IMI REMOSA®

# Slide Valves

Engineering GREAT Solutions

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

IMI Critical Engineering

# 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.


Cold wall single disc slide valve (Top view)

## 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

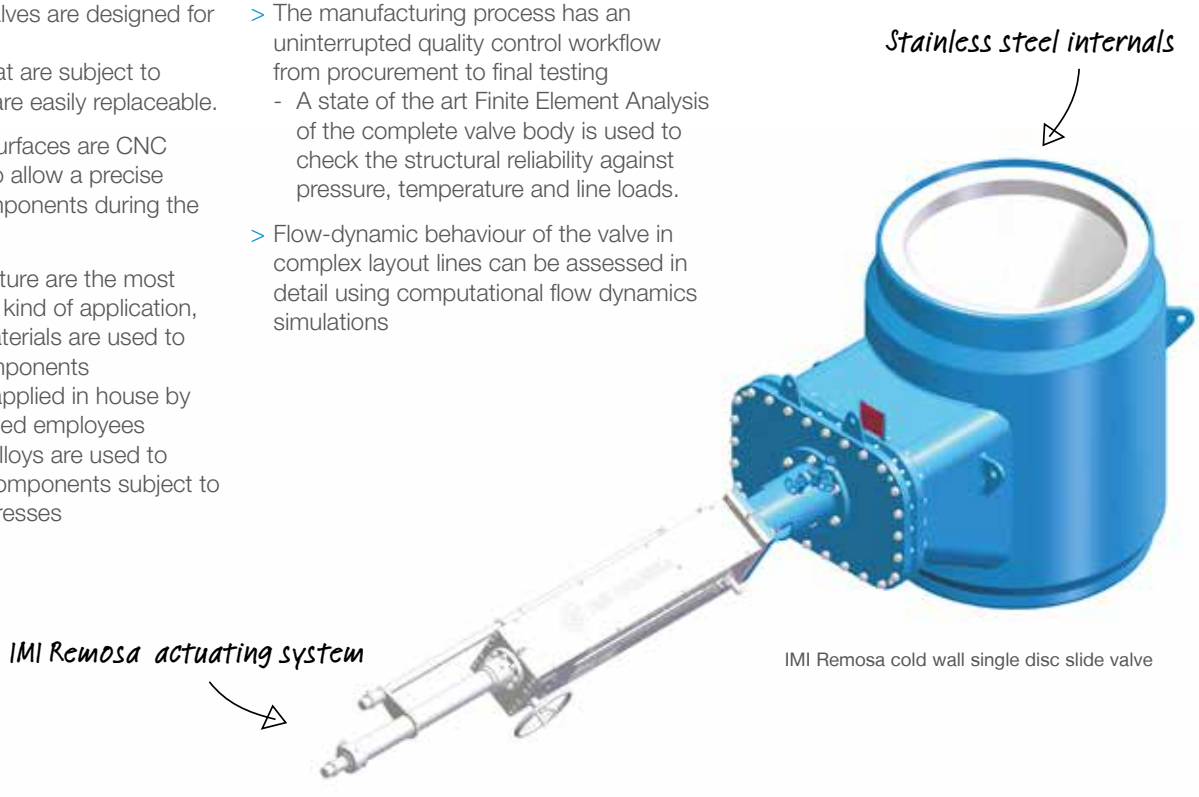
> IMI Remosa Slide valves are designed for easy maintenance
- All components that are subject to erosion and wear are easily replaceable.

> 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




IMI Remosa cold wall single disc slide valve

## Product specification and dimensions

**Materials**
Nickel alloys
Stainless Steel
Carbon Steel
Stellite hardfacing

**Body design**
Hot wall
Cold wall

**Production range**
Nominal diameter 40” - 150”

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

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

| Slide valve, cold shell design | Spent | Regenerated | Recirculation | Catalyst cooled | Flue gas double disc |
|---|---|---|---|---|---|
| **Temperature** | Up to 650 °C | Up to 950 °C | Up to 950 °C | Up to 950 °C | Up to 950 °C |
| **Material handled** | FCC Catalyst | FCC Catalyst | FCC Catalyst | FCC Catalyst | Flue Gas, Steam, Catalyst Fines |
| **Size** | Up to 150" | Up to 150” | Up to 150” | Up to 150” | Up to 150” |
| **Body** | SA-516 Gr. 70 with refractory and / or abrasion resistant lining | SA-516 Gr. 70 with refractory and / or abrasion resistant lining | SA-516 Gr. 70 with refractory and / or abrasion resistant lining | SA-516 Gr. 70 with refractory and / or abrasion resistant lining | SA-516 Gr. 70 with refractory and / or abrasion resistant lining |
| **Orifice plate** | SA-240 304H with abrasion resistant lining or hardfaced by Stellite #6 | SA-240 304H with abrasion resistant lining or hardfaced by Stellite #1 | SA-240 304H with abrasion resistant lining or hardfaced by Stellite #1 | SA-240 304H with abrasion resistant lining or hardfaced by Stellite #1 | SA-240 304H with abrasion resistant lining or hardfaced by Stellite #1 |
| **Disc** | SA-240 304H with abrasion resistant lining and/or hardfaced by Stellite #6 | SA-240 304H with abrasion resistant lining and/or hardfaced by Stellite #1 | SA-240 304H with abrasion resistant lining and/or hardfaced by Stellite #1 | SA-240 304H with abrasion resistant lining and/or hardfaced by Stellite #1 | SA-240 304H with abrasion resistant lining and/or hardfaced by Stellite #1 |
| **Guide** | SA-240 304H hardfaced by Stellite #6 | SA-240 304H hardfaced by Stellite #1 | SA-240 304H hardfaced by Stellite #1 | SA-240 304H hardfaced by Stellite #1 | SA-240 304H hardfaced by Stellite #1 |
| **Stem** | SA-182 F 304H hardfaced by Wallex 50 | SA-182 F 304H hardfaced by Wallex 50 | SA-182 F 304H hardfaced by Wallex 50 | SA-182 F 304H hardfaced by Wallex 50 | SA-182 F 304H hardfaced by Wallex 50 |

| Slide valve, hot shell design | Spent | Regenerated | Recirculation | Catalyst cooled | Flue gas double disc |
|---|---|---|---|---|---|
| **Temperature** | Up to 650 °C | Up to 850 °C | Up to 850 °C | Up to 850 °C | Up to 850 °C |
| **Material handled** | FCC Catalyst | FCC Catalyst | FCC Catalyst | FCC Catalyst | Flue Gas, Steam, Catalyst Fines |
| **Size** | Up to 150" | Up to 150” | Up to 150” | Up to 150” | Up to 150” |
| **Body** | SA-387 Gr. 11 with abrasion resistant lining | SA-240 304H with abrasion resistant lining | SA-240 304H with abrasion resistant lining | SA-240 304H with abrasion resistant lining | SA-240 304H with abrasion resistant lining |
| **Orifice plate** | SA-387 Gr. 11 with abrasion resistant lining or hardfaced by Stellite #6 | SA-240 304H with abrasion resistant lining or hardfaced by Stellite #1 | SA-240 304H with abrasion resistant lining or hardfaced by Stellite #1 | SA-240 304H with abrasion resistant lining or hardfaced by Stellite #1 | SA-240 304H with abrasion resistant lining or hardfaced by Stellite #1 |
| **Disc** | SA-387 Gr. 11 with abrasion resistant lining and/or hardfaced by Stellite #6 | SA-240 304H with abrasion resistant lining or hardfaced by Stellite #1 | SA-240 304H with abrasion resistant lining or hardfaced by Stellite #1 | SA-240 304H with abrasion resistant lining or hardfaced by Stellite #1 | SA-240 304H with abrasion resistant lining or hardfaced by Stellite #1 |
| **Guide** | SA-387 Gr. 11 hardfaced by Stellite #6 | SA-240 304H hardfaced by Stellite #1 | SA-240 304H hardfaced by Stellite #1 | SA-240 304H hardfaced by Stellite #1 | SA-240 304H hardfaced by Stellite #1 |
| **Stem** | SA-182 F 11 hardfaced by Wallex 50 | SA-182 F 304H hardfaced by Wallex 50 | SA-182 F 304H hardfaced by Wallex 50 | SA-182 F 304H hardfaced by Wallex 50 | SA-182 F 304H hardfaced by Wallex 50 |

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