

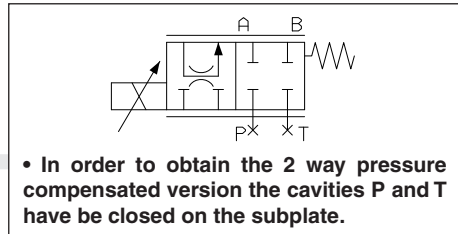
# XQP.5. OPEN LOOP 2/3 WAY PROPORTIONAL PRESSURE COMPENSATED FLOW REGULATORS CETOP 5

The open loop proportional flow regulator is 2 and 3 way compensated with priority function. It is designed to regulate flow in proportion to an applied electrical current (REM power amplifier). Flow regulation is load independent - B port. Load compensation is achieved by a spool compensator which holds the pressure drop constant across the proportional spool.

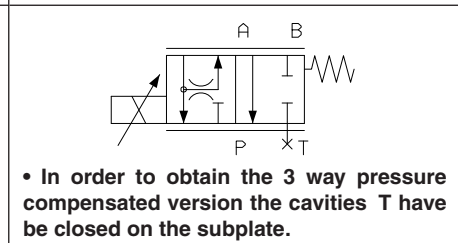
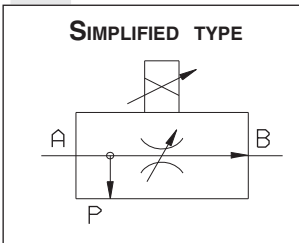
Valves are available in the following versions (see hydraulic symbol):

- 2 way pressure compensated
- 3 way pressure compensated with priority function.
- 3 way pressure compensated with priority and venting function.

<b>XQP.5...</b>	
STANDARD CONNECTORS	CH. I PAGE 19
"D19P" PROPORT. SOLENOIDS	CH. VIII PAGE 23
REM.S.RA...	CH. IX PAGE 4



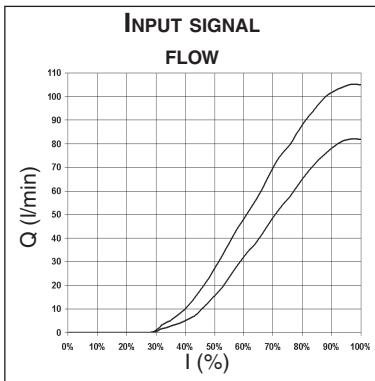
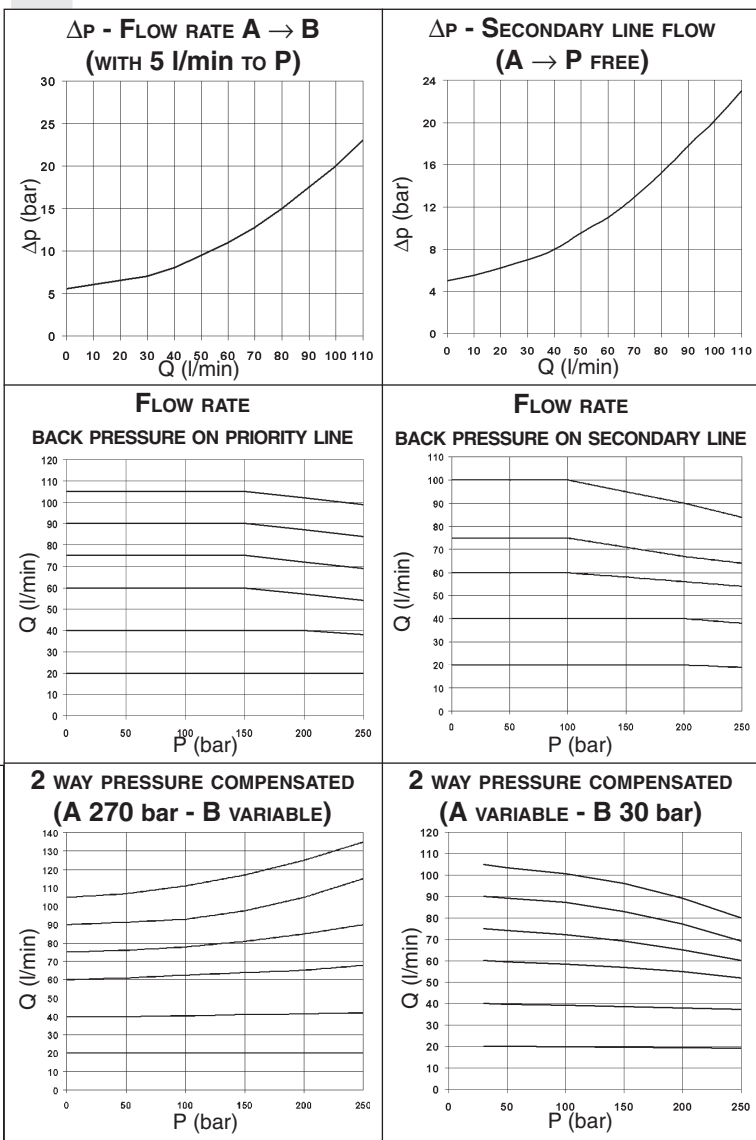
### SYMBOLS HYDRAULIC



### ORDERING CODE

<b>XQP</b>	Open loop 2/3 way proportional compensated flow regulator
<b>5</b>	CETOP 5/NG10
<b>C</b>	2/3 way compensation with priority function
<b>3</b>	3 way version (standard) For to obtain 2-way version the P line must be closed on the subplate
*	Nominal flow rates <b>E</b> = 45 l/min <b>F</b> = 75 l/min <b>G</b> = 105 l/min
*	<b>S</b> = without decompression <b>D</b> = with decompression
*	Voltage <b>F</b> = 12V DC <b>G</b> = 24V DC
**	Variant (*): <b>S1</b> = No variant (without connectors) <b>SV</b> = Viton <b>P2</b> = Rotary emergency
<b>1</b>	Serial No.

### DIAGRAMS



(\* All variants are considered without connectors. The connectors must be order separately. See Ch. I Page 19

The fluid used is a mineral based oil with a viscosity of 46 mm<sup>2</sup>/s at 40°C. The tests have been carried out at with a fluid of a 40°C.

# XQP.5. OPEN LOOP 2/3 WAY PROPORTIONAL PRESSURE COMPENSATED FLOW REGULATORS CETOP 5



## OPERATING SPECIFICATIONS

Max. operating pressure ports A/B / P (*)	250 bar	
Regulated flow rate	75 / 105 l/min	
Decompression drain flow	max 0,7 l/min	
Relative duty cycle	Continuous 100% ED	
Type of protection (in relation to the connector used)	IP 65	
Flow rate gain	See diagram "Input signal flow"	
Fluid viscosity	10 ÷ 500 mm <sup>2</sup> /s	
Fluid temperature	-20°C ÷ 75°C	
Ambient temperature	-20°C ÷ 60°C	
Max. contamination level	from class 7 to 9 in accordance with NAS 1638 with filter $\beta_{10} \geq 75$	
Weight	4,97 Kg	

Type of voltage	<b>12V</b>	<b>24V</b>
Max. current	2.5 A	1.25 A
Solenoid coil resistance at 20°C (68°F)	2.85 Ohm	11.4 Ohm
Hysteresis with $\Delta p$ 7 bar	<5%	<8%
Response to step $\Delta p = 7$ bar (P/A)		
0 ÷ 100%	~ 65 ms	-
100% ÷ 0	~ 30 ms	-
Frequency response -3db (Input signal 50% ± 25% Vmax.)	7Hz	-

## AMPLIFIER UNIT AND CONTROL

### REM.S.RA.\*...\*

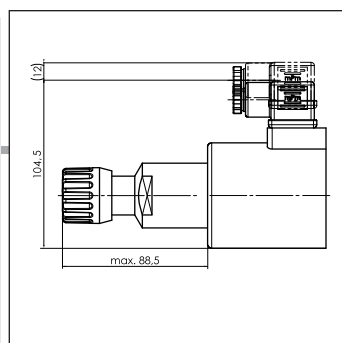
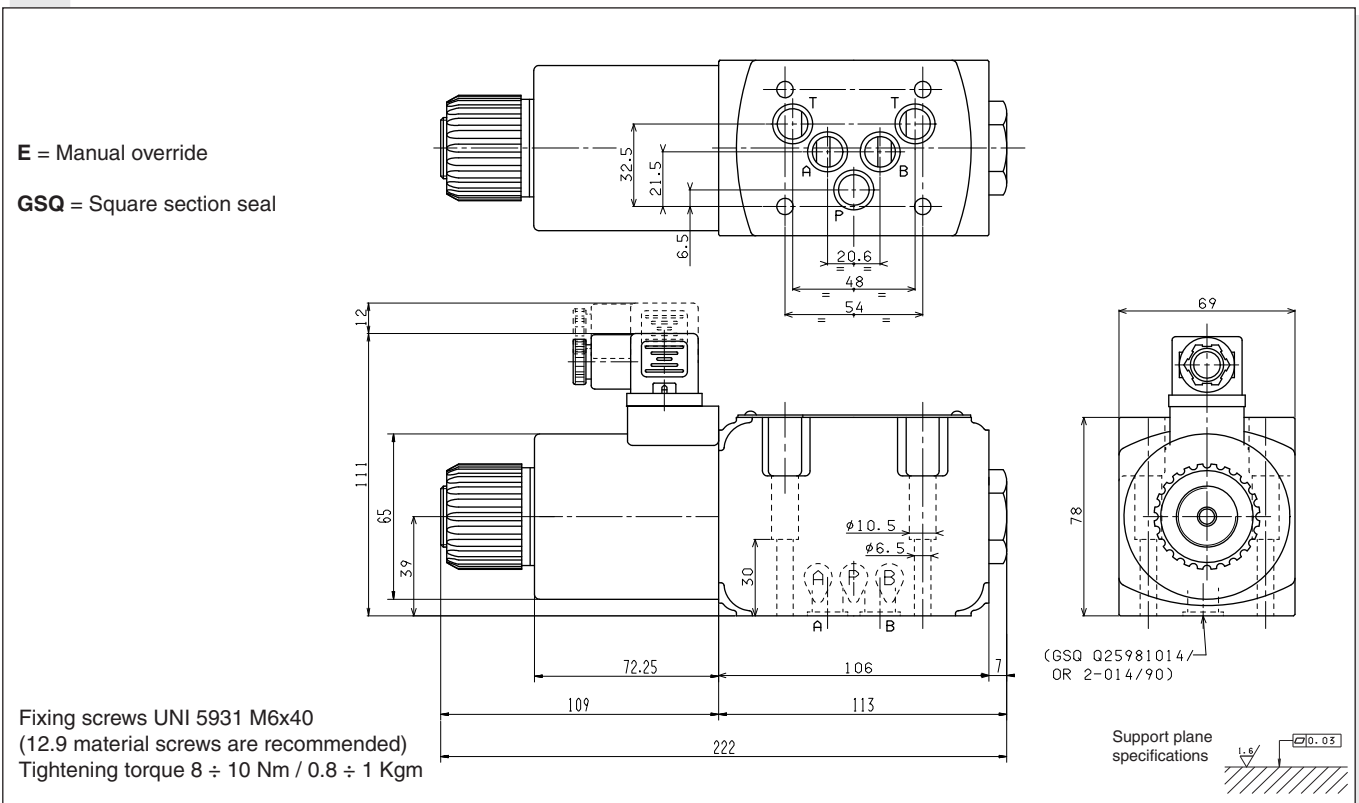
Electronic regulator for control single proportional solenoid valve

(\*) Pressure dynamic allowed for 2 millions of cycles. T ports closed on the subplate.

Operating specifications are valid for fluids with 46 mm<sup>2</sup>/s viscosity at 40°C, using specified ARON electronic control units.

Performance data are carried out using the specified Aron power amplifier type REM.S.RA... power supplied at 24V.

## OVERALL DIMENSIONS



## "D19P"

### PROPORTIONAL SOLENOIDS



Type of protection (in relation to connector used)	IP 65
Ambient temperature	-54°C ÷ 60°C
Duty cycle	100% ED
Insulation class wire	H
Weight	1,58 Kg

ETD19P - 01/2002/e