

XQP3			
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ORDERING CODE

XQP

Open loop 2/3 way proportional compensated flow regulator

3

CETOP 3/NG6

С

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

 $\mathbf{F} = 6 \text{ l/min}$

G = 12 l/min

H = 22 l/minI = 32 I/min

L = 40 l/min

S = without decompression

D = with decompression

Max. current to solenoid

E = 2.35 A

F = 1.76 A

G = 0.88 A

Variant (*):

S1 = No variant

P2 = Rotary emergency

(uju/) 25

O 15

R5 = Rotary emergency 180°

INPUT SIGNAL

FLOW

SV = Viton

Serial No.

2

(*) All variants are considered

without connectors. The connectors must be order separately.

See Ch. I Page 20

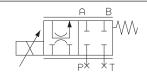
XQP3... OPEN LOOP 2/3 WAY PROPORTIONAL PRESSURE COMPENSATED FLOW REGULATORS



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 or SE3AN 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):

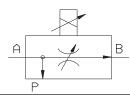
- 2 way pressure compensated - 3 way pressure compensated with priority function. - 3 way pressure compensated with priority and venting function.

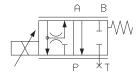


• In order to obtain the 2 way pressure compensated version the cavities P and T have be closed on the subplate.

HYDRAULIC SYMBOLS

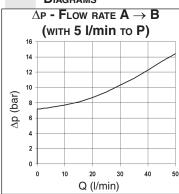
SIMPLIFIED TYPE

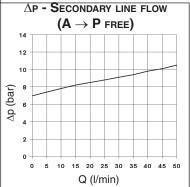




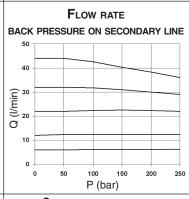
 In order to obtain the 3 way pressure compensated version the cavity T have be closed on the subplate.

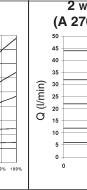
DIAGRAMS

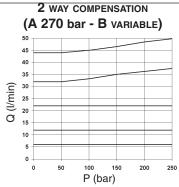


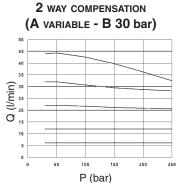


FLOW RATE **BACK PRESSURE ON PRIORITY LINE** 45 40 35 (I/min) 25 20 Ø 15 10 100 150 P (bar)









The fluid used is a mineral based oil with a viscosity of 46 mm²/s at 40°C. The tests have been carried out at with a fluid of a 40°C.

OPERATING SPECIFICATIONS

Max. operat. pressure ports A/B /P see note (*) With T port blocked on subplate 250 bar Regulated flow rate 6 / 12 / 22 / 32 / 40 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)

Flow rate gain
Fluid viscosity
Fluid temperature
Ambient temperature

Max. contamination level

Continuous 100% ED IP 65 See diagram "Input signal flow" $10 \div 500 \text{ mm}^2\text{/s} \\ -20^\circ\text{C} \div 75^\circ\text{C}$

from class 7 to 9 in accordance with NAS 1638 with filter $\rm B_{10}{\ge}75$

-20°C ÷ 70°C

Weight			1,̈7 Kg
Max. current	2.33A	1.76 A	0.88 A
Solenoid coil resistance at 25°C (77°F)	2.25 Ohm	4.0 Ohm	16.0 Ohm
Hysteresis with ∆p 7 bar	≤5%	<5%	<8%
Response to step $\Delta p = 7$ bar			
0 ÷ 100%	32 ms	40 ms	85 ms
100% ÷ 0	33 ms	33 ms	33 ms
Frequency response -3db (Input signal 50% ± 25% Vmax.)			
	22Hz	22Hz	12Hz

(*) Pressure dynamic allowed for 2 millions of cycles

Operating specifications are valid for fluids with 46 mm 2 /s viscosity at 40 $^\circ$ C, using specified ARON electronic control units.

Performance data are carried out using the specified Aron power amplifier SE.3.AN... powered to 24V.

AMPLIFIER UNIT AND CONTROL

REMSRA.*.*...

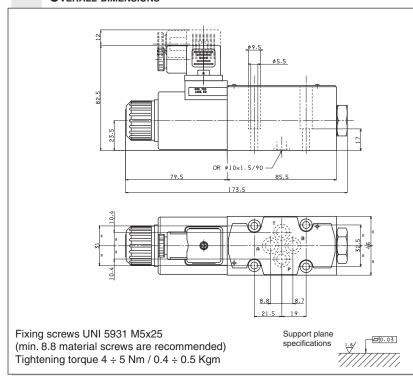
Electronic card for control single proportional solenoid valve.

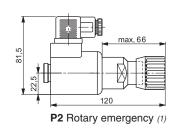
Recommended dither frequency 100 Hz.

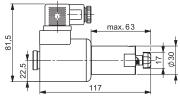
SE3AN2100...

Electronic card format EUROCARD for control single proportional solenoid valve

OVERALL DIMENSIONS





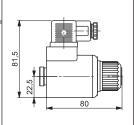


R5 Rotary emergency 180° (2)

- (1) **P2** Adjustable hand emergency.
- (2) **R5** Two positions hand emergency. The regulated flow with emergency actuated can be less than nominal value.

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"D15P" Proportional solenoids

Type of protection (in relation to connector used)	IP 66
Duty cycle	100% ED
Insulation class wire	н
Weight (coil)	0,354 Kg
Weight (solenoid)	0,608 Kg
	FTN15P _ N1/2NN2/o