



### QUALITY & DEPENDABILITY IN MINING OPERATIONS

Mining applications can be hard on the equipment. Abrasive, corrosive, erosive — all those conditions apply in varying proportions. So it can come as a relief to know that FluoroSeal® Non-Lubricated Plug Valves, both Sleeved and Lined, can handle even the hardest of condition combinations, in a variety of mining operations:

- Alumina Refineries
- Bauxite
- Carbon Strips
- Copper
- Cyanide
- Gold
- Lime Slurry
- Nickel
- Phosphoric Acid
- Sulfuric Acid



### A STANDARD YOU CAN RELY ON

FluoroSeal® standard valves are inherently cavity-free, provide a bubble tight shutoff and prevent particle accumulation, rendering them ideal for the mining industry. Two-way or multiport, offered in a wide variety of materials and special alloys, FluoroSeal® Plug Valves can be customized to optimize life span and performance in your particular medium. FluoroSeal® valves conform to the following international standards:

API 596  
ASME B16.10  
ISO/FDI 10497

API 599  
ASME B16.34  
MSS SP-55

ASME B16.5  
ASTM F1545-97  
MSS SP-61

### DESIGN FEATURES

- Bi-directional in-line and multiple external bubble-tight seals independent of line pressure
- Direct mechanical three-point adjustment or a single point frontal EZ-SEAL® (patent pending) Top Seal & Adjustment System
- Independent travel stops
- Full encapsulation and retention of all leading edges of polymer sleeve and top seal components
- Full lip at port openings protects the polymer sleeve
- Contoured waterway ensures minimum flow turbulence characteristic
- No body cavities to entrap flow media
- Positive flow direction indication
- Lined valves offer additional corrosion resistance through the use of a virgin, unpigmented PFA transfer molded lining



FluoroSeal® Plug Valves in Mining Applications

**CAVITY-FREE DESIGN**

By design, FluoroSeal® Sleeved and Lined Plug Valves are cavity-free both in open and closed positions.

- No particle accumulation
- Ideal for corrosive and slurry applications

**OPTIONS AND SPECIALS: CUSTOM FLOW CONTROL SOLUTIONS**

At FluoroSeal Inc. we pride ourselves in the quality of our product, but furthermore we strive to provide each client with a solution pertinent to a particular application. Some of the options and special configurations available on Sleeved and Lined Plug Valves and appropriate for the mining industry are:

- Severe Service (FE)
- Caged Control
- Special Cleaning
- Fire Safe
- HF Alkylation
- EZ-SEAL® (patent pending) Top Seal & Adjustment System
- Partial and Full Jacket
- V-Port & Characterized Plugs

**A GROWING LIST OF SATISFIED CUSTOMERS**

- |                                      |                              |
|--------------------------------------|------------------------------|
| • Alcan                              | • Agrium                     |
| • Anglo Gold                         | • Barrick Goldstrike         |
| • BHP Copper                         | • Cargill Salt (CA)          |
| • CF Industries                      | • Church & Dwight            |
| • FMC Corporation                    | • General Chemical           |
| • Glencore                           | • IMC Global                 |
| • Inco                               | • J.R. Simplot               |
| • Kennecott Copper                   | • Kennametal Co.             |
| • Moab Salt                          | • Newmont Mining Corporation |
| • Noranda                            | • Nuwest                     |
| • Placer Dome                        | • Phelps Dodge               |
| • Potash Corporation of Saskatchewan | • QCM                        |
| • Round Mountain Gold                | • Rubicon                    |
| • SF Phosphate                       | • Sherritt                   |
| • Sherwin Alumina Co.                | • Solar Grade Silicon LLC    |
| • Teck Cominco                       | • US Borax                   |



Severe Service (FE) Plug Valve



EZ-SEAL® (patent pending) Adjustment System with Bracket and Lock



Partial Jacket, Welded