

Slide Valves



*Engineering
GREAT Solutions*

**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
- > Custom design able to fit in existing units without the need of major structural reworks
- > Integrated IMI Remosa Control System with Actuator and Hydraulic Power and Control Unit
- > Proven and reliable design with hundreds of installations worldwide
- > Hot wall and cold wall design options available
- > 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

Carbon steel body



Cold wall single disc slide valve (Top view)

Stainless steel internals



IMI Remosa cold wall single disc slide valve

IMI Remosa actuating system



Product specification and dimensions

Materials

Nickel alloys
Stainless Steel
Carbon Steel
Stellite hardfacing

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

Body design

Hot wall
Cold wall

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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