

Regulator versatility enables one manufacturer to easily customize pressure control solution for wellhead systems

RESULTS

- Component versatility facilitates wellhead control customization
- Rugged component design withstands harsh operating conditions
- Lower costs—thanks to various options from a single supplier

APPLICATION

Wellhead control panels and systems

CUSTOMER

Manufacturer and repairer of oilfield and gasfield machinery and equipment

CHALLENGE

Emerson has supplied valves for wellhead control systems for almost 30 years. Recently, one manufacturer of oil and gas equipment was considering four competitor valves, along with TESCOTM valves, for an application that involved high-end specifications. This system also had to fit within a specific budget.

The customer builds custom wellhead control panels for clients and needed valves that could withstand large amounts of pressure, as well as the wear and tear of gas venting and depressurization.

SOLUTION

The manufacturer ultimately selected the TESCOTM package, thanks to the versatility and ruggedness of the various components—particularly in oil and gas applications. The package included the TESCOTM 54-2000 Series Hydraulic Pressure Reducing Regulator, TESCOTM 44-5200 Series Single Stage Regulator and TESCOTM 26-1700 Series Back Pressure Regulator with the following specifications:

- High-pressure reducing model—10,000 PSI for inlet pressure and 500 to 6,000 PSI for outlet pressure.



With the TESCOTM package, the manufacturer could easily create custom wellheads control panel and system using only one supplier, which kept costs down. The package also struck the right balance between versatility and ruggedness—enabling the company to better serve its customers in demanding oil and gas applications.

- Low-pressure reducing model—3,500 PSI for inlet pressure and 5 to 500 PSI for outlet pressure.

In terms of versatility, the 54-2000 Series regulator is available in three different models—dome-, spring- and air-loaded—which provided the company with many options for wellhead control customization. In addition, the compact 44-5200 Series regulator is available in four kinds of durable materials, including Hastelloy-C® and Monel, while the 26-1700 Series back pressure regulator works well with both gas and liquid.

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