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STANDARD CONNECTORS	Ch. I PAGE 20	
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#### **ORDERING CODE**

XQP Open loop 2/3 way proportional compensated flow regulator

CETOP 5/NG10 5

C 2/3 way compensation with priority function

3 3 way version (standard) For to obtain 2-way version the P line must be closed on the subplate

\* Nominal flow rates

**E** = 45 l/min

 $\mathbf{F} = 75 \text{ l/min}$ 

**G** = 105 l/min

**S** = without decompression

**D** = with decompression

Voltage

**F** = 12V DC

**G** = 24V DC

Variant (\*):

**S1** = No variant (without connectors)

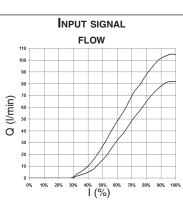
SV = Viton

P2 = Rotary emergency

Serial No.

#### (\*) All variants are considered without connectors. The connectors must be order separately. See Ch. I Page 20

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# P (bar) 150 2 WAY PRESSURE COMPENSATED (A 270 bar - B VARIABLE) 0 (//min/) 0 50 40

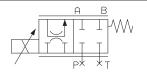
## PRESSURE COMPENSATED FLOW REGULATORS CETOP 5 ## brevini

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.

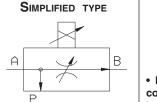
Valves are available in the following versions (see hydraulic symbol):

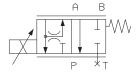
XQP5 OPEN LOOP 2/3 WAY PROPORTIONAL

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



· In order to obtain the 2 way pressure compensated version the cavities P and T have be closed on the subplate.





· In order to obtain the 3 way pressure compensated version the cavities T have be closed on the subplate.

#### **D**IAGRAMS

25

20

(bar)

d<sub>10</sub>

110

100

70

60

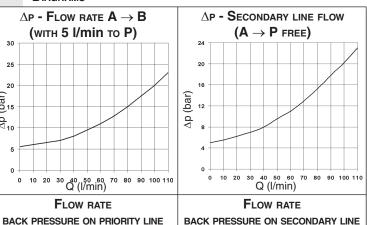
50

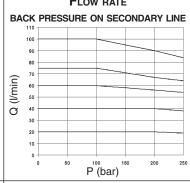
(I/min)

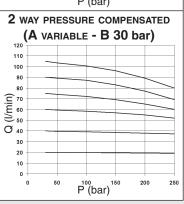
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**S**YMBOLS

**HYDRAULIC** 







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.

#### **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 wit	h filter ß₁₀≥75		
Weight		4,97 Kg		
Type of voltage	12V	24V		
Max. current	2.5 A	1.25 A		
Solenoid coil resistance at 20°C (68°F)	2.85 Ohm	11.4 Ohm		
Hysteresis with ∆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	-		

#### **A**MPLIFIER UNIT AND CONTROL

#### REMSRA.\*.\*...

Electronic regulator for control single proportional solenoid valve.

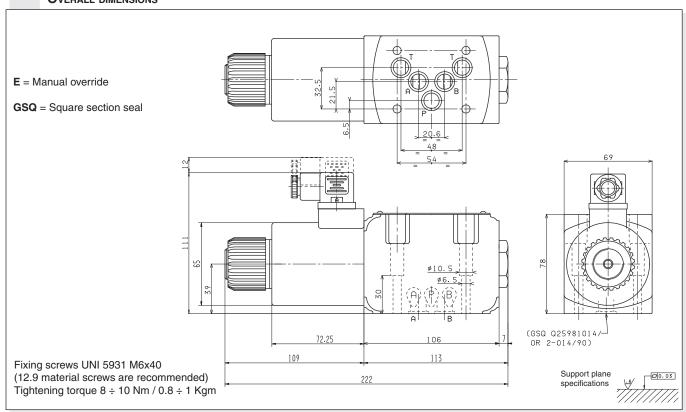
Recommended dither frequency 100 Hz.

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

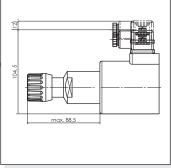
Operating specifications are valid for fluids with 46 mm<sup>2</sup>/s viscosity at 40°C, using specified ARON electronic control units.

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 -54°C ÷ 60°C Ambient temperature Duty cycle 100% ED Insulation class wire Н Weight 1,58 Kg ETD19P - 01/2002/e

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