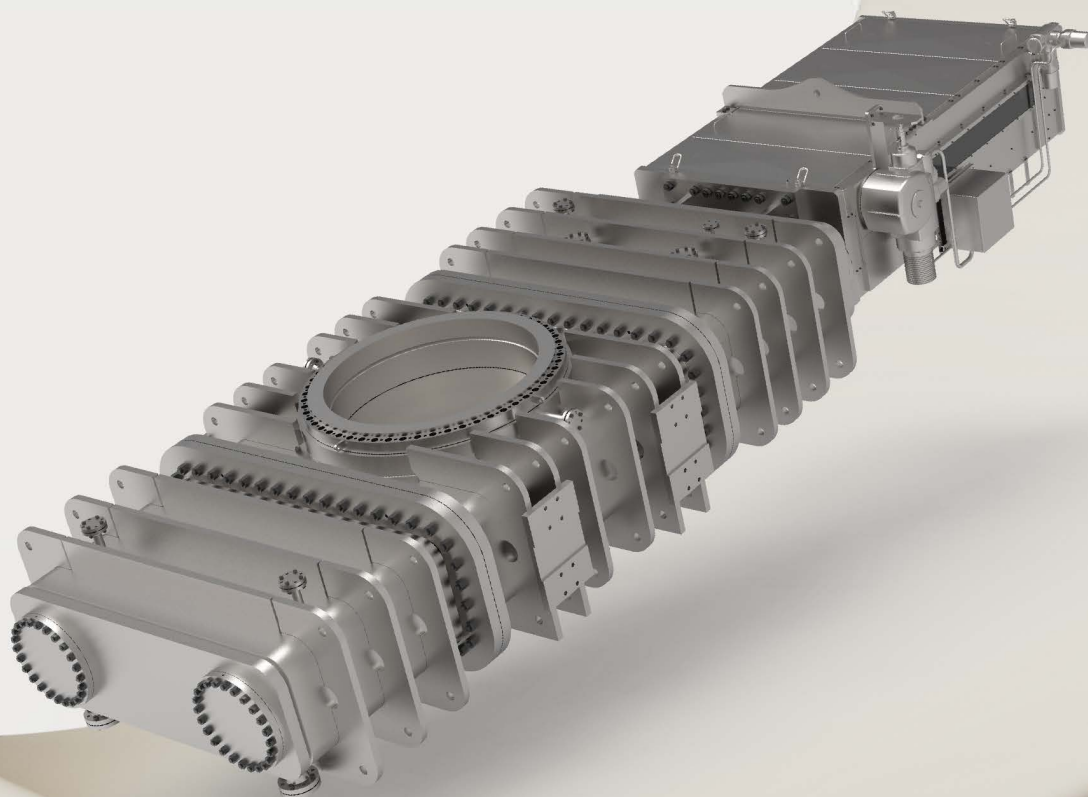


# Process Automation

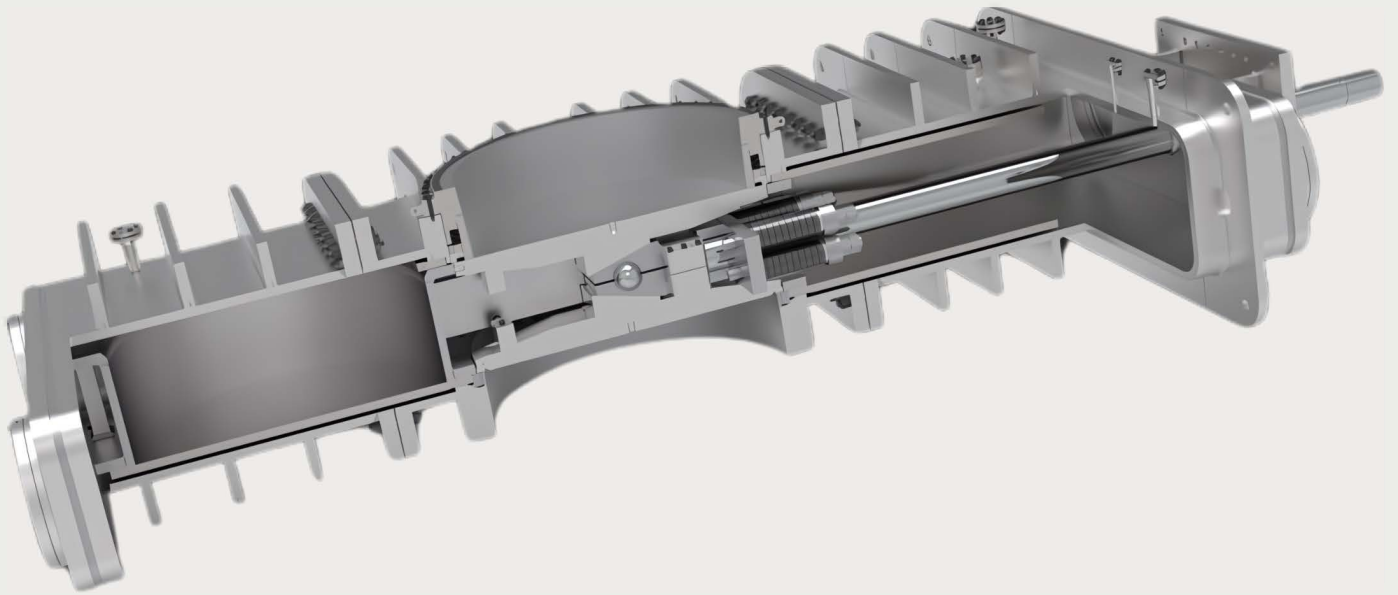
IMI Z&J



## Delayed Coking Bottom Unheading



Breakthrough  
engineering for  
a better world



## Delayed Coking

# Bottom Unheading

The Bottom Unheading Device is based on our well-proven Double Disc Gate Valve Technology. Its fully automated design ensures safe and reliable DCU unheading operations.

### Key Features

- Two Independent Discs
- Limited Thermal Distortion
- Reduced Purge Steam Requirement
- Less Erosion
- True Double Block and Purge
- Active Mechanical Seating Force
- Increased Tightness & Safety
- Corrosion & Wear Resistant Design
- Hard-Faced Body and Disc Seats
- Seats Fully Protected in Open and Closed Position
- Guided Carrier Frame between the Discs, Preventing Coke Fines entering the Valve Cavity
- No Cooling Water Requirements
- Easy Inspection of Upper Seat and Disc
- Minimal Spare Parts Stocking
- 100% Actuator Redundancy
- Actuator Options: Electrical or Hydraulic
- Safe, Robust and Reliable

## Benefits

- Safety - Double Block and Purge -API 598 shut-off
- Economical operation with low steam consumption
- Reduction in fugitive emissions
- Reliable design
- Easy On-Deck inspection and maintenance
- Low maintenance cost
- Reliable and robust design
- Cycle time reduction



## Specification

### Dimensions

L 9.7 m x W 2.92 m x H 1.3 m (face to face)

L 382" x W 115" x H 51.5" (face to face)

### Actuator Types

IMI Z&J electrical or hydraulic actuator types

### Weight

61500 kg / 135600 lbs

### Purge Media

Steam

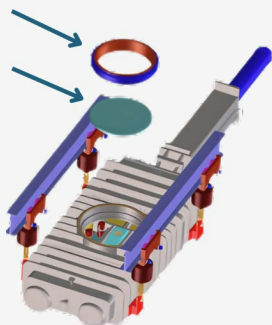
### Ambient Temperature

-40 °C to + 60 °C / -40 °F to 140 °F

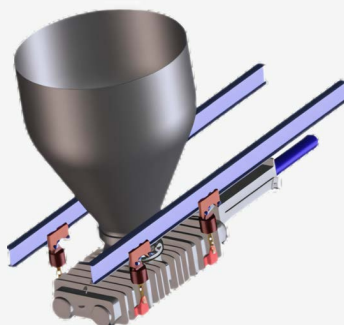
### Leakage Rate

API 598

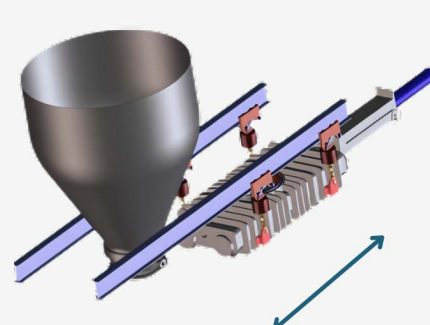
## On-Deck Maintenance Sequence



Only 2 parts to remove



On deck maintenance system  
Operating position



On deck maintenance system  
Inspection position

# Process Automation

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