

# Flow control for cement industry

Reliable flow control equipment for abrasive media handling



Cement is by nature extremely abrasive substance which affects all parts of the manufacturing process. Reliable flow control for cement handling is crucial. Valmet's abrasive-resistant Flowrox™ control and shut-off valves and tube pumps for accurate metering are therefore ideal for cement industry. Proven performance of Flowrox valves and pumps have shown in more than 5,500 delivered products which boost the process performance in several hundreds cement plants.

## Our heavy-duty flow control products are found in various cement processes

- Pneumatic conveying
- Silo feed/ discharge
- Storage tanks
- Process pipelines
- Pump isolation
- Bagging
- Grinding aid dosing
- Chemical dosing duties

## Reliability and process performance

In the long run, it is essential for flow control equipment to be reliable and to have a low total cost of ownership throughout lifetime. This does not only reduce spare part consumption, but also significantly reduces maintenance costs and downtime.

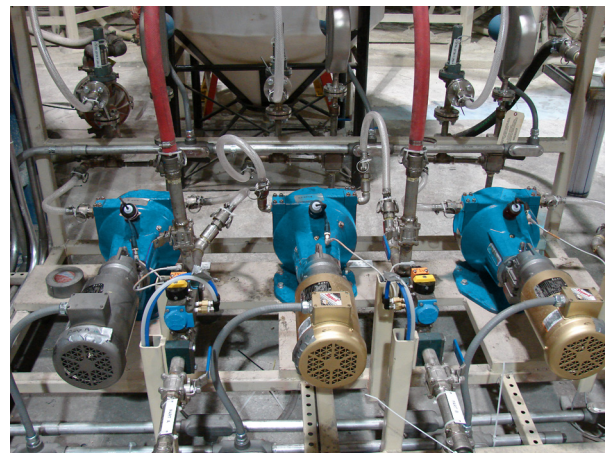
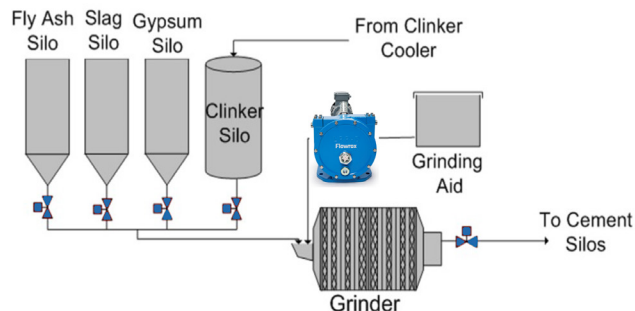
Our Flowrox heavy duty valves are built to last in harsh process conditions found in cement processes. The robust products are designed to withstand high wear caused by abrasive mediums containing particles and powders. Wearing is effectively limited to the elastomer sleeve found inside pinch valves.

## Flowrox LPP-D hose pumps for exact dosing

Grinding aids such as glycols, amines, and acetic acid improve cement particle flow, reducing grinding energy and increasing throughput. Flowrox LPP-D peristaltic pumps are an excellent choice for dosing these additives. They deliver precise and consistent dosing under all process conditions because the discharge flow is independent of pipeline pressure. Output remains stable in every cycle, ensuring reliable performance without variation caused by pressure fluctuations.

When handling high-viscosity grinding aids, accurate dosing is critical for process efficiency. Traditional gravity feeding and manual control often lead to inconsistent dosage and operational challenges.

Flowrox LPP-D pumps provide a reliable solution with precise flow control and a high turndown ratio, making them ideal for demanding applications. Equipped with variable frequency drive (VFD) options, these pumps enable fine adjustment of dosing rates to meet exact process requirements. Their robust design ensures trouble-free operation even with viscous media, delivering accurate and repeatable performance that optimizes grinding efficiency.



### With Flowrox pumps you get accurate and safe pumping of:

- Glycol
- Grinding agents
- Acetic acid
- Amines
- Other corrosive and non-corrosive chemicals

### Our comprehensive offering

We offer a comprehensive range of valves for cement supply processes. Our solutions cover essential water and process air services, clean industrial gas handling, and coal processing. Neles Easyflow™ and Jamesbury Wafer-Sphere™ valves ensure reliable performance across different process stages, while Neles™ M/X series ball valves are designed for demanding pulverized coal applications. In addition, we provide expert services to support customers throughout the lifecycle of their equipment.

Valmet flow control valve and pump professionals will consult you and help to size and choose the right product type for the right application.

### Advantages of Flowrox products:

#### Pinch valves

- Reliable operation in heavy wearing conditions
- Full bore
- 100% tightness
- Easy and low cost maintenance

#### Pumps

- Accurate dosing
- Dry run capability
- Handles slurries with up to 60–80% solids
- Easy and low cost maintenance