

# XD.3.A... / XD.3.C... SOLENOID OPERATING PROPORTIONAL VALVES CETOP 3



XD.3.A../XD.3.C.. series valves are used for controlling fluid direction and flow rate as a function of the supply current to the proportional control solenoid.

Any valve Δp variation causes a change in the set flow rate; however the valve itself ensure a high level internal compensation by limiting the controlled flow rate.

2 or 3 way modular assembly pressure regulators type AM.3.H... are available for a more accurate flow rate regulation.

The shown flow rates are typical for one line operation (e.g. from P to B), while higher flow rates are obtainable by using the valve with our flow rate doubling sub-base type BC.3.07 (see diagram next page). This type of configuration extends considerably the flow rate limit.

	a/ W		
XD.3.A.01.N	XD.3.A.03.N	XD.3.C.01.N	XD.3.C.03.N
a/ TIWM	a/ I	a/ A T T K V b	
XD.3.A.01.P	XD.3.A.03.P	XD.3.C.01.P	XD.3.C.03.P
a/ Wijiww	a/ VI	a/ TING	a/ V T I W
XD.3.A.01.T	XD.3.A.03.T	XD.3.C.01.T	XD.3.C.03.T

## **ORDERING CODE**

XD

SE.3.AN209...

SE.3.AN204...

AM.3.H...

BC.3.07...

Proportional valve

3

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CETOP 3/NG6

A = Single solenoid C = Double solenoid

Type of spool

Flow path control (see symbols table)

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N = symmetrical

**P** = meter in

T = meter out

Flow rating I/min (∆p 5 bar)

1 = 3 l/min

2 = 10 l/min

3 = 15 l/min

4 = 20 l/min

5 = 25 l/min (at port T)

E = 9VDC (2.35 A)

F = 12VDC (1.76 A)

G = 24VDC (0.88 A)

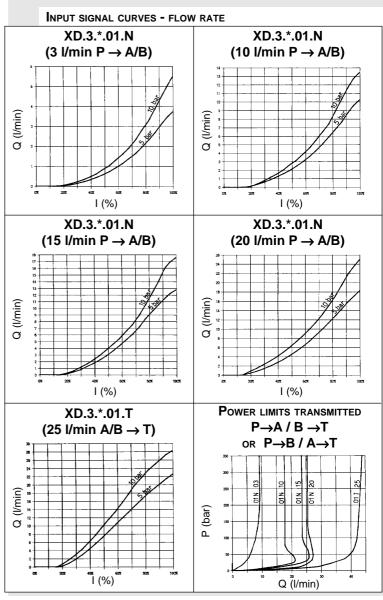
00 = No variant

V1 = Viton

P1 = Rotary emergency

Serial No.

2



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.

## XD.3.A... / XD.3.C... SOLENOID OPERATING PROPORTIONAL VALVES CETOP 3

### **OPERATING SPECIFICATIONS**

Max. operating pressure ports P/A/B 350 bar Max. operating pressure ports T - for dynamic pressure see note (\*) 250 bar 3/10/15/20/25 l/min Regulated flow rate Relative duty cycle Continuous 100% ED Type of protection 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  $\beta_{10} \ge 75$ 1,5 Kg Weight XD.3.A... (single solenoid) Weight XD.3.C... (double solenoid) 1,7 Kg Type of voltages 12V 24V Max. current 0.88 A 2.35A 1.76 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 cycles. • Operating specifications are valid for fluid with 46 mm<sup>2</sup>/s viscosity at 40°C, using

#### **ELECTRONIC CONTROL UNIT**

REM.S.RA.\*.\*. and REM.D.RA.\*.\*.

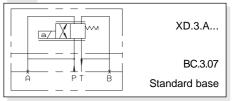
Card type control for single and double solenoid

SE.3.AN.209.16.. and SE.3.AN.204.16.. EUROCARD type control for single and double solenoid

AM.3.H.2V.P1 and AM.3.H.3V.P1

Hydrostats 2 or 3 way.

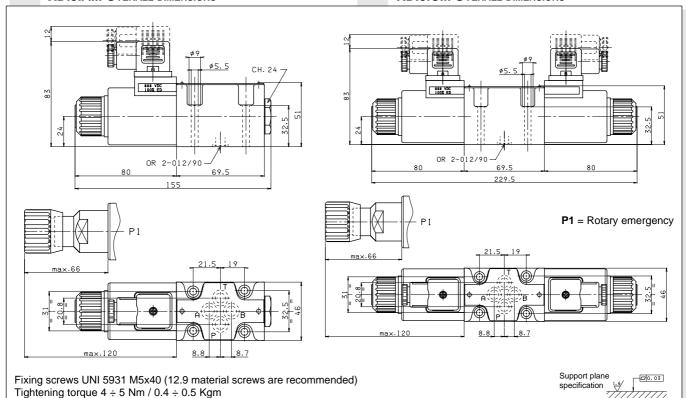
## SCHEMA FOR DOUBLE FLOW RATE



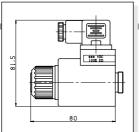
### **XD.3.A...** OVERALL DIMENSIONS

the specified ARON electronic control units.

## **XD.3.C...** OVERALL DIMENSIONS







## Proporzional solenoid D15P

Type of protection (in relation to connector used)	IP 66	
Duty cycle	100% ED	
nsulation class	н	
Veight for the bobine	0,354 Kg	

