

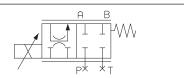
XQP3	
STANDARD CONNECTORS	Cap. I • 20
"D15P" PROPORT. SOLENOIDS	CAP. VIII • 20
REMSRA	CAP. IX • 4
BC06XQP3	Cap. VII • 13

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

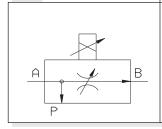
The open loop proportional flow regulator is 2 and 3 way compensated with priority function. It is designed to regulate flow in proportion to an applied electrical current (REM or SE3AN power amplifier). Flow regulation is load independent - B port. Load compensation is achieved by a spool compensator which holds the pressure drop constant across the proportional spool.

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

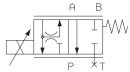
- 2 way pressure compensated 3 way pressure compensated with priority function.
- 3 way pressure compensated with priority and venting function.



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



HYDRAULIC SYMBOLS



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

ORDERING CODE

XQP

3

C

3

Open loop 2/3 way proportional compensated flow regulator

CETOP 3/NG6

2/3 way compensation with priority function

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

Variants (*):

S1 = No variant

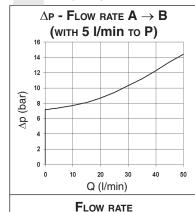
P2 = Rotary emergency

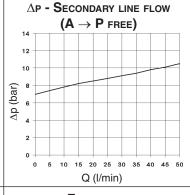
R5 = Rotary emergency 180°

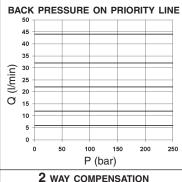
SV = Viton

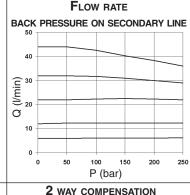
2 Serial No.

DIAGRAMS

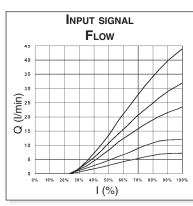


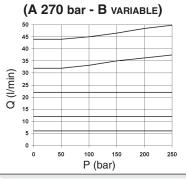


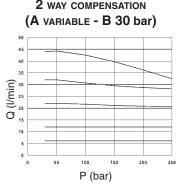




(*) All variants are considered without connectors. The connectors must be order separately. See Cap. I • 20.







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.



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

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

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

-20°C \div 70°C from class 7 to 9 in accordance with NAS 1638 with filter β_{10} >75 1,7 Kg

Weight Max. current 0.88 A 2.33A 1.76 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 33 ms $100\% \div 0$ 33 ms 33 ms Frequency response -3db (Input signal 50% \pm 25% Vmax.) 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 electronic control units.

Performance data are carried out using the specified power amplifier SE3AN... powered to 24V.

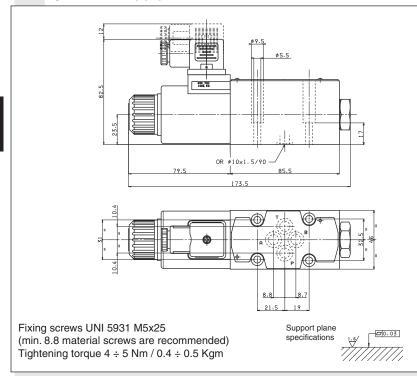
AMPLIFIER UNIT AND CONTROL

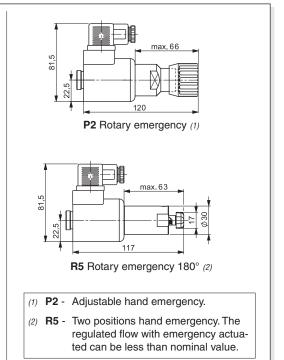
REMSRA**...

Electronic card for control single proportional solenoid valve.

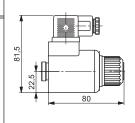
Recommended dither frequency 100 Hz.

OVERALL DIMENSIONS









"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