IMI REMOSA®

Isolation Valves

Engineering GREAT Solutions

Double clapet isolation valve

IMI Critical Engineering

Double clapet isolation valve

IMI Remosa's double clapet isolation valve is a new patented design to guarantee a tight shut-off under the most extreme operating conditions, including temperature and pressure. Installed in the Fluidised Catalytic Cracker (FCC) power recovery unit, it allows the maintenance of the Expander while avoiding the shut-down of the FCC.

UNIC isolation solution

Key features

> Tight shut-off
> Innovative metal to metal seal design
> Operates in extreme process conditions
> Negligible energy losses
> Hot or cold wall design
> Full metal construction

Benefits

When the valve is installed in the FCC's power recovery unit its innovative, patented design isolates the line so that maintenance can be carried out on the Expander without shutting down the FCC

> Unique disc and seat design
- Stellite hardfacing on contact areas
- Disc floating to accommodate thermal expansion
- Erosion prevention by sealing recessed design of sealing
- Class V leakage certified

> Double clapet
- Isolation achieved with two discs
- Nitrogen valve body pressurizatior
- No risk for operators to be expose to hot gas

> Optimized flow dynamic design
- Undisturbed process flow
- Negligible power losses
- No erosion on sealing surfaces

> Operated by IMI Remosa Hydraulic Power Unit
- Open/Close sequence implemented in the control unit

Designed to avoid AP across the valve

Typical applications

Specifically designed for a power recovery unit of the refinery's Fluid Catalytic Cracking, can be used in any extreme temperature, pressure and erosive process

Integrated package valve-control system

Product specification and dimensions

Materials
Nickel alloys
Stainless Steel
Carbon Steel
Stellite hardfacing

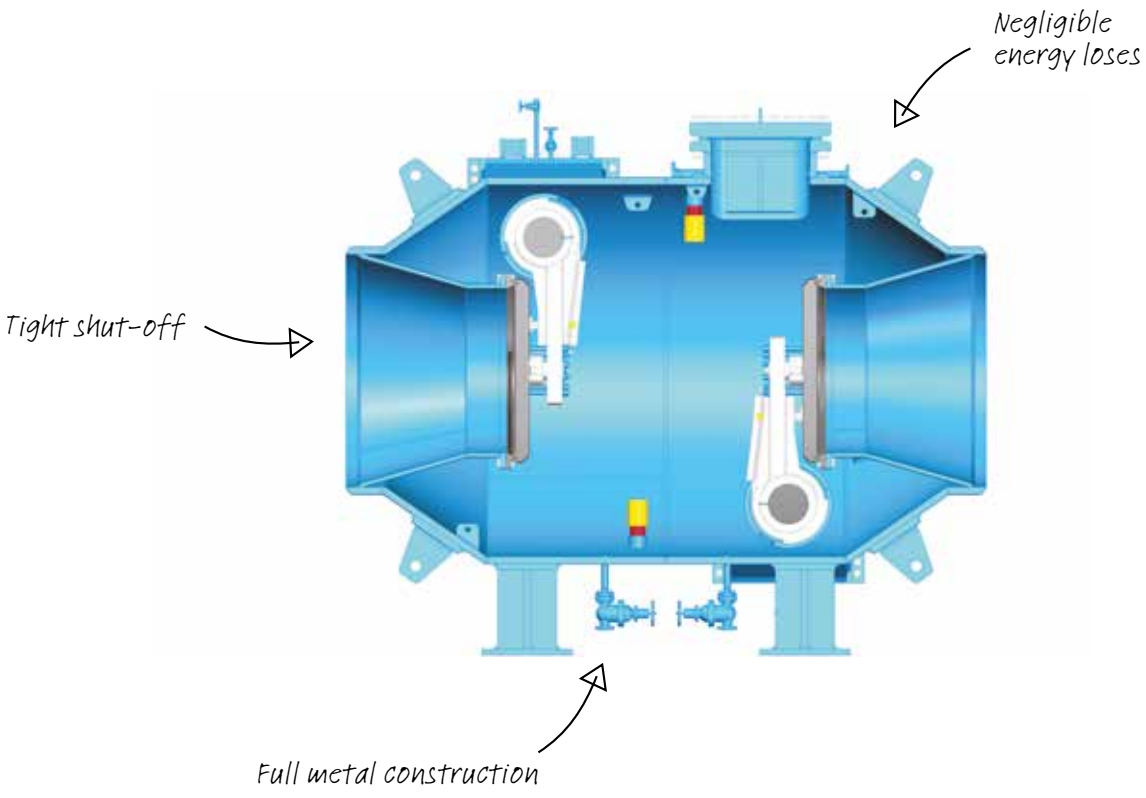
Body design
Hot wall
Cold wall

Production range
ND 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)

Hot shell design	Expander Inlet	Expander Outlet	Expander Outlet
Temperature	up to 982°C (1800°F)	up to 650°C (1200°F)	up to 982°C (1800°F)
Material handled	Flue gas	Flue gas	Flue gas
Size	from 40” to 150”	from 40” to 150”	from 40” to 150”
Body	SA-240 304H	SA-387 Gr11	SA-240 304H
Disc	SA-240 304H seat hardfaced by stellite #1 or #6	SA-387 Gr11 seat hardfaced by stellite #6	SA-240 304H seat hardfaced by stellite #1 or #6
Shaft	Alloy X-750	Alloy X-750	Alloy X-750
Actuating system	Electrohydraulic	Electrohydraulic	Electrohydraulic



IMI Remosa
Viale Pula 37
09123
Cagliari
Italy

Tel: +39 (0)70 202 0252

imiremosa.sales@imi-critical.com

IMI Critical Engineering
Lakeside, Solihull Parkway
Birmingham Business Park
Birmingham B37 7XZ
United Kingdom

Tel: +44 (0)121 717 3700
Fax: +44 (0)121 717 3701

www.imi-critical.com

IMI
Critical Engineering