Masoneilan

a Baker Hughes business

Case study

74000 Series Erosion Resistant Control Valves

Lower Maintenance

10x

Per Valve Average[1]

Proven Field Performance

35+

Technology Licensors

4

Endorsed by technology licensors CLG, Axens, KBR and ENI

[1] Savings and reduction vary by application.

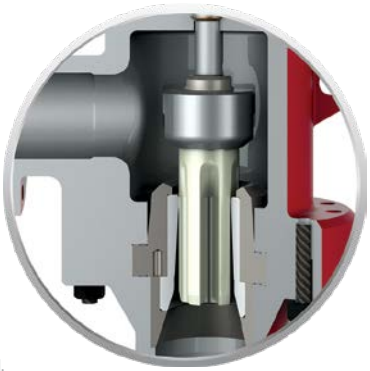
To remain competitive, refineries are upgrading older plants to modern residual hydrocracker processes that convert heavier bottom-of-the-barrel feedstock resulting in incremental product output.

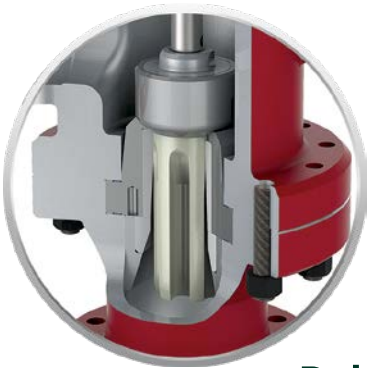
THE CHALLENGE

These advanced hydrocracker processes come with severe application challenges for valves that simply cannot be neutralized with staging or pressure management. Heavy residue solids entrained in the hydrocarbons **result in severe erosion, while high pressure reduction induces system vibration**. Conventional solutions that employ high hardness trims for erosion protection can **fail prematurely due to their inherent brittle construction**.

THE SOLUTION

The Masoneilan 74000 Series erosion resistant control valve is a **premium severe service product** specifically engineered to withstand the demands of these applications. Successfully deployed in the worlds most advanced hydrocarbon processes, **the 74000 Series leverages a contoured valve body with a unique 'fluted' trim style design** to minimize impact of high velocity solids that induce premature erosion. This **field proven trim geometry** is configured with a patent-pending **additive tungsten carbide coating, using 3D metal printing technology**, to further withstand process erosion, making the **74000 Series one of the most robust valves available on the market**.





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