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
- **EI** 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.

1. Servo cylinder with position transducer
2. Servoproportional valve
3. Integral TEZ controller
4. Connections to position transducer, to electric power, electronic signals and fieldbus
5. AZC servoactuator with flow/force control by load cell
6. 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

8 E-BM-TES off-board digital driver, DIN rail mounting
9 TEB & TES servoproportionals
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

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

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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

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

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