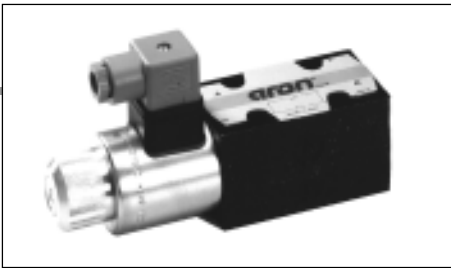


XQP.3... OPEN LOOP 2/3 WAY PROPORTIONAL PRESSURE COMPENSATED FLOW REGULATORS



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 symbols):

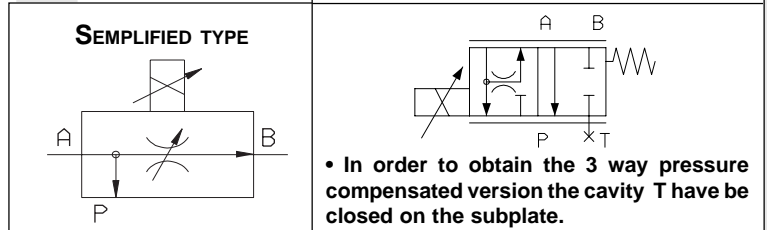
- 2 way pressure compensated - 3 way pressure compensated with priority function.
- 3 way pressure compensated with priority and venting function.

XQP.3...	
PROPORTIONAL SOLENOID	CH. VIII PAGE 15
REM.S.RA...	CH. IX PAGE 2
SE.3.AN209...	CH. IX PAGE 7
BC.06.XQP3...	CH. VII PAGE 13

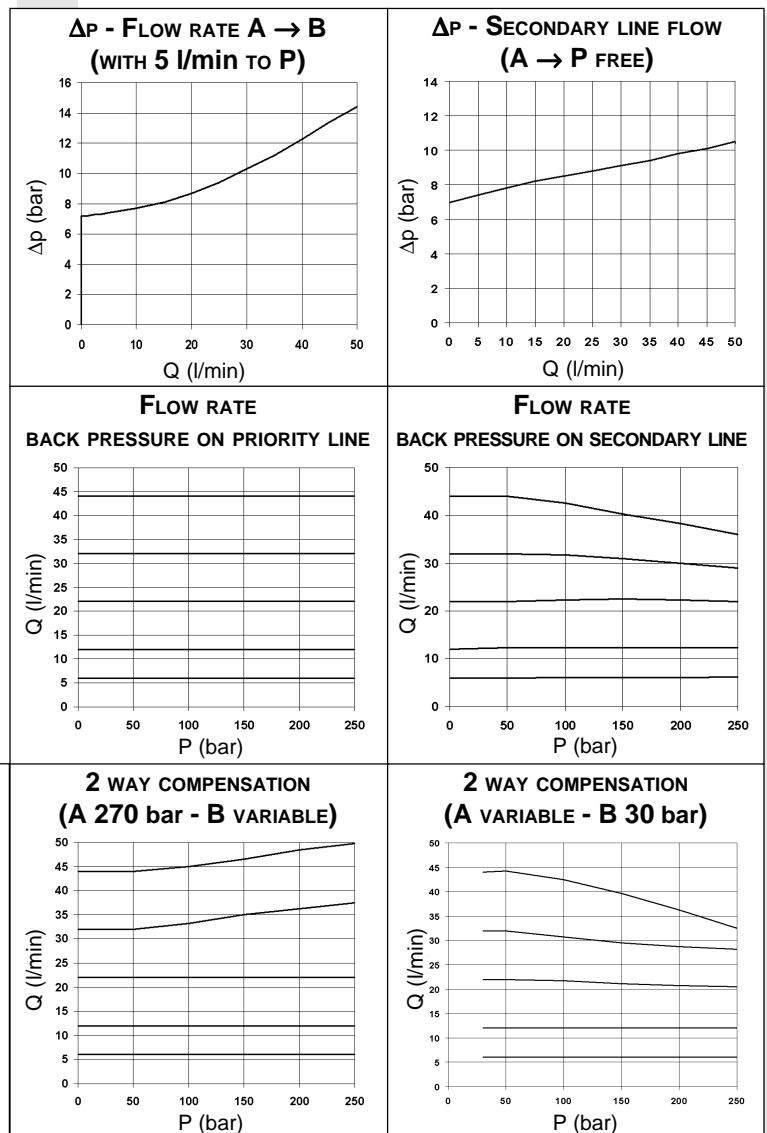
ORDERING CODE

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 = 44 l/min
*	S = without decompression D = with decompression
*	Voltages E = 9V DC F = 12V DC G = 24V DC
**	00 = No variant V1 = Viton
1	Serial No.

HYDRAULIC SYMBOLS



DIAGRAMS



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.

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

OPERATING SPECIFICATIONS

Max. operating pressure ports A/B /P (with T port blocked on subplate)	250 bar		
Regulated flow rate	6 / 12 / 22 / 32 / 44 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)	IP 65		
Flow rate gain	See diagram "Input signal flow"		
Fluid viscosity	10 ÷ 500 mm ² /s		
Fluid temperature	-20°C ÷ 75°C		
Ambient temperature	-20°C ÷ 70°C		
Max. contamination level	from class 7 to 9 in accordance with NAS 1638 with filter $\beta_{10} \geq 75$		
Weight	1,7 Kg		

Type of voltages	9V	12V	24V
Max. current	2.33A	1.76 A	0.88 A
Solenoid coil resistance at 20°C (68°F)	2.7 Ohm	4.8 Ohm	18.4 Ohm
Solenoid coil resistance when hot	4.13 Ohm	7.34 Ohm	28.1 Ohm
Hysteresis with $\Delta p = 7$ bar	~ 5%	<5%	<8%
Response to step $\Delta p = 7$ bar (P/A)			
0 ÷ 100%	~ 30 ms	~ 36 ms	~ 60ms
100% ÷ 0	~ 26 ms	~ 26 ms	~ 26 ms
Frequency response -3db (Input signal 50% ± 25% Vmax.)	28Hz	28Hz	13Hz

Operating specifications are valid for fluids with 46 mm²/s viscosity at 40°C, using specified ARON electronic control units.

Performance data are carried out using the specified Aron power amplifier SE.3.AN209

AMPLIFIER UNIT AND CONTROL

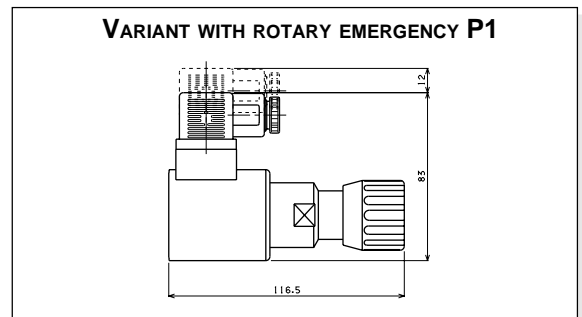
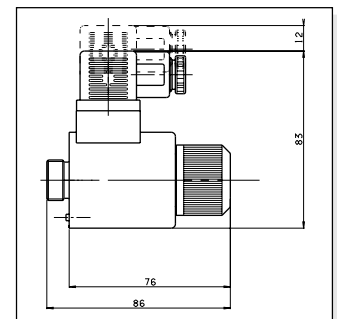
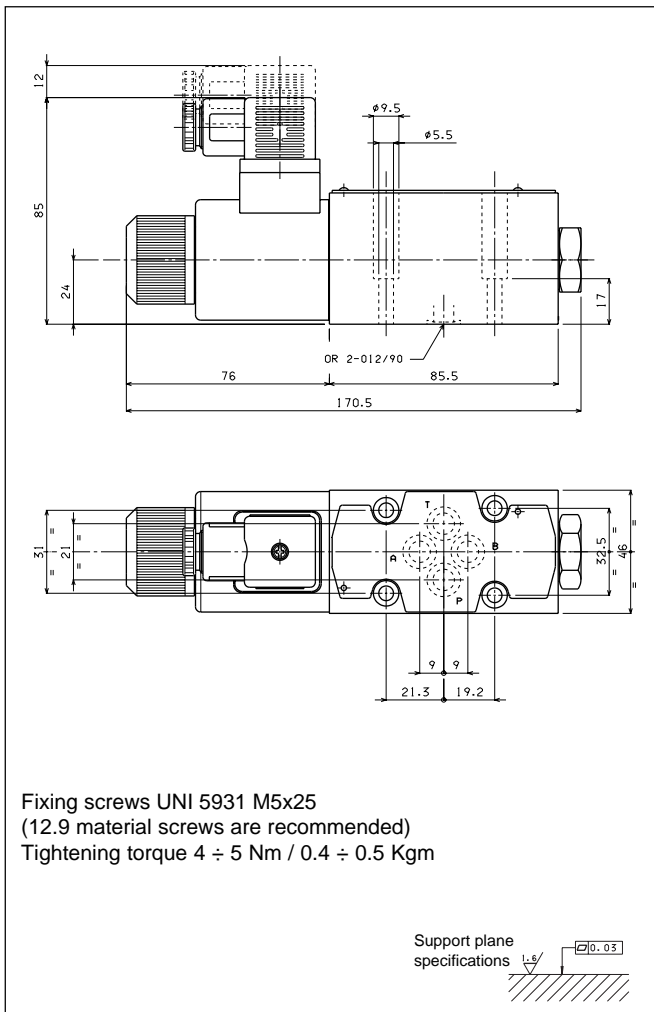
REM.S.RA.*.*...

electronic card for control single proportional solenoid valve

SE.3.AN.209.16...

electronic card format EUROCARD for control single proportional solenoid valve

PROPORZIONAL SOLENOID



Type of protection (in relation to connector used)	IP 65
Duty of cycle	100% ED
Max. static pressure	210 bar
Insulation class	H
Weight	0,6 Kg

File: ETM83140001

00/2000/e

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