



# The Acrodyne Newsletter

Volume 1 Issue 2

# J+J



### Standard Features:

- Multi-voltage
- IP65 housing
- Corrosion resistance
- Manual override
- Din Plug connections
- Aux. limit switches
- Anti condensation heater
- Electronic Torque protection
- 75% duty cycle
- 4 sizes
  - 20Nm
  - 55Nm
  - 140Nm
  - 300Nm

### Options

- Positioner
- Battery fail safe

**W**elcome to the second issue of our newsletter. We trust that you enjoyed our first issue last month. 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](mailto:choare@acrodyne.com.au).

## News

### March 2004 – Mastergear places consignment stock with Acrodyne

Mastergear, a world leader in the manufacture of quality valve gear operators, has made a significant investment in the Australian market by placing consignment stock with Acrodyne. The initial stock consists of 600Nm and 1100Nm manual bevel gearboxes for thrust applications. The investment is proof of Mastergear's and Acrodyne's continuing commitment to servicing the requirements of the valve and process industries in this region. Depending on the success of the initial batch of more than 70 units, other gear operators will become available as part of the consignment program.

### April 2004 – RGS renew SAA I/S approval

RGS Electro-Pneumatics, the UK manufacturer of Namur Mount and Remote Mount solenoid valves, has successfully renewed its Australian Standards intrinsically safe approval for hazardous areas. The level of approval is Exia IIC T6 which allows the product to be used in Zone 0 areas (with an approved barrier). The approval covers the solenoid coils suitable for use with 3/2, 5/2, and 5/3 configurations from 1/8" to 1" port sizes. RGS solenoid coils and valve bodies are available in either aluminium or 316 stainless steel to cater for the different environmental conditions of installations. For more information on intrinsically safe applications we recommend that you contact the specialists, MTL Instruments on (08) 9455 2994.

### April 2004 – Character of the month - Attentiveness

#### Attentiveness vs. Distraction

**Attentiveness is showing the worth of a person or task by giving my undivided attention**

In our busy schedules it is easy to become distracted from the job at hand whether at work or at home. Here are some brief hints from the Character First library:

**LOOK:** Look at people when they speak.

**LISTEN:** Don't attract attention; we have two ears and one mouth and these should be used according to their relative proportions.

**ASK:** Ask questions when unsure; this helps communication.

**ALIGN:** Align our spine and posture; they communicate our attitudes.

**FOCUS:** Avoid distractions.

If you would like to know more about Character First and how it can benefit your organisation, visit the Character First website at [www.characterfirst.com](http://www.characterfirst.com) or contact Brian Ellis on (03) 5253 3272 or [australia@characterfirst.com](mailto:australia@characterfirst.com).

## Product of the Month

This month we feature a range of products in **Netherlocks' Process Interlocking Systems**.

Care about human and plant safety? Find out more by reading our article over the page.



## Our People

Joanne Lai is our Administrative Services Manager. She has been part of the Acrodyne team for 6 years and is now responsible for all accounting and internal processes and systems. Joanne is part of a family of four - husband Victor is an engineer, son Jensen is a university student and daughter Janice is studying for her VCE. Joanne enjoys gardening, entertaining and spending enjoyable times with friends. Travelling is high on her list of favourite pastimes as are reading articles and watching documentaries on nature and animals.



## Next Issue

In our next issue we will be featuring products by TA Roloff, a German manufacturer of specialist electric actuator solutions such as spring return and IP68 made of aluminium, steel or stainless steel.

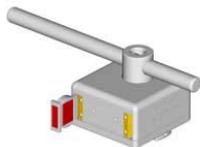


# Products of the Month

## Netherlocks Process Interlocking Systems



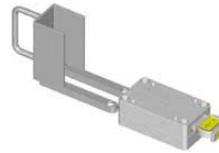
Multi Rotation Lock  
(MRL)



Ninety Degree Lock  
(NDL)



Compact Key  
Cabinet (CKC)



Closure Lock  
(CL)



Mechanical Process  
Control Unit  
(MPCU)



Electrical Switch Lock  
(ESL)

**NETHERLOCKS** is a world renowned brand name that is synonymous with high quality safety systems and valve control. It is a Dutch manufacturer headquartered in Alphen aan den Rijn, in the middle of four major cities in the Netherlands: The Hague, Rotterdam, Amsterdam and Utrecht. Founded in 1993, the factory is accredited to ISO 9001 quality system standards.

**ACRODYNE** is the authorised Australian agent for Netherlocks products intended for applications such as process interlocking, machine guarding, lock-out/tag-out and valve control. This issue of The Acrodyne focuses on Netherlocks' "process interlocking" systems.

**Interlocking** simply means that a particular operation within a procedure must be executed in order to be able to perform the next operation. This is achieved by means of sequential mechanical key transfers whereby one operation releases the key which is necessary for the next operation. Another terminology used for this principle is "Trapped Key Interlocking".

**Applications** of the process interlocking principle include: stand-alone valve locking, PSV switch-over systems, pig launcher/receiver procedures, fuel loading systems, batch processes, powerplant cooling systems, pump start-up procedures, reactor switch-over systems, boiler blowdown systems, furnace switch-over systems and CO<sub>2</sub> deluge systems.

**Products** for the Netherlocks' "process interlocking" systems include: Multi Rotational Lock (MRL), Ninety Degree Lock (NDL), Compact Key Cabinet (CKC), Closure Lock (CL), Mechanical Process Control Unit (MPCU), and Electrical Switch Lock (ESL).

**Multi Rotation Lock (MRL)** is suitable for all types and sizes of handwheel-operated valves like gate-, globe- and gearbox-operated valves. Since the number of rotations to open or close a valve is different for almost every valve, the MRL has a field adjustable, easy to set counting mechanism. Setting is only possible in case the operator is in possession of a special tamperproof fitting-tool and the correct linear key(s). With both linear keys inserted into the lock, the valve can be operated. Only when the valve is fully opened or closed can one of the keys be released, locking the valve in open or closed position.

**Ninety Degree Lock (NDL)** can be installed on any type of valve that operates with a 90° or 180° rotation such as ball-, butterfly-, and plug valves. The stainless steel sliding lever, which is provided with the lock, gives the operator more flexibility. The static lock body always ensures the most convenient operating position and only the lever makes the necessary rotation. With both linear keys inserted into the lock, the valve can be operated and only when the valve is fully opened or closed can one of the keys be released, locking the valve in opened or closed position.

**Compact Key Cabinet (CKC)** is a lockable cabinet for storing the start keys safely in the control room. It has hard-coded key positions thus eliminating the possibility of an operator inserting a key in the wrong position. Every key entry has its own tag plate containing all the necessary information of which valve or system is active. It has a non-combustible transparent door allowing an immediate visibility of the status of the valves and/or systems.

**Closure Lock (CL)**, as part of an interlocking sequence, guarantees that the isolation valves are closed and the vessel is vented and drained before opening the closure. Since every closure is different, CL parts are custom designed for each type and size of closure.

**Mechanical Process Control Unit (MPCU)** is a step-by-step key exchange system to control complicated interlocking procedures such as pig- launching and receiving procedures, batch processes and regeneration units. Every step of the interlocking procedure is mechanically pre-programmed in the MPCU creating a 100% safe situation. The operator cannot make any mistakes because one step has to be taken before another step can be executed. The knob on top allows only one step in case a proper key is inserted. Once turned a new key within the sequence is free.

**Electrical Switch Lock (ESL)** integrates the process of switching off the electrical power into an interlocking sequence. The universal design of the ESL makes it suitable for all types of switches. The ESL makes use of a bolt lock such that the key is trapped when a linear key is in use and the power is switched ON. Once the power is switched OFF, the key can be released, for example to continue the interlocking sequence (or vice versa). The ESL is also available as a complete assembly, including any type of switch, according to the required specifications.

We are unable to include all available product details and features in this issue. For a more comprehensive set of information, clarifications and additional copies of this issue, please contact **Dick Kors** at **ACRODYNE** on 03 9729 8666.