

XQP.3		
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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/min

I = 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

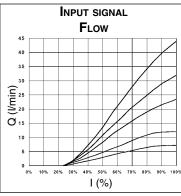
R5 = Rotary emergency 180°

SV = Viton

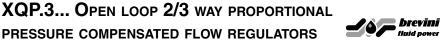
2

Serial No.

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



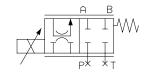
(A 270 bar - B VARIABLE) 35 (I/min) 30 25 20 10 P (bar)



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.

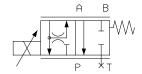


• In order to obtain the 2 way pressure compensated version the cavities P and T have be closed on the subplate.

HYDRAULIC SYMBOLS

PRESSURE COMPENSATED FLOW REGULATORS

SIMPLIFIED TYPE В



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

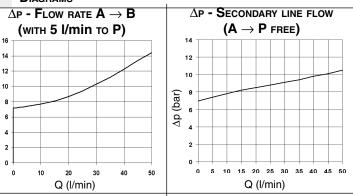
DIAGRAMS

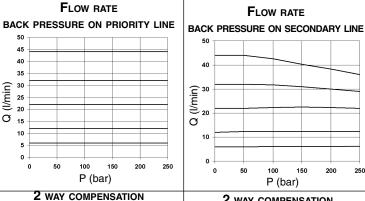
(bar)

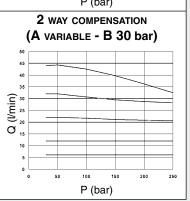
ф

(I/min)

Ø







250

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.

brevini

XQP.3... OPEN LOOP 2/3 WAY PROPORTIONAL

PRESSURE COMPENSATED FLOW REGULATORS



OPERATING SPECIFICATIONS

Waight

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

See diagram "Input signal flow"

10 ÷ 500 mm²/s

-20°C ÷ 75°C

-20°C ÷ 70°C

Max. contamination level from class 7 to 9 in accordance with NAS 1638 with filter β_{10} $\!>$ 75

vvcigitt			1,7 119
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

REM.S.RA.*.*...

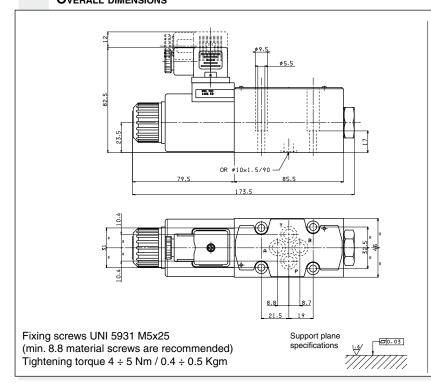
Electronic card for control single proportional solenoid valve.

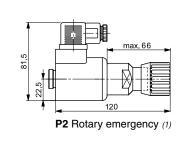
Recommended dither frequency 100 Hz.

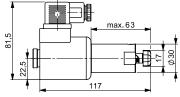
SE.3.AN.21.00...

Electronic card format EUROCARD for control single proportional solenoid valve

OVERALL DIMENSIONS



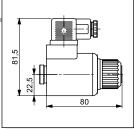




R5 Rotary emergency 180° (2)

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





"D15P" Proportional solenoids

