

## Rugged actuators

Emerson Process Management has announced that it has received a contract to supply 25 Bettis well shut-in actuated valves for Phase B of the Tin Fouye Tabankort project in Algeria. The company received the Phase A contract for 57 wells in 1997. As with Phase A, the second phase will utilize Bettis 5x4 GVO high-pressure self-contained linear API 6A valve actuators mounted on Steam-Flo 3 1/8-inch API 5000 psig wellhead gate valves. The actuators were manufactured, and valve packages were supplied, by the Bettis facility in Edmonton, Alberta, Canada. The packages are designed specifically for service with the highly corrosive process conditions and the environmental extremes of the Algerian desert. The company worked directly with Groupe-TFT, the end user on this project. Groupe-TFT is an association of Sonatrach, Totalfina and Repsol. The valve/actuator packages are scheduled to be completed by June 2002.

## Pipeline project



Over 180 explosion proof actuators are on their way from Auma to the Primorsk Oil Terminal project.

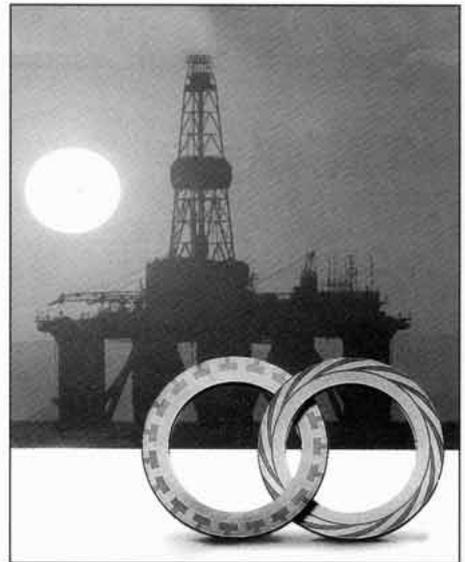
A contract to supply over 180 explosion proof actuators to the Primorsk Oil Terminal project has been awarded to Auma. The actuators will be deployed at the new oil terminal, which plays a key role as part of the Baltic pipeline designed to provide Russia with access to the Baltic Sea. The project, which reinforces Auma's strength in the oil and gas market, is financed by a financial pool of Russian oil companies and managed by the final user, the state owned company Transneft. The specification from Transneft called for direct host connection without requirement for master station solutions as protocol translators. Auma responded to the brief with ex-proof actuators supplied with Modbus interface cards. Auma is an established manufacturer of multi-turn and part-turn actuators plus bevel, spur and worm gearboxes. The leading electric valve actuator manufacturer has established expertise offering Profibus, Interbus, Modbus and Device Net as standard protocols.

## GASPAC gas seals

The Flowserve range of GASPAC compressor gas seals for the oil and gas industries propose a range of solutions to problems including hang-up, reverse rotation and pressurisation and centring of rotating components. Within universal housings, they also offer alternative seal face patterns, either 'O' ring or PTFE 'J' ring dynamic secondary seal arrangements, standard or advanced features to achieve rotating face centring and concentricity with the seal shaft sleeve, together with single or double seal arrangements including tandem seals either with or without interstage labyrinths.

The Flowserve unidirectional APG (advanced pattern groove) face seal pattern is considered to be a breakthrough in dry-running gas seal face technology. It outperforms traditional spiral groove designs by providing lift-off at lower speeds, low-pressure hydrostatic lift and better film stiffness performance.

The optional bi-directional face seal pattern SMT (symmetrical T-groove) provides increased protection and can operate with both clockwise and



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anti-clockwise rotation. Hydrodynamic lift-off is achieved at peripheral speeds as low as 6.6ft/sec, with minimum effects of leakage and parasitic horsepower requirements.

## No contamination

After installing O-Seal Valves from CPV Manufacturing Inc., a specialty gases distributor was able to eliminate gas contamination caused by leaky valves. The challenge involved the new helium gas racks being set up by Oxygen Service Company (OSC), of St Paul, Minnesota. They knew that the valves had to assure absolute leak-proof integrity, or there would be major problems. The valves that OSC had previously used had Teflon seals, which are easily damaged by negligent handling. Once damaged, the only way for workers to achieve a leak-proof seal in a valve was to torque it down with a "cheater bar." Each time the "cheater bar" was used the valve had to be torqued tighter. As one OSC executive said, "Sooner or later a valve that started out round would become egg-shaped." The company decided to try out O-Seal Valves from CPV because they provide leak-proof protection to 6000psi and have been specifically designed to be opened and closed manually. The first thing they discovered was that they no longer needed to use a "cheater bar." The precision control of CPV's O-Seal System valves also made it a lot easier for a filling station to switch from one gas filling operation to another.

## Pipeline valves

CCI has received an order from China Petroleum Technology and Development Corp. for 24 flow control and pressure reducing valves to be installed at the Lanchengyu pipeline in China. These valves range in size from 4 to 12 inches with flow ranges up to 4623 GPM (1050 m<sup>3</sup>/h), design pressures up to 2175psi at temperatures from -68 to 122 degrees F. These valves, which incorporate CCI's advanced DRAG technology design, will eliminate the problems of cavitation, noise, erosion and vibration by controlling fluid kinetic energy. This is done through the advanced design of the DRAG disk stack that controls fluid velocities by forcing the fluid through a series of right angle turns. These turns are scientifically calculated to achieve low fluid velocities consistent with Jinglong Pipeline's application needs.

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