

XQ.3				
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BC.3.08 / BC.3.09				
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Proportional flow control valve

M = With manual pressure limiter **S** = Without manual pressure limiter

Omit for XQ.3.C.*.S version

S = Without rotary emergency

E = With rotary emergency (type **P1**)

Pressure compensation

ORDERING CODE

No. of way

Flow rates $\mathbf{F} = 5 \text{ l/min}$ $\mathbf{G} = 10 \text{ l/min}$ $\mathbf{H} = 16 \text{ l/min}$

I = 28 l/min

Setting ranges $1 = 8 \div 50$ bar

2 = 25 ÷ 170 bar **3** = 50 ÷ 315 bar

E = 9VDC (2,35 A) **F** = 12VDC (1.76 A) **G** = 24VDC (0.88 A)

00 = No variant
L5 = emergency lever
P5 = Rotary emergency180°

V1 = Viton

Serial No.

Voltage

CETOP 3/NG6

XQ

3

С

3

*

*

*

**

2

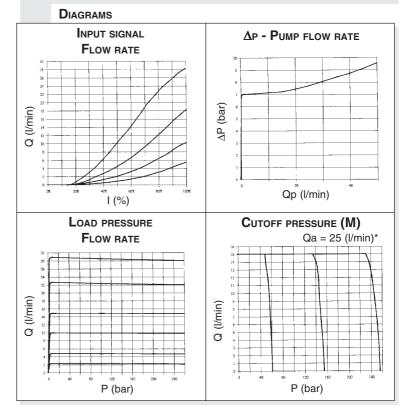
XQ.3... PROPORTIONAL FLOW CONTROL VALVES PRESSURE COMPENSATED CETOP 3

This is a proportional valve where both the flow rate and pressure control flow functions have been integrated according to the 3 way regulation concept.

The interface UNI ISO 4401 - 03 - 02 - 0 - 94 standard (ex CETOP R 35 H 4.2-4-03) allows for direct mounting on modular block or multiple sub-bases, which makes possible many advantageous and extremely compact application solution as a consequence of their simplicity of installation.

The 3 way type pressure compensator, inserted into the valve, holds the pressure drop across the flow rate proportional regulator constant (approx. 8 bar) independently from the controlled load variations, whereby ensuring proportional between the set flow rate and the electrical command signal.

Additionally, the system maximum safety pressure can be regulated through a manual command. This valve, if mounted on the feed line to the manifold block, can be used to control several circuits which are not operating at the same time.



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.

(*) Tested with 25 l/min supply

(nan°

TABLE 1 - FLOW / PRESSURE SPECIFICATIONS

Model Hydraulic symbol	Max flow rate (I/min)	Max flow in P (I/min)	Max limiter pressure (bar)	Max load pressure (bar)	∆p ^{Control} (bar)
XQ.3.C.3.*.M	5 10 16 28	40	8÷50 25÷170 50÷315	250	8
XQ.3.C.3.*.S	5 10 16 28	40		250	8

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File: EXQ3002

Max. operat. pressure ports A/B / With P port blocked on s		315 bar	ELECTRONIC CONTROL UNIT
Max. operating pressure ports T - for dynamic pressure se Regulated flow rate	e note (*) See diagram p	250 bar bage before	REM.S.RA.*.*.
Relative duty cycle	Continuou	s 100% ED	Card type control for single solenoid
Гуре of protection Flow rate gain		class IP 65 e diagrams	SE.3.AN.21.00 EUROCARD type control for single solenoid
Hysteresis with connection P/A/B/T $\Delta p = 5$ bar (P/A)		x. flow rate 500 mm ² /s	
Fluid viscosity Fluid temperature		0°C ÷ 75°C	
Max. contamination level	class 8 in acco NAS 1638 with		
Weight version XQ.3.C.*.M	INAS 1030 WIII	2,89 Kg	
Weight version XQ.3.C.*.S		2,39 Kg	
Type of voltage 9V Max. current 2.35A		24V 0.88 A	 Operating specifications are valid for fluid with 46 mm²/s viscosity at 40°C, using the
Solenoid coil resistance at 25°C (77°F) 2.25 Ohm		16.0 Ohm	specified ARON electronic control units
(*) Pressure dynamic allowed for 2 millions of cycles.			
	a 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1	X03. C3. 1	P B T A P B T A P B T A P B T A P
OVERALL DIMENSIONS			
			124,5 L5 Emergency lever
	34		max.66

OR 2-012/90 80 70 35 189 OR 2-012/90 8.8 8.7 5(S) ⊚ œ Ó \bigcirc €

Rotary emergency version XQ.3.C.*.*.E ∃∦ ÷ max.63 81,5

81,5

22,5

22,5

t

max. 66

120

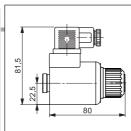
117 P5 Rotary emergency 180°



Fixing screws UNI 5931 M5x80

(min. 8.8 material screws are recommended) Tightening torque $4 \div 5$ Nm / 0.4 \div 0.5 Kgm

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"D15P" PROPORTIONAL SOLENOIDS	
Type of protection (in relation to connector used)	IP 66
Duty cycle	100% ED

IP 66 100% ED Н 0,354 Kg 0,608 Kg ETD15P - 01/2002/e

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Support plane specification

Insulation class

Weight (coil) Weight (solenoid)

20.03