

TECHTORQUE NEWS

**Volume 4
Issue 5**

DT ACTUATORS

Double Acting and Spring Return
pneumatic range in torque
from 15 Nm to 4500 Nm

ISO and Namur mounting



Welcome to the fifth 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.

July - Noah and our expertise complete the package

ACRODYNE were able to rectify a problem with a major Australian tobacco company recently. Due to the application a standard ball valve could not be used, so we sourced stainless steel valves, had new seats manufactured out of UHMWPE (Ultra High Molecular Weight Polyethylene) and to complete the package they were fitted to the robust Noah SA05 electric actuator. In all 26 of these units were manufactured, fitted and delivered.

For more information about how Noah Electric Actuators can help your business call Acrodyne or visit us on the web.

July - Water Industry Operators Association Expo

Acrodyne would like to thank all the people who visited our stand at the recent Water Industry Operators Association conference held in July at Dubbo. The conference was held over two days with approximately sixty other exhibitors. Many of the operators easily recognised the L120 series actuator on display which are commonly found around some of their water treatment plants. This has given us the opportunity to reacquaint ourselves with some of the existing users in the surrounding rural areas. This now becomes the second successful exhibition of this type for Acrodyne with the third being held shortly at the Bendigo Exhibition Centre on Holmes Road in Bendigo between the 4th and 6th of September 2007.

For more information call Acrodyne on (03)8727-7800 or go to www.wioa.org.au



This Editions Character Quality

Discernment

Understanding the deeper reasons why things happen

- ... Looking past the surface.
- ... Learning from experience.
- ... Seeking clarity when confused.



5 Keys to Building Discernment:

- “Ask Why” – getting to the cause of problems.
- “Establish the Facts” – gather information and knowledge.
- “Judge Carefully” – verify information, be ready to adjust.
- “Learn from Experience” – change and be more effective.
- “Act Appropriately” – find constructive solutions

Why is Discernment important?

Discernment enables us to prevent mistakes, clarify decisions and build positive relationships.

*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*



Who's New at Acrodyne

Hendro Setiawan joined us in May to fill a varied role including Accounts, Administration and Sales support. Hendro has a Bachelor of Accounting from Swinburne University and has previously worked for 1 1/2 years as a Jr. assistant accountant. Born in Indonesia, Hendro moved to Australia 4 years ago at the tender age of 18 to study and now lives with his brother and sister in law in Mitcham. His leisure time includes soccer, travelling, watching movies and a personal favourite of mine “eating”.

Solenoid Valves

Call now for more information



Coming Soon
to a road near you



PS-AMS

The latest All In one actuator from PS Automation

TECHTORQUE
ARTICLE

PS-AMS is the patented smart actuator solution of PS Automation GmbH for linear actuators up to 25 kN thrust and quarter-turn actuators up to 1000 Nm torque. The new generation PS-AMS 11/12/13 was developed from the proven PS-AMS 01/02/03, is available for various voltages, and mechanical adaptation to most types of valves can be done. Actuators include enhanced electronics with an embedded micro-controller with flash memory that controls and monitors the entire actuator function. Summarizing all functions on a single circuit board makes the PS-AMS actuators extremely safe in operation and easy to assemble. As a result, production costs are low and the value for money is outstanding.

Speed-controlled actuation

The output is generated by a 24VDC motor, which is controlled by the electronics via pulse width modulation (PWM), i.e. it is operated at variable speed. Absolute-coded feedback is done with a precision potentiometer. PS-AMS standard equipment comprises positioner and active feedback function, automatic commissioning as well as comprehensive diagnostics functions.

Mechanical design

The mechanical part of the PS-AMS actuator consists of the components of PS Automation's standard actuators with their well-proven components, namely a robust spur gear with trapezoidal thread in PSL-AMS, and a high-reduction planetary differential gearbox with a hand wheel permanently engaged via a worm gear in PSQ-AMS. All PS actuators are lubricated for life and therefore maintenance-free.

Electrical connection

The electrical wiring of PSL-AMS is done directly to terminal blocks in the integrated terminal box. PSQ-AMS uses a plug-and-socket system with robust screw clamps in a separately attached housing. The plug can be removed without interfering with any existing cables, e.g. for maintenance or exchange of the actuator.

Parameterisation by Software

Our concept of monitoring current and voltage permits adaptation of the actuator functions to the process conditions in many ways. Via our communication software PSCS it is possible to adjust valve-specific details, actuation thrust/torque and speed, to configure alerts, and to do a freely programmable valve curve correction.

Wireless communication

Due to the continual further development and optimising of the electronics and the communication protocol, the signal processing inside the actuator and the communication to the outside are now designed to work even faster and more reliably. Communication is feasible via special communication software PSCS from the PC or wireless via Bluetooth protocol from PC or PDA.

Status indication & Automatic commissioning

The permanent optical status signalled by two LED's was revised in order to make the indicated messages even clearer. All operating conditions or fault functions are now uniquely signalled by specific optical sequences. Automatic adjustment is started in a user-friendly way by a push button.



For more information on this or any other PS Automation product contact Acrodyne on (03)8727-7800 or visit our website

www.acrodyne.com.au

PS Automation 
Gesellschaft für Antriebstechnik

We care for actuation.