

News

YT1000 GOES STAINLESS

The YT1000 electro pneumatic positioner has now been released in a stainless steel 316 version (Model No YT-1050)

Stainless steel is ideally suited in most aggressive environments such as caustic wash down areas, salt and mining especially where aluminium is not permitted. Characteristics of this unit is low air consumption therefore reducing plant operating costs. Calibration is easy due to the simple span and zero adjustments. The unit also features an auto manual switch allowing easy trouble shooting in the field. The positioner is available in linear and rotary versions. The rotary version is compliant to Namur Standard.



Precision Motion Control

Acrodyne have been involved in the supply of Harmonic Drive Products for over twenty years, and due to ever increasing demand Acrodyne is pleased to announce it's new division "PRECISION MOTION CONTROL". This encompasses industries such as mechatronics, robotics, machine tools, medical research and communications industries which is just to name a few.

It is Acrodyne's aim to broaden the current range of products offered and have invested in a training program delivered by Harmonic Drive Systems located in Japan, attended by Andrew Hartley, a member of our External Sales and Jon Bayly from Internal Sales in late September.



This initiative will deliver some exciting and new challenges for both Acrodyne and Harmonic Drive Systems.

Acrodyne now has a base in NSW

Acrodyne is again on the move, this time with the formation of Acrodyne NSW. With a stronger focus in NSW Acrodyne can better serve its distributor and reseller network as well as providing expert consultation and back up service to the end user market.

Stephen McCormack heads up the Acrodyne NSW operation responsible for service and sales, and brings to Acrodyne vast industry experience. Stephen completed an apprenticeship with BHP as an electrical/instrument fitter followed by construction work, 6 years as an electrical/instrument service technician, and 7 years doing electrical engineering and project management.

Please do not hesitate to contact Stephen at Acrodyne NSW to discuss any of your valve automation and service requirements that you require on 0488 222 289 or smccormack@acrodyne.com.au

Welcome to the forth issue of Techtorque for 2009. 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



All in One Actuator



More uses than a swiss army knife



Congratulations

WINNER

Todd Bertram
Winner of Techtorque's first competition

Acrodyne would like to thank the overwhelming number of valued customers that took part in our first Techtorque competition. But unfortunately as witnessed in the respective grand finals there can be only one winner, and that person is

Todd Bertram of Valves and Instrumentation in South Australia.

To be part the next Techtorque competition is located on the back of this issue of Techtorque.

WHAT'S INSIDE



Acrogears range of worm, bevel and spur gear operators representing the most advanced and feature packed gearboxes available. Acrogears are suitable for manual, motorised, modulating and buried service applications.

Acrogears worm gear actuators are also feature packed, 45, 90, 135, 180, 225, 270 degree and multi-turn arrangements are available, single, double and triple reduction spur-gear attachments, aluminium-bronze worm gear, buried service applications, splined bushing as standard, torque ranges from 310 to 540,000Nm. Other options as with the bevel gear range are also available.

We have two kinds of manual worm gear operator type, one is worm gear and the other is worm-helical gear. The latter was worm-spur gear. It has been changed helical gear, because of soft rotating among the spur gears.

INSTALLATION

1) Mounting to valve

If the worm gear operator has been supplied with a hand-wheel, it is recommended that it is fitted to the gearbox before mounting on the valves. About that, be careful the P.C.D and tap size of gear box base.

2) Maintenance

Under normal operating conditions no maintenance is required for the worm gear operator, but should the valve be taken out of service for overhaul, the bevel gear operator base plate may be removed and the grease changed using only recommended lubricants.

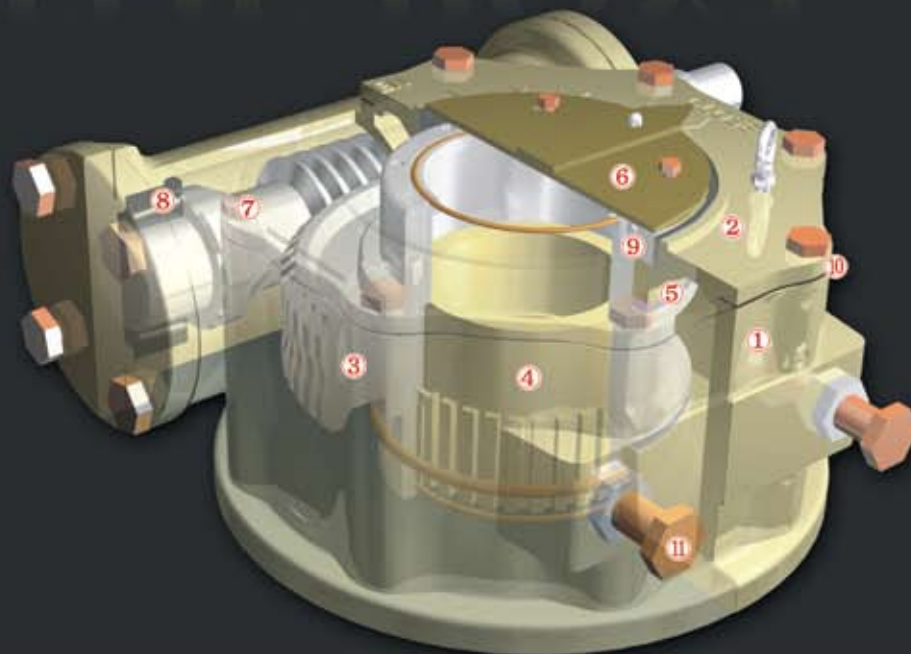
OPTIONS

Acrogears spur gear actuators for parallel input to output operation are also feature packed, suitable for Gate & globe type valves, sluice gates and any other type requiring linear motion for thrust and torque applications. Unique top entry replaceable stem nut, high tensile aluminium bronze material providing corrosion and abrasion resistance. Heavy duty roller bearings supporting both radial and axial thrust loads, gears are machine cut, heat treated and ground for optimum operation. Units are completely O- Ring sealed. Many options, such as hand wheels, chain wheels, stem covers, position dial indicators are available.



ACRO-GEARS

DE THE BOX?



ACRO-GEARS WORM BOX

1. Housing

All external castings are ductile iron class 65-45-12, tensile strength of 65,000 psi that provides high strength and excellent impact resistance.

2. Housing Cover

Legends "Close-Open-Close" are cast directly on the cover. This permits operation in either direction with position indication.

3. Worm Gear

Standard material is ductile iron grade 80-55-06, suitable for most industrial applications. Option is aluminium bronze having a tensile strength of 85,000 psi normally for motorised applications involving modulating service and is also requirement to meet the AWWA standards.

4. Splined Bushing

All units furnished with removable splined bushings to permit accurate position between the gear drive and the valve shaft.

5. Thrust Washer

The drive sleeve is furnished with hardened steel thrust washers above and below the worm gear. This minimizes frictional losses between the gear and the ductile iron castings.

6. Indicator Plate

The pointer provides positive position indication and can easily be re-positioned if required.

7. Worm

4140 heat treated steel with ground and polished worm threads. Precision cutting of the threads provides minimum backlash between the worm gear and the worm.

8. Tapered Roller Bearings

The worm is supported on the tapered roller bearings which support both axial and radial forces generated by the gearings that provides excellent load bearing capacity.

9. Sealing

The drive sleeve is supplied with a oil seal at the top and a large cross section O-ring at the bottom. This sealing method allows the units to be rated for submersible service to IP68 standards.

10. Gaskets

Each end of the worm assembly is equipped with special design material (non-asbestos), which are completely water resistant.

11. External Adjustable Stops

The stop bolts allow for position accuracy of +/- 5 deg. Each bolt also includes Buna-N sealing washers to prevent water damage.

12. Range from 1360Nm to 544,000Nm

Units are available with single, double and triple reduction spur gears.

New Product News

ARIS NL actuator

ARIS rotary and part-turn valve actuators are primarily used to move, regulate and control industrial valves such as control and butterfly valves. The actuators are compact and space saving and focused on robust design and long life. The NL series actuators are driven by a short circuit-proof synchronous motor that provides absolute control accuracy through extremely short motor starting and stopping times (Milliseconds). The sturdy housings made of zinc and aluminium diecasting, the short-circuit proof motor and the maintenance-free steel spur gearing are factors that make the NL series to a reliable lower cost solution for the rough environment of industrial plants. Aris Electric Actuators are available with torques from 8 to 120 Nm and can be optioned with auxiliary switches, microprocessor controller for inputs: 4-20mA/0-20mA/0-5V/0-10V and output: 4-20mA/0-20mA. The 2009 model makes it even more flexible. The innovative plug-in system for the shafts now allows you to easily choose from arbitrary shaft shapes (ISO, square, feather-key, cross-hole etc.) for the same actuator type.



Due to the many options, such as other voltages/frequencies, hand wheel, position indicator, heating, potentiometers etc. the NL actuator can be installed in various fields of the industry sector. Aris strive to deliver consistency in their electrical actuators by maintaining all manufacture at their facility in Germany and therefore will continue to fulfill the highest quality and reliability.

ARIS Antriebe und Steuerungen started with the distribution of compact actuators in 1973. Manufacturing and assembling today is located in the associated factory at Oerlinghausen/Germany, Sales and service is available all over the world. ARIS actuators are specifically designed to move, operate and control valves in all industrial fields. Thanks to constant marketing and innovation ARIS today offers a wide range of electrical and pneumatic actuators and a very extensive line-up of accessories.

New employee to Acrodyne Stephen McCormack

Stephen McCormack joined us in July as our new External and Internal Service Technician based and servicing NSW. Stephen is 47 years of age. Stephen lives with his partner Tracey, 3 daughters and 1 son in Barrack Heights, 2 hours South of Sydney in the Illawarra region. Stephen has over 20 years experience working in heavy industry process control and instrumentation. In his down time enjoys playing soccer and watching sport.



NEWS FLASH - The 6000 series of plastic bodied positioners from Accord have been discontinued and will no longer be manufactured. If you have requirements for plastic bodied positioners in a corrosive environment, Acrodyne can offer the VE700 series from VRC.



For more information on the VE700 please go to the below link or send an email to info@acrodyne.com.au

www.acrodyne.com.au/products/pneumatic/positioners/vrc/

WIN **TECHTORQUE COMPETITION** need guidance?

To be in the running to win a NAVMAN GPS unit, just answer three simple question.

Go to www.acrodyne.com.au, follow the link to the competition page and fill in the online form marked "Techtorque Competition".



The all important question is:

1. Which positioner is now available in stainless steel?
2. What is the name of Acrodyne's new range of gearbox?
3. Name 3 brands of electric actuator that Acrodyne sells?

Entries close 5pm Friday 13th November 2009.

The winner will be announced in the next issue of Techtorque..... Good Luck



"100% Australian owned"
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Actuation and Control

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