Process Automation

IMI Z&J

Delayed Coking Bottom Unheading Compact Design

ΙΜΙ



Breakthrough engineering for a better world



Delayed Coking Bottom Unheading

Compact Design

The Bottom Unheading device is based on our well-proven Double Disc Gate Valve Design. Its fully automated compact design is the safest, most robust, and reliable solution for the Delayed Coker Application.

Key Features

- Compact Valve Body smaller face-to-face dimensions and less weight.
- Two independent discs=> limited thermal distortion=> less steam=> less erosion.
- Two independent discs=> true double block and purge.
- Two independent discs and multiple seals result in lowest steam consumption.
- Very low steam consumption=> high energy savings => environmental safety.
- Less corrosion & wear due to resistant hard-faced seats.
- Guided carrier between two plates=> preventing coke fines in valve body=> no cooling water required.
- Easy inspection of upper seat & disc.
- Minimal spare parts.
- 100% actuator redundancy.
- Actuator options: electric or hydraulic.
- Low potential for HC's escaping to the atmosphere.
- IMI's DC Revamp Solution.

Benefits



- Easy-on deck maintenance.
- Low maintenance with minimal downtime.
- Low steam consumption.
- Cycle time reduction optimised production output.
- Fully remote operation, no operator on deck during unheading.
- True double block & purge 2 independent discs provide individual sealing.

Specification

Dimensions

L 9.5 m x W 2.56 m x H 0.79 m (face to face) L 374" x W 101" x H 31" (face to face)

Actuator Types

IMI Z&J electrical or hydraulical actuator types

Weight 40000 kg / 88000 lbs

Purge Media Steam

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Ambient Temperature -40 °C to + 60 °C / -40 °F to 140 °F

Leakage Rate API 598



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