Process Automation

IMI Remosa Withdrawal Valves



Breakthrough engineering for a better world



Fluid Catalytic Cracking

Withdrawal Valve

IMI Catalyst Withdrawal Valves are designed for severe applications, including high temperatures and high erosion service.

Two different configurations are available: control version and on/off version. These valves play a critical role in the fluid catalytic cracking (FCC) process, where catalyst transfer and withdrawal is essential.

Severe Application Design: IMI catalyst withdrawal valves are specifically engineered to withstand harsh conditions. They operate reliably even at extreme temperatures and subject to erosive flow.

Two available designs:

Control version: this design includes a replaceable orifice plate and guides. It allows precise control of catalyst flow during withdrawal.

On/Off version: this design provides straightforward open/close functionality for catalyst withdrawal.

In both cases the valve body and disc are fabricated from plate, and the stem is fabricated from a monolithic, forged piece. No cast material is used for this valve.

Valve port area, stem and disc are hard-faced with Stellite™ #6 to prevent erosion due to the catalyst flow.

Product specifications

IMI Powder Withdrawal Valves are designed for severe applications, including high temperatures and high erosion service.

Body Design: the valve is designed as hot wall configuration.

Nominal Diameter: Up to 24 inches.

Temperature Limits: Up to 760°C (1400°F) for hot-wall design.

Materials: carbon steel, chrome steel, stainless steel, Stellite hard facing.

Service: fluidized powder/catalyst.

Actuators: manual, pneumatic, or hydraulic type.

End Connection: lug type or flanged type.

Withdrawal versions

Control valve - Exploded view

- Suspended trim design.
- Replaceable internals.
- Abrasion resistant lining on disc.
- Completely customisable.



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On/Off valve - Exploded view

- Disc Wedge Design.
- Reduced footprint.
- Stellite protected disc.
- Completely customisable.

Benefits

IMI Withdrawal Valves can be manufactured for either shut-off or control service. The control version includes replaceable internals (including disc, guides and stem) for precise flow control.

Exellent shutt-off performance: The disc leading edge and stem T-head are designed to push the disc onto the seat in closed position. This design ensures an excellent shut-off seal between the disc and the seat.

Material and fabrication: valve body and disc are fabricated from plate. The stem is made from a monolithic forged piece (no cast material is used). The valve port area, stem, and disc are hardfaced with Stellite #6 to prevent erosion.

The valves are designed in accordance with the following industry standards: ASME B31.3; ASME Section VIII, Division 1; ASME Section VIII, Division 2.

IMI valves and actuating systems can be supplied with the CE stamp in accordance with the European Pressure Equipment Directive (PED) and comply with the European Directive for Equipemnt and Protective Systems in potentially Explosive Atmospheres (ATEX). Other certifications are available upon request.



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