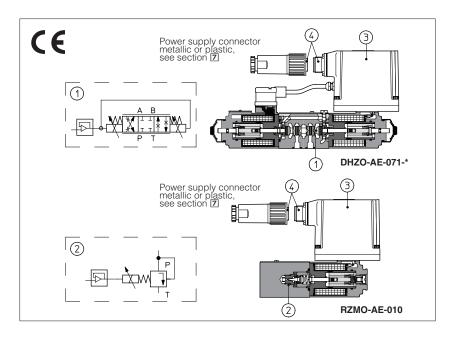
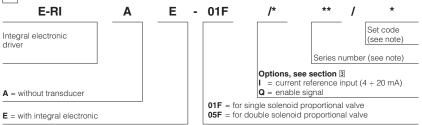


Integral electronic drivers type E-RI-AE

analog, for proportional valves without transducer



1 MODEL CODE: PROPORTIONAL VALVES WITH INTEGRAL DRIVERS



Note: the set code identifies the corrispondance between the integral driver and the relevant valve

These drivers are integral to Atos proportional valves without pressure or position transducer, and they control the current to the solenoid, regulating the spool position ①, the flow or the pressure ② according to the electronic reference signal.

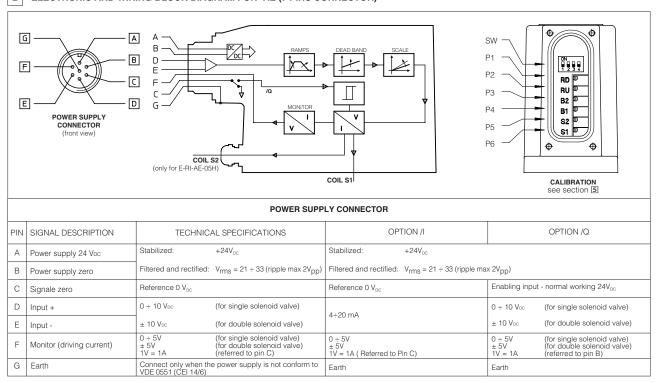
Features:

- integral electronics (3), factory preset
- potentiometer adjustment of bias, scale and ramps
- dissymmetrical up and down ramps
- internal selectors for dither frequency adjustement
- 7 pins connector (4) arranged to receive the power supply, the reference signal (input) and to supply the monitor of the regulated current (output)
- IP67 protection degree
- 3,3A maximum current to the coils
- CE marking grants the conformity to the EMC Directive (Electromagnetic Compatibility).

Applications:

Integrated solution for open loop valves.

2 ELECTRONIC AND WIRING BLOCK DIAGRAM FOR -AE (7 PINS CONNECTOR)



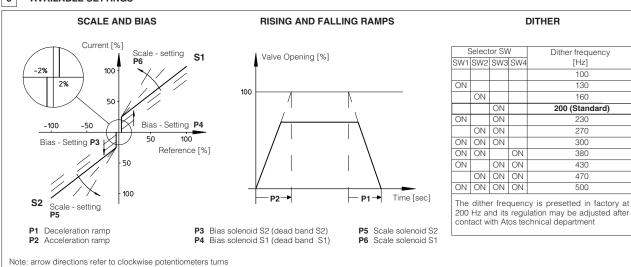
3 OPTIONS

- 3.1 Option /I It provides the 4÷20 mA current reference signal and the current feedback signals instead of the standard 0÷10 V (± 10V). It is normally used in case of long distance between the machine control unit and the valve or where the reference signal can be affected by electrical noise. In case of breakage of the reference signal cable, the valve functioning is disabled.
- 3.2 Option /Q Safety option providing the possibility to enable or disable the valve functioning without cutting the power supply.

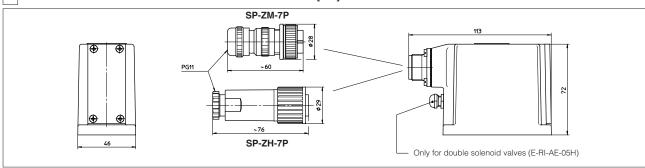
4 MAIN CHARACTERISTICS OF E-RI-AE ELECTRONIC DRIVERS

Driver section		
Format	Sealed box on the valve - Protection: IP67 DIN 40050 - Insulation: VDE0110	
Electromagnetic compatibility (EMC)	Emission: EN 50081-2 - Immunity: EN 50082-2	
Max power consumption	50 W	
Current supplied to solenoids	Imax= 3.3 A square wave PWM type	
Input signal impedance	Voltage signal Ri > 10 K Ω (option /I Ri = 316 Ω)	
Operating temperature	-20°C ÷ +60°C (storage -20° ÷ +70°C)	
Features	Rapid solenoid excitation and switching off Output to solenoids protected against accidental short circuits	
Notes	For installation and set-up refer to the table "Installation of proportional valves ZO-A" enclosed with the product	

5 AVAILABLE SETTINGS



6 DIMENSIONS OF THE ELECTRONIC DRIVER AND CONNECTORS [mm]



7 CHARACTERISTICS OF POWER SUPPLY CONNECTORS (to be ordered separately)

CONNECTOR TYPE	POWER SUPPLY CONNECTOR		
CODE	SP-ZH-7P	SP-ZM-7P	
TYPE	Female straight circular socket plug 7 pins		
MATERIAL	Plastic reinforced with fiber glass	Aluminium alloy with cadmium plating	
CABLE GLAND	PG11		
CABLE	LiYCY 7 x 0.75 mm ² - max 20m		
CABLE	7 x 1 mm² - max 40m		
CONNECTION TYPE	to solder		
STANDARD	DIN 43563-BF6-3-PG11	According to MIL-C-5015 G	
PROTECTION (DIN 40050)	IP 67	IP 66	