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Control Valve Case History

Industry: Gas Processing
Application: Contactor Letdown

Overview:

The valve controlling the level on the Amine Contactor was having abnormal premature wear. The valve had an average trim life of 9 months. Typical damage included seal ring loss, gasket loss, significant stem wear (sometimes breakage), body and trim retainer erosion on the seat ledge, significant plug, seat ring, and cage wear, and packing leakage.

Process Conditions:

Inlet Pressure	900 PSI
Outlet Pressure	60 PSI
Temperature	130F
Flow rate	1000 USGPM Rich DEA Amine

Solution:

A number of material and guiding changes were made to the valve to better resist the substantial flashing and cavitation damage typical to an Amine Letdown service.

Customer Benefits:

1-1/2 years of service would have been considered a success to the customer. The valve has been in service for over 4 years and has not been replaced.



SPARTAN CONTROLS

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