

## **New Digital drivers & axis controller in DIN rail format**

DIN rail format drivers & axis controller are the digital solution for all industrial and mobile applications requiring the remote control of proportional valves, due to harsh environments with high temperature or vibrations.

**E-BM-TES & E-BM-LES closed loop drivers** are the off board solution for directional and flow proportionals.

**Z-BM-KZ axis controller with driver functionality** is the off board solution for:

- directional proportionals with alternated pressure/force control
- axis position closed loop control with or without alternated pressure/force control

They are derived from digital on board models TES / TEZ and have their same command signals, options and fieldbus.

For additional information on these versions under development, see products preview [MS363](#)

These DIN rail drivers and controllers will gradually substitute actual Eurocard versions, according to Atos digital proportionals [roadmap](#)



E-BM-TES digital driver

## **New Industrial Ethernet for Atos digital proportionals**

**PROFINET IRT** protocol is under development. It will be **available Q4 - 2017** for the whole range of Atos closed loop proportionals valves, pumps and axis controllers, extending their potential applications to systems powered by **SIEMENS** controllers.

**EtherNet/IP** protocol is **fully available** for above mentioned valves and pumps, permitting their full compatibility and integration in digital networks powered by **Rockwell / Allen-Bradley** controllers.



## **New High pressure functional covers & high flow cartridges**

**New ISO functional covers series 50 - Pmax 420 bar** are going to be introduced in the whole range of pressure, directional and check controls.

Covers equipped with pilot solenoid valves will available with options:

- **EP** for 420 bar, mounting high pressure pilots DHEP or DKEP
- **I** or **E** for 350 bar, mounting standard pressure pilots

**New ISO cartridges series 40 - High Flow & Pmax 420 bar**

Available from size 16 to 100 with poppet type 32, 33, 42, and 43 for directional controls *They have  $\Delta p$ /flow performances improved about 40%* respect to the actual ones, thus aligned with top products of main competitors.

Pmax 420 bar makes them suitable to be paired with the new functional covers series 50.

**Current SC LI cartridges series 30 - Pmax 420 bar** for poppet type 31, 34, 35, 36, 37

P/Q performances are unchanged respect to current series, but increased Pmax make them now suitable to be paired with the new pressure control covers series 50.

Price list and availability: on request

Technical documentation: see tech. tables [H010](#), [H020](#), [H030](#), [H040](#), [H050](#), [EY120](#)



High Flow cartridges series 40

## New SIL/PL certification for digital proportionals

The TÜV certification to IEC 61508 Safety Integrity Level and EN ISO 13849 Performance Level for digital directional valves TES/LES and TEZ/LEZ is in progress and it will be available within Q3-2017 starting from valves with double power supply (12 poles main connector).

Atos Technical Office is available for any additional information you might require.

Availability: according to Atos digital proportionals [roadmap](#)

## SIL/PL certification for on/off valves

SIL certification, in compliance to IEC61508, has been extended also to:

- standard leak-free valves DLEH & DLEHM
- ex-proof DLAH, DLAHM
- stainless steel DLPX(S)

Relevant certificates can be downloaded from Atos [catalog on-line](#)

## New Relief and Reducing valves with remote pressure transducer

**REB-N & RES-N** closed loop pressure proportionals with integral driver and remoted pressure transducer replaces the obsolete AERS model.

They are the ideal solution for applications where the proportional valve is installed far from the point of the hydraulic circuit in which the pressure has to be monitored, for example big size hydraulic presses.

Price list: on request

Availability: from September '17

Technical documentation: see tech. tables [TFS100](#) and [TGS205](#)

## New High dynamic servocartridges for die casting

**LIQZH** are successfully performing the injection phases in die casting machine, as recently confirmed by several OEM sector leaders!

The ultra-fast response is aligned with Parker TDP model: **20 ms @ 0-100% for size 50** Moreover, the particular poppet profile permits to control the first injection phase with a very low speed, under **0,01 m/s**; while speed up to 7 m/s can be achieved with max dynamics and excellent control stability during second injection phase.

Price list and availability: on request

Technical documentation: see tech. table [TFS330](#)

## Electrohydraulic systems for helicopter hangar door

Atos electrohydraulic systems operate the helicopter hangar door in military ships.

They consist of hydraulic power unit and cylinders certified by BV notified body.

Main characteristics:

- reliability - the hydraulic supply is ensured in any condition by 3 different power sources, also in case of electric shut-down
- mechanical resistance - the power unit is provided with shock-absorbers and all equipments are calculated to withstand extremely high shock levels (e.g. explosion)
- environmental resistance - special painting and stainless steel piping grant the best resistance to the salty environment

Atos Technical Office is available for any additional information you might require



DLKZOR-TEZ with double power supply



DLPX stainless steel valve



RZMO-REB-N with remote pressure transducer



LIQZH high dynamic servocartridge



Helicopter carrier