

# Delayed Coking Top Unheading

Double Disc Technology,  
True Double Block and Purge, Active Seating Force  
and Low Steam Consumption



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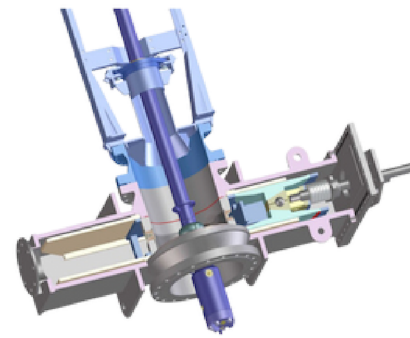
# Delayed Coking Top Unheading

The DC Top Unheading device design is based on our well proven and multiple used Double Disc Through Conduit Type Gate Valve. Its properties were increased for the higher demand for pressure and frequent tightening performance in the delayed Coker application.



## Key Features

- > Two independent discs => Limited thermal distortion => less steam => less erosion.
- > Two independent discs => true double block and Purge.
- > Active mechanical seating force => high tightness.
- > Corrosion & wear resistant hard-faced seats.
- > Guided carrier between two plates => preventing coke fines in valve body.
- > No cooling water required.
- > Minimal spare parts.
- > Actuator options: Electric or Hydraulic.
- > Low potential for HC's escaping to the atmosphere due to two (2) disc design (double isolation barrier).



## Benefits

- > Safety - Double Block and Purge - API 598 shutoff.
- > Low steam consumption.
- > Reduction in fugitive emissions.
- > Reliable design.
- > Easy On-Deck inspection and maintenance.
- > Low maintenance cost.
- > Cycle time reduction.

## 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)

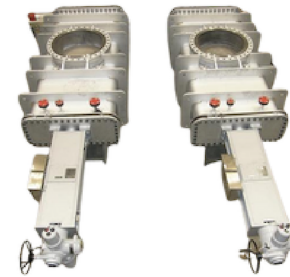
### Compact Design

#### 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



Standard Design

### Electric Motor

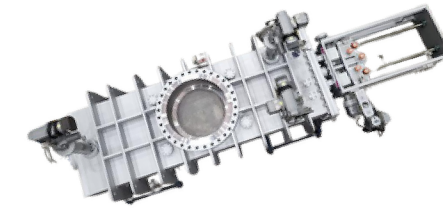
Smart multiturn actuator including motor controls

### Ambient Temperature

-40 °C to + 60 °C / -40 °F to 140 °F

### Back-up

Mechanical operation by hand wheel or with pneumatic Air-Gun



Compact Design

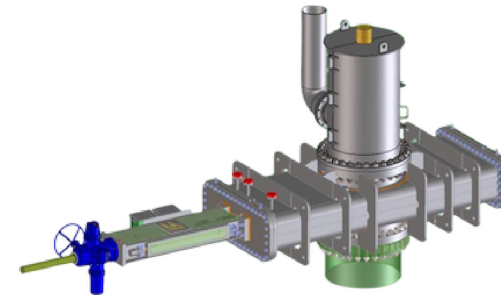
## Hydraulic actuated TUD

### 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