



www.evcousa.com

ENGINEERING YOUR UPTIME.

MINING & MINERALS VALVE SOLUTION GUIDE



Mining & Minerals Processing Environments

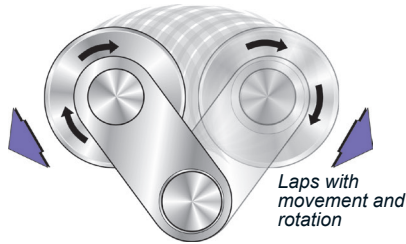
Mining and mineral processing operations generate abrasive, erosive, and high-solid-content media — including slurries, concentrates, tailings, and process water. Systems frequently handle rock dust, sand, lime, and metallic particulates under high pressure and temperature.

Key challenges include conventional gate or ball valves quickly failing due to packing wear, seat erosion, and clogging.

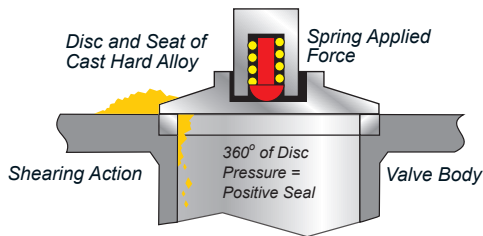
Everlasting's rotating-disc valve design self cleans, seals tighter over time, and operates reliably under severe service conditions.

Everlasting Valves & Diverters Features:

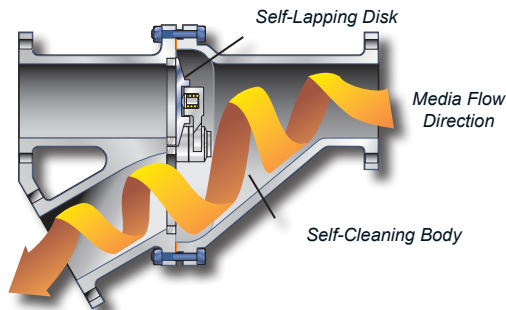
SELF-LAPPING SEALING SURFACES



POSITIVE SHUT-OFF



SELF-CLEANING



Iron sulfide fines conveying, with Protective Guarding

Key Mining & Minerals Applications for Everlasting Valves

Slurry Transport & Tailings Lines

Location: Between thickener underflow, tailings transfer, and disposal systems

Media: Dense mineral slurries, sand, tailings, or process water with solids
Valve Type: Process

Function: Isolation of abrasive slurry lines.

Why EV Works: Rotating disc wipes seat clean each cycle, maintains seal despite high solids content and far longer life than knife-gate or pinch valves.

Concentrate & Beneficiation Circuits

Location: Cyclone feed, classifier underflow, thickener discharge, and flotation process piping.

Media: Ore concentrates, flotation reagents, or thickened slurry.

Valve Type: Slurry Valve / BMV Series.

Function: Controls or isolates dense, corrosive, and abrasive fluids.

Why EV Works: Resistant to lime scaling and chemical attack; no seat cavity for solids buildup.

Mill & Grinding Circuits

Location: Feed and discharge lines around ball mills, SAG mills, and classifiers.

Media: Ore slurry, mill water, lime slurry.

Valve Type: Slurry Valve / Rotating Disc Valve.

Function: Isolation.

Why EV Works: Withstands erosion and vibration; seals even under throttling and high-velocity slurry.

Dust Collection & Pneumatic Handling

Location: At bag-house or dust collector outlets, transfer chutes, or dry material silos.

Media: Dry dust, lime, cement, or mineral powder.

Valve Type: Everlasting Bulk Material Valve (BMV Series).

Function: On/off isolation for dry bulk solids.

Why EV Works: Handles abrasive powders and prevents air leakage; smooth rotation prevents clogging.

Leaching & Chemical Processing

Location: Acid leach tanks, autoclaves, and process lines

Media: Acidic or caustic slurry, metal-rich solutions

Valve Type: Process

Why EV Works: Available in corrosion-resistant materials (Hastelloy, Alloy 20, stainless); ensures tight shutoff and minimal maintenance

Boiler Blowdown & Steam Utilities (Mine Power or Process Plants)

Location: Utility boilers, steam and condensate systems

Media: Steam, condensate, and water

Valve Type: Slow and Quick Release

Why EV Works: Reliable, long life in high-cycle, high-temperature blowdown service

Why Everlasting Valves Excel in Mining Operations

- **Engineered for Abrasion:** Rotating disc removes buildup and protects sealing surfaces
- **Maintenance-Friendly:** Dynamic spring loaded packing can be adjusted or serviced
- **Longevity:** Outlasts knife gate, plug, and pinch valves by multiples in abrasive duty
- **Proven Field Use:** Deployed in mining, minerals, and cement industries worldwide for over 50 years

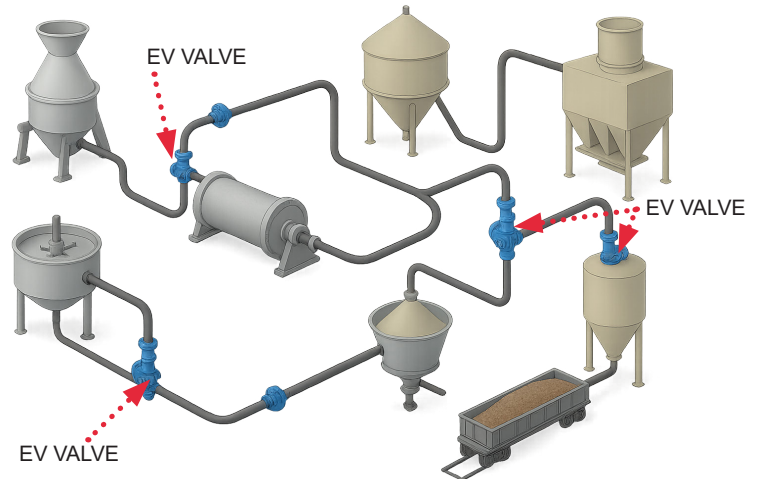


Lime Kiln Dust, Truck-load out, 200-cycles per week

Application and Everlasting Valve Product Fit:

- Gold pressure oxidation autoclave isolation
- Nickel pressure oxidation autoclave isolation
- Flash converter ESP
- Boiler dust crossover
- Copper matte conveying
- Smelter FGD, sodium hydroxide slurry
- Nickel sulfide fines conveying
- Iron sulfide fines conveying
- Molten sulfur
- Carbon stripping circuit
- Roaster wind box
- Fine crushed pucker
- Calcined sulfide dust conveying
- Blast furnace (BOF) dust catcher
- Carbon injection system
- Calcium carbide injection system
- Calcined, activated carbon conveying

Application Fit Diagram



Mining & Minerals Processing Environments

Functional Specifications

| Process Area | Media | Everlasting Valve Type | Function |
|----------------------|---------------------|------------------------|-----------|
| Grit Removal | Sand, debris | Process Valve | Isolation |
| Sludge Transfer | Thick sludge | | |
| Biological Treatment | MLSS, scum | | |
| Industrial Waste | Corrosive chemicals | | |
| De-watering Systems | High solids slurry | | |
| Utilities | Steam, condensate | Blowdown Valve | Blow-down |



www.evcousa.com

Service Excellence in Action

When you choose Everlasting Valve Company, you're not just selecting a product—you're gaining a partner dedicated to long-term performance and support. Our commitment to service extends far beyond standard maintenance or repair. It means timely access to our knowledgeable team of engineers and service professionals—ready to respond anytime, anywhere your operations demand.

At Everlasting, we pride ourselves on becoming an extension of your team. You can count on us to take ownership of every challenge and deliver practical, lasting solutions. When issues arise, our technical experts go beyond the symptoms to uncover the true cause. We evaluate your complete system to identify and resolve problems with precision and care.

Our comprehensive service approach is designed to maximize equipment reliability, enhance operational efficiency, and reduce total cost of ownership.

Contact us today for your next project!



Whether you are requesting a quote, need more information, or want to discuss customized valves that address your specific requirements, just let us know. Everlasting Valve is committed to providing prompt, responsive service, every time.

Everlasting Valve Company

108 Somogyi Court
South Plainfield, New Jersey 07080

☎ 908.769.0700

📠 908.769.8697

✉ info@evcousa.com

🌐 www.evcousa.com

Distributed by:

