Slide Valves

Slide valves for fluid catalytic cracking (FCC) and flue gas lines
Slide valves for FCC and flue gas lines

Our slide valves are custom-designed and engineered to meet the severe and harsh conditions in the FCC Reactor and Regenerator control loop: Spent Catalyst; Regen Catalyst; Cooled Catalyst; Recirculation Catalyst; and Flue Gas Double Disc.

Key features

> Designed and tailored to customer specifications
> Integrated IMI Remosa Control System with Actuator and Hydraulic Power and Control Unit
> Hot wall and cold wall design options available
> Custom design able to fit in existing units without the need of major structural reworks
> Proven and reliable design with hundreds of installations worldwide
> Approved by all FCC Process Licensors

Benefits

> IMI Remosa Slide valves are designed for easy maintenance
  - All components that are subject to erosion and wear are easily replaceable.
> All body mounting surfaces are CNC machined in order to allow a precise matching of the components during the assembly stage
> Erosion and temperature are the most critical issues for this kind of application, the best available materials are used to protect the main components
  - The materials are applied in house by our own highly skilled employees
  - Special high-end alloys are used to manufacture the components subject to the most critical stresses
> The manufacturing process has an uninterrupted quality control workflow from procurement to final testing
  - A state of the art Finite Element Analysis of the complete valve body is used to check the structural reliability against pressure, temperature and line loads.
> Flow-dynamic behaviour of the valve in complex layout lines can be assessed in detail using computational flow dynamics simulations
## Product specification and dimensions

<table>
<thead>
<tr>
<th>Materials</th>
<th>Nickel alloys</th>
<th>Stainless Steel</th>
<th>Carbon Steel</th>
<th>Stellite hardfacing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body design</td>
<td>Hot wall</td>
<td>Cold wall</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Production range
Nominal diameter 40" - 150"

### Pressure limits
up to 4 bar (58 psi)

### Temperature limits
- up to 850°C (1560°F) cold wall design
- up to 950°C (1740°F) hot wall design

### Slides, cold shell design

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Spent</th>
<th>Regenerated</th>
<th>Recirculation</th>
<th>Catalyst cooled</th>
<th>Flue gas double disc</th>
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<tbody>
<tr>
<td>Up to 650°C</td>
<td>FCC Catalyst</td>
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<td>Flue Gas, Steam, Catalyst Fines</td>
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### Temperature
- Up to 850 °C
- Up to 950 °C
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### Orifice plate

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<tr>
<th>Material handled</th>
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**Note:** The listed materials and specifications are general examples and may vary depending on specific applications and requirements.