

TECHTORQUE NEWS

**Volume 4
Issue 6**

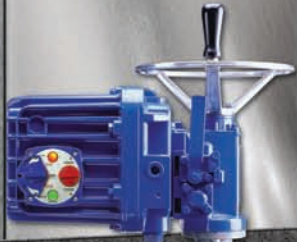
Limitorque

Meet the Family



MX Series

Intellegent multi turn actuator with non intrusive set up and no battery back up



L120 Series

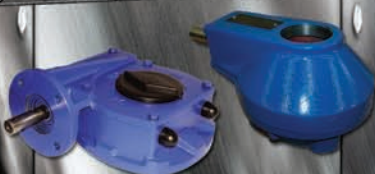
On/off, position and modulating control with a wide range of control options.



SMB Series

Extraordinarily solid construction gives actuators a proven service life of more than 30 years.

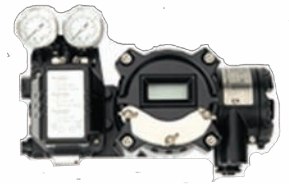
Gearboxes



Welcome to the sixth issue of Techtorque for 2007. Your feedback about our newsletters as well as your suggestions for any particular products or applications that you would like to read about is always welcome. With your input, we will do our best to provide you with informative and relevant reading matter. Please email your comments and requests to our Sales and Marketing Manager, Chris Hoare, at choare@acrodyne.com.au.

August - YT-2400 Flame Proof Positioner Now Has IECex Certification

The YT-2400 flame proof smart positioner has recently been certified with IECex approval. The positioner can be supplied to suit linear or rotary applications and operates on a 4–20 mA signal. It features an easy to read LCD screen which assists in easy calibration and field diagnostics. In addition to this auto calibration, PID control, alarm and Hart protocol are available. Acrodyne can offer a vast range of mounting kits suited to linear and rotary applications. and in addition offer the services of calibration to all valve and actuator packages.



August - Rod's World Trip

During July and August Rod Mason travelled to UK, US, Japan and Korea visiting many of our suppliers. Part of our commitment to supply of valve actuation and control products into Australia and New Zealand is ensuring strong ongoing relationships with the manufacturers of the products we represent as well as keeping up with the latest product technology updates. During this trip Rod was able to get commitment from new suppliers to allow Acrodyne to represent them in the near future – you will see more about this in future issues of our newsletter. Visits to existing suppliers included Limitorque, Beck, YTC, RGS and Mastergear, all of whom had exciting product developments coming up in the not to distant future.

This Editions Character First

Cautiousness

Knowing how important right timing is
... Know what is appropriate.
... Make safety a priority.
... Think ahead.



5 Keys to Building Cautiousness:

- “Think before you Act” – think before deciding.
- “Watch for Danger” – consider the impact on others.
- “Use Right Methods” – follow the process.....it's there for a reason
- “Follow Safety Rules” – avoid short cuts, even when pressured.
- “Consider Right Timing” – doing the right thing, at the right time.

Why is Cautiousness important?

Cautiousness enables us to avoid accidents, build trust, make wise decisions and improves planning.

For more information regarding Character First contact Philip Greenwood at People and Culture on (03) 9018 7971 or 0411 131 449
www.peopleandculture.com.au

Enjoy your retirement Neville

September was a sad time for Acrodyne with the retirement of Mr Neville Louis. Neville has been an important part of Acrodyne's team since joining us about 4 1/2 years ago and his wealth of knowledge and commitment will be missed. I'm sure that the freight companies will be pleased as Neville had great pleasure in getting the best deal possible and making their visit very interesting, and it was very unusual to see the same rep more than once..... But seriously all the best to Neville and his journey into retirement.....for the second time.

BECK

Applications for Beck drives and actuators

TECHTORQUE ARTICLE

Beck electric actuator products have earned a reputation in the process industries for precision, reliability, and low maintenance durability over decades of service. Customers use Beck electric actuator products for a vast array of applications to meet their process control needs. Several of the more commonly equipped applications are listed below with Beck electric actuator product selections for your reference.

Dampers

Beck rotary damper drives and actuators are utilized on a multitude of damper applications to improve process control. Common applications include louvers, butterflies, and radial inlet vanes on ID fans, FD fans, primary air, windboxes, overfire air, coal mills, and many other control dampers. The Group 11 product line is often found on low to medium torque applications (20 lb-ft to 5,200 lb-ft). Group 22 products are utilized for high torque applications (3,000 lb-ft to 8,000 lb-ft), and Group 31 compact rotary actuators are utilized on low torque applications (15 lb-ft to 30 lb-ft).

Industrial Valves

Control loop performance is only as good as the performance of the control valve. It is a well-documented fact that many industrial control loops function poorly as a result of valve actuation problems. Beck valve actuators eliminate the problems caused by both pneumatic and typical electric actuators, and maximize potential of control systems. Group 11 Quarter-Turn Rotary Actuators are suitable for most rotary valve applications. For smaller valves with low torque requirements, Group 31 Compact Valve Actuators may be more suited for your application. Rotary valve applications include almost any ball valves, butterfly valves, and plug valves. The Group 29 and Group 14 Linear Valve actuators are a great fit for most globe valve applications. These units can be mounted in any orientation and provide superior performance in the harshest conditions.

Burner Tilts

For modulating large dynamic loads such as multiple burner tilt arrays, Beck Group 11 drives provide up to 5,200 lb-ft of torque. Exceptionally stable, Beck drives provide repeatable positioning control for maximum boiler efficiency. The most common rotary actuator models utilized for these applications are model 11-400 and model 11-430.

Fluid Drives / Variable Speed Couplings

Beck Group 11 drives are ideal for use with variable speed fluid drives and variable speed couplings on pumps and fans. They provide exceptional stability and repeatability under live loads. These features deliver the precise positioning ability essential for optimum performance. You can contact Beck for assistance in selecting the appropriate drive for your application or download the bulletin for basic drive sizing charts.

Burner Air Regulators

Beck's Group 42 drives are designed to meet the actuation needs of long stroke linear applications. Typical applications include burner air registers and OFA port dampers, but they can be used on any application requiring up to 18 inches of linear stroke. Employing Beck's unique design characteristics, reliability and quality into a long stroke linear actuator design fills a much requested slot in the Beck family of products. Like all Beck drives, the Group 42 is designed for simple installation, no duty cycle limitations, excellent performance and little or no required maintenance.

Industrial Steam Boilers

Whether a boiler is large or small, subject to severe load swings or base-loaded, Beck drives provide the best possible valve and damper control. The consistent and efficient control over time helps to meet emissions regulations, reduce costs, and avoid costly trips and outages. Weather, dust, dirt, and temperature conditions (-40 to 185 F on most drives) do not affect performance.

Damper applications utilize Group 11 and Group 22 drives for louvers, butterflies, and radial inlet vanes on ID fans, FD fans, primary air, windboxes, overfire air, coal mills, and many other control dampers. Valve Applications utilize Group 11 Quarter-Turn Rotary Actuators for many rotary applications and Group 29 or Group 14 for linear valve actuation.

Burner Tilts

A multi-revolution Group 11 drive is available for those applications in which a gravity-type gate must be raised or lowered in response to signal changes. Often used to regulate differential pressure by controlling balancing dampers on the hot exhaust side of furnaces, Beck drives provide high accuracy and quick response even when continuously modulating. This results in greater fuel economy and longer refractory life. Contact the factory for additional details on our multi-revolution products.

BECK

For more information on Beck products and applications please call our office on (03) 8727 7800