

New KT17 Master catalog

The new **KT17** master catalog, available from April '17, has been deeply revised with a large number of updated technical tables.

Its new cover design enhances the big number of additional products herein contained:

Proportionals & electronics:

- **RZME, RZGE, AGMZE** cost effective pressure controls with threaded solenoids
- **AEB, AES** digital open loop valves replacing all AE analog models and AES series 30
- **E-BM-AES** driver in DIN rail format for open loop **A** valves without transducer
- **REB, RES** pressure closed loop valves, replacing TERS executions
- **E-BM-RES** driver in DIN rail format for pressure closed loop **R** valves with integral pressure transducer
- **POWERLINK & EtherNet/IP** communications for **TES/LES/TEZ/LEZ/PES** proportionals
- **E-ATR-8** pressure transducers and **E-DAP-2** digital switches

Safety valves: tables E110 and E115 have been replaced by a collection of new technical tables identified by **EY code**, specific for every single safety component, containing detailed information and technical data.

Cartridges: **SC LI** high flow cartridges and **LI**P** functional covers with max pressure **420 bar**.

Ex-proof, intrinsically safe and stainless steel valves: no more included into KT catalog.

They will be available in the catalog on-line and in the next dedicated **KTX** ex-proof paper catalog that will be printed in Q2/Q3 2017.

This choice has been motivated by the need to provide technical tables complying with customer needs to have more detailed valve's performance data, certification data, overall dimensions, solenoid wiring, etc... not completely reported in previous tables.

New PROFINET IRT for Atos digital valves

Atos has activated a project to implement **PROFINET IRT** communication in TES/LES proportional directional & flow closed loop valves, TEZ/LEZ integral axis controllers and PES/PERS pumps. The new fieldbus will extend potential applications to systems powered by SIEMENS controllers representing a consistent share of the whole market. This new protocol will enlarge the range of already existing EtherCAT, POWERLINK and EtherNet/IP communications based on Ethernet technology.

Availability: Prototypes from Q4-2017

The digital proportionals road map has been updated accordingly [Click here](#)

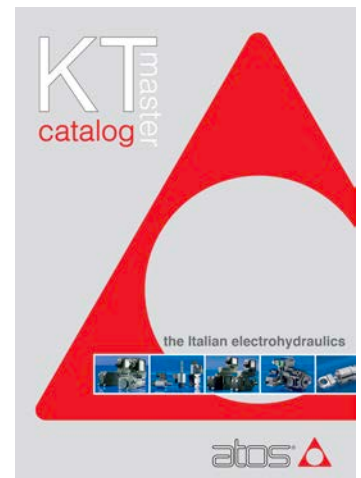
New Z-BM-KZ digital axis controller in DIN rail format

Atos has started developing the new digital axis controller **Z-BM-KZ** in Din rail format, that is particularly appreciated for the vibration-proof characteristics.

The digital electronics will be strictly derived from the last generation of on board TEZ/LEZ controllers and it will include CANopen, PROFIBUS, EtherCAT, POWERLINK and EtherNet/IP fieldbuses.

It will replace the actual Z-ME-KZ in Eurocard format.

Availability: Prototypes from Q4-2017



KT17 cover



E-BM-RES driver with pressure valve R



Digital valve with PROFINET



New Z-BM-KZ

New SIL/PL  certification for digital valves

In response to the increasing request of SIL/PL certified components for industrial applications, in 2016 Atos has started with TÜV laboratory the project to achieve the certification to international directives **IEC 61508 Safety Integrity Level** and **EN ISO 13849 Performance Level** for closed loop digital directional valves TES/LES and TEZ/LEZ.

Directional closed loop valves with double power supply (12 poles main connector) will be the first certified components. Please consult Atos Technical Office for additional information about SIL/PL certified components.

Availability: from Q3-2017

New Low leakage on/off solenoid valves type L8

The new **low leakage** line "L8" of solenoid directional valves with spool diameter 8 mm, designed for systems assisted by accumulators, is now ready for samplings / pre-series supply and it includes following models:

SDHL8 compact solenoid valves - tech. table [TE050](#) available in Atos on-line catalog, supplementary components section. Prices on request.

Upon Atos approval, the valves can be also supplied from Atos Shanghai plant for selected OEMs with consistent and repetitive series quantities. Prices on request in RMB currency.

Executions for potentially explosive environments:

DHAL8 equipped with ex proof solenoids multicertified ATEX, IECEx , EAC or UL certified
DHWL8 equipped with intrinsically safe solenoids certified ATEX or IECEx

Tech. tables TEX050 and TEX060 are in progress and will be shortly available in Atos on-line catalog. Prices on request.

ELECTROHYDRAULICS APPLICATIONS

Electrohydraulics systems for tire industry

Atos know-how in tire industry has been achieved thanks to several-years experience in the manufacturing of hydraulic systems for mixers and curing presses for major worldwide OEMs. They consist of customized solutions designed to perform and work 24h x 7days in high ambient temperature with high humidity rate and equipped with sophisticated diagnostics for the machine safety, preventing dangerous situations and potential failures.

The whole hydraulic system consists of:

- HPU generating the fluid power through variable displacement piston pumps combined with bladder accumulators for installed power optimization and energy saving.
- complete manifolds with on-off and digital proportional valves with fieldbus communication
- cylinders and servocylinders with integral position transducer and high temperature seals

Atos Big Cylinders for drawbridge

Atos big size cylinders operate the lifting system of Tuckov drawbridge in St. Petersburg. The 2 giant spans of the bridge are operated by means of n.8 CH type cylinders size 400/220 exerting a total pulling force of 450 tons.

The cylinders are designed for a max pressure up to 300 bar, required to contrast the wind effect when the bridge is open, while the special piston seals grant a "soft motion" during the opening / closing phases and the absolute sealing over long periods in high pressure conditions

OTHERS

VpCi protective packing system

The **VpCI packing system** (vapor phase corrosion inhibitor) has been now extended to all range of Atos on-off and proportional valves offering a high protection to oxidation during components sea transport or long storage in humid environments.

It consists of a special plastic bag (simple or heat-shrinkable) which releases a corrosion inhibitor on the whole surface of the packed valves. The VpCi system in addition to the other already running packing improvements (shaped padding / cardboard box with elastomeric film) grants the best protection for long distance shipments.



TÜV certified proportionals



SDHL8 "low leakage" solenoid valve



Power unit for curing press



CH big bore cylinders



St. Petersburg drawbridge



VpCi packing system