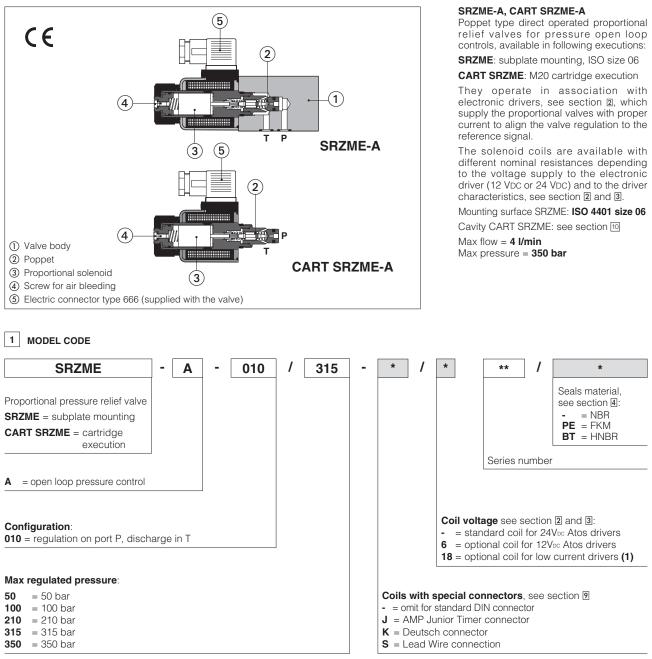


Proportional relief valves

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 24V₀₀ and with max current limited to 1A.

2 ELECTRONIC DRIVERS - catalog on-line, section "electronics" or KT master paper 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	GC	G010 G020		GC	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 KT 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 = $-20^{\circ}C \div +80^{\circ}C$; /BT option = $-40^{\circ}C \div +70^{\circ}C$		
Coil code	Standard standard coil to be used with Atos drivers with power supply 24Vbc	option /6 optional coil to be used with Atos drivers with power supply 12 Vbc	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 ÷ 3,3 Ω	2 ÷ 2,2 Ω	13 ÷ 13,4 Ω
Max. solenoid current	2,2 A 2,75 A		1 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 press	ure [bar]	50	100	210	315	350
Min. regulated press	ure [bar]	see min. pressure / flow diagrams at sect. 🛛				
Max. pressure at por	rt P [bar]			350		
Max. pressure at por	rt T [bar]	210				
Max. flow	[l/min]	4				
Response time 0-100% step signal (1) (depending on installation) [ms]		≤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 KTF		
contamination level	longer life	ISO4406 class 16/14/11 NAS1638 class 5		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			

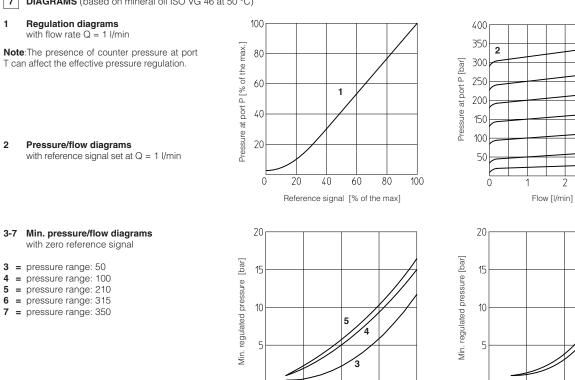
5 GENERAL NOTES

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

	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)





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.

0

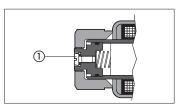
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4

2

Flow [l/min]

0



3

7

2

Flow [l/min]

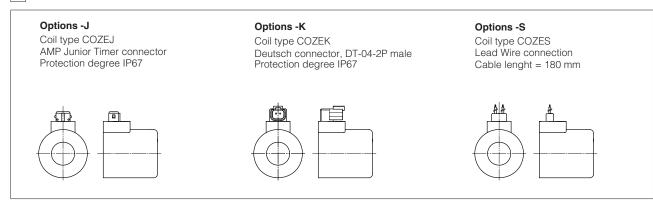
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3

4

1.

9 COILS TYPE WITH SPECIAL CONNECTORS



10 INSTALLATION DIMENSIONS [mm]

