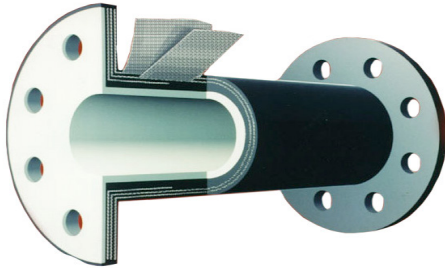


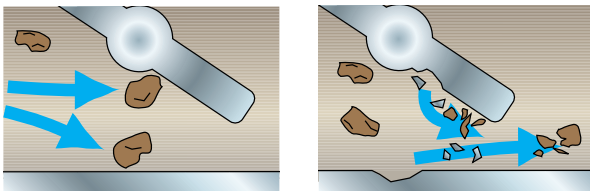
# Control Pinch Valve Sleeve Designs



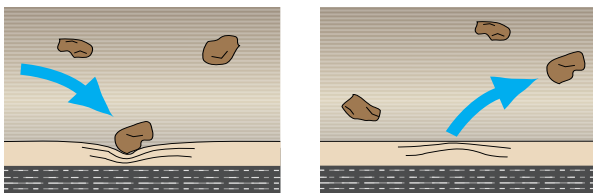
The quality of any control pinch valve rests with the quality of its sleeve. The sleeve provides corrosion resistance, abrasion resistance and pressure containment.

Red Valve uses proprietary technology in elastomer compounding and synthetic materials to manufacture a virtually trouble-free and wear-resistant pinch valve sleeve. Red Valve Pinch Valve Sleeves are engineered to the highest standards to provide a superior service life. They are built to last with ply-reinforced layers similar to a heavy-duty truck tire.

The elastomer wear surface of a Pinch Valve Sleeve is chosen based on the chemical compatibility of the application. Sleeves are available in a wide variety of elastomers. All Red Valve Pinch Valve Sleeves feature full-face integral elastomer molded flanges.



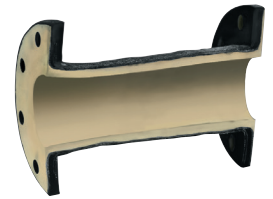
When abrasive particles strike the hard surface of traditional metal valves, the energy of the impact is completely absorbed by the metal surface, prematurely wearing seats, weirs, rotating discs, plugs and balls. Additionally, these abrasive particles can pack into crevices, scoring the sealing surface and creating leaks.



When abrasive particles strike the elastomer surface of a Red Valve Pinch Valve Sleeve, the impact is absorbed, then deflected back into the particle. These extremely resilient elastomers wear at a far slower rate than ceramic or metal alloy valve trims. Pinch Valve Sleeves are full-port with no crevices, packing glands or seats to foul valve operation.

## Standard Sleeves

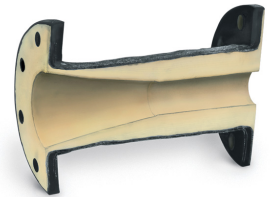
Great care is taken to match the type of sleeve elastomer, pressure rating, and temperature limits for each application, ensuring a long and virtually maintenance-free service life. The full port of a Standard Sleeve provides uninterrupted flow like a piece of pipe and flow remains streamlined when throttled.



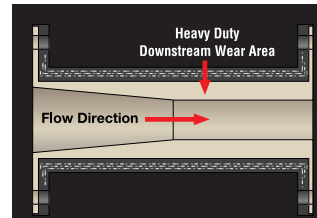
Standard Sleeve

## Cone Sleeves

Patented by Red Valve, Cone Sleeves are designed for control applications. Cone Sleeves provide tighter control with a 20:1 turn down ratio and 0.89 pressure recovery factor.



Cone Sleeve

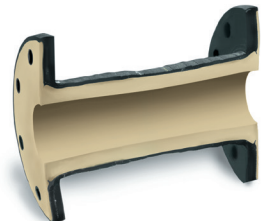


Pressure recovery occurs downstream of the sleeve, so Cone Sleeves can handle a higher pressure drop than other sleeve designs. For the same open area, the configuration of a Cone Sleeve also allows

larger solids to pass through the sleeve.

## Double Wall Sleeves

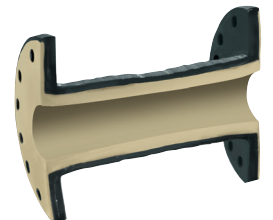
Designed for extremely abrasive slurries, Double Wall Sleeves have triple the elastomer wall thickness than Standard Sleeves. The next larger valve size must be used with the Double Wall Sleeve to maintain a full port, due to the additional thickness of the sleeve.



Double Wall Sleeve

## High Pressure Sleeves

High Pressure Sleeves are designed for high pressure ASME 300 applications up to 720 psi. The High Pressure Sleeve features stronger fabric reinforcement and thicker construction than Standard Sleeves. Full-face flanges are equipped with integrated o-ring seals to ensure a tight seal under high-pressure applications.



High-Pressure Sleeve