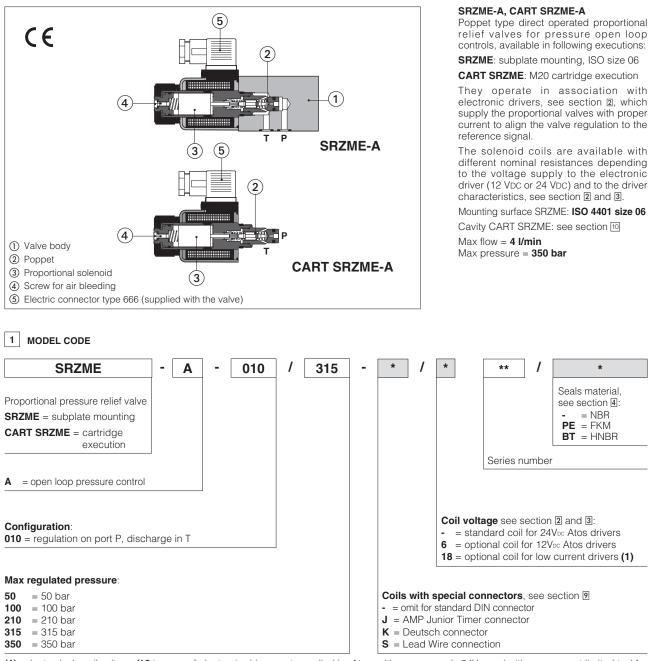
atos 🛆

Proportional relief valves

direct operated, ISO 4401 size 06 subplate mounting or M20 screw-in cartridge execution



(1) select valve's coil voltage /18 in case of electronic drivers not supplied by Atos, with power supply 24V_{ICC} and with max current limited to 1A.

2 ELECTRONIC DRIVERS - see www.atos.com or KTI industrial master catalog

| Drivers model | E-MI-AC (1) | | E-MI-AS-IR (1) | | E-BM-AS-PS | | E-BM-AES |
|----------------------|----------------------------------|-----|----------------|-----|----------------|-----|----------|
| Туре | analog | | digital | | digital | | digital |
| Voltage supply (VDC) | 12 | 24 | 12 | 24 | 12 | 24 | 24 |
| Valve coil option | /6 | std | /6 | std | /6 | std | std |
| Format | DIN 43650 plug-in to solenoid | | | | DIN-rail panel | | |
| Data sheet | G010 | | G020 | | GO | 30 | GS050 |

(1) for CART SRZME the electronic driver may interfere with the manifold surface. Please check the installation dimensions at section 🔟

| Hydraulic symbols | SRZME-A CART SRZME-A | | | |
|--|---|---|---|--|
| Assembly position / location | Any position | | | |
| Subplate surface finishing (SRZME) | Roughness index Ra 0,4 - flatness ratio 0,01/100 (ISO 1101) | | | |
| MTTFd values according to EN ISO 13849 | 150 years, for further details see technical table P007 | | | |
| Ambient temperature range | Standard and /PE = $-20^{\circ}C \div +70^{\circ}C$; /BT option = $-40^{\circ}C \div +60^{\circ}C$ | | | |
| Storage temperature range | Standard and /PE = -20° C ÷ $+80^{\circ}$ C; /BT option = -40° C ÷ $+70^{\circ}$ C | | | |
| Coil code | Standard standard coil to be used with Atos drivers with power supply 24Vpc | option /6 optional coil to be used with Atos drivers with power supply 12 Vpc | option /18 optional coil to be used with elec- tronic drivers not supplied by Atos, with power supply 24 Vbc and max current limited to 1A | |
| Coil resistance R at 20°C | 3,1 Ω | 2,1 Ω | 13,1 Ω | |
| Max. solenoid current | 2,5 A | 3 A | 1,2 A | |
| Max. power | 30 Watt | | | |
| Protection degree (CEI EN-60529) | IP 65 (with connectors 666 correctly assembled) | | | |
| Duty factor | Continuous rating (ED=100%) | | | |

| Max regulated pres | sure [bar] | 50 | 100 | 210 | 315 | 350 | |
|---|-------------------------|---|-----|-----|-----|-----|--|
| Min. regulated pres | sure [bar] | see min. pressure / flow diagrams at sect. 17 | | | 1 | | |
| Max. pressure at po | ort P [bar] | 350 | | | | | |
| Max. pressure at po | ort T [bar] | 210 | | | | | |
| Max. flow | [l/min] | 4 | | | | | |
| Response time 0-10 (depending on insta | i o ti Imel | ≤70 | | | | | |
| Hysteresis [% of the max pressure] | | ≤ 1,5 | | | | | |
| Linearity | [% of the max pressure] | | ≤3 | | | | |
| Repeatability | [% of the max pressure] | | ≤2 | | | | |

Notes: above performance data refer to valves coupled with Atos electronic drivers, see section 2.

(1) Average response time values; the pressure variation in consequence of a modification of the reference input signal to the valve is affected by the stiffness of the hydraulic circuit: greater is the stiffness of the circuit, faster is the dynamic response.

4 SEALS AND HYDRAULIC FLUID - for other fluids not included in below table, consult our technical office

| Seals, recommended fluid temperature | | NBR seals (standard) = $-20^{\circ}C \div +80^{\circ}C$, with HFC hydraulic fluids = $-20^{\circ}C \div +50^{\circ}C$ FKM seals (/PE option) = $-20^{\circ}C \div +80^{\circ}C$ HNBR seals (/BT option) = $-40^{\circ}C \div +60^{\circ}C$, with HFC hydraulic fluids = $-40^{\circ}C \div +50^{\circ}C$ | | | | |
|--------------------------------------|-------------|--|----------------------------|-----------------------------|--|--|
| Recommended viscosity | | 20 ÷ 100 mm²/s - max allowed range 15 ÷ 380 mm²/s | | | | |
| Max fluid normal operation | | ISO4406 class 18/16/13 NAS1638 class 7 | | see also filter section at | | |
| contamination level | longer life | ISO4406 class 16/14/11 NAS1638 class 5 | | www.atos.com or KTF catalog | | |
| Hydraulic fluid | | Suitable seals type | Classification | Ref. Standard | | |
| Mineral oils | | NBR, FKM, HNBR | HL, HLP, HLPD, HVLP, HVLPD | DIN 51524 | | |
| Flame resistant without water | | FKM | HFDU, HFDR | - ISO 12922 | | |
| Flame resistant with water | | NBR, HNBR | HFC | | | |

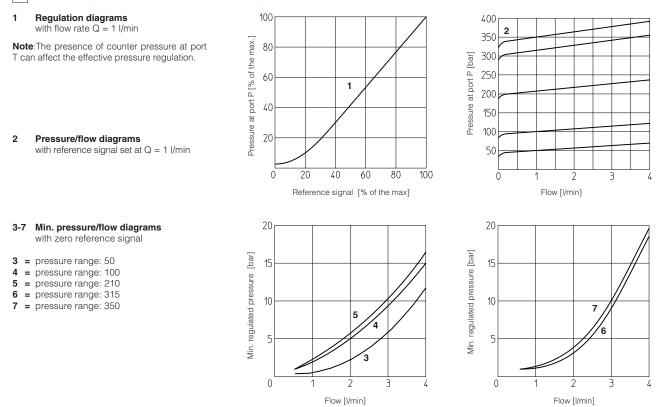
5 GENERAL NOTES

SRZME-A and CART SRZME proportional valves are CE marked according to the applicable Directives (e.g. Immunity/Emission EMC Directive and Low Voltage Directive).

6 SOLENOID CONNECTIONS

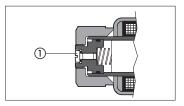
| SO | SOLENOID POWER SUPPLY CONNECTOR TYPE 666 | | | | | |
|-----|--|--|--|--|--|--|
| PIN | Signal description | | | | | |
| 1 | SUPPLY | | | | | |
| 2 | SUPPLY | | | | | |
| 3 | GND | | | | | |

7 DIAGRAMS (based on mineral oil ISO VG 46 at 50 °C)

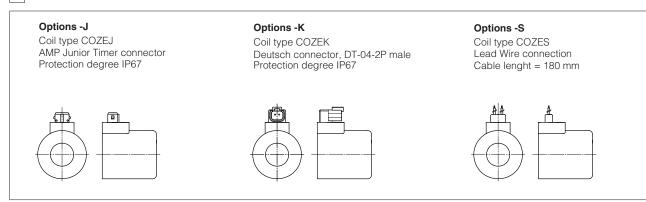


8 AIR BLEEDING

At the first valve commissioning the air eventually trapped inside the solenoid must be bled-off through the screw ① located at the rear side of the solenoid housing. The presence of air may cause pressure instability and vibrations.



9 COILS TYPE WITH SPECIAL CONNECTORS



10 INSTALLATION DIMENSIONS [mm]

