IMI Remosa

IMI Remosa is the world leader in the design and manufacture of valves and actuating systems for FCC and Power Recovery Trains.

Founded in 1955, IMI Remosa is the world leader when it comes to specialising in the design and manufacture of valves and hydraulic actuating systems for critical applications in petrochemical industries.

Thanks to its highly engineered and robust designs, IMI Remosa’s valves and control systems give unrivalled performance and reliability. This has resulted in IMI Remosa becoming a partner with process licensors and engineering procurement companies, as well as owners/operators. Our wide range of products includes:

- Valves & control systems design and manufacturing
- Field service, installation and commissioning
- Turnaround and overhaul support
- FEA, CFD and Advanced Engineering simulations
- Retrofitting and upgrade of third party equipment
- Troubleshooting and predictive maintenance plans

Butterfly Valve
Critical applications

Downstream refining industry
IMI Remosa is the world leader in the design and manufacture of control and shut-off valves used in the Fluid Catalytic Cracking (FCC) process and in the Expander Power Recovery Train, providing a complete and integrated package of valve, actuator and hydraulic power and control unit. All the equipment is highly customisable and tailored engineered to meet exact customer needs.

IMI Remosa valves and control systems are designed to withstand the most severe process conditions of high temperatures (up to 980°C), erosion, creep and corrosion. We continuously invest in state-of-the-art equipment, with Finite Element Analysis and Computational Flow-dynamics capabilities, coupled with a no-compromise manufacturing approach. IMI Remosa has been included in the vendor list of all major Process Licensors. Reliability and safety are among our major success factors, with design redundancy for critical components involved in the control loops and in the emergency shut-down.

High temperatures and erosive applications
The main products involved in FCC process are slide valves for reactor and regenerator control, such as spent catalyst, regen catalyst, cooled catalyst, recirculation catalyst and flue gas double disc valves. In the Power Recovery Train section, our large diameter butterfly valves (up to 130”) are able to precisely control the flow of the expander and to shut down the flow in less than 0.4 seconds in case of emergency. IMI Remosa also supplies a patented Expander Isolation Valve, allowing safe isolation of the Expander Unit (in case of mechanical failure or maintenance) while keeping the FCC process active.

IMI Remosa supplies all the largest pendulum type diverter valves in the world: up to 4 meters diameter, 180 metric tons weight. We are also the market leader in the design of variable orifice valves for flue gas line, which can be used to replace entirely the static orifice chamber, providing a flexible process control. We can also supply the plug valve, the catalyst withdrawal valve and air check valve.

Our key technologies

Valves
IMI Remosa valves are always designed for ease of maintenance. All components 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. As 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 application of these protections is performed in-house by highly skilled operatives.

Special high-end alloys are used to manufacture any components subject to the most critical stresses – like the shafts for the butterfly valves – with an uninterrupted quality control workflow running from procurement to final testing.

Hydraulic control systems and actuators
IMI Remosa is able to provide a complete control solution, which perfectly integrates with its valves.

Based on Hydraulic Power and Control Units (HPCU), IMI Remosa actuators provide reliability and ease of operation. HPCUs are completely customisable based on customer standards, application specification and national regulations, and always feature the latest technology.

Control systems are based on top-class PLC manufacturers, and can be installed in a remote safe area or locally on the HPCU, thus complying with all the Hazardous Area regulations. Simplex or redundant power supplies, CPU, I/O and communication links are available to meet high availability and/or failsafe configurations.

IMI Remosa developed custom parametric logic, which ensures repeatability of system behaviour and quick reconfigurability based on customer needs. Special features (i.e. standby pump automatic test, anti-sticking, electronic thrust control) provide advanced predictive diagnostics for early failure detection.

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