Closed loop digital pressure control
relief or reducing valves

DRAFT

atos

*New **REB/RES** closed loop pressure control proportionals, relief or reducing, are equipped with new on board digital driver and integral pressure transducer, to ensure top market performances*

① **RZMO-REB -P-NP** s. 10 - **basic** *table GS205*

Replace actual digital ZO-TERS valves in PS execution, without fieldbus interface

Improvements vs ZO-TERS:
ingress protection IP66/67
rugged construction for vibration & shocks
ambient temperature range -40°C÷+60°C
white zinc protection coating on driver case
tropical coating on electronic PCB

Valve performance: slightly improved vs ZO-TERS

Reference & monitor signal: 0÷10 V or 4÷20 mA

Valve setting: by Atos software through USB port

Fieldbus interface -NP = not present

Prices: competitive respect ZO-TERS:
RZMO-REB-P-NP-010 reduction **-23%**

Options: **I** current reference & monitor 4÷20 mA
Q enable signal
Z adds double power supply,
enable and fault signals

② **RZMO-RES -P-✳** s. 10 - **full** *table GS205*

Replace actual digital ZO-TERS valves with fieldbus communication interface

Improvements vs ZO-TERS: see ZO-REB

Valve performance: slightly improved vs ZO-TERS

Reference & monitor signal: 0÷10 V or 4÷20 mA

Valve setting: by Atos software through USB port

Fieldbus interface ✳✳
for digital reference, valve's diagnostics & setting:
-BC = CANopen
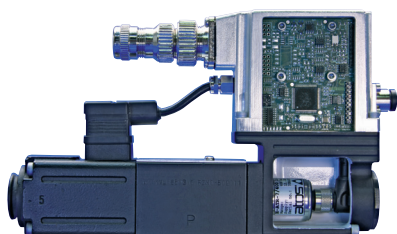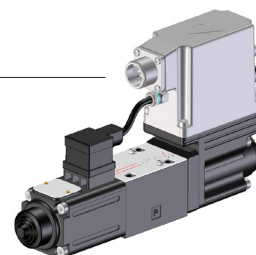**-BP** = PROFIBUS DP
-EH = EtherCAT (not available for ZO-TERS)

Prices: competitive respect ZO-TERS:
RZMO-RES-P-BC-010 reduction **-21%**
RZMO-RES-P-BP-010 reduction **-24%**

Options: same as ZO-REB

Standard 7 pin connector:
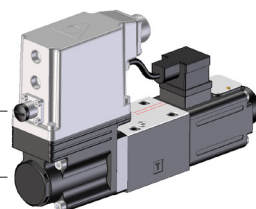power supply, analog reference & monitor 0÷10V or 4÷20 mA

Optional 12 pin connector:
add double supply, enable & fault

USB port for software setting

Integral pressure transducer

REB/RES dynamic response

The valve is provided with 4 PIDs configurations to match different hydraulic conditions. The required PID configuration can be selected through Atos E-SW software via USB port. Only for RES the PID can be also selected in real time, through PLC via fieldbus.

PID: 1 fast - default, interchangeable with TERS
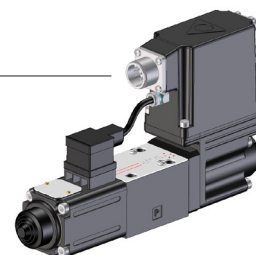**2 standard**
3 smooth
4 open loop

Standard 7 pin connector:
power supply, analog reference & monitor 0÷10V or 4÷20 mA
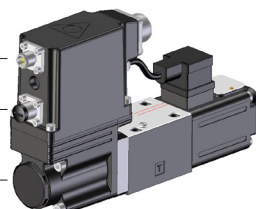
Optional 12 pin connector:
add double supply, enable & fault

Fieldbus interface port **-BC** or **-BP**
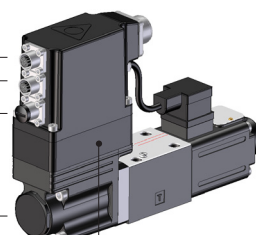
USB port for software setting

Integral pressure transducer

EtherCAT interface ports **-EH**
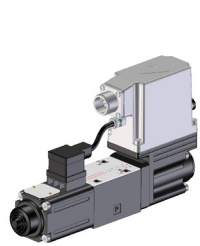
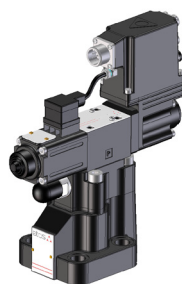USB port for software setting

Integral pressure transducer

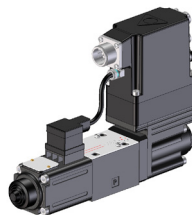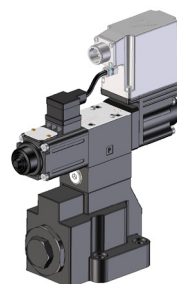**-EH** 24 mm higher respect -BC or -BP

Range overview

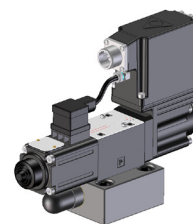**RZMO-REB-P-NP-010**
Relief, direct
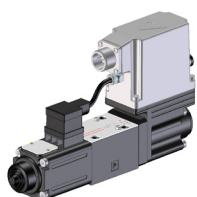
AGMZO-RES-P-BP-20
Relief, two stage

RZGO-RES-P-EH-010
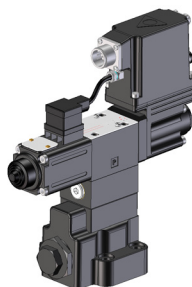Reducing, two stage

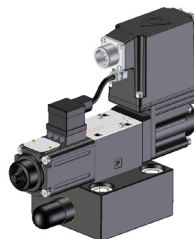**AGRCZO-REB-P-NP-20**
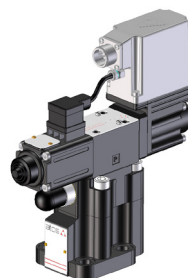Reducing, two stage

LIMZO-RES-P-NP-2
Relief, cartridge

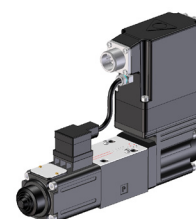**RZGO-REB-P-NP-010**
Reducing, direct

AGRCZO-RES-P-BC-10
Reducing, two stage

LICZO-RES-P-BC-4
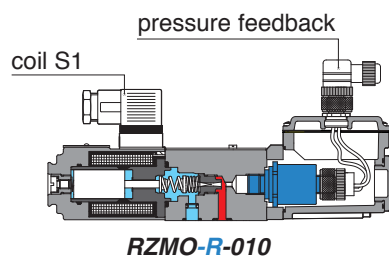Relief, cartridge

AGMZO-REB-P-NP-10
Relief, two stage

RZMO-RES-P-EH-010
Relief, direct

pressure feedback

coil S1

RZMO-R-010

New E-BM-RES closed loop digital drivers in **DIN rail format** are strictly derived from on board RES ones, for remote cabinet installation in applications with critical temperatures or environments. They are designed to supply & control high performances ZO-R closed loop pressure control valves with integral pressure transducer

③ **E-BM-RES -**** series 10 - DIN rail panel format *table GS203*

Reference & monitor signals: 0÷10 V or 4÷20 mA

Pressure feedback signal: 0÷10 V or 4÷20 mA

Valve setting: by software through USB port

Fieldbus interface **
for digital reference, valve's diagnostics & setting:
-NP = not present
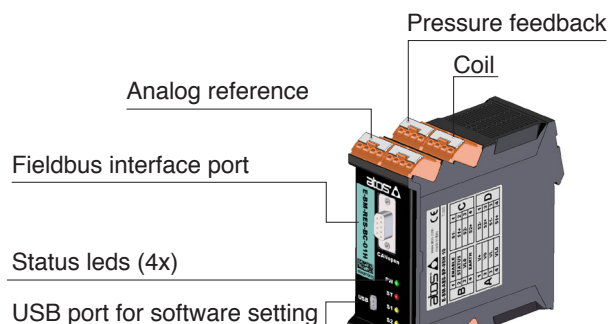**-BC** = CANopen
-BP = PROFIBUS DP
-EH = EtherCAT

Prices: 2016 price lists

Options: **I** current reference & monitor 4÷20 mA
   C current feedback 4÷20 mA for pressure transducer
   A max current limitation for ex proof valves

Pressure feedback

Coil

Analog reference

Fieldbus interface port

Status leds (4x)

USB port for software setting

USB interface port **-NP**

CANopen interface port **-BC**
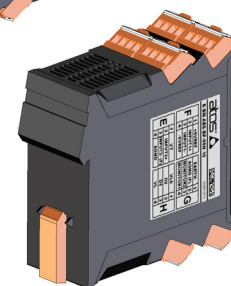
PROFIBUS DP interface port **-BP**

EtherCAT interface ports **-EH**

DIN-rail panel format