



## Innovative Valve and Control Products

### RED VALVE PRODUCTS



#### AIR OPERATED PINCH VALVES

First introduced by Red Valve, Type A Pinch Valves are the most economical automatic valves on the market. Large-diameter Megaflex Pinch Valves are ideal for influent control with a full port opening, no moving parts and no external actuator. Sizes 1/8" to 96".



#### CONTROL VALVES

Red Valve Control Valves offer maximum durability with precise control. The self-cleaning elastomer sleeve trim offers a 20:1 turndown ratio and 0.89 recovery factor, while eliminating cavitation, scaling and bridging of slurries. Available with custom sleeve trims. Sizes 1/2" to 60".



#### MANUAL PINCH VALVES

Manual Pinch Valves from Red Valve are designed for use on abrasive and corrosive slurries. The elastomer sleeve provides excellent wear resistance and ensures the operating torque remains constant. Sizes 1/2" to 96".



#### KNIFE GATE VALVES

Red Valve Knife Gate Valves are a heavy-duty and rugged engineered product for operator dependability, low maintenance and excellent abrasion resistance. Available with metal or resilient seats. Sizes 3" to 72".



#### PRESSURE SENSORS

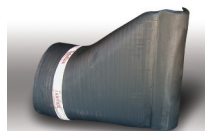
Providing a full 360° pressure reading, Red Valve Pressure Sensors are the industry standard for protecting instrumentation and ensuring accurate, dependable pressure measurement. Ideal for progressive cavity pump protection.



#### REDFLEX® EXPANSION JOINTS

Redflex® Expansion Joints, reducers, rubber pipes, vibration pipes and rubber fittings are the industry standard. Sizes 1" to 120".

### TIDEFLEX® PRODUCTS



#### TIDEFLEX® CHECK VALVES

Revolutionary Tideflex® Check Valves stand alone as the product of choice for backflow prevention and for replacing high-maintenance flap gates. Sizes 1" to 96".



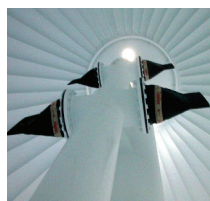
#### TIDEFLEX® INLINE CHECK VALVES

Designed with our revolutionary Check Valve technology, Tideflex® Inline Check Valves provide maintenance-free backflow prevention and odor mitigation. The valves boast extremely low headloss and are easily installed into existing pipes.



#### AERATION SYSTEMS

Tideflex® Coarse Bubble Aeration Systems improve mixing by increasing jet velocity while preventing backflow and plugging of the diffuser manifold. We provide complete engineer design services.



#### TIDEFLEX® MIXING SYSTEMS

Patented Tideflex® Mixing Systems (TMS) technology improves water quality in storage tanks. We provide full design services to assist consulting engineers and owners. A complete system is installed within the tank to ensure a reliable water mixing system.



#### EFFLUENT DIFFUSER SYSTEMS

Tideflex® Effluent Diffuser Valves prevent intrusion of saltwater and sediment into marine outfall systems, keeping the outfall operating at peak hydraulic capacity and dilution efficiency.



#### WATERFLEX® CHECK VALVES

Unique wafer-thin elastomer Waterflex® Check Valves provide reliable backflow prevention for potable water applications. With no moving parts that require maintenance or repairs, operational costs are low and service life is long.



## Industry Applications for Pinch Valves and Sensors

### PULP AND PAPER

- Pulper Water Systems
- White Water Bypass
- Black, White and Green Liquor
- Recausticizing
- Paper Coatings (Coating Kitchen)
- Talc and TiO<sub>2</sub> Control and Isolation
- High Density Paper Stock
- Lime (pH Isolation and Control)
- Pulper Waste (Scavenger)
- Recycled Paper
- Hypo Control Bleach Groundwood Pulp
- Hypo Hydrogen Peroxide

### CHEMICAL

- Lime Addition or pH Control
- Fibers, Powders
- Industrial Chemical Treatment
- TiO<sub>2</sub> Pigments and Coatings
- Powders
- Salt or Saline Production or By-products
- Plastic or Polyethylene Pellets
- Acid Plants
- Thickener Underflow
- Clarifier Underflow
- Wastewater
- Phosphoric Acid
- Sulfuric Acid

### CORN PROCESSING

- Precoat
- Heavy Steep Water Control
- Carbon Column Isolation
- D.E. Feed to Vacuum Drum Filters

### WASTEWATER TREATMENT

- Grit Isolation Valves
- Carbon Slurry Control
- Lime or Polymer Feed
- Throttling Raw Sewage
- Sludge Isolation
- Sludge Handling
- Flow Equalization
- Large-diameter Influent and Effluent Lines
- Alum Mixing and Feed Lines

### SALT INDUSTRY

- Brine Solution Control
- Pneumatic Conveyed Salt

### GLASS INDUSTRY

- Pneumatic Conveyed Sand
- Pumice Slurry Isolation and Control

### CERAMIC INDUSTRY

- Clay Slurry Control / Slurry Isolation Valves

### POWER

- FGD Scrubber Systems
- Fly Ash Handling
- Fuel Oil Slurry
- Lime and Limestone Transportation
- Control of pH of Ash Slurry
- Cooling Water
- Coal Sampling
- Geothermal Brine
- Bottom Ash Distribution
- Coal Slurry

### MINING

- Cyclone Separation
- Lime Control and Lime Dosing
- Leaching Processes
- Pump Isolation
- Tailing Disposal
- Slurry Control and Flotation Cells
- Thickener Underflow
- Dust Collection Systems
- Bauxite Mining
- Ball Trap Discharge
- Smelter Concentrate Feed
- Sampling Systems
- Industrial Minerals
- Smelter Level Control
- Smelter Flux Feed
- Sulfuric Acid Lines in Smelter
- Hydrosizers
- Filter Feed and Filter Water
- Thickener Feed Distribution

### CEMENT

- Slurry Control Valves - Feed to Kiln
- Blow Pot Valves - Dense Phase
- Pneumatic Conveying Isolation
- Blow Pot Vent Valves
- Replacement for SK Valves - Top of Silo
- Aggregate Washwater
- Batch Plants

### IRON AND STEEL

- Lime Addition or pH Control
- Pneumatic Conveyed Coal
- Roll Cooling Isolation
- Caster Water
- Steel Making Slurries
- BOF Scale Water Slurries

### BATTERY PLANT

- Chemical and Solids Feed Valves