

• **New IECEx international safety certification in hazardous areas**

The electrohydraulic valves for use in hazardous areas are subject to international laws differing from national standards. The **IECEX** (www.iecex.com) is a worldwide recognized safety certification based on the **International Electrotechnical Commission** standards covering electrical equipment for use in explosive atmospheres. The goal of IECEx is to reduce trade barriers and open up new markets, to help manufacturers to reduce costs and time for additional testing and certifications and to assure the equipments' conformity to strict International Standards.

Atos have got the new IECEx certification currently available for all the on-off and proportional ex-proof solenoids certified according to ATEX 94/9/CE, group II for surface plants with gas, vapours and dust environment. Next step will be the IECEx certifications of solenoids currently according to ATEX directive, group I.



Ex-proof directional valves

• **Low power consumption solenoids for directional valves**, tech. table **TE015**

The topical demand of more efficient processes in the industrial sectors (i.e. machine tools, hazardous and subsea applications) leads Atos to manufacture the "**low power consumption**" range of solenoids. They can be directly connected to I/O module of control units or to bus knot with a considerable energy saving. M12, 5 poles connectors with or without built-in led and integral suppressor diode are also available.

- ▶ **DHU/15W**, 15 W power, spool type, max operating limits 40 lpm, 210 bar
- ▶ **DHO/8W**, 8 W power, spool type, max operating limits 50 lpm, 250 bar
- ▶ **DLOH/AO/3W**, 3W power, poppet type (free leakage), ex-proof according to ATEX 94/9/CE, Ex II 2 GD Ex d IIC T6/T4/T3. Max operating limits 5 lpm, 210 bar
Ex-proof stainless steel version available, on request



DHU/15W and DHO/8W

Availability: already in production

Prices: available on request

• **New proportional pressure control valves, Pmax= 350 bar**, tech. table **TF030**

The proportional pressure control valves range with max regulated pressure up to 350 bar have been now extended to the following models:

- ▶ **TERS and AERS** closed loop with pressure transducer and integral driver
- ▶ **ex-proof version**, in open or closed loop with or w/o integral driver, certified according to ATEX 94/9/CE directive and C UL US Standards

Typical applications: metal forming, forging and bending presses, oil & gas equipments

Availability: already in production

Price: available on request



TERS proportionals up to 350

• **New NG32 DPZO with enlarged ports size 50**, tech. table **TF080**

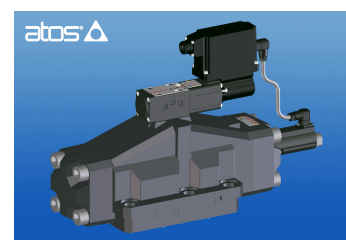
The DPZO proportional directional valve size 32 is now available with **enlarged P, A, B, T ports - Ø 50 mm** - only for closed loop versions with or without integral drivers. Special prefix will be appointed to the valve with option /H. Higher flow capability than standard and lower pressure drop into the manifold block are the main topics.

Max flow rate 1.200 lpm at constant total $\Delta P = 30$ bar; max operating pressure 350 bar.

Typical applications: metal forming, forging and bending presses, injection molding machine, die casting press.

Availability: already in production

Price: available on request



DPZO-LE-6/H

• **LIQZO-LE, 2 way: new air filler port**, tech. table **F330**

New design improvement has been introduced in the LIQZO-LE 2 way series 80 to comply with the stressing conditions of **die casting press**. Besides the air bleeding ports to better bleed off the piloting chambers, an additional air filler port is located on the top of cover just to compensate the vacuum phenomena on LVDT room during the harsh deceleration of the injection ram. It will enhance the valve reliability by reducing stress and possible faults on LVDT seals and mechanical parts.

Availability: already in production

Price: no additional on standard price list

• **New LIQZO-LE, 3-way with inverse working configuration**, tech. table **F340**

The LIQZO-L* 3-way proportional valve is now available with the **inverse main cartridge configuration** (option /A) with disabled pilot valve and powered on piloting pressure. In press application mainly, the new A to P ports connection will allow the main ram to lift up in presence of electric fault of pilot and proper system pressure in order to avoid any tool breaking or injury to operators. It is available for all LIQZO sizes.

Availability: already in production

Price: no additional on standard price list

• **Data on demand for assembling operations**

The computerization of assembling benches has been completed and the operator can now fully enjoy the great benefits of the direct access to Atos' intranet network through **PC station and touchscreen**. Once the barcode on the valves production order has been read, the valve's drawing, BOM and visual instructions will be displayed in real time on the monitor.

Main advantages:

- ▶ improvements of quality performances through a deeply reduction of possible assembling mistakes
- ▶ optimization of benches layout and removal of paper documents

• **Data Matrix code on valves nameplate**

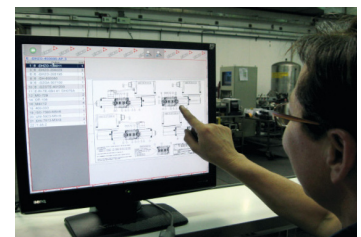
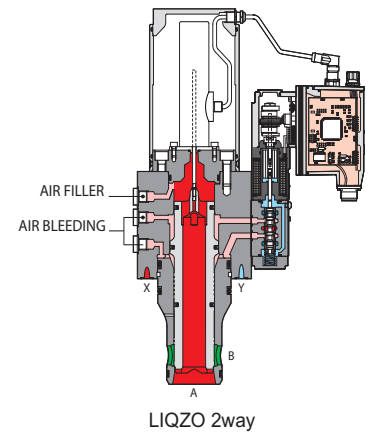
Atos is pleased to announce the series introduction of **Data Matrix code**, etched by laser on valves nameplate. The new identification will be applied starting from the proportional valves and extended to all other components step-by-step.

Data Matrix consists of a bi-dimensional bar code printed on the valve nameplate for an immediate and univocal traceability of the historical production data basis. It also records information in regards to the valve functional testing such as measured performances, test dating, reference bench and name of the operator.

Availability: starting from week 28, 2010

• **New optical measurement system**

New optical measurement system for spools, shafts and cylindrical parts has been introduced at Atos Quality Assurance department just to strengthen the Statistical Process Control in production metrology. The component profile is **automatically scanned optoelectronically** and its contour evaluated quicker and more precisely thanks to high resolution capabilities and the integral temperature compensation. Length measurement, evaluations of form and position tolerances (up to 1 micron of precision) are the main functions of the optical scanner also supported by worker-friendly software and result tracking.



Touchscreen



Data matrix on nameplate



Optical measurement system