REMSRA... TYPE ELECTRONIC REGULATORS FOR SINGLE SOLENOID PROPORTIONAL CONTROL VALVES



REMSRA...

CALIBRATION PROCEDURE	CAP. IX • 5
OVERALL DIMENSIONS	CAP. IX • 10
MOUNTING BASES	CAP. IX • 10

The electronic control card type REM.S.RA has been designed to drive the "XD.*.A, XDP.3.A, XP.3, XQ.3, XQP.*. and CXQ.3" series single solenoid proportional valves without integral position transducer. The control card is enclosed in an "OCTAL" type housing, a typical relay mounting standard. The output stage operates on the pulse width modulation principle (P.W.M.) and is provided with current feedback in order to obtain a solenoid output current proportional to the reference input signal. Output short circuit and supply polarity inversion protection is provided.

Gain, minimum current and rise and fall ramp time adjustments are possible through the corresponding front panel trimming potentiometers, while the output current to the solenoid can be measured via the Valve Current test points, and the ramp operation can be excluded.

The product incorporates a serial interface for adjustment of parameters.

Pay attention please: electronic regulators must be used in dampness and water protected places.

Manuals and software
The user and installation manual, the manual for variants DJ/JU and the software DG are available on "products" section of www.brevinifluidpower.com website.

ORDERING CODE

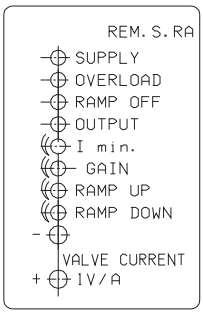
REM	Miniaturized electronic regulator in Octal type container
S	Single solenoid
RA	Asymmetrical ramp
*	Maximum output current $I_{MAX.}$ (JU variant) **X** = 0.88 A (0.80 A) **Y** = 1.76 A (1.20 A) **Z** = 2.8 A
*	Input reference (V) see note (*) below **2** = 0÷ + 2 V **5** = 0÷ + 5 V **0** = 0÷ + 10 V **A** = 0 ÷ 20 mA
*	Frequency Dither **1** = 100 Hz (standard, JU var.) **2** = 330 Hz (for XP.3)
*	Minimum initial current **G** = step (normally for XD.*. and XDP.3 valves) **C** = continuous (normally for XP.3, XQ.3, XQP.*. and CXQ.3 valves)
**	**00** = No variant
4	Serial No.

(*) If the input reference is a current signal (mA) the regulator has to be pre-setted in the factory.

CE mark with reference to the electromagnetic compatibility.

European norms:
- EN61000-6-2 Generic standards. Immunity for industrial environments;
- EN61000-6-3 Generic standards. Emission standard for residential, commercial and light-industrial environments.

Product in accordance with **RoHS** 2011/65/UE Europe Directive.



ADJUSTMENT PANEL

Supply	10VDC ÷ 30VDC (green led)
Overload	Protection against overload (red led)
Ramp off	Ramp off (red led)
Output	Output (current at solenoid, yellow led)
I. min.	Minimum current adjustment
Gain	Gain adjustment
Ramp up	Rump up adjustment time
Ramp down	Rump down adjustment time
Valve Current	Current test point at solenoid (1V =1A)

If any field is missing from the ordering code the standard setting is as follows:

- Input ref. = 0÷5V
- Dither 100Hz
- $I_{min.}$ = continuous
- $I_{max.}$ = 0.8A

ELECTRICAL CIRCUIT AND CONNECTIONS

Sup (2-7)	Power supply
Out (1-4)	Output for external potentiometer
Ref(3)	Reference
SO (5-6)	Output at solenoid
DR (8)	Ramp off (contact closed = exclusion)
Pot	External reference potentiometer (2 ÷ 5 KΩ)
CS	Feedback current
PWM	Pulse width modulate wave

