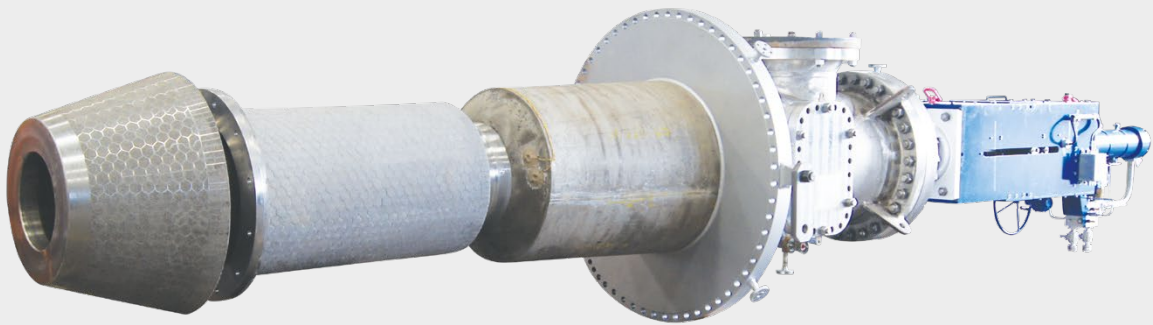



Plug Valves




Engineering
GREAT Solutions

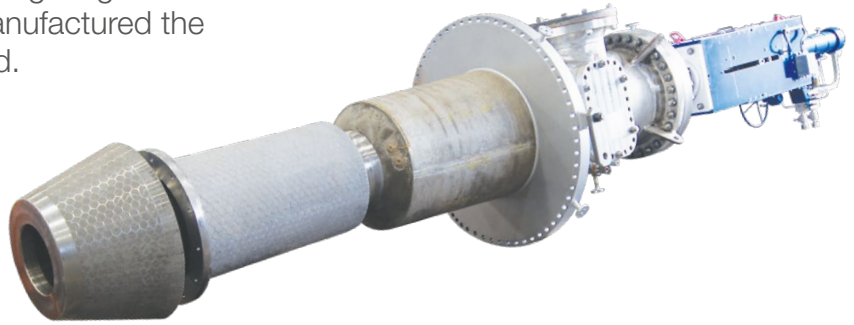
- > Hollow type
- > Cone type

FCC Plug Valves

Catalyst circulation in the fluid catalytic cracking (FCC) unit can be controlled using a plug valve. IMI Remosa plug valves are specifically designed in accordance with each licensor's process specifications.

The plug valve is perhaps the most critical in the FCC reactor and regenerator control loop.

IMI Remosa prides itself on having the largest global install base for this valve type, as well as having manufactured the largest plug valve of its kind in the world.



Key features

> Cone and seat assembly are manufactured from a monolithic forged piece of stainless steel SA182 F304H

> Cone and seat are lined with abrasion resistant material to minimise the catalyst erosive action and reduce the seat wear caused by the contact between plug and seat

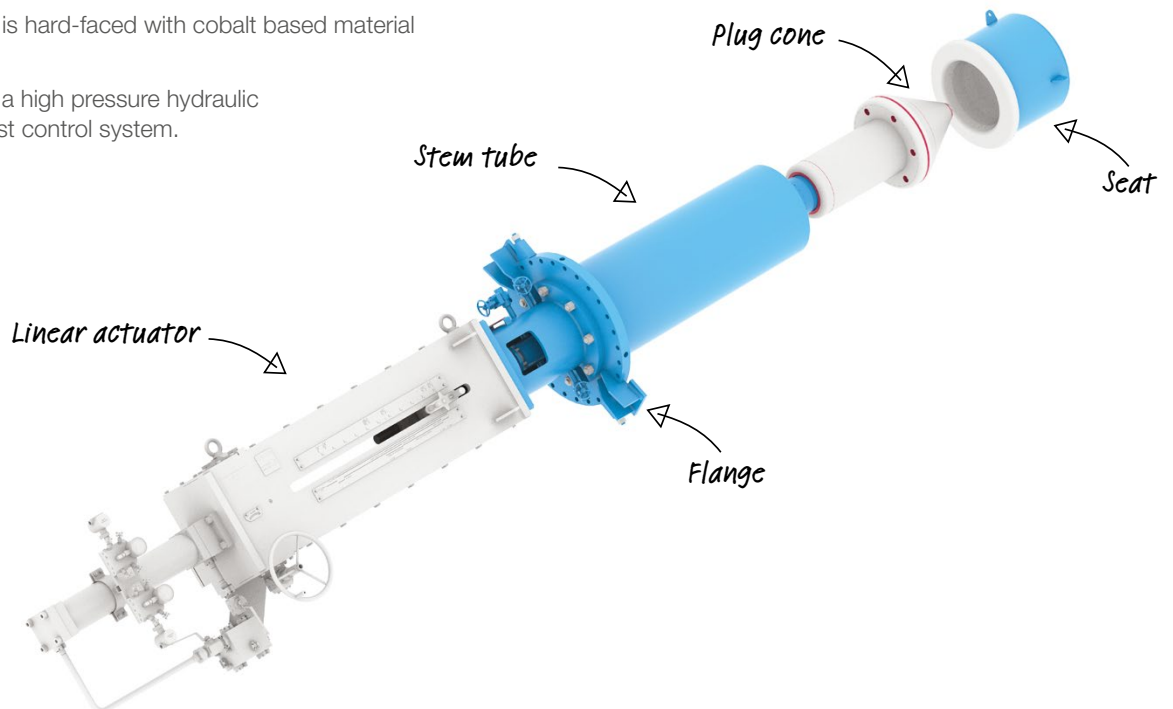
Design and operation

IMI Remosa plug valves are fabricated from plates and forged material. No cast parts are used in the valve fabrication.

The plug is protected from erosion by an abrasion resistant hex-mesh lining. The lining is engineered to assure a perfect contact between the plug and seat cone.

The sliding part of the valve is hard-faced with cobalt based material to reduce wearing.

The valve is operated using a high pressure hydraulic power control unit with thrust control system.



Product specification and dimensions

Materials

Abrasion resistant lining
SA182 F304H
TP 304H

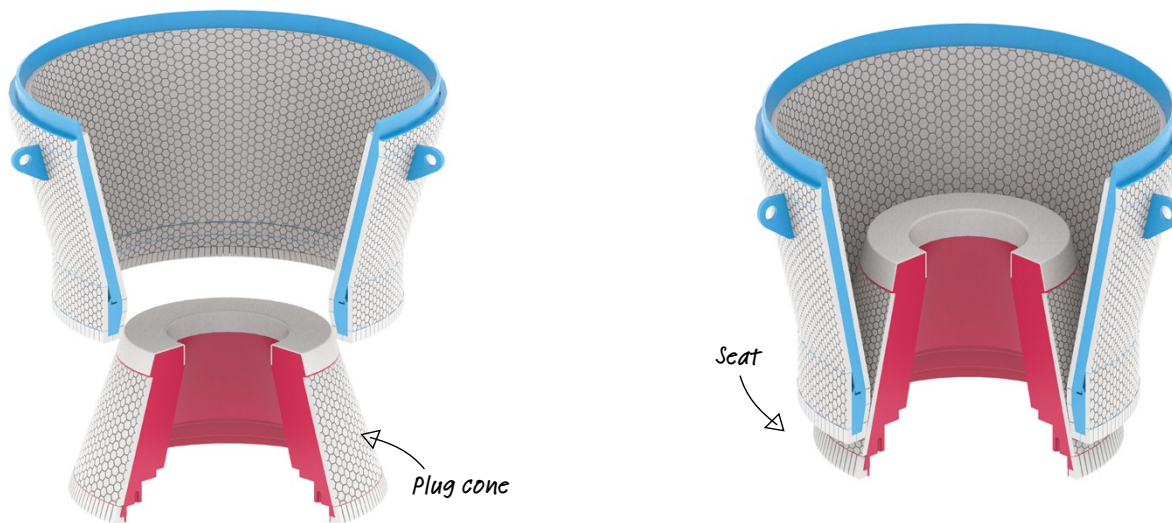
Body design

Hot wall
Cold wall

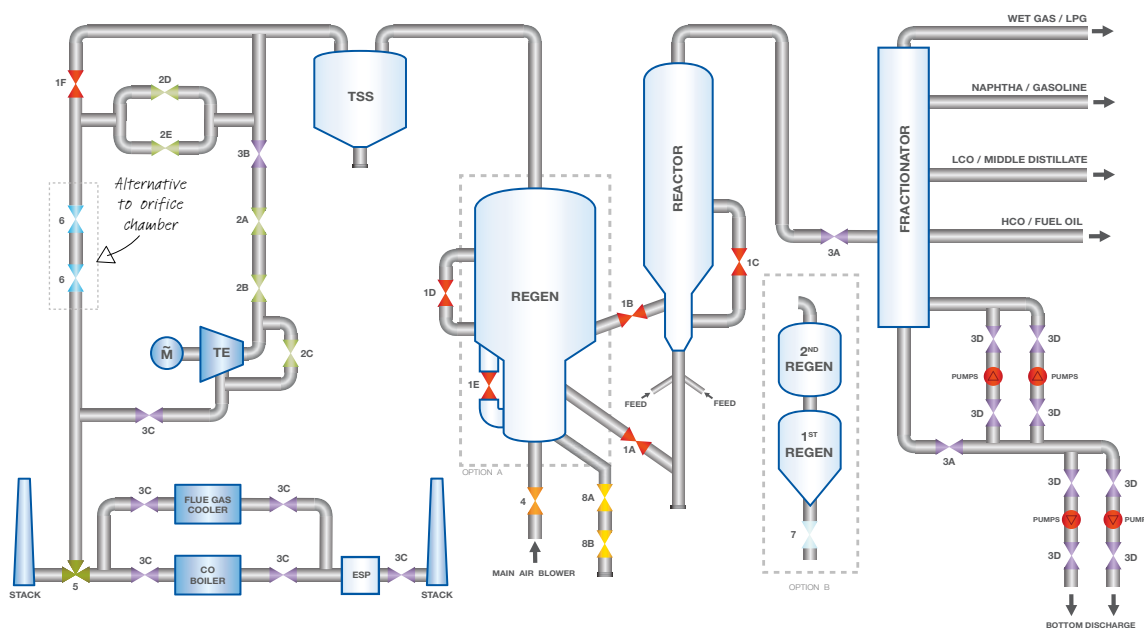
Temperature limits

Up to 780°C (1436°F)

Plug and seat view (Hollow type)



FCC & PRT process layout



1. Slide valves

- 1a. Regenerated catalyst
- 1b. Spent catalyst
- 1c. RX catalyst
- 1d. Recirculated catalyst
- 1e. Cooled catalyst
- 1f. Flue gas

2. Butterfly valve

- 2a. Inlet control
- 2b. Inlet shutoff
- 2c. Trim bypass
- 2d. Main bypass
- 2e. Small bypass

3. Isolation valve

- 3a. Fractionator double disc through conduit
- 3b. Double claret
- 3c. Goggle
- 3d. Special double disc gate

4. Special check valve

- 5. Diverter valve

6. Variable orifice valve

7. Plug valve

8. Catalyst withdrawal valve

- 8a. Control
- 8b. Isolation

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