

Compressor Surge Problems Solved at Offshore Facility with Fisher® Antisurge Valves

RESULTS

- Fisher antisurge valves improved compressor performance and reliability.
- Enhanced valve performance improved revenue by reducing maintenance and plant operation disruption.
- Continuous on-line performance monitoring by the FIELDVUE™ digital valve controllers helped to maintain peak valve performance.



APPLICATION

Compressor antisurge

CUSTOMER

Offshore Oil and Gas Company in Malaysia

CHALLENGE

A major Malaysian oil and gas company operating offshore in the Sabah region produces natural gas. Gas from the offshore production platforms is compressed and piped to an onshore facility for further processing. Reliable operation and performance of sales gas compressors are important for the producer to meet the onshore gas demands and sales commitments.

Compressor surge is a phenomenon when the stability limit of a compressor system is exceeded. Besides being detrimental to process, the resulting axial and radial movement of the rotor can cause severe mechanical damage to the compressor. Antisurge protection on the company's compressors was provided by non-Fisher antisurge valves. Problems with these valves were affecting compressor reliability and performance which was disrupting plant operation.

The company contacted the Emerson Local Business Partner in Malaysia with a request to help improve the performance of the antisurge valves. Emerson's industry knowledge in antisurge protection and the strong local presence in providing after sales support and start-up assistance help gained the company's confidence that Emerson could provide the best solution.

Fisher Antisurge Valves are designed for the rigors of compressor antisurge applications.



SOLUTION

Engineers from the Emerson Local Business Partner investigated the problem and proposed the Fisher Antisurge Valve solution, an engineered control valve package specifically designed for the rigors of compressor antisurge applications. Each component in the system is optimized to provide best-available performance and to ensure reliability and availability of the compressor system.

The antisurge valve package consists of Fisher e-series valves, noise abatement trim, class V shutoff, specially designed accessories, and FIELDVUE™ digital valve controllers with performance monitoring.

RESULT

The company ordered and installed four of the antisurge valve packages and they are providing the high reliability and performance, and lower operating costs that the company was looking for.

For more information on severe service solutions, visit www.fishersevereservice.com.

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