

#### XQ3.

STANDARD CONNECTORS	Ch. I PAGE 20		
"D15P" PROPORT. SOLENOIDS	Ch. VIII PAGE 21		
REMSRA	Ch. IX PAGE 4		
BC308. / BC309. / BC06XQ3	3. Ch. VII PAGE 13		

#### **O**RDERING CODE

XQ

Proportional flow control valve

3

No. of way

С

Pressure compensation

3

CETOP 3/NG6

\*

Flow rates

**F** = 5 l/min

**G** = 10 l/min

**H** = 16 l/min

I = 28 I/min

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**M** = With manual pressure limiter

**S** = Without manual pressure limiter

Setting ranges

 $1 = 8 \div 50 \text{ bar}$ 

 $2 = 25 \div 170 \text{ bar}$ 

 $3 = 50 \div 315 \text{ bar}$ 

Omit for XQ3C.\*.S version

\*

**E** = With rotary emergency (type **P2**)

S = Without rotary emergency

\*

Voltage

E = 9VDC (2,35 A)

F = 12VDC (1.76 A)

G = 24VDC (0.88 A)

\*\*

Variant (\*):

**S1** = No variant (without connectors)

SV = Viton

**L5** = emergency lever

**R5** = Rotary emergency180°

**( 2** 

Serial No.

(\*) All variants are considered without connectors. The connectors must be order separately. See Ch. I Page 20

## XQ3... Proportional flow control valves pressure compensated CETOP 3



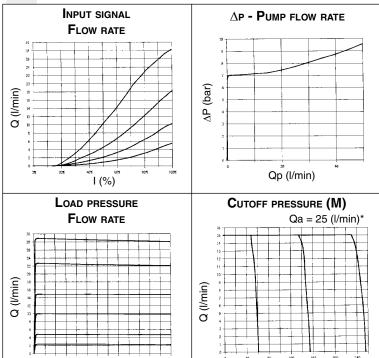
This is a proportional valve where both the flow rate and pressure control flow functions have been integrated according to the 3 way regulation concept.

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.

#### **D**IAGRAMS



The fluid used is a mineral based oil with a viscosity of 46 mm<sup>2</sup>/s at 40°C. The tests have been carried out at with a fluid of a 40°C.

P (bar)

(\*) Tested with 25 l/min supply

P (bar)

#### 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

Max. operat. pressure ports A/B / With P port blocked on subplate 315 bar Max. operating pressure ports T - for dynamic pressure see note (\*) 250 bar Regulated flow rate See diagram page before Continuous 100% ED Relative duty cycle 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 10 ÷ 500 mm<sup>2</sup>/s Fluid viscosity -20°C ÷ 75°C Fluid temperature Max. contamination level class 8 in accordance with NAS 1638 with filter  $\beta_{10} \ge 75$ Weight version XQ.3.C.\*.M... 2,89 Kg 2,39 Kg Weight version XQ.3.C.\*.S... Type of voltage 12V 24V 9V Max. current

2.35A 1.76 A 0.88 A 2.25 Ohm 4.0 Ohm 16.0 Ohm

(\*) Pressure dynamic allowed for 2 millions of cycles.

Solenoid coil resistance at 25°C (77°F)

#### **ELECTRONIC CONTROL UNIT**

#### REMSRA.\*.\*.

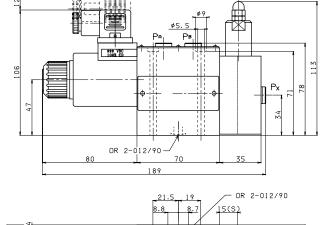
Card type control for single solenoid. Recommended dither frequency 100 Hz.

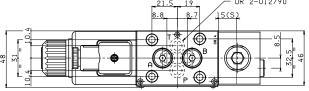
#### SE3AN2100...

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

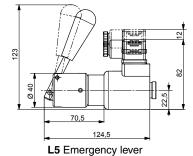
# TYPICAL INSTALLATION BC.3.09.00.1 **OVERALL DIMENSIONS**

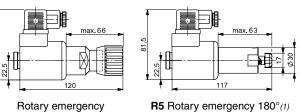




Fixing screws UNI 5931 M5x80 (min. 8.8 material screws are recommended) Tightening torque 4 ÷ 5 Nm / 0.4 ÷ 0.5 Kgm Support plane



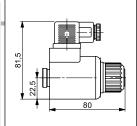




Rotary emergency version XQ.3.C.3.\*.\*.E

Two positions hand emergency. The regulated flow with emergency actuated can be less than nominal value.

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### "D15P" Proportional solenoids

**IP 66** Type of protection (in relation to connector used) 100% ED Duty cycle Insulation class wire 0,354 Kg Weight (coil) Weight (solenoid) 0,608 Kg ETD15P - 01/2002/e

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