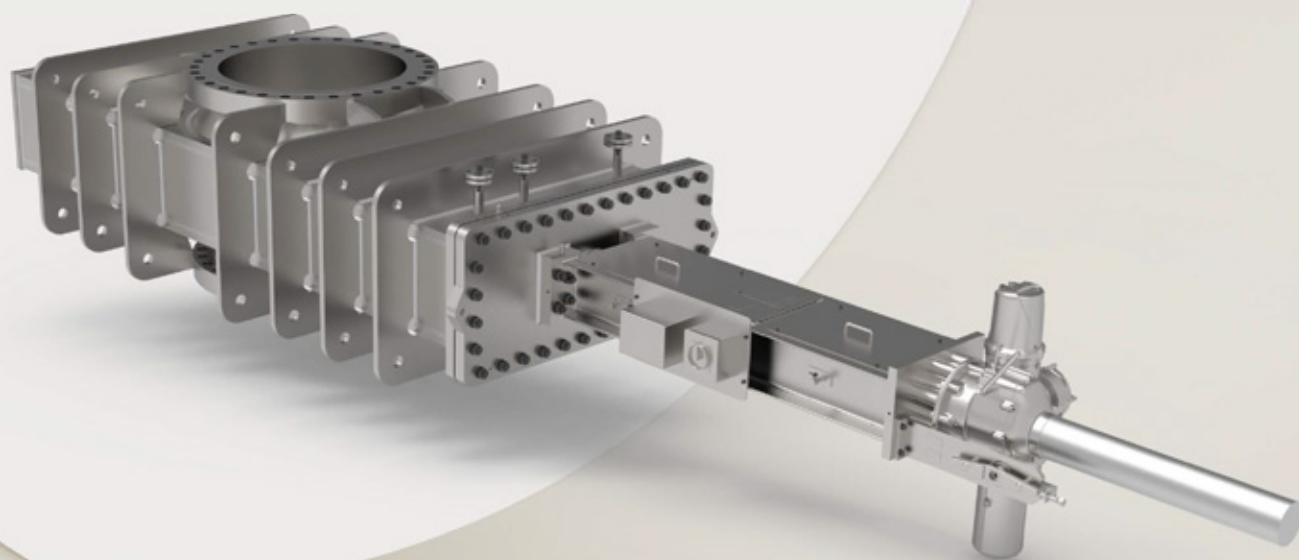


Process Automation

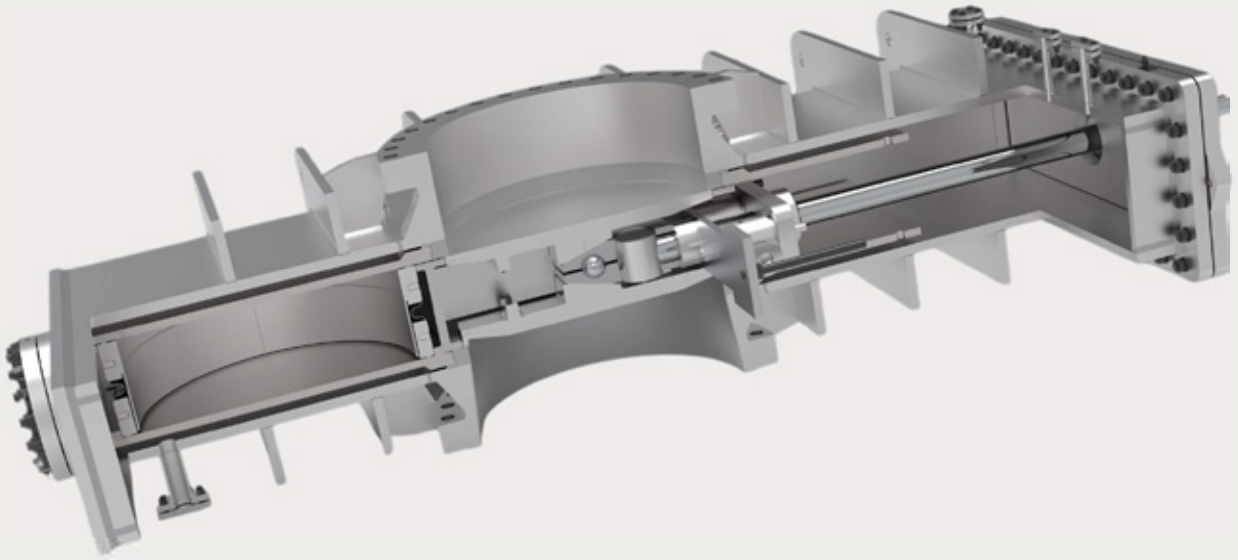
IMI Z&J



Delayed Coking Top Unheading



Breakthrough
engineering for
a better world



Delayed Coking

Top Unheading

The DC Top Unheading device design is based on the multiple-use Double Disc Through Conduit Type Gate Valve. It has enhanced capability to deliver any higher pressure requirements or frequent tightening in delayed coking applications.

Key Features

- Two independent discs ensure limited thermal distortion, less steam, and less erosion.
- Separate discs for true double block and purge.
- Active mechanical seating force for high tightness.
- Corrosion and wear-resistant hard-faced seats.
- The guided carrier between two plates prevents coke fines in the valve body.
- No cooling water required.
- Minimal spare parts.
- Actuator options: electric and hydraulic.
- Two-disc design reduces the risk of hydrocarbon gas leakage.

Benefits

- Safety – double block and purge –API 598 shut off.
- Low steam consumption.
- Reduction in fugitive emissions.
- Reliable design.
- Easy on-deck inspection and maintenance.
- Low maintenance costs.
- Reduced cycling time.

Specification

Electric Actuated TUD

Standard Design

Dimensions

L 6.82 m x W 1.77 m x H 1.0 m (face to face)
L 269" x W 70" x H 40" (face to face)

Compact Design

Dimensions

L 5.84 m x W 1.66 m x H 1.0 m (face to face)
L 230" x W 66" x H 40" (face to face)

Weight

10350 kg / 22800 lbs

Electric Motor

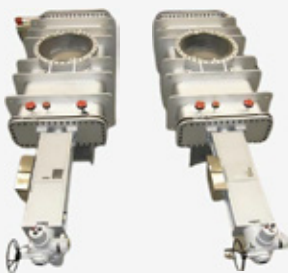
Smart multiturn actuator including motor controls

Ambient Temperature

-40 °C to + 60 °C / -40 °F to 140 °F

Back-up

Mechanical operation by hand wheel or with pneumatic Air-Gun



Standard Design



Compact Design

Hydraulic actuated TUD

Dimensions

L 7.12 m x W 1.77 m x H 1.0 m (face to face)
L 269" x W 70" x H 40" (face to face)

Weight

11000 kg / 25250 lbs

Hydraulic Actuator

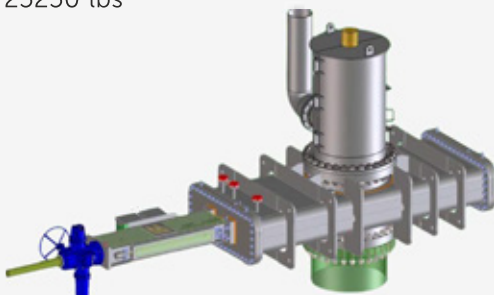
Heavy duty hydraulic cylinder

Ambient Temperature

-40 °C to + 60 °C / -40 °F to 140 °F

Back-up

Mechanical operation by hand wheel or with pneumatic air gun





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FLUID CONTROL



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