

"D15P" PROPORT. SOLENOIDS CH. XI PAGE 15 STUDS FOR MOUNTING CH. XI PAGE 10

ORDERING CODE

CXQ

Open loop 3 way proportional compensated flow regulator for module units and stackable valves

3

Size

С

3 way compensation

*

P = 3 way priority function versionT = 3 way version(with secondary line)

*

Nominal flow rates **H** = 15 l/min

H = 15 l/mirI = 25 l/min

D

with decompression

*

Max. current at solenoid

E = 2.35 A

F = 11.76 A

G = 0.88 A

**

00 = No variant

P1 = Rotary emergency

P5 = Rotary emergency 180°

1

Serial No.

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.

CXQ.3... OPEN LOOP PROPORTIONAL PRESSURE COMPENSATED STACKABLE FLOW REGULATORS

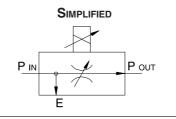


The open loop proportional flow regulator 3 way compensated with priority function is designed to regulate flow in proportion to an applied electrical current (REM or SE3AN power amplifier).

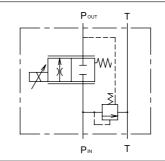
Flow regulation is independent both from load $-P_{\text{OUT}}$ port - and pump flow variations. Load compensation is achieved by a spool compensator, which holds the pressure drop constant across the proportional spool.

Operating specifications and overall size make this valve suitable to interlock to module units and stackable valves in order to combine a proportional control with directional control typical of stackable systems.

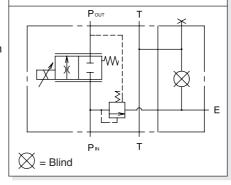
HYDRAULIC SYMBOLS



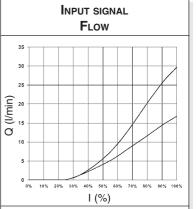
3 WAY WITH SECONDARY LINE CXQ.3.C.T...



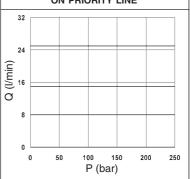
3 WAY WITH PRIORITY FUNCTION CXQ.3.C.P...



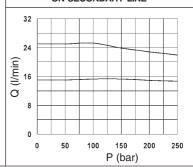
DIAGRAMS



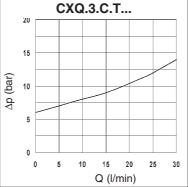
FLOW RATE BACK PRESSURE ON PRIORITY LINE

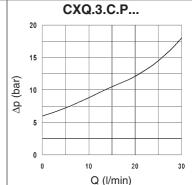


FLOW RATE BACK PRESSURE ON SECONDARY LINE



$\triangle P - PUMP FLOW$ $P_{IN} \rightarrow T$





OFF-HIGHWA

CXQ.3... OPEN LOOP PROPORTIONAL PRESSURE

COMPENSATED STACKABLE FLOW REGULATORS

OPERATING SPECIFICATIONS

Max. operating pressure ports $P_{in}/P_{out}/E/T$ 250 bar Regulated flow rate 15 / 25 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 66 Flow rate gain See diagram "Input signal flow"

2.35A

2.25 Ohm

Fluid viscosity
Fluid temperature
Ambient temperature
Max. contamination level

Weight CXQ.3.C.P... version Weight CXQ.3.C.T... version

Max. current at solenoid Solenoid coil resistance at 25°C (77°F)

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

AMPLIFIER UNIT AND CONTROL

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

electronic card for control single proportional solenoid valve

SE.3.AN.21.00...

 $10 \div 500 \text{ mm}^2/\text{s}$

from class 7 to 9 in accordance with NAS 1638 with filter $\beta_{10} \ge 75$

1.76 A

4.0 Ohm

-20°C ÷ 75°C

-20°C ÷ 70°C

Kg 2,25

Kg 1,75

0.88 A

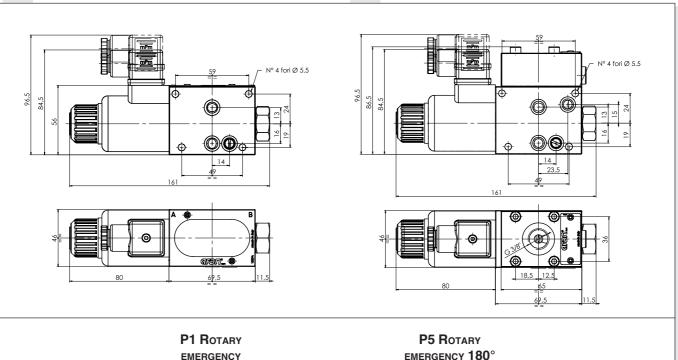
16.0 Ohm

EUROCARD type control for single solenoid

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

OVERALL DIMENSIONS CXQ.3.C.T...

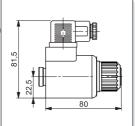
OVERALL DIMENSIONS CXQ.3.C.P...



max.66

120

max. 63



"D15P" Proportional solenoids

Type of protection (in relation to connector used)

Duty cycle

Insulation class

H

Weight (coil)

Weight (solenoid)

P 66

100% ED

100%



aron.