



Alumina Industry Product Overview

The Alumina industry presents a unique set of challenges; each demands a solution that adds value to the plant operation.

For over 30 years Tyco Flow Control has built a reputation for providing innovative solutions in the Alumina industry - butterfly valves on control and isolation, stainless steel actuators, enhanced materials and custom designed packages. We can supply the full package of process compatible products.

Lunkenheimer is the benchmark for regrinding isolation valves in slurry service, now Tyco Flow Control bring you that tough uncompromising performance coupled with our materials, actuation and controls experience. The result is a new generation of Lunkenheimer, focussed on providing solutions to excessive wear rates, systems to enable valve automation and people friendly products where occupation health and safety is a concern.



The tough regrinding slurry valve for the Alumina and general mining Industry.

Product Range

Angle Valves



ANSI Class 150, 300, 600 rated with roller or plain bearings.
50mm to 900mm size range.
Spur gears to reduce torque input are available throughout the range to meet site specification.

Check Valves



ANSI Class 150, 300, 600
50mm to 900mm in size range.

45° Angle Valves



ANSI Class 150, 300, 600 rated with roller or plain bearings.
50mm to 900mm size range.
Spur gears to reduce torque input are available throughout the range to meet site specification.

In-Line Valves



ANSI Class 150, 300, 600 rated with roller or plain bearings.
50mm to 600mm size range.
Spur gears to reduce torque input are available throughout the range to meet site specification.

Bayonet Valves



ANSI Class 150, 300, 600 rated with roller or plain bearings.
50mm to 900mm size range.
Spur gears to reduce torque input are available throughout the range to meet site specification.

Combination Valves



ANSI Class 150, 300, 600 rated with roller or plain bearings.
50mm to 900mm size range.
Spur gears to reduce torque input are available throughout the range to meet site specification.

Sampling/ Drain Valves



ANSI Class 150, 300, 600 rated with roller or plain bearings.
50mm to 150mm or a combination of sizes if required.
Can also be supplied with screwed inlet and outlet.



Design & Quality



Standards

The design is in accordance with American standards API, ASME/ANSI B16.34
The robust design incorporates an erosion allowance built into the wall sections.

Features

- All valves in the Lunkenheimer Slurry Valve Range can be reground while in-line*. This ensures:
 - *Ease of maintenance - re-grinding can be performed by field operators.*
 - *Procedures are simple and easy to use.*
 - *No down time*
 - *Cost savings*
- Large range of gear operators for new and retrofit applications.
- Pinion shaft arrangement for air motor operation.
- Large stem diameters for strength and stiffness.
- Torque reactor for controlling the conversion of operational energy to thrust or rotation.
- Heavy duty swing down forged eye bolts.
- Alloy steel fully threaded studs and nuts.
- Heavy duty bodies with pads for multi-position drain points.
- Yoke bushing and pinion shaft grease fittings.
- Radial bearings and plain or roller thrust bearings in larger sizes.
- Special stem packing.
- Smooth flow and wide disc passage clearance.

* This does not include the check valve range

Automation

On/off actuation and automation of the regrounding capability are available:

- Electrically
- Hydraulically
- Pneumatically

resulting in a reduction in operator fatigue and injury.

Flanges

Conforms to ASME/ANSI B16.5 Class 150, 300 and 600. DIN PN10, PN20, PN50 or PN100
Flanges are supplied with raised faces and have a serrated spiral finish.

Materials

Body Material:

ASTM A216 Grade WCB

Stem Material:

Low pressure valves to AS1443 Grade 1040
High pressure valve stems to AISI 4140.

Disc and Seat Material:

Disc: AS 3678 Grade 250 or AS 1443 Grade 1020, with Stellite overlay on seat faces.
Seat: AS 3678 Grade 250 or AS 1443 Grade 1020, with Stellite overlay on seat faces.

Studs and Nuts:

Studs to ASTM A193 Grade B7
Nuts to ASTM A194 Grade 2H

Options include:

Nickel lined bodies
Solid stellite trim sets
Spray coatings and hard liners

Inspection & Testing

Testing

API 598

Radiography

ASME/ANSI B16.34

Magnetic Particle Examination

ASME/ANSI B16.34

Dye Penetrant Test

ASME/ANSI B16.34

Marking

to MSS SP.25.

Quality

Guaranteeing our product in your process.



Tyco Flow Control manufacturing facilities hold ISO 9001 certification with LLOYD'S third party accreditation.

Other **Slurry Valve** Products



1. **Clarkson Knifegate Isolation**
2. **Valvtron Isolation**
3. **Keystone F2000 Light Slurry Isolation**
4. **Klein Electrically Actuated on/off**
5. **Keystone F636 Pinch Valve Course Product Control**
6. **Richards R700/R800 Isolation**
7. **Keystone F638 026 28%Cr-Iron lined Aggressive Slurry Control**
8. **Keystone F624 Self Grinding Valve**
9. **Keystone K-LOK F360 325 Isolation**
10. **Keystone F955 Through Conduit Isolation**
11. **Keystone F990 Isolation & Control**
12. **Klein Angle Valve Pneumatic Re grind**



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