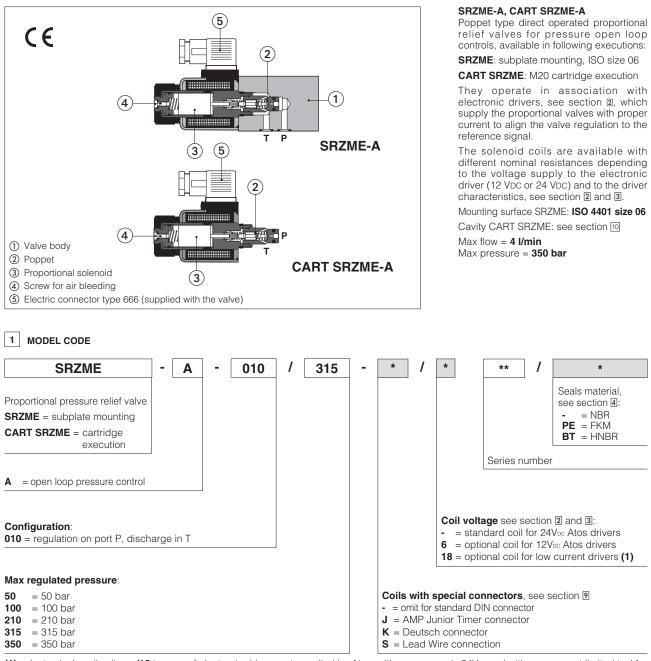
atos 🛆

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			

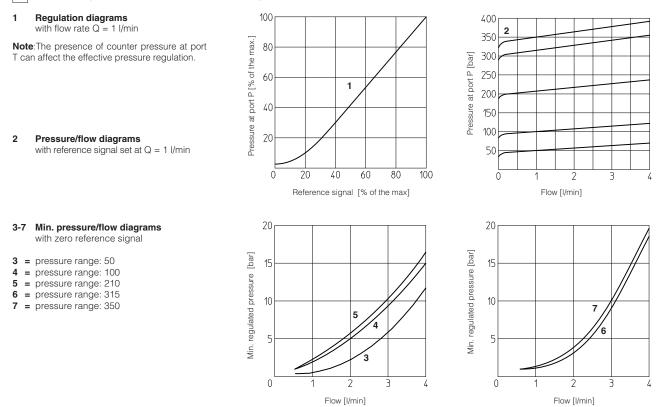
5 GENERAL NOTES

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

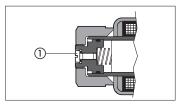
SO	SOLENOID POWER SUPPLY CONNECTOR TYPE 666					
PIN	Signal description					
1	SUPPLY					
2	SUPPLY					
3	GND					

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

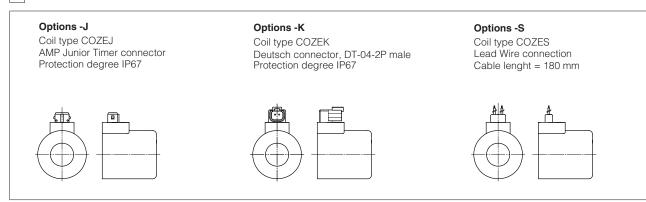


8 AIR BLEEDING

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]

