100% digital electrohydraulics

Atos digital proportionals offer a powerful mix of innovative features

Complete range of valves and controls with rugged design and outstanding performance



Digital range

The outstanding performances of Atos digital proportionals are the result of long lasting R&D activities

Basic B silver execution:

- digital performances at analog price
- analog commands signal
- rugged design up to 50g
- temperature range -40°C ÷ +60°C
- water & dust proof IP66/67
- 200 h in salt spray

Full S black execution:

- wide range of fieldbus interfaces
- P/Q control function
- TÜV certified safety functions

- 1 high performance proportional
- 2 direct & pilot operated servoproportionals
- 3 pilot operated servoproportional, size 35









Fieldbus

BC CANopen

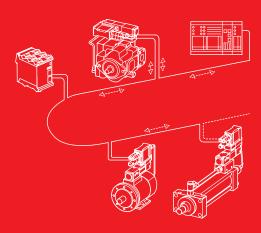
BP PROFIBUS DP

EH EtherCAT

EW POWERLINK

El EtherNet/IP

EP PROFINET

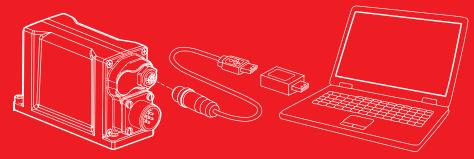


Real time access to valves' parameters and diagnostics

Software

E-SW programming software allows to set the electronic driver's functional parameters

Basic version is available by free web download



- graphics organized in pages and levels
- numerical optimization of factory preset parameters
- real time monitoring
- advanced diagnostics
- internal oscilloscope



TEZ servoproportionals with axis control

Servoproportional valves with LVDT transducer, on-board digital driver & axis card perform position, speed and force controls of any electrohydraulic axis

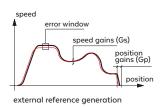
Axis cards are also available for cabinet installations in off-board execution, with or without driver function

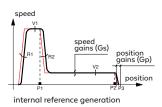


AZC digital servoactuators

Smart actuators performing the complete axis motion cycle The integral construction improves the performance and simplifies the machine's wiring







servocylinder 1 with position transducer 2, servoproportional valve 3, integral TEZ controller 4, connections to position transducer 5, to electric power, electronic signals and fieldbus 6



- **4** AZC servoactuator with flow/force control by load cell
- **5** Z-BM-TEZ off-board digital axis card with driver function

TEB & TES proportionals with LVDT transducer

Directional and flow control valves with on-board digital driver Off-board digital drivers are available for cabinet installation



High Performance proportionals

With positive overlap spool and central rest position

Servoproportionals

Sleeve execution with zero overlap spool for accurate closed loop position controls & fail safe function Pilot operated directional control valves 6 & high dynamic servocartridges 7 are equipped with 2 position transducers



LVDT loogs

diaital driver

valve body with spool-sleeve



E-BM-TES off-board digital driver, DIN rail mounting

9 TEB & TES servoproportionals





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P/Q options for TES & TEZ proportionals

SP, SF, SL options add pressure (force) closed loop control combined to the flow (speed) regulation of proportional directional control valves

Functional schemes

SP - 1 pressure transducer **SF** - 2 pressure transducers SL - load cell

electronic valve position transducer load cell transducer

REB & RES pressure controls

Relief or reducing proportionals with pressure closed loop to ensure best accuracy and repeatability

These on board digital drivers offer four preset dynamic configurations:

1 fast - 2 standard - 3 smooth - 4 open loop

fieldbus







pressure transducer

10 PES axial piston pump with P/Q control 11 TES servoproportional with SF option

12 E-BM-RES digital driver, DIN rail mounting

AEB & AES proportionals without LVDT transducer

Directional, flow and pressure control valves with on-board digital drivers





- 13 AEB directional proportional
- 14 AES pilot operated pressure control
- 18 DHZO-A directional proportional
- 19 AGMZE-A pilot operated pressure control

Digital off-board drivers

DIN rail mounting for cabinet installation

E-BM-AS cost-effective solution 15

E-BM-AES high performance with fieldbus 16

W option adds max power limitation PxQ

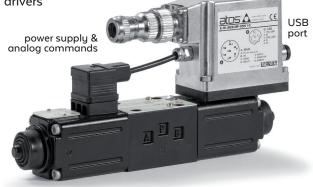












ZO-A & ZE-A proportionals

Directional, flow and pressure control valves without LVDT transducer & electronic driver:

ZO-A high performance

ZE-A cost-effective solution

E-MI-AS digital driver, coil mounting 17





Atos regularly hold technical training courses on digital electrohydraulics Our specialists are available for on-site technical support at customer locations









Atos spa

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