

# Fisher Solution Improves HHPS Level Control Reliability

## Application & Pain

- **Who:**
  - European Refinery with >100 MBD capacity
- **Hot High Pressure Separator Letdown:**
  - Controls the flow of liquid effluent from the high-pressure separator to the low-pressure separator.
- **Challenges:**
  - Recurring upsets due to competitor's valve sticking
  - Heavy damage from outgassing, vibration and erosion



Competitor Cage (top)  
and Plug (right)

Configured for  
[CL IV Shutoff](#)



## Emerson Solution

- **NPS 3x4 Type 461 Severe Service Control Valve**
  - Sweep flow design with heavy plug guiding, hardened materials, and outlet liner resist damage from extreme process
  - Configured for CLV shutoff for extended valve life
- **Unique Block Forged Valve Body**
  - Custom designed for exact fit installation
  - Substantial costs associated with piping changes avoided

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**TRUSTED ADVISOR**

## Results

- **Decrease Unplanned Shutdowns**
  - Tougher trim internals and correct valve solution avoids costly unplanned shutdowns
- **Avoid Costly Repairs**
  - **\$500K annual valve repair COST AVOIDANCE**