



XQP.3... 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.

XQP.3...

STANDARD CONNECTORS	CH. I PAGE 19
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BC.06.XQP3...	CH. VII PAGE 13

ORDERING CODE

XQP

Open loop 2/3 way proportional compensated flow regulator

3

CETOP 3/NG6

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

F = 6 l/min

G = 12 l/min

H = 22 l/min

I = 32 l/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

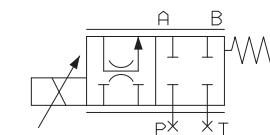
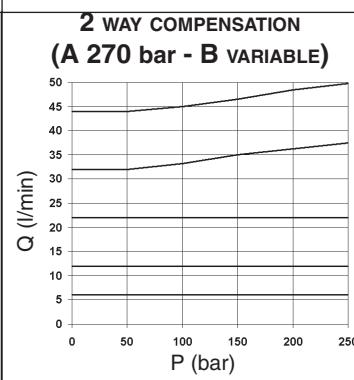
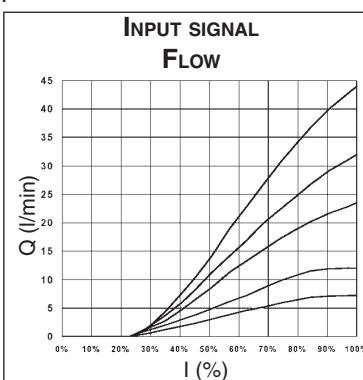
R5 = Rotary emergency 180°

SV = Viton

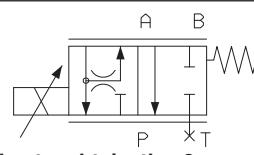
2

Serial No.

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



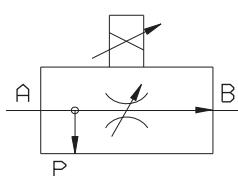
- In order to obtain the 2 way pressure compensated version the cavities P and T have be closed on the subplate.



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

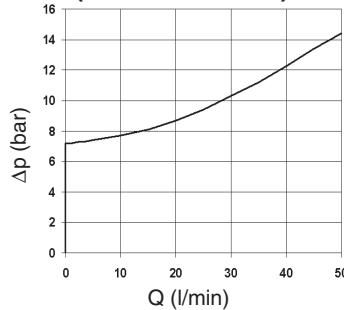
HYDRAULIC SYMBOLS

SIMPLIFIED TYPE

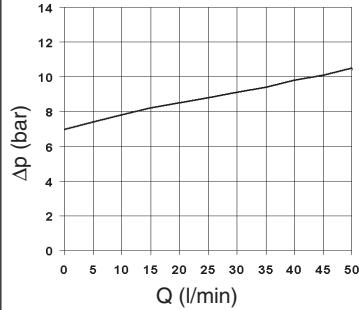


DIAGRAMS

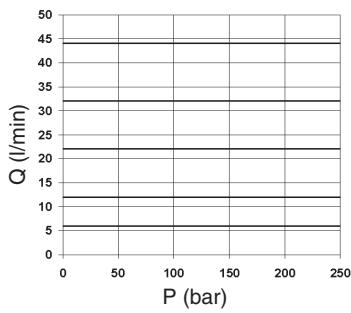
ΔP - FLOW RATE A → B (WITH 5 l/min TO P)



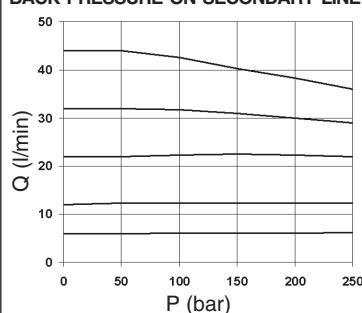
ΔP - SECONDARY LINE FLOW (A → P FREE)



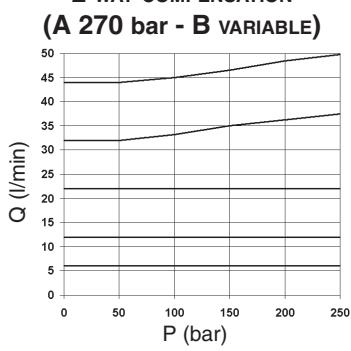
FLOW RATE BACK PRESSURE ON PRIORITY LINE



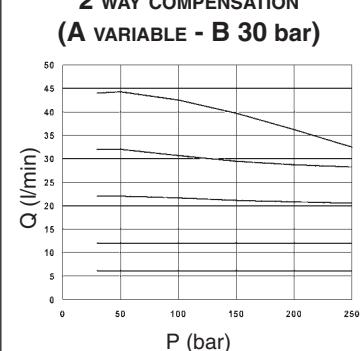
FLOW RATE BACK PRESSURE ON SECONDARY LINE



2 WAY COMPENSATION (A 270 bar - B VARIABLE)



2 WAY COMPENSATION (A VARIABLE - B 30 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.

