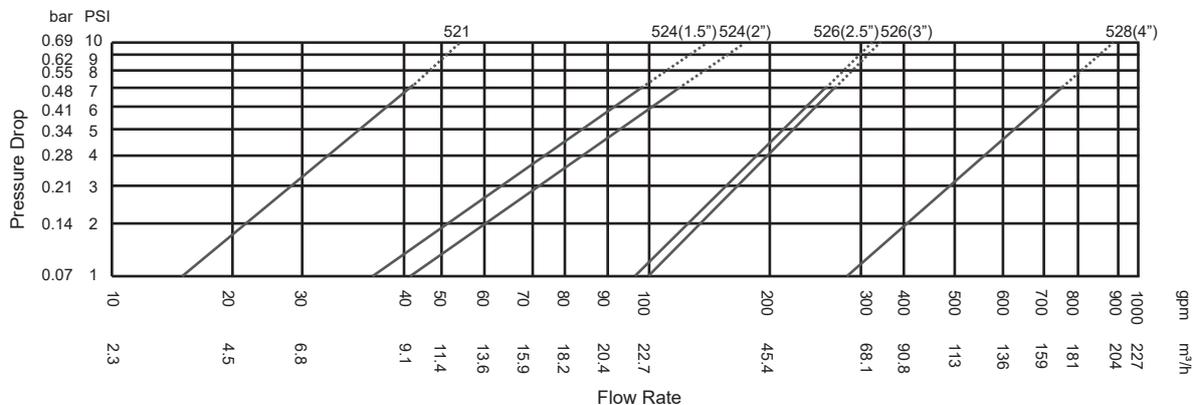
| Valve Model | Pipe Size | Units | A | B |
|-------------|-----------|--------|-------|-------|
| Y524 | 2" | inches | 7.87 | 5.06 |
| | | mm | 200.0 | 128.5 |
| Y526 | 3" | inches | 12.60 | 8.69 |
| | | mm | 320.0 | 220.7 |

Flanged End Connectors



| Valve Model | Pipe Size | Standard | Units | A | B | C | D | E | F | |
|-------------|-----------|----------|--------|-------|-------|-------|------|-------|------|------|
| Y526 | 2.5" | DIN | inches | 11.22 | 8.69 | 7.28 | 0.87 | 5.71 | .71 | |
| | | | mm | 285.0 | 220.7 | 185.0 | 22.0 | 145.0 | 18.0 | |
| | | ANSI | inches | 11.22 | 8.69 | 7.28 | 0.87 | 5.49 | .71 | 18.0 |
| | | | mm | 285.0 | 220.7 | 185.0 | 22.0 | 139.5 | 18.0 | 18.0 |
| | 3" | DIN | inches | 12.52 | 8.69 | 7.87 | 0.87 | 6.30 | .71 | 18.0 |
| | | | mm | 318.0 | 220.7 | 200.0 | 23.0 | 160.0 | 18.0 | 18.0 |
| Y528 | 4" | DIN | inches | 12.20 | 9.37 | 8.66 | .91 | 7.09 | .71 | 18.0 |
| | | | mm | 310.0 | 238.0 | 220.0 | 23.0 | 180.0 | 18.0 | 18.0 |
| | | ANSI | inches | 12.20 | 9.37 | 8.66 | .91 | 7.50 | .71 | 18.0 |
| | | | mm | 310.0 | 238.0 | 220.0 | 23.0 | 190.5 | 18.0 | 18.0 |

Performance Data



Typical Application:

- Chemical Injection
- Deionizers Desalination
- Detergent and Bleach Handling
- Electronic Industry
- Evaporation
- Fertilizer Spray Equipment
- Level Control Systems
- Metal Recovery Systems
- Mining Wastes
- Process Water Systems
- Water Treatment Systems