

Energy Aerospace & Defense Industrial

# DeltaValve Services and Aftermarket Support

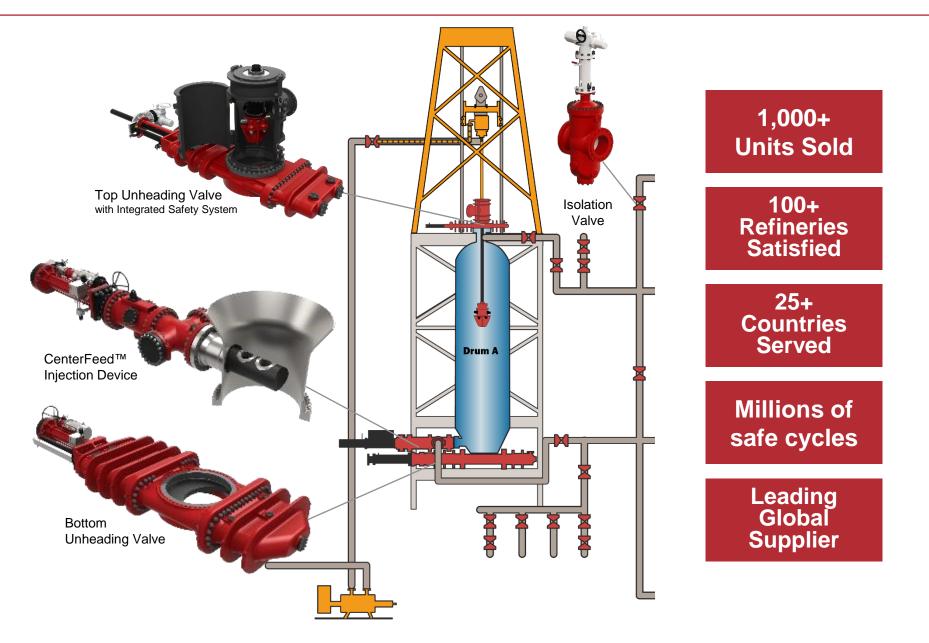
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Company Proprietary Turnaround – Not for Distribution

# **DeltaValve Innovation and Experience**





DeltaValve aftermarket experience includes:

- 15+ years of onsite work in 50+ refineries in more than 15 countries
- **300+** bottom and top unheading valve rebuilds

Our team continues to improve processes as we expand our global aftermarket offering to provide innovative solutions for our customers







#### **On-Site Training**

 Maintenance and operations training for engineers and unit operators to maximize reliability

#### **Site Acceptance Testing**

 Testing activities to ensure equipment and controls are integrated properly and functioning

#### **Installation Assistance**

- Technical resources for turnkey installations
- Supervisory services for installations completed by 3<sup>rd</sup> party contractors

*In response to current world events, digital technology has been utilized to support some of these services* 







# **Asset Management**

## **On-Site Equipment Audits**

- Periodic equipment evaluation
- Critical systems monitoring
- Review and plan for product upgrades

## **Turnaround Planning**

- Coordinate asset maintenance and turnaround schedules
- Efficient and effective resource management ensures timely project completion











#### **Global Field Service**

Continuing to build network of qualified technicians to support:

- Equipment removal and re-installation
- Maintenance and repair of mechanical, electrical, and hydraulic equipment
- Control systems programming and maintenance

## In - Shop Service

Valve maintenance and repair:

- Disassembly, blasting, Non-Destructive Examination (NDE), weld repair, machining, painting, assembly and testing
- Hydraulic cylinder and electric actuation rebuild









#### **Proposals**

 Proposals include - firm project schedules, equipment bills of material, inspection and test plans, pricing for parts, labor rates by trade, etc.

## Long-Term Service Agreements (LTSA)

- Ensure maintenance and services are performed at pre-determined intervals
- Pre-negotiated terms, work schedule, and project scope

#### **Master Service Agreements (MSA)**

- Pre-negotiated terms and conditions, labor rates, safety certifications, etc.
- Individual refinery or corporate refiner level agreements available







Spare Unheading Valve vs. In-Turnaround Rebuild circor

**Potential Benefits:** 

- Removes the valves from critical path
- Valve replacement / rebuild timing flexibility
- Non-expedited valve rebuilds cost less
- No schedule impact from work found in discovery
- Great solution during an equipment or process emergency





- We understand each refinery is different
- We have experience in over 100 refineries in 25 countries
- We customize our service and part offering to each site
- We are continuously innovating new products and services
- We share lessons learned and best practices
- We want to earn your trust and your business

# **Q/A and Live Discussion**



