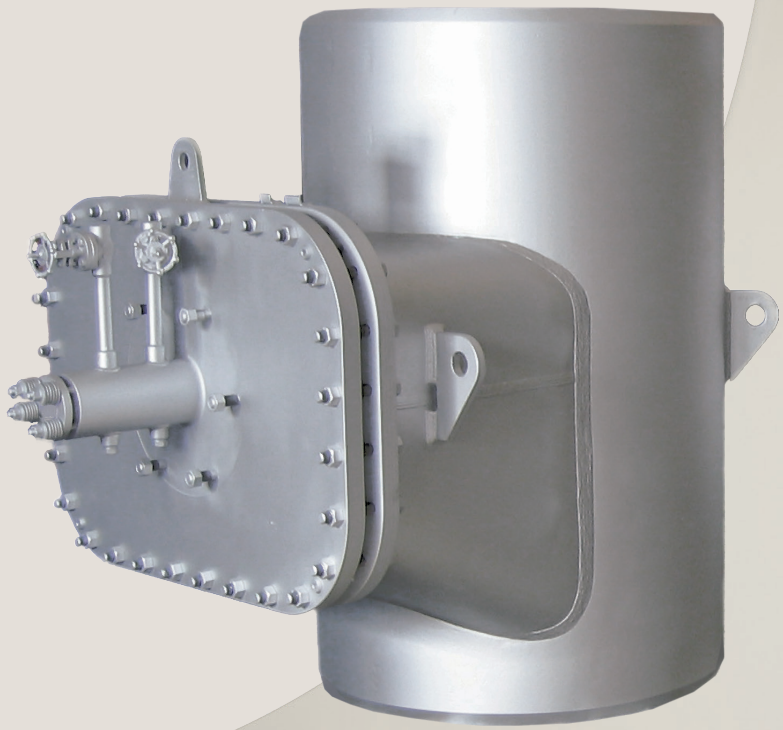
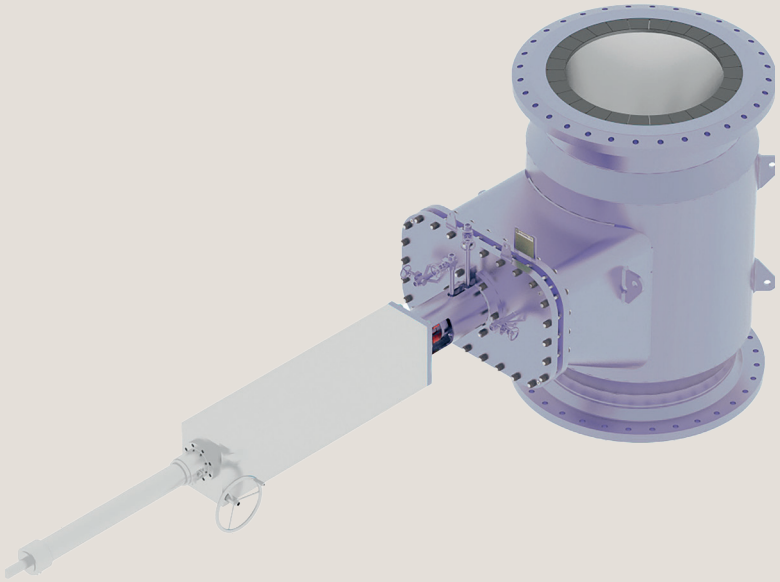
Process Automation

IMI Remosa

Slide Valves



Breakthrough engineering for a better world



Fluid Catalytic Cracking

Slide Valves

IMI Slide Valves are custom designed and engineered to meet the severe and harsh conditions in the FCC Reactor and Regenerator control loop: Spent Catalyst, Regenerated Catalyst, Cooled Catalyst, Recirculation Catalyst, and Flue Gas Double Disc. These valves are tailored to customer specifications and offer several advantages:

Custom Designed: They can be adapted to customer specifications without requiring significant structural modifications.

Reliable: With hundreds of installations worldwide, IM's design has been extensively tested and proven.

Approved by all FCC proccess licensors: This ensures their quality and compliance.

Easy to maintain: All internal components can be easily replaced.

Finite Element Analysis: The valve body undergoes advanced analysis to ensure maximum strength and durability.

Computational Fluid Dynamic: to maximise valve performance and to ensure a long-lasting plant service, in terms of flow-dynamic behaviour and the erosion resistance of the valve, for both single-phase and two-phases flows.

High-Quality Materials: Critical components are made from materials highly resistant to erosion and high temperatures.

Product specifications

Customised sizes: IMI Slide Valves can be tailored to various sizes. High-end materials and special alloys are used for protection against erosion. The erosion protection lining is designed to withstand key stresses, assuring longevity and reliability.

Temperature: Up to 960°C (1760°F).

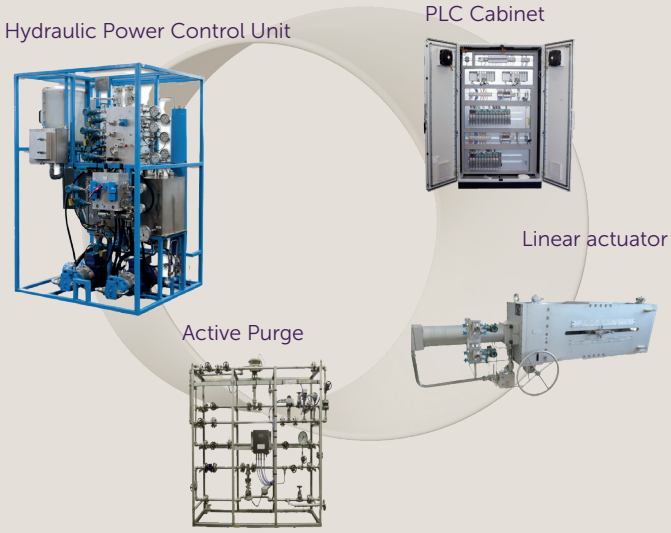
Handled Materials: FCC catalyst and flue gas, powders.

Internal's material: Made of carbon steel, stainless steel or low alloy steel.

Third-party certification up to SIL 3 available upon request.

Full package solution

IMI's engineering experts have developed integrated packages that combine valves, actuators, and hydraulic power control units. These packages are tailored to meet customer needs for high-temperature and erosive applications. The goal is to provide a comprehensive solution that ensures optimal performance and reliability in demanding process conditions.

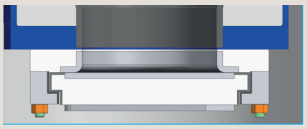


Valve Design for Catalyst and Flue Gas lines

Suspended Trim

Erosive environment

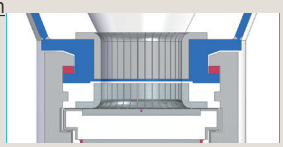
- Engineered to meet all FCC Licensor standards.
- Built for durability in harsh environments.
- Ensures precise control of flue gas and catalyst process flow.


Internal detail

Boltless Design

Erosive environment and compact design

- Superior strength and durability.
- Compact and efficient design.
- Easy maintenance and low operating costs.


Internal detail

High Erosion Resistant Design

High erosive environment

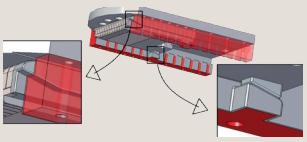
- Enhanced erosion resistance for internals.
- Extended operational lifespan.
- Simplified access to valve trim.


Internal detail

Tight Shutt-Off Design

Low leakage design

- Improved leakage class.
- Maintais the strength and durability of the standard design.
- The upgrade design can be implemented in the existing valve.


Internal detail

Application example

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