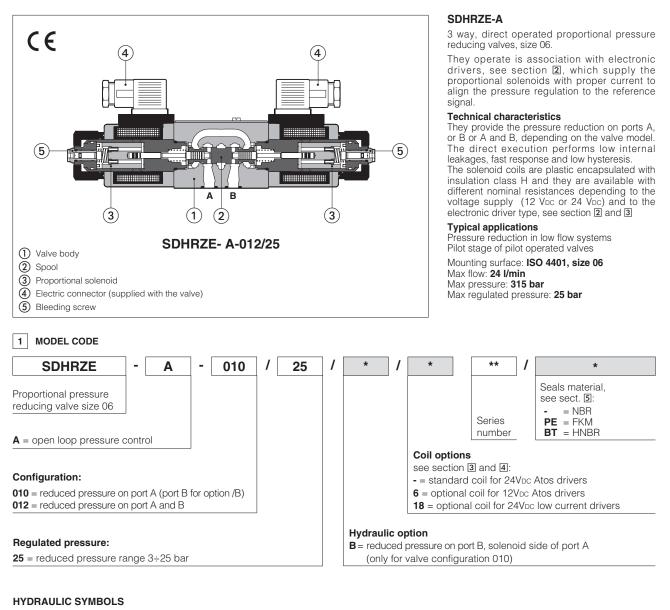
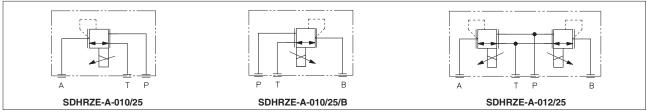


Proportional pressure reducing valves type SDHRZE

direct operated, ISO 4401 size 06





2 ELECTRONIC DRIVERS - see www.-, catalog on line, section "electronics" or KT master paper catalog

Drivers model	E-MI-AC		E-MI-AS-IR		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		GC)30	GS050

3 COIL OPTIONS

Coil voltage

Option /6	optional coil to be used with Atos drivers with power supply 12 VDc
Option /18	optional coil to be used with electronic drivers not supplied by Atos

4 MAIN CHARACTERISTICS - based on mineral oil ISO VG 46 at 50 °C

Assembly position / location	Any position			
Subplate surface finishing (RZME)	Roughness index Ra 0,4 - flatness ratio 0,01/100 (ISO 1101)			
MTTFd valves according to EN ISO 13849	150 years, see technical table P007			
Ambient temperature	Standard and /PE option = -20°C ÷ +70°C; /BT option = -40°C ÷ +60°C			
Storage temperature	Standard and /PE option = -20° C $\div +80^{\circ}$ C; /BT option = -40° 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 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 ÷ 3,3 Ω	2 ÷ 2,2 Ω	13 ÷ 13,4 Ω	
Max. solenoid current	2,2 A	2,75 A	1,2 A	
Max. power	30 Watt			
Protection degree (CEI EN-60529)	IP65			
Duty factor	Continuous rating (ED=100%)			

Max regulated pressure (Q=1 l/min)	[bar]	25
Min. regulated pressure (Q=1 I/min)	(1) [bar]	3
Max. pressure at port P	[bar]	315
Max. pressure at port T	[bar]	210
Max. flow	[l/min]	24
Response time 0-100% step signal (depending on installation)	(2) [ms]	≤ 45
Hysteresis [% of the max]	oressure]	≤ 1,5
Linearity [% of the max p	oressure]	≤3
Repeatability [% of the max]	oressure]	≤2

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

(1) Min pressure value to be increased of T line pressure

(2) Average response time value; 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

5 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 r	ange 15 ÷ 380 mm²/s		
Max fluid	normal operation	N ISO4406 class 18/16/13 NAS1638 class 7		see also filter section at www or KTF catalog	
contamination level	longer life	ISO4406 class 16/14/11 NAS1638 class 5			
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		

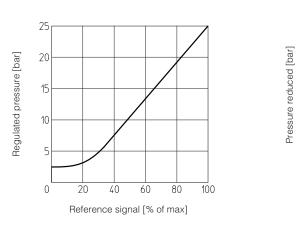
6 GENERAL NOTES

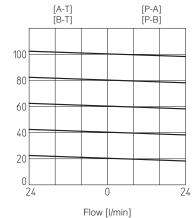
DHRZE proportional valves are CE marked according to the applicable Directives (e.g. Immunity/Emission EMC Directive and Low Voltage Directive).

7 CONNECTIONS

SOLENOID POWER SUPPLY CONNECTOR				
PIN	Signal description			
1	SUPPLY			
2	SUPPLY			
3	GND			

8 DIAGRAMS based on mineral oil ISO VG 46 at 50°C





9 INSTALLATION DIMENSIONS FOR SDHRZE [mm]

