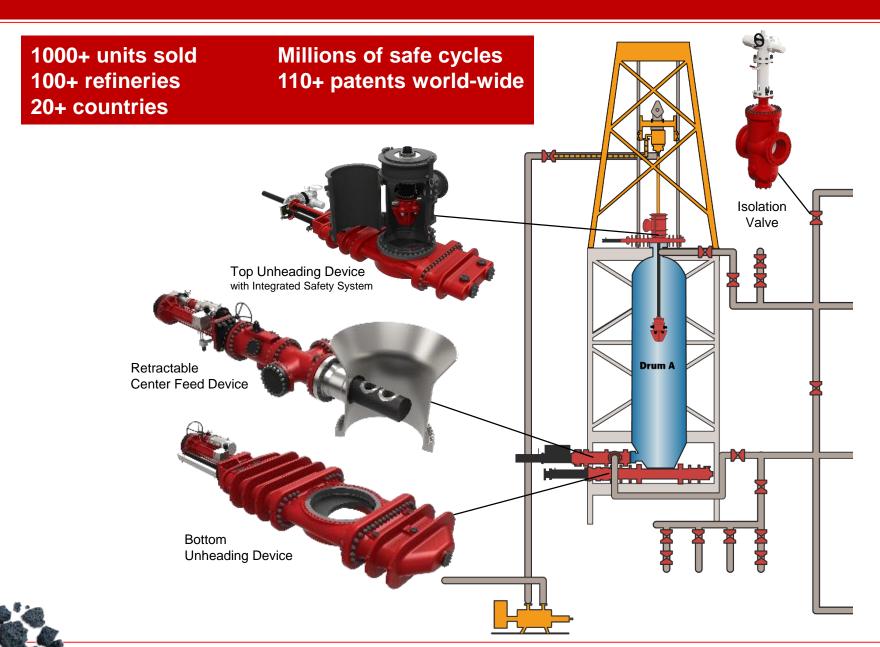




Innovation and Experience

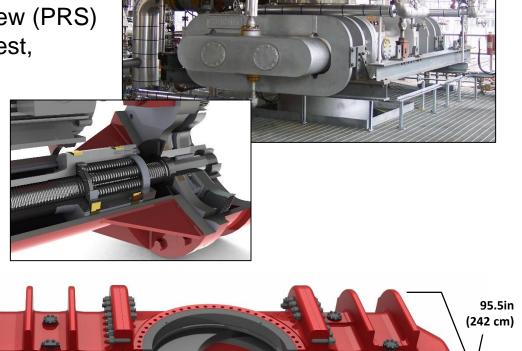


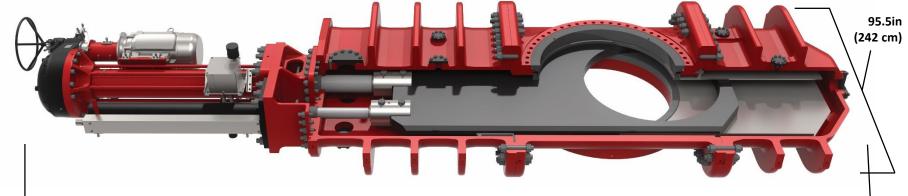


Bottom Unheading Device



- Technology proven since 2001
- Approximately 400 units sold world-wide
- Innovative Planetary Roller Screw (PRS) electric actuator (smallest, lightest, most efficient design)
- Ultra-low steam consumption





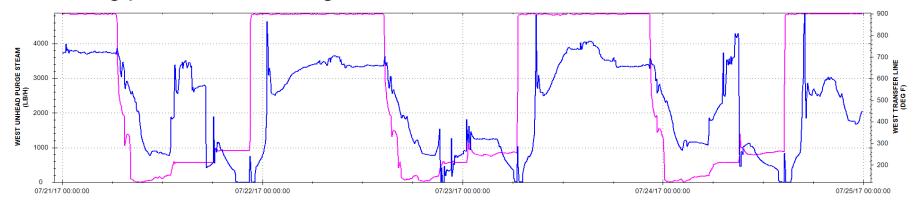
351.7 in (893 cm)

Bottom Unheading Device Steam Consumption

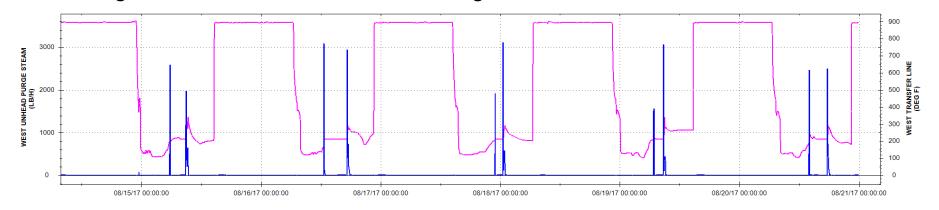


Results from design improvements

Utilizing previous seat design



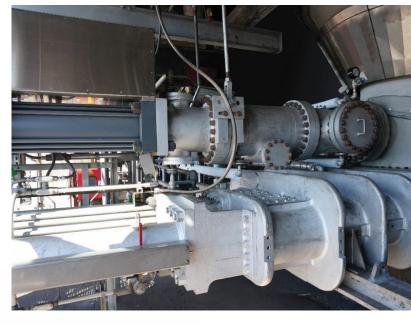
Utilizing Gen II welded bellows seat design



Retractable Center Feed Device



- Technology proven since 2011
- 34 units sold / 50+ in negotiations
- Improved feed and quench channeling
- Reduced drum stresses
- Increased drum life





Top Unheading Device and Safety System



- Technology proven since 2006
- 250+ units sold
- Electric and hydraulic actuation options
- Built-in drill stem guide / blowout diverter



Isolation Valve



- Technology proven since 2008
- 100+ units sold
- Ultra-low steam consumption
- In-line maintainable
- Low operating costs

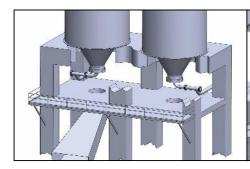


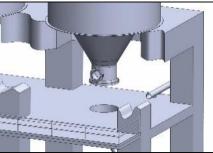


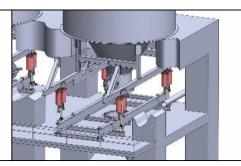
Installation Services (Revamp Projects)

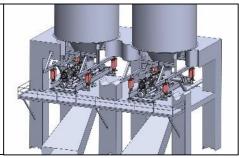


- Leveraging lessons learned from over 100 installations
- In-house engineering, design, procurement, and construction management
- Work with your EPC or direct hire
- Goal: streamlined low-cost revamp installation



















Salt Lake City, UT

Houston, TX



Barnsley, UK



Calgary, Canada



Coimbatore, India



Why Choose DeltaValve



- Experience
- Technological Innovation
- Product Quality/Certifications
- Global sourcing and delivery capability
- Global aftermarket service/support



Why Choose DeltaValve



- Experience (Lessons learned from 100+ installations)
 - Every Coker Unit is unique (Performance expectations are different)
 - Single unit 2 Drum, to Multi unit multi drum combination
 - Slow or fast cycle time
 - Small or large drums
 - Small or large diameter feed lines
 - Shot coke or anode grade coke
 - Different deck/structure constraints
 - Preference for electric or hydraulic actuation systems
 - Challenges of hot/humid or cold/dry climates
 - Cutting into pits, sluice ways, rail cars, etc. (capability to throttle)
 - Economic or safety driven projects
 - Turnaround planning and site audit expertise



Why Choose DeltaValve



- Technological Innovation (Industry Firsts)
 - Fully automated Bottom Unheading Device
 - Fully automated Top Unheading Device
 - Center Feed Device
 - Ultra-low steam consumption Isolation Valve
- Product Quality/Certifications
 - ISO, ASME, U stamp, R stamp
 - PED, CRN, TR CU, KHK
- Global sourcing and delivery capability
- Global aftermarket service/support