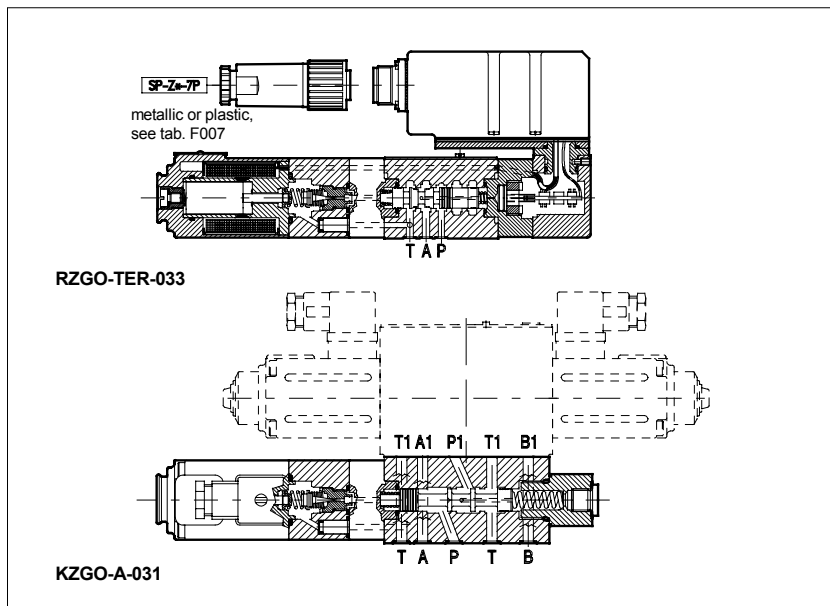


Proportional pressure reducing valves type ZGO

pilot operated, ISO/Cetop 03, 05



These proportional pressure reducing valves are 3-way, pilot operated and available in two different executions:

- R subplate mounting;
- H or K modular mounting.

They operate in association with electronic drivers which supply the proportional valve with the correct current signal according to the reference signal coming from the central unit (see sect. G of the general catalogue).

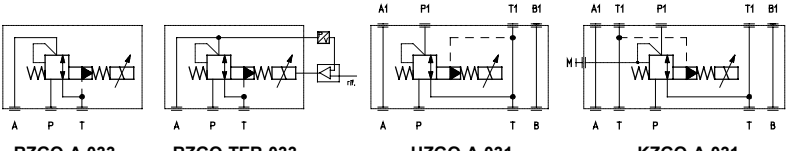
Features:

- the regulated pressure will be maintained (respectively in P or in A) when the pressure on the use port overcomes the regulated value, by discharging the flow to port T;
 - minimum regulated pressure = 0 bar;
 - mounting surface: ISO/Cetop 03, 05.
- Max flow: 100 l/min.
 Max pressure: 315 bar.

1 MODEL CODE

RZ	GO	A - 033 / 315 / * / **	/*
<p>RZ = subplate (Cetop 03) HZ = modular (Cetop 03) KZ = modular (Cetop 05)</p>			<p>Synthetic fluids: /WG = water-glycol /PE = phosphate ester</p>
<p>GO = pressure reducing</p>			<p>Design number</p>
<p>A = for open or closed loop control TER = with integral pressure transducer and electronics (only for RZGO) See note 3 at section [3]</p>			<p>Options: only for versions -A: 6 = with 6 V_{DC} coil instead of standard 12 V_{DC} coil 18 = with 18 V_{DC} coil instead of standard 12 V_{DC} coil only for versions -TER: I = current reference signal 4 ± 20 mA M = monitor output</p>
<p>Regulation: 031 = regulation on port P1, pressure from P, discharge in T (only for HZGO, KZGO) 033 = regulation on port A, pressure from P, discharge in T (only for RZGO) See section [2] for configuration</p>			<p>Max regulated pressure: 100 = 100 bar 210 = 210 bar 315 = 315 bar</p>

2 HYDRAULIC CHARACTERISTICS (1)(2) – see notes at section [3]

Hydraulic symbols										
Valve model	RZGO-A, HZGO-A			RZGO-TER (3)			KZGO-A			
Max. regulated pressure (Q = 10 l/min) [bar]	100	210	315	100	210	315	100	210	315	
Min. regulated pressure (Q = 10 l/min) [bar]	0 or actual value at T port									
Max. pressure at ports P, T (4) [bar]	315, 210									
Minimum flow [l/min]	2,5			2,5			3			
Maximum flow [l/min]	40			40			100			
Response time 0 ÷ 100% signal variation* [ms]	≤ 50			≤ 35			≤ 80			
Hysteresis [% of the max regulated pressure]	≤ 2			≤ 0,5			≤ 2			
Linearity [% of the max regulated pressure]	≤ 3			≤ 1			≤ 3			
Repeatability [% of the max regulated pressure]	≤ 2			≤ 0,5			≤ 2			

* depending on installation

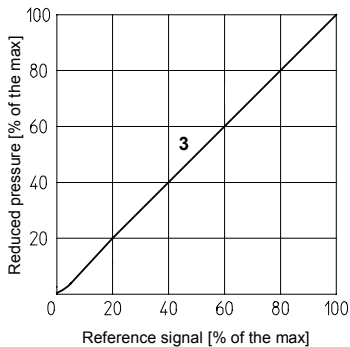
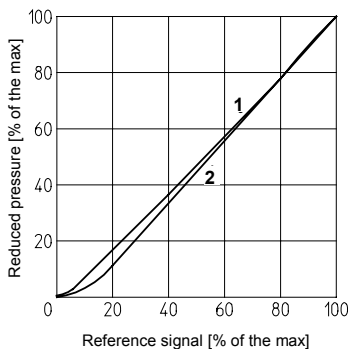
3 NOTES

- 1) Typical characteristics in table [2] refer to valves coupled with Atos electronic drivers and operation with ISO VG-36 mineral oil at 50°C.
- 2) For the main characteristics, for the electronic drivers and for installation and start-up notes see table F007.
- 3) The integral closed loop control of -TER valves is affected by the stiffness of the hydraulic circuit; the greater the stiffness of the circuit, the better the performances. Please contact our technical office in case of circuits with accumulators and/or with great fluid volumes and/or with long hoses.
- 4) Setting the regulation value of the ZGO-A valves, take into account the counter pressure at port T, which can alter the effective pressure value compared with the set value.
- 5) The recommended torque values for the fixing screws of *ZGO valves are 8 Nm (Cetop 03) and 13 Nm (Cetop 05). See also table E001.

4 DIAGRAMS

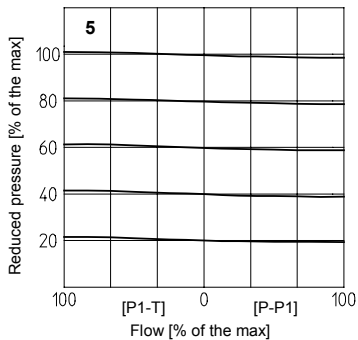
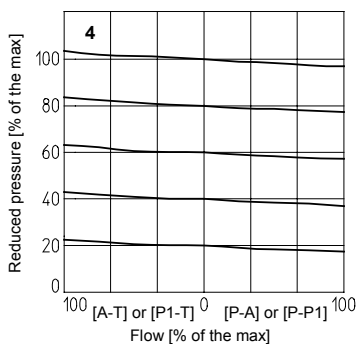
4.1 Regulation diagrams
with flow rate Q = 10 l/min.

- 1 = RZGO-A; HZGO-A
 2 = KZGO-A
 3 = RZGO-TER



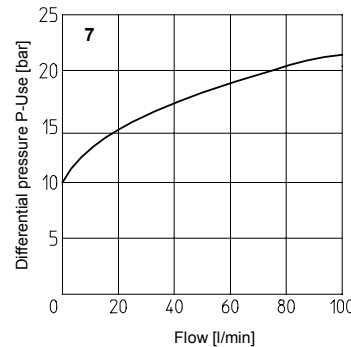
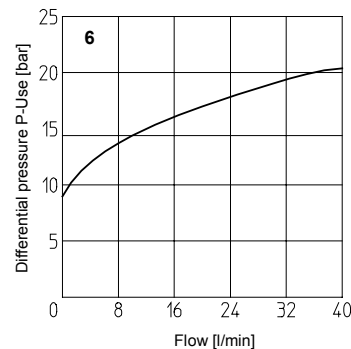
4.2 Pressure/flow diagrams

- 4 = RZGO-A, HZGO-A, KZGO-A
 5 = RZGO-TER



4.3 Pressure drop/flow diagrams

- 6 = RZGO-A, HZGO-A, RZGO-TER
 7 = KZGO-A



5 INSTALLATION DIMENSIONS [mm]

<p>RZGO-A</p> <p>Mass: 2,7 Kg</p>	<p>RZGO-TER</p> <p>Mass: 2,9 Kg</p>
<p>HZGO-A</p> <p>Mass: 3,8 Kg</p>	<p>KZGO-A</p> <p>Mass: 4,4 Kg</p>