

INDUSTRY LEADING FLOW CONTROL NEWS FROM THE WORLD OF ROTORK

rotork⁴⁰

ROTORK LAUNCHES 3rd GENERATION IQT PART-TURN INTELLIGENT VALVE ACTUATOR



Full Story p4

APPLICATION NEWS

Best technical solution with local support secures Rotork order for pipeline actuators [p3](#)

Rotork CMA's enable shale gas well compliance with EPA emissions mandates [p8](#)

PROJECT NEWS

Switch to Rotork significantly improves reliability on River Thames weir [p6](#)

PRODUCT NEWS

YTC Positioners lead the way in tough applications [p11](#)

COMPANY NEWS

New Rotork office in South Korea [p14](#)

rotork[®]

Keeping the World Flowing

CONTENTS

INDUSTRY LEADING **FLOW CONTROL NEWS** FROM THE WORLD OF **ROTORK**

PRODUCT NEWS

page 3

New valve gearbox for motorised quarter-turn applications

page 4/5

COVER STORY:

Rotork launches 3rd generation IQT intelligent part-turn valve actuator

page 8

Specialised bevel gearbox for AWWA applications

page 11

YTC positioners lead the way in tough applications

page 12

Extreme-duty hydraulic valve actuators for challenging applications

APPLICATION NEWS

page 3

Best technical solution with local support secures Rotork order for pipeline actuators

page 8

Rotork CMAs enable shale gas well compliance with EPA emissions mandates

page 9

Industry success secures CVA selection for critical coal seam gas application

page 14

Stainless steel actuator solutions from Rotork Schischek



4



8



12



10



6



11

3

PROJECT NEWS

page 6/7

Switch to Rotork significantly improves reliability on River Thames weir

COMPANY NEWS

page 10

Increased investment in R&D ensures Rotork products remain the most reliable in the industry

page 12

Latest acquisition strengthens Rotork presence in global marine and offshore markets

page 13

New Service Centre enhances support for Rotork Clients in Scotland

page 14

New Rotork Office in South Korea

page 15

New Divisional Managing Directors for Rotork Gears and Rotork Fluid Systems



EDITOR'S NOTE

If you picked up this copy of Rotalk at AICHEM 2015, I hope that your visit to our stand at the show was informative and enjoyable.

ACHEM 2015 has given us the first opportunity to display the 3rd generation IQT actuator, which is the subject for this magazine's Cover Story. The introduction of the latest IQT, which completes Rotork's flagship and market-leading range of intelligent 'non-intrusive' IQ actuators, brings an unrivalled range of functional, diagnostic, preventative

maintenance and asset management benefits to the direct-drive operation of part-turn valves. Please read all about it on pages 4 and 5.

Another Rotork product in the spotlight is our CMA Compact Modulating Actuator. By replacing traditional equipment, the CMA is offering the shale gas industry an economical and efficient way of reducing fugitive emissions and assisting compliance with strict USA Environmental Protection Agency mandates that are now being enforced.

There are lots of other things to read about in these pages and, as we reach our 40th edition, I would once again like to thank our readers and employees for the support that they give to the magazine's success. ■

Carlos Elvira
Rotork Group Sales and
Marketing Director

PRODUCT NEWS

NEW VALVE GEARBOX FOR MOTORISED QUARTER-TURN APPLICATIONS

The latest addition to the market-leading range of gearboxes manufactured by Rotork Gears is a rugged, industrial grade product designed for use with motorised quarter-turn valves and dampers.

THE NEW AB550M GEARBOX IS manufactured as standard with cast iron housing components, high performance axial thrust bearings, a protected steel input shaft and a polyurethane coating to deal with arduous applications and aggressive environments. The ability to support electric actuators weighing up to 46 kilograms and input speeds of up to 72 rpm offers suitability for many applications in the chemical, power generation, water & sewage treatment, HVAC and general industries.

With a maximum output torque of 600 Nm, 45 mm maximum output bore, output flange sizes from F07 to F16 and +/-5° adjustable 90° stroke, the AB550M will operate a large range of ball, butterfly and plug valves, or power and process dampers.

The ambient operating temperature range can extend from -60 °C to +200 °C, whilst the standard IP67 environmental protection can be increased to IP68 for marine, continuous submersion and buried service duties. A firesafe option conforming to ISO10497 is also available. ■



AB550M Gearbox.



Rotork GO gas-over-oil actuator installed on 26 inch ball valve on the PDVSA San Joaquin Pipeline.

APPLICATION NEWS

BEST TECHNICAL SOLUTION WITH LOCAL SUPPORT SECURES ROTORK ORDER FOR PIPELINE ACTUATORS

Rotork GO gas-over-oil actuators have been supplied for vital failsafe valve control duties on a new cryogenic LNG pipeline in Venezuela. In addition to providing the best technical solution for the application, the actuators were selected because of the high level of local support available from Rotork's well-established company in Venezuela.

THE SAN JOAQUIN PIPELINE, OWNED BY VENEZUELA STATE OIL COMPANY PDVSA, transports LNG for the international market between the San Joaquin and Jose cryogenic plants. The Rotork actuators operate 26 inch, 20 inch and 12 inch ball valves installed in tandem with non-return check valves at six valve stations along the route.

The compact and modular Rotork GO actuator design uses the pipeline gas as the motive power source, converting the gas into hydraulic pressure to deliver powerful and smooth valve control. Isolating the actuator cylinder from the pipeline gas eliminates potential contamination, corrosion and seal deterioration, extending the life of the actuator. A dedicated pump is utilised in each operating direction to prevent leaking or contamination between the gas-over-oil tanks.

At the centre of the gas-over-oil system, a multi-function manifold block integrates gas control functions to facilitate a full range of selectable

failsafe and emergency shutdown (ESD) options for pipeline events including Line Break, Low Pressure Close and High Differential Inhibit. The manifold has the facility for a high-flow hand pump, pressure relief and a locking handle for safe commissioning.

Rotork GO actuators are IP66M/67M third party certified and approved for environmental protection, together with CE and ATEX hazardous area certification. The standard working operating pressure range is 10 to 105 barg, enabling a quarter-turn operating torque of up to 600,000 Nm and linear thrust of 5,000,000 N to suit pipeline valves of virtually all sizes and description. Higher torque and thrust outputs can also be provided for.

Rotork Controls de Venezuela has fully trained technicians available to provide field services for all ranges of Rotork's electric and fluid power actuators; the company supports the PDVSA Puerto La Cruz Refinery on a service contract basis. ■

ROTORK LAUNCHES LATEST GENERATION OF IQT INTELLIGENT PART-TURN VALVE ACTUATOR

COVER STORY



The introduction of the new Rotork IQT electric valve actuator brings the advanced functionality and asset management capabilities of Rotork's 3rd generation intelligent technology to the direct-drive operation of part-turn valves.

The diagnostic information available from the IQT datalogger can be extracted from the actuator using the secure Bluetooth® hand-held Setting Tool Pro.

PROVEN IN THE FIELD BY THOUSANDS OF IQ3 MULTI-TURN ACTUATORS, new functionality brought to the compact and robust IQT includes an unrivalled range of advanced data logging and communication capabilities that have been increased in response to the end users' desire to access more data, both in the field and in the control room.

Diagnostic graphics present a window into the process, showing the valve torque, usage profiles and service logs, facilitating real-time analysis directly at the actuator. The information-rich backlit display is the focus of attention for non-intrusive wireless communication and multi-functional indication, including user-friendly multi-lingual menus for configuration and commissioning. Local position indication, valve and actuator status, asset management and diagnostic operating information is available to download and can also be viewed directly at the actuator on the large LCD display. The display provides real-time status data, positional and warning icon information, visible at temperatures between -50 and +70 °C. Actuator setup and operating menus

along with detailed diagnostic and operational data screens are clearly displayed in dot matrix format at temperatures down to -20 °C.

Using the Rotork Bluetooth® Setting Tool Pro, commissioning and configuring the actuator is faster and simpler than ever. The setting tool can also be used to securely transfer data from the actuators to a PC for analysis using Rotork Insight2 diagnostic software. Insight2 can further streamline actuator set up by pre-defining complete sets of instructions and settings. Each collection of settings can be saved as a 'mission data set' and quickly applied to multiple actuators requiring the same configuration.

Valve maintenance requirements can be identified and anticipated, eliminating unplanned interruptions to the process or over-cautious planned maintenance outages. The actuator's powerful datalogger provides comprehensive data capture for planned maintenance and troubleshooting. Data includes valve torque profiles, operational start profiles, vibration and temperature trend logs and an event log. Specific asset management

information includes running time, average torque and number of starts. Service or maintenance alarms are selectable from configurable menus including open and close torque levels, total starts and vibration levels.

Torque sensing is reliable and accurate over the life of the actuator. Similarly, reliable valve positioning is critical. A patented absolute encoder with only one moving part tracks valve position without the requirement for a battery even when there is loss of power. In addition, as all configuration and datalogger data is stored in a non-volatile EEPROM memory, all settings are retained. If an actuator is manually operated during a power outage, the local display and remote indication is kept updated by the use of a battery which also facilitates data logging and power-off commissioning.

The IQT's double-sealed IP68 watertight and temporarily submersible enclosure is universal to all Rotork intelligent

electric actuators, including those with explosionproof certification. It permanently protects internal electrics from the ambient environment, even during site wiring with the terminal housing cover removed. The double-sealed design, in which the terminal housing is separately O-ring sealed from the rest of the actuator, has been a standard feature on Rotork electric actuators for over forty years. It is proven to increase long term reliability and durability in the harshest of climates.

On the actuator's compact and robust enclosure, local Open / Close and Local / Stop / Remote selectors are coupled magnetically to internal switches without penetrating the actuator body, further enhancing non-intrusive environmental protection. Emergency handwheel operation with motor preference is provided as standard.

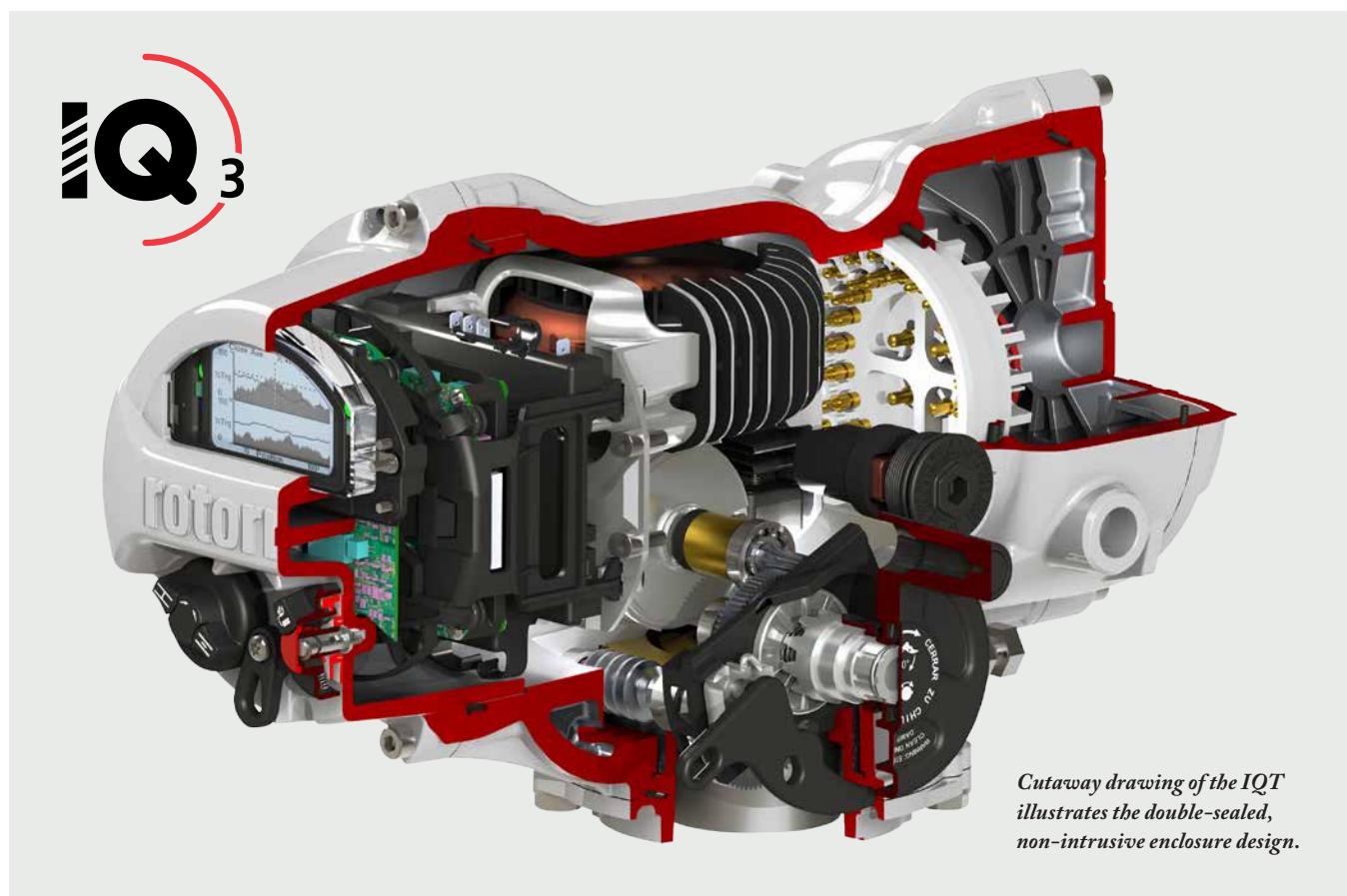
IQT actuators are suitable for three phase, single phase or DC power supplies, with a torque output range of 50 to 2000 Nm available for isolating, regulating and modulating duties. The motor always runs in the correct direction, irrespective of supply type and connection.



The actuator's powerful datalogger also provides comprehensive data capture for planned maintenance and troubleshooting. Data includes valve torque profiles, operational start profiles, vibration and temperature trend logs and an event log.

In addition, the output speed can be non-intrusively adjusted over a 4:1 range without affecting the output torque. All valve interface bases conform to ISO5211 or MSS SP 101 and are fitted with removable couplings.

Hazardous area actuators are fully approved to the latest ATEX standards. Network connectivity options include Foundation Fieldbus®, Profibus®, HART®, Modbus® and DeviceNet® open systems, as well as Rotork's own dedicated Pakscan wired or wireless systems. ■



Cutaway drawing of the IQT illustrates the double-sealed, non-intrusive enclosure design.

SWITCH TO ROTORK SIGNIFICANTLY IMPROVES RELIABILITY ON RIVER THAMES WEIR

Rotork IQ3 non-intrusive intelligent electric actuators have been chosen to replace unreliable actuators for the operation of radial gates on an important river management weir on the River Thames.

HAMBLEDEN WEIR PLAYS A CRITICAL ROLE in maintaining the level and flow in an area that is used extensively for recreational activities, including the stretch of river that hosts the world famous Henley Regatta. The reliable operation of the radial gates is a vital requirement for effective river management, especially with the varying weather conditions and increased risk of flooding experienced in recent times.

The Environment Agency had been encountering numerous reliability problems with the eleven electric actuators previously installed.



Rotork IQ3 electric actuators and MTW gearboxes have restored reliability to the operation of Hambleden Weir on the River Thames.



New junction boxes enable existing cabling to be used, avoiding additional expense.

Lock Keeper Simon Shepherdson explained:

“Most of the problems resulted from inadequate environmental sealing, which allowed rainwater to get inside the actuators and damage electrical components. In practice this often meant that an actuator would work on some days and not others.”



The reliable operation of the radial gates is a vital requirement for effective river management.

The sealing problems were aggravated by the design of the competitor's manual operating mechanism, which sometimes would not work against the heavy weight of large radial gates.

There had been many attempts to upgrade the actuators with spare parts, but they had met with little success. It was therefore decided that replacing them with double-sealed Rotork actuators would be the best solution.

Working for the Environment Agency, Integrated Water Services awarded the turnkey contract to Rotork Site Services. Rotork's proposal encompassed all aspects of the task in an extended scope contract, enabling them to organise the total supply of the work together with project management services.

These responsibilities encompassed the removal of the existing actuators and gearboxes, fitting Rotork IQ3 actuators and MTW gearboxes, cabling and commissioning. New junction boxes were fitted adjacent to each actuator enabling existing cabling to

be used wherever possible to avoid additional expense.

Beginning in the autumn of 2014, the project has been completed on time and within budget.

The new actuators are Rotork's latest IQ3 units, featuring non-intrusive setting and diagnostic data management and fitted with 4-20 mA signal input and output capabilities to facilitate possible further automation upgrades in the future. IQ3 actuators also feature a robust direct-drive handwheel mechanism, capable of moving the heavy gates if manual operation is ever required.

Combined with non-intrusive setting and commissioning, the IQ3's double o-ring sealed IP66/IP68 watertight and temporarily submersible enclosure specification permanently protects internal electrics from the ambient environment, even during site wiring. The double-sealed design, whereby the terminal compartment is separately sealed from the rest of the actuator,

Simon Shepherdson summed up the changeover to Rotork by saying:

"The upgrade has given me the peace of mind of knowing that I can now operate the weir with confidence, without the worry and uncertainty that I was previously experiencing."

has been a standard feature on Rotork electric actuators for over forty years and is proven to increase long term reliability, durability and availability in the harshest of climates.

This project is one of an increasing number that have been awarded to Rotork Site Services for the upgrade and automation of river weirs owned by the Environment Agency or in private ownership. ■



APPLICATION NEWS

Retrofit installation of Rotork CML-250 electric actuator on a high pressure control valve at a shale gas well in Louisiana.

Rotork CMA electric control valve actuators have delivered an efficient and reliable process control solution and eliminated venting and greenhouse gas emissions in compliance with new environmental protection legislation at remotely sited shale gas installations in the USA.

ROTORK CMAs ENABLE SHALE GAS WELL COMPLIANCE WITH EPA EMISSIONS MANDATES

MOST SHALE WELLS AND FLOW LINES are unmanned and located in remote areas that are difficult and expensive to monitor. Skilled technicians must check data and perform manual shutdowns, increasing costs for the time to travel to site, identifying the problem and stopping the flow, which is neither cost-effective or practical.

CMA and CVA actuators provide an ideal solution to automate valves at the remote wells. Typical process control products are traditionally spring diaphragm actuators powered by the produced gas which vent to atmosphere, but recent EPA (**US Government Environmental Protection Agency**) regulations now limit this process in order to reduce greenhouse gas emissions to the atmosphere. A shale gas company in Louisiana was therefore looking for an affordable and efficient low power solution that could be run by solar panels to replace existing actuation equipment and control a variety of fluids at line pressures up to 413 bar (6000 psig).

The key objective was to provide an efficient and reliable process control actuator which could be retrofitted on installed valves to reduce costs

and downtime. Rotork's local agent Setpoint Integrated Solutions designed an adaption bracket to enable CML-250 actuators to be easily fitted to installed valves and improve the level of control, without venting gas and with the low power demand required for solar powered operation.

Designed for quarter-turn, multi-turn and linear valve operation, robust Rotork CMA actuators perform numerous process control valve, choke valve, metering pump and damper applications demanding precise position control and continuous modulation. Single-phase or DC electrical power is all that is required for simplified installation and control valve actuation. Explosionproof certification to international standards is available for hazardous area applications. Recent developments enable the CMA to be specified with increased functionality encompassing local controls, LCD positional display and programmable fail-to-position performance.

The success and flexibility of this solution has enabled the Louisiana customer to standardise on the CMA actuator for future flow control applications. Around the world, increasing numbers of CMA actuators are used for similar duties. ■

PRODUCT NEWS

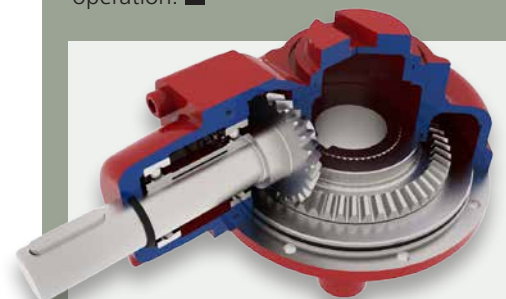
SPECIALISED BEVEL GEARBOX FOR AWWA APPLICATIONS

Rotork Gears is now offering the IB AWWA series of bevel gearboxes, designed specifically for the manual operation of AWWA standard C560 cast iron and C561 fabricated stainless steel gate valves.

THE AWWA (**AMERICAN WATER WORKS ASSOCIATION**) is responsible for setting standards on the design, performance and manufacturing of valves and associated equipment. With over 50,000 members, it is the world's largest scientific and educational association dedicated to managing and treating water.

Developed from the successful and rugged Rotork IB multi-turn gearbox range, the AWWA series feature a fully sealed cast or SG iron enclosure that is grease filled for life and certified as watertight to IP68 as standard. Precision engineered input pinion and output bevel gears with low friction hub bearings provide an extended service life and smooth operation under high load conditions. Output flanges, to MSS SP-102 or equivalent ISO and DIN standard dimensions, feature a removable output sleeve to facilitate easy valve adaption.

The standard operating temperature range is -40 to +121 °C (-40 to +250 °F), with other temperature ranges available on request. Further options include auxiliary spur, bevel or two-speed input drive reducers, a mechanical dial position indicator and flexible extensions. In addition, two or three input shafts at 90° and 180° to each other can be fitted. The range of gearbox sizes delivers an output torque range of 280-8,000 lbf.ft (380-10,850 Nm). All models are available with suitably sized handwheels for manual operation. ■



Rotork IB AWWA bevel gearbox



The Rotork CVA actuator (Model CVQ-1200) can be seen on the left of this Salcan wellhead skid installation, powered by the solar panels on the right.

EXCELLENT TRACK RECORD SECURES CVA SELECTION FOR CRITICAL COAL SEAM GAS APPLICATION

Rotork CVA failsafe electric process valve actuators have been selected for a critical flow control application in the Australian coal mining industry.

Photograph reproduced with kind permission from Salcan Process Technology.

SALCAN PROCESS TECHNOLOGY manufactures wellhead skids designed for coal mine degassing duties. The remotely sited skids are used in conjunction with Salcan's control and telemetry systems to enable methane and other flammable gases to be extracted from underground coal seams prior to the commencement of mining operations.

Salcan Director Vincent Cantwell explains: *"The Rotork actuated control valve allows us to control the flow of gas while maintaining back pressure in the coal seam. Bluetooth technology embedded in a failsafe electric positioner package eliminates the need to enter the hazardous area surrounding the valve for set up and diagnostic functions. In operation, back pressure on the coal seam is reduced in a controlled*

manner to protect the seam, thus maximising gas extraction. For a coal mine this is critical for reducing the risk of an underground explosion; for a gas producer it is critical for maximising the yield."

The successful use of Rotork CVA actuators for similar duties at thousands of remote sites on the Queensland LNG project has made an important contribution to the selection decision by Salcan.

The CVA electric actuator delivers continuous, repeatable modulating control with a programmable fail to position option. Resolution, repeatability and hysteresis performance is quoted at less than 0.1% of full scale, offering suitability for the most demanding control valve applications, whilst low power consumption enables operation from renewable power sources such as solar panels. ■



INCREASED INVESTMENT IN R&D ENSURES ROTORK PRODUCTS REMAIN THE MOST RELIABLE IN THE INDUSTRY

Engineers prepare for nuclear actuator testing on the new rigs at the Rotork Product Assessment Laboratory.

THROUGHOUT THE COMPANY'S NEAR-SIXTY YEAR HISTORY, Rotork engineers have focussed on solving customers' problems and developing new flow control solutions. Whilst some innovations can be adopted immediately, others demand thousands of hours of testing, assessment and certification before they can be offered to customers. Continuous investment in product testing is therefore a key part of the policy, ensuring that Rotork manufactures the most reliable valve actuation products in the world.

The latest evidence of this activity has witnessed the further expansion of the Product Assessment Laboratory at Rotork's electric actuator manufacturing plant in Bath.

This facility has a long and successful track record of research and development leading to the introduction of innovative and market-leading technologies including IQ intelligent non-intrusive actuation and CVA electric actuators for process control valves.

In one area of the expanded laboratory, new test-rigs and data acquisition systems have been installed to enable increased testing of actuator products for the nuclear power industry. Rotork's extensive experience of nuclear operations and nuclear qualifications has contributed to the development of new products, whilst the acquisition of new businesses has further increased Rotork's scope of supply and service to the nuclear industry.

The latest electric valve actuator range for nuclear new-builds is tailored to suit the specific requirements of the internationally predominant nuclear island designs. The NE actuator range has been developed for use in EDF and AREVA (EPR) nuclear power stations. The ND DC (direct current) and NA AC (alternating current) actuator range has been developed for Westinghouse AP1000 Pressurised Water Reactor (PWR) nuclear power stations.

These new designs are developments of the widely proven Rotork NA range that has been fully qualified to IEEE 382-1996/2006, comprising a simple single-stage worm drive in an oil bath gearbox, electric motor, torque and limit switches and a separate

terminal compartment to which all electrical components are wired. The actuators are designed for a working life of sixty years and the new test rigs play a critical role in confirming this ability. The increased investment in testing facilities is supported by additional manpower to meet the demands of research and development across all of Rotork's increasing ranges of electric actuation products. ■

"The latest electric valve actuator range for nuclear power stations is tailored to suit the specific and varied requirements of the international nuclear industry."



YTC POSITIONERS LEAD THE WAY IN TOUGH APPLICATIONS

Process industries often depend on high performance valve actuation in harsh environments.

DESPITE THE DIFFICULT SURROUNDINGS, process plants demand the latest technology, such as smart positioners, which allow technicians to use auto-calibration and simple diagnostics to commission and monitor their entire system at the push of a button. In many cases, the valve, actuator and smart positioner package is exposed to extreme temperatures, dirty conditions and other challenges such as high vibration.

Most instrumentation positioners would fail early when subjected to these harsh environments. For example, smart positioners require internal electrical components which are extremely vulnerable at high temperatures and may prematurely fail when exposed. Young Tech Company (YTC) has developed two smart positioner products to thrive under these conditions which have paved the way to expansion and growth in tough process control applications.



YT-3301 Smart Positioner with Linear Slide Attachment.

Remote sensing unit positioners:

The YT-3301 introduced the concept of isolating and detaching the sensing feedback portion of the positioner from the main control housing. The sensing unit accurately detects the position of the valve stem and provides a feedback signal. This dual unit design allows the operator to locate the precision electronics elements at a considerable distance from the valve environment, providing the best of both worlds – precision engagement at the point of valve movement and a clean, dry ambient for the electronics. This also facilitates mounting multiple control housings in close proximity for convenient and time saving monitoring and adjustment of valves in the plant.

Triple module remote positioners:

Remotely mounting the sensing unit provides dramatically improved reliability and performance, but at longer distances between the sensing unit and the control housing pneumatic signal loss may occur. In extreme situations this could lead to hunting and oscillation of the electronics and reduced valve and actuator positional stability.

To assure superior performance in these difficult applications, YTC has developed the YT-3302 positioner. This product has a third module which houses the driving components of the pilot valve and torque motor assembly. The third module is mounted at an intermediate location between the remote sensing unit and the main control unit. Accordingly, the three modules are the sensing unit, driving unit and control housing. The sensing unit contains the most robust components and the control unit contains the most sensitive. This configuration delivers higher reliability with dramatically increased positional accuracy.

Added benefits include the ease of maintenance for each of the modules and the ability to gang mount modules at convenient locations. Standardisation of modules and components also facilitates spare part simplification and inventory cost reduction. ■



EXTREME-DUTY HYDRAULIC VALVE ACTUATORS FOR CHALLENGING APPLICATIONS

Rotork RHQ extreme duty rack and pinion hydraulic actuators are designed for the most challenging applications in the mining and offshore industries.

THE BALANCED DESIGN incorporating four power cylinders creates a very compact footprint and provides efficient power consumption across an economical range of eight model sizes.

The range features the benefits of rugged rack and pinion mechanics including IP68 environmental protection, low maintenance and ease of servicing.

Cylinder life is optimised through the combination of electroless nickel plating and redundant piston seals. Individual cylinders are easily serviced on the valve without disturbing the other actuator parts.

The maximum standard output torque is 700,000 Nm (6,200,000 lbf-in)

with up to 5,650,000 Nm (50,000,000 lbf-in) available upon request.

Rotork can also design and supply customised hydraulic power units (HPU) for RHQ actuator operation, providing a single source for the complete valve actuation package.

Rotork HPUs meet any global engineering and manufacturing standards and can be optimised for hazardous and corrosive environments or environmentally sensitive locations.

The choice of specifications includes stored energy accumulators, redundant pumps and controls, and multiple prime movers including solar power and gas to support traditional electrical drives. ■



LATEST ACQUISITION STRENGTHENS ROTORK PRESENCE IN GLOBAL MARINE AND OFFSHORE MARKETS

Rotork has increased its range of flow control products and services for the worldwide marine and offshore industries with the acquisition of Masso Ind s.p.a., an established and respected manufacturer of innovative shipboard valve remote control systems (VRCS).

Designed for critical safety applications, Masso VRCS solutions encompass hydraulic and electro-hydraulic systems that are compatible with most integrated automation systems (IAS).

The Masso product range also includes hydraulic quarter-turn and linear actuators, hydraulic power packs, solenoid cabinets and electro-hydraulic actuators for shipboard applications.

Masso's innovative shipboard product solutions encompass hydraulic and electro-hydraulic actuation and control systems.

Based in Valduggia in northern Italy, Masso has over 80 years of marine industry experience encompassing chemical and cargo vessels, cruise ships, ferries, offshore support and navy vessels. The company's products are supplied to world-leading shipbuilding groups such as Fincantieri and the Meyer Werft Group. Masso will join Rotork Fluid Systems, where its products dovetail into existing ranges of fluid power flow control equipment serving the oil & gas, power generation, marine and manufacturing industries.



Commenting on the acquisition, Rotork Group Chief Executive Peter France said: *"The acquisition of Masso is in line with our strategy of strengthening our presence in the global flow control market and broadening the scope of the Group's activities within the marine and offshore markets."* ■

COMPANY NEWS

NEW SERVICE CENTRE ENHANCES SUPPORT FOR ROTORK CLIENTS IN SCOTLAND

Rotork UK has announced the opening of a new Service Centre in Glasgow to provide enhanced, faster and more economical support for its flow control products in Scotland.



DURING NEARLY 60 YEARS OF SERVING Scottish industries, tens of thousands of Rotork actuators and associated products have been installed in market sectors including conventional and nuclear power generation, oil & gas, water treatment, food and beverages. The Scottish Service Centre will strengthen both the scope and level of support available for products in the field, complementing and building on the benefits of Rotork's Client Support Programme, which enables users to select a level of service precisely tailored for their individual requirements.

Customers can choose from the comprehensive range of service products provided by Rotork Site Services.

Health checks enable customers to prioritise maintenance and replacement planning whilst preventative maintenance enhances the integrity of actuators to maximise plant utilisation. Emergency and planned service encompasses installation, commissioning, upgrading, installation

of control systems, troubleshooting and repair of damaged or deteriorating assets. Actuator overhauls, performed in the Glasgow workshop, will bring long service units back to guaranteed 'as new' condition, whilst the provision of loan actuators to cover workshop overhauls and repairs - a Rotork innovation - has proved to save significant downtime costs.

Rotork Site Services has a wealth of experience in retrofitting new actuators to valves, penstocks and dampers installed on existing plant, as well as the factory assembly of new valves and actuators for plant upgrades and extensions. Capabilities for extended scope projects include surveys, design, procurement, manufacturing and commissioning to cover the broad scope of activities surrounding actuation projects.

These activities are all performed by a fully qualified specialist workforce and supported by large spares stockholdings held at Glasgow and the recently

expanded Rotork UK head office and workshop in Leeds.

Ian Elliott, Rotork UK Site Services Sales Manager, explains:

"Our mission in Scotland as elsewhere is to enable clients to concentrate on their core businesses and increase production by providing maximum reliability and availability of our products by reducing the cost of ownership and year-on-year maintenance risks." ■

Rotork UK's Scottish Service Centre offers:

- ➔ Plant health checks
- ➔ Onsite service and repair
- ➔ Onsite retrofit and system integration
- ➔ Workshop service, repair and torque testing
- ➔ Factory fit (valve and penstock automation)
- ➔ Extended scope contracts
- ➔ Preventative maintenance
- ➔ Loan actuators
- ➔ Large stocks of OEM spares
- ➔ Client Support Programme fulfilment



Customers can choose from the comprehensive range of service products provided by Rotork Site Services

Contact details for Glasgow:

Mark Neilson,
Rotork UK Ltd,
9 Queensberry Avenue,
Hillington Industrial Estate,
Glasgow G52 4NL
Tel: +44 (0)141 810 3391
Email: ServiceGlasgow@rotork.com

NEW ROTORK OFFICE IN SOUTH KOREA

A new service centre has been opened in Korea in Yeosu City. The new site, known as Yeosu Service Centre, has a factory area of nearly 500 m² and an office area of over 180 m².

ROTORK HAS BEEN WELL ESTABLISHED IN SOUTH KOREA FOR MANY YEARS and is active in all the country's industry sectors including power, water, oil, gas, shipbuilding, engineering consulting and engineering contracting. The new facility will provide actuation solutions and service support encompassing products from all Rotork divisions.

The centre is also home to Rotork Site Services in South Korea, providing 24/7 support to companies and industries throughout the country. A dedicated team of engineers and technicians is trained and qualified to serve clients with custom-engineered solutions and complete project management – from manufacture through to installation, commissioning, service, preventative maintenance and life of plant support.

To reinforce this commitment, Rotork customers and staff were invited to the opening of the company workshop on 20th March at the Yeosu Service Centre. ■



The address for the service centre is:

Rotork Yeosu Service Centre
14BL-2LOT
YeonkwanJiKu
JoongHoong-dong
Yeosu-si
JeollaNamdo
Korea

STAINLESS STEEL ACTUATOR SOLUTIONS FROM ROTORK SCHISCHEK

Customer demand to use the Max electric quarter-turn actuator from Rotork Schischek in more and more challenging environments has led to the development of a new range of stainless steel versions.



ALREADY USE EXTENSIVELY IN HAZARDOUS and industrial areas, clients wishing to use Max actuators in corrosive and/or maritime atmospheres can now utilise the VAS and VAM stainless steel versions.

Size S Max actuators (output torque range 5–30 Nm) are now available in a cast stainless steel AISI 316 housing whilst larger Size M Max actuators (output torque 30-150 Nm) utilise a fabricated stainless steel AISI 316 enclosure.

Brass nickel coated cable glands replace the standard plastic versions whilst an option for metal conduits including a stainless steel terminal box facilitates armoured cable connection.

Stainless steel Max actuators retain all the features of the established Max range. Designed and manufactured to the highest possible standards and in accordance with ATEX94/9/EC, they are suitable for operation in

Ex Zones 1, 2, 21, & 22 where gases, vapours, mists and dust may be present in the environment and certified for worldwide use by Ex, UL, CSA (USA & Canada), ExGostR and IECEx

Environmentally certified to IP66, Max actuators are available with and without spring return and have options for on-off, 3-position and modulating control. Torques range from 5 Nm to 150 Nm without spring return and 5 Nm to 60 Nm with spring return.

An extremely useful self-adaptable power supply allows actuators to operate from supplies ranging from 24 to 240 VAC / DC, with opening and closing times selectable on the device. Operating temperatures range from -40 °C to +40 °C with a T6 temperature classification. ■

NEW DIVISIONAL MANAGING DIRECTORS FOR ROTORK GEARS AND ROTORK FLUID SYSTEMS

Commenting on her new appointment, Pamela said:

"I am delighted to be joining Rotork Gears and look forward to applying the experience and knowledge I have gained in my Rotork Business Development role to ensure continued growth for our Gears division."



Pamela Bingham,
Rotork Gears Divisional
Managing Director.

Speaking about his new appointment, David said:

"Joining the Rotork Fluid Systems team is an exciting opportunity for me and I expect to be able to combine my previous experience in the Controls and Gears divisions to help ensure the continued successful growth of the RFS business within the Rotork Group."



David Littlejohns,
Rotork Fluid Systems
Divisional Managing Director.

Rotork has announced the appointment of Pamela Bingham as the Managing Director of the Gears division and David Littlejohns as the Managing Director of the Fluid Systems division.

Rotork Gears manufactures complete gearbox assemblies and valve adaption kits for use with actuators and as direct valve operators. It has facilities in The Netherlands, UK, Italy, China, USA and India.

Rotork Fluid Systems specialises in the production of pneumatic and hydraulic actuators and control systems. It has manufacturing facilities in the UK, USA, Italy, Germany and Sweden and the products are supported with Centres of Excellence that are strategically located around the world.

Pamela Bingham joined Rotork in 2012 as Group Business Development Director and during her time at Rotork she has helped grow the business both organically and through acquisitions. Previously she has held legal, commercial and business development roles in the engineering, mining, renewable energy and oil and gas sectors.

David Littlejohns joined Rotork's engineering design department in 1985 before moving to Rochester, USA in 1996 as an engineer. He moved into sales before becoming General Manager of Rotork's subsidiary office in Petaluma, California.

In 2006 he was appointed Managing Director of the Gears division and returned to the UK. During this time the division has grown and is now the leading supplier of valve gearboxes in the world. ■

MAJOR EXHIBITIONS IN 2015

HERE IS A LIST OF THE MAJOR EXHIBITIONS IN 2015 WHERE YOU WILL BE ABLE TO SEE ROTORK.

Please contact your nearest Rotork office if you would like an invitation or further details. ■

July:

15th - 16th - **ValveWorld USA**, George R. Brown, Houston, TX, USA. Booths: 201, 235

September:

8th - 11th - **Offshore Europe Conference & Exhibition**, Aberdeen Exhibition Centre, Aberdeen, UK. Stand No: IB111

23rd - 24th - **Valve World Asia**, Suzhou, Jiangsu, China. Stand No: 530

26th - 30th - **WEFTEC**, McCormick Place, Chicago, IL, USA. Stand No: 4442

October:

27th - 30th - **Gastech 2015**, Singapore Expo, Singapore. Stand No: D284

November:

2nd - 5th - **ADIPEC**, National Exhibition Centre, Abu Dhabi, UAE. Hall 3, Stand No: 3310

4th - 5th - **DIAM**, Messe Muenchen, Munich, Germany

December:

8th - 10th - Power Gen, Las Vegas Convention Center - Central and North Halls, Las Vegas, NV, USA. Stand No: 2434



rotalk⁴⁰

UK
Rotork plc
tel +44 (0)1225 733200
fax +44 (0)1225 333467
email mail@rotork.com

USA
Rotork Controls Inc.
tel +1 (585) 247 2304
fax +1 (585) 247 2308
email info@rotork.com

For the latest news follow Rotork on twitter @rotork

Rotalk is published and printed by
Rotork Controls Ltd. in the UK.

www.rotork.com



rotork[®]

Keeping the World Flowing