

XQP.3		
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XQP.3... OPEN LOOP 2/3 WAY PROPORTIONAL PRESSURE aran **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 O**RDERING CODE B SIMPLIFIED TYPE TAW XQP Open loop 2/3 way proportional compensated flow regulator ×т В Ρ Â • In order to obtain the 3 way pressure compensated version the cavity T have be CETOP 3/NG6 3 P closed on the subplate. С 2/3 way compensation with priority function DIAGRAMS ΔP - Flow rate $A \rightarrow B$ ΔP - Secondary line flow 3 3 way version (standard) (with 5 l/min to P) $(A \rightarrow P FREE)$ For to obtain 2-way version the P line must be closed on the subplate 14 12 12 * Nominal flow rates 10 10 $\mathbf{F} = 6 \, \text{l/min}$ (bar) (bar) 8 $G = 12 \, \text{l/min}$ 6 6 H = 22 l/min ₽ ₽ I = 32 I/min2 2 L = 40 l/min ٥ 0 10 15 20 25 30 35 40 45 50 20 30 40 50 n 5 0 S = without decompression Q (I/min) Q (l/min) **D** = with decompression FLOW BATE FLOW BATE BACK PRESSURE ON SECONDARY LINE Max. current to solenoid BACK PRESSURE ON PRIORITY LINE 50 E = 2.35 A 50 45 **F** = 1.76 A 40 40 **G** = 0.88 A 35 (I/min) 30 (l/min) ** 00 = No variant 25 20 **P1** = Rotary emergency 20 Ø Ø 15 P5 = Rotary emergency 180° 10 10 V1 = Viton 0 0 100 150 100 2 Serial No. 0 50 200 250 50 150 200 250 P (bar) P (bar) INPUT SIGNAL 2 WAY COMPENSATION **2** WAY COMPENSATION FLOW (A 270 bar - B VARIABLE) (A VARIABLE - B 30 bar) 43 50 41 45 45 35 40 40 35 30 35 (uim/l) 20 (I/min) 30 (uim/l) 20 25 20 20 Ø 15 Ø Ø 15 16 10 10 5 50 100 150 200 250

> 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.

70% 80%

I (%)

10%

20%

0

50

100 P (bar) 250

150

200

P (bar)

OPERATING SPECIFICATIONS

Max. operat. pressure ports A/B /P see no Regulated flow rate Decompression drain flow Relative duty cycle Type of protection (in relation to the conne Flow rate gain Fluid viscosity Fluid temperature Ambient temperature Max. contamination lavel	te (*) With T port ctor used) Se	blocked on subp 6 / 12 / 22 / r Continuc ee diagram "Inpu 10 	blate 250 bar 32 / 40 l/min max 0,7 l/min bus 100% ED IP 65 it signal flow" ÷ 500 mm²/s •20°C ÷ 75°C •20°C ÷ 70°C
Max. contamination level	wit	th NAS 1638 with	h filtor $R > 75$
Weight	VVI		1,7 Kg
Max. current Solenoid coil resistance at 25°C (77°F) Hysteresis with Δp 7 bar Response to step Δp = 7 bar 0 ÷ 100% 100% ÷ 0 Frequency response -3db (Input signal 50°	2.33A 2.25 Ohm ≤5% 32 ms 33 ms % ± 25% Vmax.) 22Hz	1.76 A 4.0 Ohm <5% 40 ms 33 ms 22Hz	0.88 A 16.0 Ohm <8% 85 ms 33 ms 12Hz
(*) Pressure dynamic allowed for 2 millions of cycles			
Operating specifications are valid for fluids with 46 mm ² /s viscosity at 40°C, using specified ARON electronic control units.			

Performance data are carried out using the specified Aron power amplifier SE.3.AN...

AMPLIFIER UNIT AND CONTROL

REM.S.RA.*.*.. Electronic card for control single proportional solenoid valve

SE.3.AN.21.00...

Electronic card format EUROCARD for control single proportional solenoid valve

OVERALL DIMENSIONS

Tightening torque 4 ÷ 5 Nm / 0.4 ÷ 0.5 Kgm



P1 Rotary emergency



Support plane



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