



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	API 599	ASME B16.5
ASME B16.10	ASME B16.34	ASTM F1545-97
ISO/FDI 10497	MSS SP-55	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® (patented) 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

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APPLICATIONS — MINING



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® (patented) Top Seal & Adjustment System
- Partial and Full Jacket
- V-Port & Characterized Plugs



Severe Service (FE) Plug Valve

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 |



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



Partial Jacket, Welded