

XQ.3				
PROPORTIONAL SOLENOID D15PCH. VIII PAGE 13				
REM.S.RA	CH. IX PAGE 2			
SE.3.AN209	CH. IX PAGE 7			
BC.3.08 / BC.3.09				
BC.06.XQ3	CH.VII PAGE 13			

Proportional flow control valve

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

Pressure compensation

**ORDERING CODE** 

No. of way

Flow rates  $\mathbf{F} = 5 \text{ l/min}$   $\mathbf{G} = 10 \text{ l/min}$  $\mathbf{H} = 17 \text{ l/min}$ 

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 **V1** = Viton

Serial No.

Voltages

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

**S** = Without rotary emergency

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

CETOP 3/NG6

XQ

3

С

3

\*

\*

\*

\*

\*\*

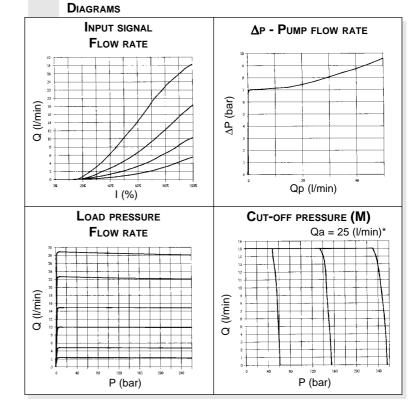
2

## 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 ISO 4401 standard 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  $46 \text{ mm}^2/\text{s}$  at  $40^\circ\text{C}$ . The tests have been carried out at with a fluid of a  $40^\circ\text{C}$ .

(\*) Tested with 25 l/min supply

(nd)

## 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 <sup>Control</sup> (bar)
XQ.3.C.3.*.M	5 10 17 28	40	8÷50 25÷170 50÷315	250	8
XQ.3.C.3.*.S	5 10 17 28	40		250	8

8

**nch** 

Pressione max. di esercizio sulle vie A/B (P tappata sul blocco) 315 bar					
Max. operating pressure ports T - for dynam	ic pressure see	note (*)	250 bar		
Regulated flow rate	Vedi tabella pagina precedente				
Relative duty cycle		Continuous 100% ED			
Type of protection	IEC 144 class IP 65				
Flow rate gain	See diagrams				
Hysteresis with connection P/A/B/T $\Delta p = 5$ bar (P/A)		≤4% of max. flow rate			
Fluid viscosity	10 ÷ 500 mm²/s				
Fluid temperature		-20°C ÷ 75°C			
Max. contamination level	class 8 in accordance with				
		NAS 1638 with	າ filter ິ ເ <sub>10</sub> ≥75		
Weight version XQ.3.C.*.M		2,89 Kg			
Weight version XQ.3.C.*.S		2,39 Kg			
Type of voltages	9V	12V	24V		
Max. current	2.35A	1.76 A	0.88 A		
Solenoid coil resistance at 25°C (77°F)	2.25 Ohm	4.0 Ohm	16.0 Ohm		
(*) Pressure dynamic allowed for 2 millions of c	ycles.				

## **E**LECTRONIC CONTROL UNIT

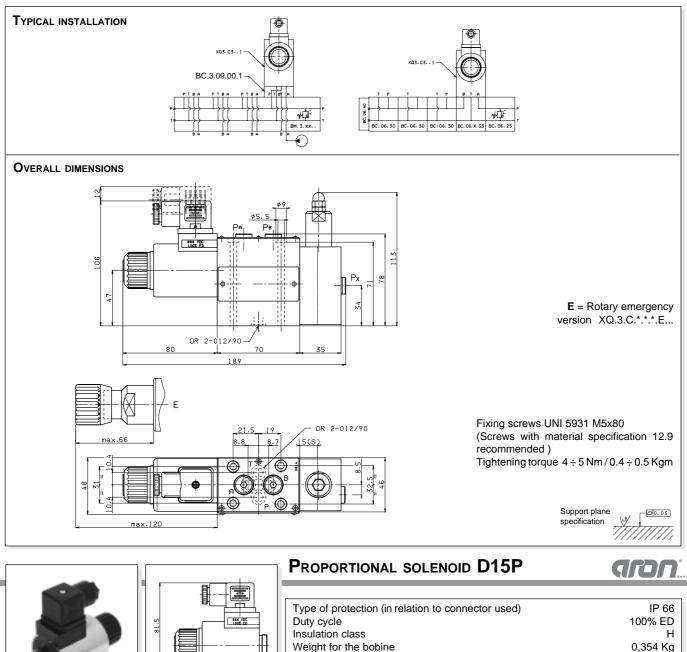
REM.S.RA.\*.\*.

Card type control for single solenoid

SE.3.AN.209.16..

EUROCARD type control for single solenoid

 Operating specifications are valid for fluid with 46 mm<sup>2</sup>/s viscosity at 40°C, using the specified ARON electronic control units



8

Weight for the solenoid

80