

rotork 20

Valve Actuation News from Rotork

Applications, contracts and product information on electric and fluid power valve actuators from Rotork's worldwide sales and service organisation

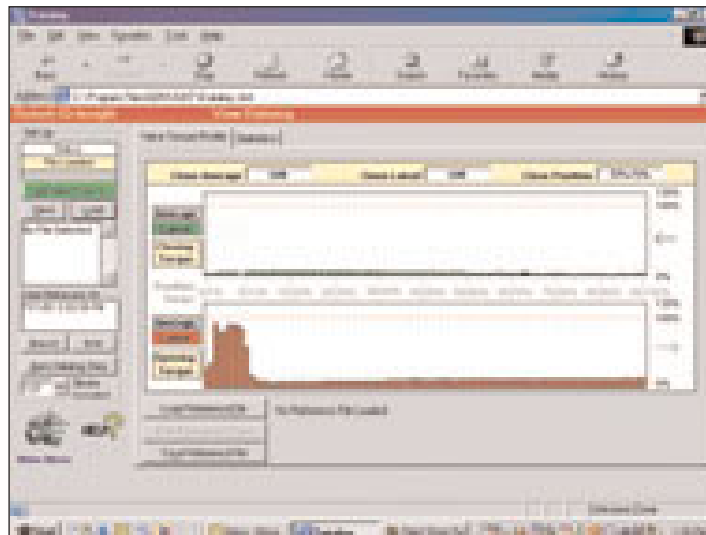
Rotork's complete global offering . . .



Rotork IQ with Insight software validates valve and actuator performance for Explorer Pipeline

Rotork
in Control

The Rotork actuator delivered over 20,000 cycles and, on inspection, was found to be ready for more.



Insight software was utilised to develop trends for analysis.

Rotork is playing a key part in the expansion of the Explorer Pipeline, a 1400 mile products pipeline that delivers petrol, diesel and jet fuel from the Gulf Coast to several midwestern USA states and the city of Chicago. Based in Tulsa, the Explorer Pipeline owners are constructing twelve new pump stations, modifying a further twelve existing pump stations and building a 500,000 barrel storage terminal at Illinois in order to increase system throughput by 47 million barrels annually.

Over 50 years of operation was simulated in a three month time frame.

Part of the project involves the replacement of existing gate valves and hydraulic actuators with new ball valves and electric actuators that operate within 10 seconds.

Explorer decided to validate the performance of the large 24inch Class 600 ball valves and Rotork IQ electric actuators by commissioning our agent in Tulsa, Flow Quip, to conduct a comprehensive test programme. Flow Quip designed a PLC controlled test rig that simulated actual operating conditions by operating the valve against 1000psi unbalanced differential pressure. The valve was cycled 44 times in a two hour period with additional cycles spread over the remaining 22 hours to achieve a total of 500 operations a day. Over 50 years of operation was simulated in a compressed three month time frame.

At the conclusion of the test programme the actuator had delivered over 20,000 cycles and, on inspection, was found to be ready for more. IQ-Insight software was utilised during the test to monitor valve and actuator performance and develop trends for analysis. Successful completion of the test led to a purchase order for more than 130 Rotork IQ actuators.

Water treatment with Foundation Fieldbus



Twenty-two IQ intelligent electric actuators with Foundation Fieldbus connectivity have been installed on new pump station and clear well plant at the Glenmore Water Treatment Plant serving areas of Calgary in western

Canada. The photo illustrates how easy it is to commission, interrogate and confirm all the settings of an IQ actuator using the non-intrusive infrared interface linked to a laptop computer with IQ-Insight software.

Rotork helps to achieve the Greater Glasgow Solution

Rotork electric valve actuators have been used throughout a £55 million West of Scotland Water new build project designed to introduce the most up-to-date waste treatment technologies for the benefit of the Greater Glasgow area.

Central to the scheme – known as the Greater Glasgow Solution – is a new sludge treatment centre, designed and built by Va Tech Wabag UK Ltd. at Daldowie. Capable of handling an annual dry solids load of up to 65000 tonnes, the new plant processes sludge from other treatment works in the area, including Shieldhall, where a new pumping station has also been built. The thermally dried sludge produced is used as a waste derived fuel for a nearby power station.

The recently constructed scheme also handles up to 570m³ (tonnes) of liquid effluent per hour, which is treated in aeration/membrane bioreactors, enabling it to be discharged into the River Clyde in an environmentally clean condition. Nearly 100 Rotork actuators have been installed in the new plant at Daldowie and Shieldhall. The majority are IQ units operating knife gate and wedge gate valves, together with AQ units operating butterfly and ball valves.



Mark Neilson, Rotork sales engineer for Scotland, carrying out final commissioning checks on some of the valve actuator installations at Daldowie.

Fluid System actuates Singapore gas pipeline



Steve Podger from Rotork Fluid System in Singapore provided an update on these GP/D-HP high pressure gas actuators installed on Class 600 Tormene ball valves on the West Natuna Gas Pipeline. Owned by SembGas Singapore, this new pipeline carries gas for 600 kilometres from the West Natuna Field in Indonesia to Jurong Island, Singapore. Rotork Fluid System supplied 28 actuators, equipped with MB1 limit switch boxes, to operate 10 inch to 30 inch ball valves using gas from the pipeline at 30, 42 and 50 barg pressures. As shown in the picture below, some of the actuators are completely enclosed in Rotork Fluid System designed fireproof boxes.



Jordan's specialised actuator designs and services added to Rotork product range

Actuation News

Rotork now offers an established and comprehensive range of specialist electric and electro-hydraulic linear, rotary and lever arm actuators that further extends our "one stop shop" industrial valve actuation capabilities.

The purchase of Jordan Controls Inc. enables us to offer a large range of innovative actuator designs that has been developed for the operation of specialised control valves, dampers, diverters, flap valves and gates. These products are well established in industries including power generation, oil and gas, coal, water and waste, pulp, paper and chemical processing, particularly in the USA, South America and China. Under Rotork ownership, these products will be further developed and marketed internationally through our worldwide network of subsidiary companies and agents.

Complementing existing ranges of Rotork heavy duty valve actuators and control products, the Jordan actuator range encompasses electric and electro-hydraulic designs, mostly used for modulating and high speed valve or non-valve duties. Recent examples of applications include grain elevators, steel industry furnace dampers, power industry fan inlet vane dampers and air shroud dampers, cement industry flap gates and water industry butterfly control valves. The actuator products are supported by a range of dedicated control accessories, including position transmitters and servo-amplifiers, and are often supplied as customised packages to suit specific applications.

Jordan's product range

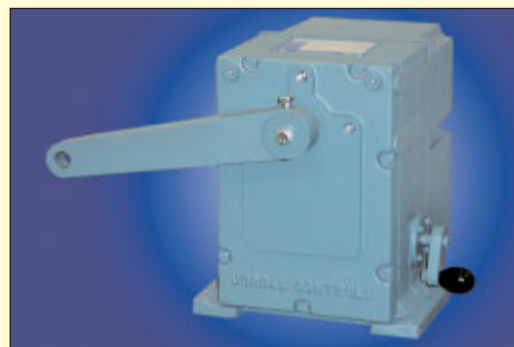


Above: LA2000 Long Stroke Linear Actuator



Left: SM1000/MV1000 Stepper Motor Product

Below: SM1700/SM6000 Large Quarter-turn Actuators



Above: Jordan Controls' headquarters and production plant is situated in Milwaukee, Wisconsin

"Jordan Controls has a longstanding track record of success serving the power industry - an important segment for Rotork. Likewise, Rotork has a well established international marketing arm that can help Jordan grow its worldwide sales." Bob Arnold - President, Rotork Controls Inc.

Rotork valve actuators for DeviceNet open networks meet the latest ODVA standards

A complete picture of actuator and valve status including valve position, torque generated and alarms present is available to the system controller.

Rotork electric valve actuators are now available with the Rotork DeviceNet module, enabling them to be controlled over low cost networks using the popular DeviceNet protocol. Rotork's design is to the latest Open DeviceNet Vendors Association standards and applies to our entire current range of multi-turn and quarter-turn electric actuators, including the modulating versions.

The Rotork DeviceNet module is fitted within the environmentally sealed actuator enclosure for optimum reliability. The module can be factory fitted in new units or is easily retrofitted on in-service actuators.

Direct DeviceNet connectivity provides process control information as well as important diagnostic data that would otherwise not be accessible over a conventional hardwired system. A complete picture of actuator and valve status including valve position, torque generated and alarms present is available to the system controller. In addition four digital outputs are provided as well as the standard open, stop, close and emergency shut-down, whilst one general analogue input is also available for customer

connection to an external signal. To ensure easy integration with even the simplest DeviceNet equipped host, the data reported from each actuator is contained within an 8 byte string and control output data is similarly contained within a 4 byte string to keep data transactions to a minimum.

The addition of DeviceNet to our list of open fieldbus registrations provides Rotork with the largest offering of control options available from any manufacturer of heavy duty valve actuators. We are already registered to the latest standards of Foundation Fieldbus and Profibus, have direct Modbus communication modules and also offer our well known proprietary Pakscan two-wire control systems.



DeviceNet is popular with the utility industries. Visit www.rotork.com to download the brochure and installation manual.



Rotork helps to monitor the level of New York's water supply



The Rotork-designed cabinet houses the Pakscan master station and displays the information provided by InVision software.

Left: "Topping-up" at the West Branch Dam



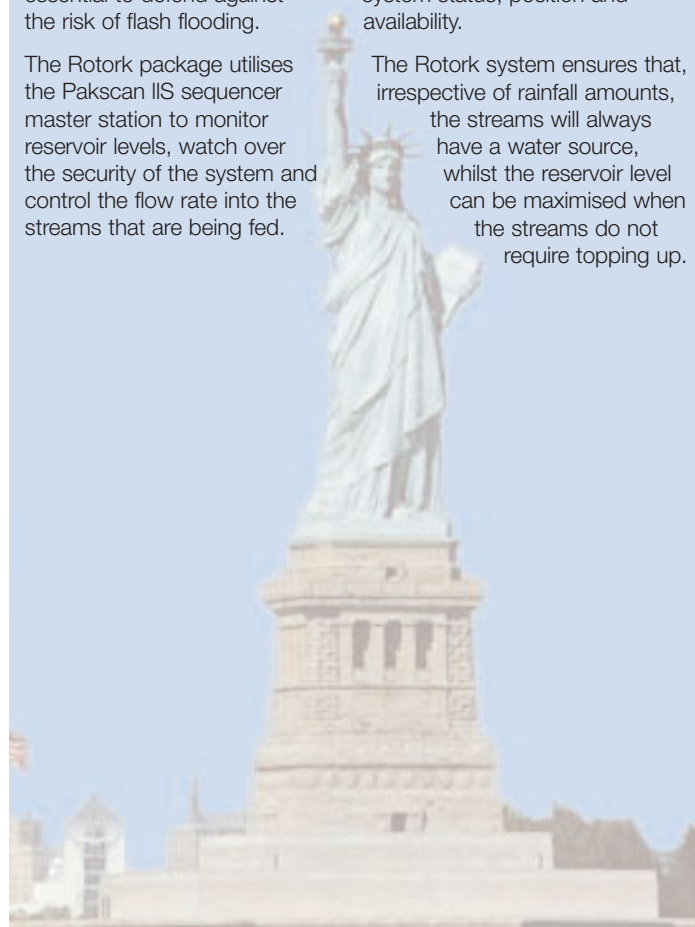
Rotork IQ electric valve actuators with Pakscan two-wire sequence control systems and InVision software have been selected to perform important environmental protection duties involving level and flow control on the water supply system supplying New York city.

Water for New York is supplied from a reservoir network that is being constantly upgraded and improved. As new structures and dams are built, ways of maintaining the flows into the streams that were once fed by the watershed are being designed in order to support the wildlife that they maintain. In addition, a reliable and controlled means of lowering reservoir levels over a predictable period of time is essential to defend against the risk of flash flooding.

The Rotork package utilises the Pakscan IIS sequencer master station to monitor reservoir levels, watch over the security of the system and control the flow rate into the streams that are being fed.

The first of what is expected to be several Rotork installations has now been commissioned at the West Branch Dam, using nine IQ intelligent electric actuators to automatically control very large gate and ball valves in response to data including signals from level sensors. The Pakscan master station is housed within a Rotork designed cabinet which includes a display monitor for the Rotork In-Vision software that provides a real-time graphical display of system status, position and availability.

The Rotork system ensures that, irrespective of rainfall amounts, the streams will always have a water source, whilst the reservoir level can be maximised when the streams do not require topping up.



Rotork wins \$multi-million Canadian oil industry contracts for electric and fluid power actuators

Athabasca Oil Sands

Rotork is supplying several hundred electric and pneumatic valve actuators and control systems throughout an extensive oil production development in northern Alberta.

The Athabasca Oil Sands project consists of two main components, the \$ 1.8 billion Muskeg River Mine, located 75 km north of Fort McMurray and the \$ 2.3 billion Scotford Upgrader, adjacent to Shell's refinery at Fort Saskatchewan. The project is funded by a joint venture formed by Shell Canada Ltd, Chevron Resources Ltd, and Western Oil Sands Inc. At both sites Atco Power Canada is building co-generation power plants to meet the energy needs of the projects, the balance of the electricity generated being sold to the Alberta power grid.

Rotork Canada secured an exclusive purchase agreement for isolating control valve actuators at the Muskeg River Mine, encompassing a total of 290 IQ range intelligent electric actuators

and 102 pneumatic designs. The majority of the actuators are being mounted on Pibiviesse ball valves, Tricentric high performance butterfly valves and DeZurik knife gate valves at Rotork's facilities in Calgary.

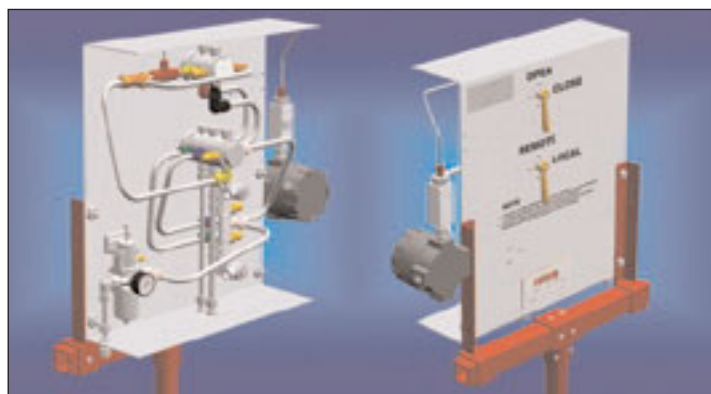
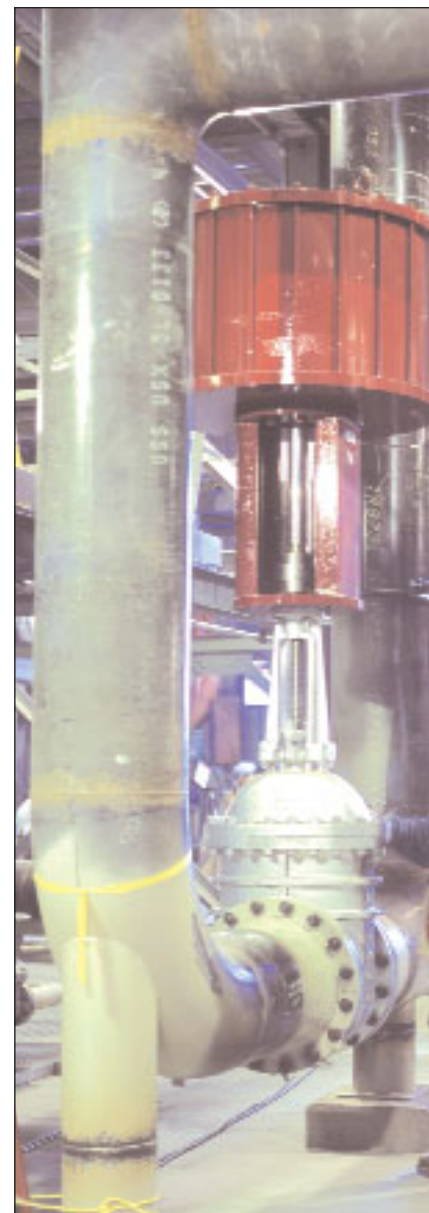
When production starts in late 2002, the mine will produce 155,000 barrels per day of bitumen, extracted from oil sands that are removed from just below the surface and mixed with warm water to separate the oil. Most of the Rotork actuated valves will be used on froth flotation treatment, the final separation process of the bitumen from the oil sands. More than 100 of the actuators are being supplied with factory-fitted K-Mass fireproofing, enabling them to be operated in an emergency at ambient temperatures in excess of 1000°C.



Above: Final adjustments being made to an IQ12 actuator at the Calgary centre of excellence, prior to delivery to site.

At the Scotford Upgrader site, Rotork is supplying 122 IQ electric actuators, 28 of which are certified for Group B hydrogen service, Rotork being one of only two manufacturers having this enclosure rating in Canada.

At the 170 megawatt Atco co-generation plant at Muskeg River, electric and pneumatic actuators are being supplied by Rotork's companies in Canada and the USA. The pneumatic actuators are equipped with Rotork designed control systems and panels, giving the customer local control and monitoring of the pneumatic actuators. For the entire Athabasca Oil Sands project, the total value of Rotork's contracts is expected to be in excess of \$ 3.5 million.



Left: Computer generated images of the pneumatic control package designed by Rotork for the Atco cogeneration plant at Muskeg River.

Rotork Canada has also signed a purchase agreement with the Canadian company that is the world's largest producer of crude oil from oil sands. Syncrude Canada Ltd of Alberta is currently investing \$8 billion on capital investment projects, collectively called Syncrude 21, for which Rotork is supplying electric and pneumatic actuators. Plant startup is planned for 2004, and will increase production by more than 100,000 barrels a day.

Rotork Canada's scope of supply includes IQ intelligent electric actuators together with linear and quarter-turn pneumatic actuators. The actuators will be packaged with control components and mounted onto valves at Rotork's Calgary centre of excellence.



Image courtesy Syncrude Canada Ltd

Installation work at Cold Lake, showing:
 Right - GP range quarter-turn failsafe
 pneumatic actuator.
 Below - LP range linear pneumatic
 actuators.
 Below right - IQ70 electric actuator.
 Bottom - P range quarter-turn failsafe
 pneumatic actuators.



Installations under way at Imperial Oil Mahkeses

On site installation of a total of 161 Rotork actuators is under way at the latest Imperial Oil Resources Ltd. Mahkeses Project at Cold Lake in Alberta.

Rotork is supplying IQ electric, together with P, SP, GP, LP and rack & pinion fluid power actuators on this project. All the actuators are being installed on valves and tested at the Rotork Calgary centre of excellence, where the pneumatic control packages have also been designed and built.

The new plant, including a 30,000 barrel per day heavy oil facility and a 170 megawatt cogeneration facility, will increase production capabilities at Cold Lake by up to 25%. The facility is one of the largest in-situ oil sands operations in the world, with annual production quoted at 45 million bbls.



Contract News

Middle East oil and LNG

Rotork Italy has been awarded an order from the Japanese contractor Chiyoda for Stage 3 of the Ras-Laffan LNG plant in Qatar. The order involves more than 50 IQ electric actuators for installation on various valve types, including cryogenic designs. Rotork Italy has also been selected to supply 75 IQ actuators to the Aramco Ras Tanura plant in Saudi Arabia, continuing Rotork's long-standing association with one of the largest oil industry installations in the Middle East.

Oil, water and power generation in China

Recent contract successes for Rotork in China encompass all three of our main market areas for valve actuators.

In 2001 Rotork's Beijing office secured orders for the largest oil production pipeline project in China. Starting at Lanzhou in Gansu Province, the pipeline will extend over more than 1000 kilometres to reach Chengdu City in Sichuan Province. So far, Rotork has received orders for more than 400 IQ electric actuators from manufacturers of gate valves and ball valves in China, Europe and the USA. Actuators for the ball valves are fitted with Exeeco IW gearboxes. In another oil industry project, at the beginning of this year Rotork Shanghai won an order for 86 IQ actuators for a new storage tank farm being built at Xiaoshan. Meanwhile, Rotork Beijing is also supplying over 200 IQ electric actuators for the Yantai Water Supply Project. The actuators are being fitted to Shashi and Tieling butterfly valves for installation on reservoirs at Menlou, Wangku and Wanghe. Finally, Rotork's Hong Kong office has successfully won the order for 136 IQ electric actuators to be installed at the Leiyuejiang Power Plant.

Rotork helps Kosovo B back to life

Rotork
in Control



Rotork company Exeeco has played a leading part in the reconstruction of the power industry in Kosovo. Working for Innogy during an eight week shutdown, Exeeco has performed the in-situ inspection and off-site overhaul of approximately 200 electric, hydraulic and pneumatic valve actuators at the 339 MW Kosovo B Power Station.

The power station had suffered from a lack of maintenance and spares for most of its working life. Consequently, most of the actuators were in a very poor condition and the opportunity was taken to upgrade to Rotork units when replacing those that were beyond repair. Five actuator technicians from Exeeco carried out the work, assisted by local staff from the station's owner KEK. Exeeco also carried out on-site training of the station staff on the new products.

Following successful completion of the project, several engineers from Kosovo visited the UK for a training course on UK power station operations and processes, funded by the European Agency for Reconstruction.

Whilst in the UK the engineers visited Exeeco's factory to inspect the Rotork Skilmatic electro-hydraulic actuator product range, which has been proposed for the replacement of pneumatic actuators on the boiler spray control valves at Kosovo B. Skilmatic actuators would continue to provide the failsafe

operation required, powered only by a 110V.a.c. supply rather than the existing air supply system with its inherent maintenance, cost and reliability concerns. Skender Kërçeli from KEK expressed his company's appreciation of Exeeco's efforts. He said: "We will have no hesitation in using Exeeco and Rotork products on any future outages."

*Top:
Kosovo B power station.*

*Above:
Ian Elliott from Exeeco instructs station engineers on the new Rotork actuators installed at Kosovo B.*

*Right:
Ismet Miftari, Kosovo B boiler engineer inspects the Rotork Skilmatic actuator range at the Exeeco premises.*

*Bottom:
Ferrybridge Power Station*



**"We will have no hesitation in using Exeeco and Rotork products on any future outages."
Skender Kërçeli, KEK.**



Exeeco wins safety awards from three UK power stations

Exeeco has won contractors' safety awards at Aberthaw, Ferrybridge and Fiddlers Ferry Power Stations for performing on-site work in high risk areas safely and without accidents. The awards, rewarding excellence in health, safety and environmental issues, are assessed on criteria including risk, method statements, work face audits, on-site cabin inspections, accident statistics and 'near hit' reports, combined with a positive involvement in safety culture.

Valve automation? Q Rotork and Pakscan!

Luis Benedetti from Rotork Venezuela reports on a major upgrade programme in the country's oil industry.

Petróleos de Venezuela S.A. (PDVSA) operates approximately eleven thousand oil wells within the Lake Maracaibo area, ten thousand in the lake itself and the rest on land in the coastal area. The production from batches of an average of seventy individual wells is pumped to unmanned flow stations, or platforms, for onward shipment. A very important activity, in the hands of the PDVSA Operations Department, is the continuous monitoring of each well's production efficiency and quality parameters. This is achieved by obtaining production figures (barrels/day) and quality information

(water and sand content) from every one of the 11,000 wells, every month. These figures determine the condition of each well and are used to plan maintenance programmes. Until 1993, this massive data collection task was performed manually by personnel who, because of the distances involved, often needed to travel for 90 minutes by speedboat to reach just one platform. There then followed the lengthy process of manually switching each well flow between production and test lines and registering the corresponding data. In the middle of that year, following



One of the many flow station valve manifolds on Lake Maracaibo that have been automated with Rotork Q range actuators and Pakscan two-wire control.

lengthy and weighted technical and economic considerations as well as careful testing and analysis of available equipment, PDVSA began the process of automating the procedure, using Rotork actuation and two-wire control technologies from day-one.

Existing valves were replaced with three-way plug valves, operated by Rotork AQ and Q range quarter-turn actuators and Rotork Pakscan two-wire digital control loops were introduced in order to dramatically reduce the wiring costs associated with valve communication. All the

valves on each platform are linked on a single loop to a Pakscan IIE masterstation that is connected to a PLC through an RS485 port. Each PLC is connected to an RTU that reports by cableless microwave link to the SCADA system located on land at the Operational Headquarters. Since 1993 Rotork has automated over 3000 wells on 42 platforms, using Q300, AQ830 and AQ860 actuators. Over the next four years, more than 60 additional platforms are included in PDVSA's automation plans.

ESSO relies on Rotork when the heat's on



These specially modified 'A' range heavy duty actuators were recently supplied by Rotork Italy for a particularly demanding, high temperature oil refining application. The ESSO refinery in Belgium was installing a new type of valve on its Powerformer

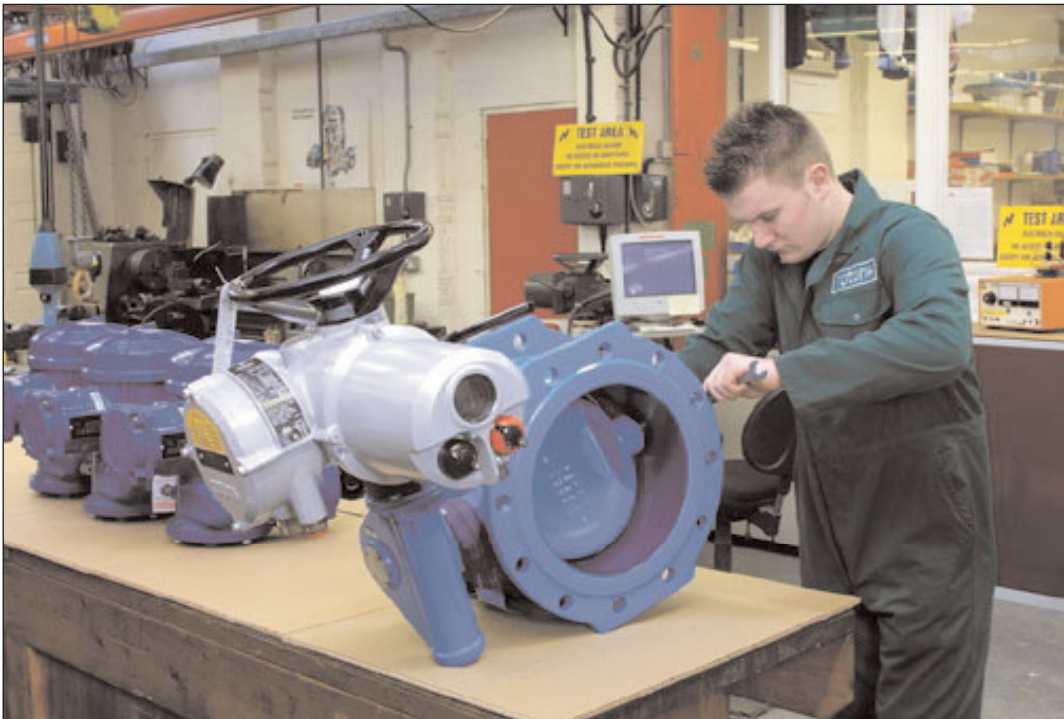
catalytic cracking plant, where heavy hydrocarbon products are reduced to produced light oils and petroleums. This process is performed at a temperature of approximately 600°C, causing severe wear and corrosion on the valves involved, which therefore have only short

working lives and need regular replacement. In order to prolong the service life of these valves, engineers from Ring'O Valves have developed special forged steel valve bodies, offering advantages over the cast steel valves traditionally used on this service, such as the removal of

casting defects and microporosities that can lead to internal surface cracking and valve failure. Another problem involving the operation of the valves is thermal expansion caused by the high temperatures. Dramatically heating a fully closed valve creates enormous stresses that can cause stem distortion or even destroy the valve body, unless a way is found to dissipate the effects of expansion. Conversely, a valve that is closed when very hot and then allowed to cool down may open slightly enough to cause potentially dangerous leakages. To overcome these problems the Rotork actuators were fitted with thrust limiting bases that act like dampers to absorb the thermal expansion without altering the valve position. Specially designed springs permit linear movement of the valve stem as the valve heats or cools to safeguard valve and process integrity. Actuators were supplied to operate sixteen, 16" Class 600 valves, requiring an opening/closing torque of 1340Nm.

Contract News

Rotork service centres perform many complementary retrofit activities, such as fitting actuators on new valves, to the highest quality standards. Here, a butterfly valve is being equipped with the latest IQ intelligent actuator for an extension upgrade at a UK water treatment plant



Retrofit contracts incorporate digital control

“We are using the opportunity of this Rotork automation upgrade to introduce the control features and advantages available from DeviceNet.”
Paul Wilson, Innogy.



Channel Tunnel cooling plant gets Pakscan upgrade

Retrofit is installing a Rotork Pakscan controlled automation system involving 20 IQ electric valve actuators and Exeeco gearboxes on the chilled water pipework system in the Channel Tunnel. The new actuators will control the valves on 200 kilometres of 400 mm pipework that removes atmospheric heat generated by the trains in the tunnel.

Due to the distances involved, the

pipework automation system will be divided into three sections, each under the control of individual Pakscan IIS sequencer master stations and touch screen interfaces. Pakscan will provide a seamless interface with the existing Modbus highway that is connected to the tunnel operator's PLC, enabling the status of the entire pipework network to be monitored and operated from a central point.



Shell chooses retrofit with a difference

In a new twist on conventional retrofit activity, Shell has been able to supply its own actuators to Rotork for reconditioning, modification and installation on a Pakscan automation project at the Shell Jarrow tank farm.

Shell's consultant Trident Engineering called in Rotork to survey the actuators and valves held in store by Shell with a view to using some of them for the Jarrow project. The survey enabled Rotork to identify fourteen suitable 'A' range Syncropak 1600 Series units dating from the 1980's that were then shipped to the service workshop at Bath for modification. Engineering work involved installing Pakscan IIE field units within the actuators' environmentally sealed enclosures

and reconditioning them as necessary to ensure that they were all in 'as new' condition. Meanwhile, Retrofit engineers were busy on-site installing the Pakscan IIE master station in a control station, complete with control panel, event log, printer and uninterruptable power supply. The control panel displays real-time operating data and schematics generated by Rotork In-Vision software, including pump control data and 'high high' level alarms from Pakscan general purpose field units.



Retrofit power station upgrade introduces DeviceNet

Rotork Retrofit is motorising 26 manually operated valves at the Innogy Aberthaw power station as part of an automation upgrade that includes the introduction of DeviceNet connectivity at the station site. The project involves the steam drain valves at Aberthaw Unit 8, where Retrofit is installing IQ and AQ electric actuators and, in some cases, also supplying new valves.

All the actuators are factory fitted with Rotork DeviceNet modules to provide a control and diagnostic link to an Allen Bradley PLC supervisory system. Innogy's Paul Wilson explains: "We are using the opportunity of this Rotork automation upgrade to introduce the control features and advantages available from DeviceNet."

Rotork selected for excellency management programme in Brazil . . .

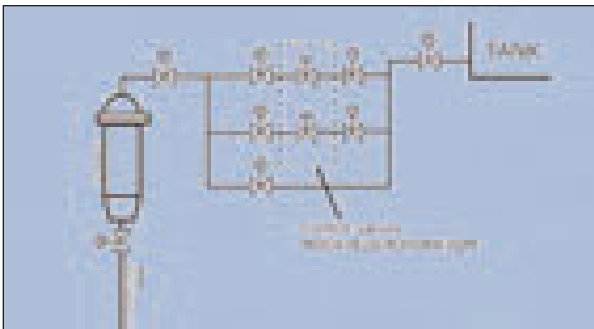
Actuation News

“After a thorough evaluation of various actuators offered, DTCS decided on Rotork in view of the requirement for an absolutely reliable system” – Fluxo Servicos de Petróleo, Brazil.

More than 700 IQ intelligent actuators with Profibus DP connectivity are being installed on an environmental and operational safety project in the Sao Paulo area of Brazil. The project forms part of a \$2 billion nationwide excellency management programme known as PEGASO, implemented by the state-owned oil company Petrobras.

The Rotork scheme controls pipeline pressure, keeps the pipework full and ultrasonically detects any leakage on the Transpetro DTCS pipeline network that connects refineries, tank farms and terminals in the Sao Paulo area. At each of forty pipeline heads/scrapers, DTCS engineers designed a system comprising two Mockveld control valves (pictured), operated by Rotork IQM modulating actuators, and four isolating valves, operated with IQ actuators. A further 300 IQ actuators are also being

installed to operate all pump station valves above 250mm (12 inch) size. In total more than 700 Rotork IQ actuators have been ordered for the scheme, factory fitted with Profibus DP modules for linking to the centralised digital control and monitoring system. “When safety, reliability and high performance are a must, the client chooses Rotork.” says Dinho Camargo, from Fluxo Servicos de Petróleo, who supplied the actuators on this contract.



. . . and actuates "largest ball valves ever supplied into Asia Pacific"



This photograph, taken at the Exxon Singapore Refinery, shows Rotork IQ electric actuators fitted to "the largest ball valves ever supplied into Asia Pacific", according to Mr. Paul Moir of the Asean Council on Petroleum (ASCOPE) in Kuala Lumpur. A total of six of these 50 inch, Class 150 valves, manufactured by PCC Ball Valves Srl in Italy, have been supplied to Interbeton - McConnell Dowell JV for the VLCC Jetty project in Singapore. They are operated by a combination of Rotork IQ35 actuators and Exeeco IW10R worm/spur gearboxes, providing opening and closing times of 56 seconds. In addition, six IQ

actuators and Exeeco MTW gearboxes were selected to operate 6 inch PCC 3-way ball valves.

On the same project, which involves the construction of a complete new offloading jetty at the refinery, twenty-four Rotork IQ35 actuators have also been supplied to operate PCC AP16D through conduit 16 inch, Class 150 gate valves. Eight of these actuators have been supplied with factory-fitted K-Mass fireproofing, which enables them to operate in emergency conditions at temperatures in excess of 1000°C. A further eight IQ actuators with K-Mass were supplied for the operation of 2 inch and 8 inch gate valves.

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A complete overview and detailed description of our product ranges and global activities. Everything you need to know about Rotork actuators is here.

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Linear, Sub-sea, Gas industry

Special applications, Controls

Serial Communications:

Pakscan, HMI, Profibus,

Foundation Fieldbus, Others

Service Support & Retrofit

Valve actuators & controls

International effort secures Fluid System success in Algeria

Communication and co-ordination between Rotork offices, engineering contractors, instrument engineers and valvemakers in Italy, Holland, UAE and Algeria has been the key to Rotork Fluid System's success with the Ohanet gas development project in south east Algeria.

Sales Manager Sandro Bertelli reports that the high level of technical experience and ability inherent in Rotork's sales and engineering organisation enabled Fluid System to propose the solution for the relevant valve duties that was the most acceptable to all parties, resulting in the award of orders involving four valvemakers for a total of 164 actuators.

Fluid System is supplying 146 RP and GP series quarter-turn and 18 LP series linear pneumatic actuators and control packages on the Ohanet scheme, which is the seventh major gas development project to have been constructed in the Illizi province of Algeria.



Gate valves for Ohanet equipped with LP series linear actuators at Rotork's Fluid System factory.

Technical support wins in the North Sea



Rotork Fluid System's technical ability to overcome the challenges presented by a plant area with limited space has led to the award of an order for the Chevron Alba oil production platform (pictured), 130 miles offshore in the North Sea.

The contract for sixteen actuators had already been awarded to another manufacturer before the restricted space problem dictated a 'back to the drawing board' reappraisal, which Fluid System was able to provide. Working with

engineers from Brown & Root, Rotork submitted a control package proposal based on a combination of pneumatic and hydraulic LP series linear actuators.