



For **Severe Service** Control Solutions, Turn to Fisher Technology and Innovation

WhisperFlo® TRIM TACKLES THREE-FOLD VALVE CHALLENGE IN COMPRESSOR ANTI-SURGE APPLICATION

An ethylene plant in the Middle East needed to upgrade its main compressor anti-surge valves, which are the most critical valves in the entire facility. The task was three-fold: increase capacity; meet noise limits; and minimize piping changes.

Plant personnel turned to the Fisher Severe Service Group for an answer. The local Fisher sales office, in conjunction with severe-service experts at Fisher headquarters in the U.S., developed a valve solution to meet all three critical needs.

They combined a high-capacity, fabricated angle valve with the latest innovation in “quiet” valve trim: WhisperFlo®. This trim’s unique design employs a multi-path, multi-stage noise abatement technology that can reduce noise by up to 40 dBA, surpassing conventional noise trim capabilities by 10 dBA.

The Fisher Severe Service Group also characterized the cage-style WhisperFlo trim so that its capacity matched the compressor’s complex performance curve.

By using a fabricated valve body to house the WhisperFlo trim, Fisher engineers more easily met the installation's capacity requirements and gained the flexibility needed to meet existing face-to-face dimensions. Of the five valves designed for this ethylene plant, only one required a piping modification. This proved to be a significant accomplishment because flow capacity of the new valves nearly doubled that of the valves being replaced.

Yet another requirement of compressor anti-surge service is immediate reaction to system upsets. Fisher engineers answered this need with a high-speed, anti-surge actuator package that not only eliminated the large number of accessories typically required, but also offered improved, long-term performance.

Completing the instrument package for the anti-surge valves was the use of FIELDVUE® Digital Valve Controllers. These microprocessor-based instruments yield tighter control for greater operating efficiencies, and they enable real-time valve diagnostics for more predictive maintenance.

For more severe service solutions see us at www.fishersevereservice.com.



Severe Service