

CASE STUDY

Compressor Station Relies on Twist-LOK™ to Solve Filtration Challenge

THE RIGHT FILTRATION TECHNOLOGY PROTECTS DOWNSTREAM EQUIPMENT DURING AN ESSENTIAL PART OF THE FILTRATION PROCESS.





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Midstream services are an integral part of transporting natural gas, crude oil, condensate, and NGL commodities across the United States. With expansive gathering, processing, fractionation, transportation and logistics, pipelines are strategically placed.

Our customer operates approximately 11,000 miles of gathering and transportation pipelines, 20 processing plants with 4.8 billion cubic feet of net processing capacity and seven fractionators with 260,000 barrels per day of net fractionation capacity.

THE CHALLENGE

A Compressor Station faced carryover which repeatedly collapsed the downstream amine coalescer filters which resulted in frequent change-outs and increased downtime and costs. Our challenge was to create a variation of medias that would eliminate downstream contaminants and protect sophisticated equipment. Due to the corrosive nature of the feed within this process, structural components of the filters would also be tested.

THE SOLUTION

Jonell Systems, a Process Technologies brand, used extensive laboratory testing to determine the exact media layers required and relied on years of design experience to construct a solution. By changing the core to stainless steel, the concern for corrosion was substantially diminished.

We proposed the two-stage Twist-LOK™ with multi-layered media to filter 0.2 - 0.3 microns for the first stage of filtration and 0.3-micron depth media for the second stage. This improved operations by enhancing the quality of contaminant filtration and protecting downstream equipment.

THE RESULT

By installing Twist-LOK™ filters, the station reduced the frequency of filter change-outs from every month to every five to six months which saved maintenance time and costs and improved the overall filtration process. This helped to clean the downstream process and maintain the efficiency of the Amine coalescer.

Twist-LOK™ provided a superior filtration process and helped make a substantial improvement.

