Applications

Since 1953, Red Valve's quality products have been solving the world's toughest flow control problems. With our wide range of manual pinch valves, control valves, Tideflex® Check Valves, Redflex® Expansion Joints, Tideflex® Air Diffusers, Flexgate Knife Gate Valves and non-clogging pressure sensors, Red Valve has become the leading provider of valves and related products for municipal and industrial applications worldwide.

Wastewater Treatment Plants

Accurate, repeatable linear flow control and drop-tight, bi-directional shutoff make Red Valve ideal for these demanding wastewater treatment application:

- **Sludge Control**
- **Raw Sewage Control**
- **Flow Equalization**
- **Lime Control**
- **Polymer Feed Systems**
- **Grit Systems**





Mining Industry

The rugged construction of Red Valve products has made them the valves of choice on tough, abrasive mining slurries. Their simple, maintenance-free designs allow them to operate reliably in harsh conditions:

- **Tailings**
- **Flotation Column Cell**
- **Centrifuge Control**
- **Lime Feed Systems**
- **Coal Washing**
- **Solids Separation**



Pulp and Paper Mills

Pulp stock, coating and recycled paper lines are some of the more difficult valve applications found in pulp and paper mills. The flexible elastomer sleeves of Red Valve Pinch Valves are custom fabricated to withstand these abrasive services:

- Cyclone Discharge
- Recycled Paper
- Pulp Stock
- Coatings
- pH Addition
- Lime Mud
- De-inking



Power Industry



Lime and ash handling are two tough services in a power plant, and the abrasion-resistant and self-cleaning flexible elastomer sleeves of Red Valve Pinch Valves won't scale, bridge, plug or freeze on slurries:

- Thickener Underflow
- Wet Lime Scrubbers
- FGD Systems
- Ash Handling
- Coal Handling
- Bottom Ash

Chemical Industry



Red Valve products have no packing to maintain and no cavities, seats or cam action to bind valve operation. Chemical plants use Red Valve products for many corrosive chemical applications:

- Slurry/Chemicals
- Titanium Dioxide
- Catalyst Feed Systems
- Industrial Treatment
- Emulsive Chemicals
- Powders

CSO/SSO Systems

The elastomer duckbill design and passive operation of the Tideflex Check Valve provide long-term, reliable backflow prevention for:

- Pump Houses
- Lift Stations
- Effluent Diffuser Systems
- Floatables Control



General Industry

Red Valve products are frequently specified as original equipment by manufacturers of industrial process systems:

- Pneumatic Conveying
- Tobacco Plants
- Refineries
- Dye Plants
- Food and Beverage Plants
- Cement, Sand, Silica
- Scrubbing