



XDP.3.A... / XDP.3.C ...

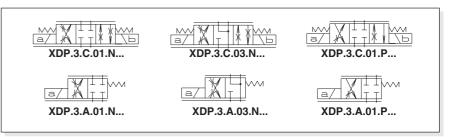
PROPORTIONAL DIRECTIONAL VALVES OPEN LOOP



The open loop valves of series XDP... control the direction and the volume of the flow according to the feeding current to the proportional solenoid. By using a valve body equipped with increased passage channels it is possible to reach the highest capacity of its dimensions at a parity of pressure drops, (40 l/min with Δp of 10 bar).

Each Δp variation on the valve leads to the variation of the capacity which has been set, anyway the valve guarantees an high inner compensation grade and limits the adjustment capacity.

Performances shown in this catalogue are guaranteed only using 2 or 3 way modular assembly hydrostats type AM.3.H. ... By using the valve with the base for capacity doubling type BC.3.07 (see next page) a greater capacity cam be obtained.



XDP.3

XDI .	
D15P PROPORTIONAL SOLE	NOIDS CH. VIII PAGE 5
REM.S.RA	Ch. IX page 4
REM.D.RA	Ch. IX page 7
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AM.3.H	Ch. VIII PAGE 10
AM.5.H	CH. VIII PAGE 11
BC.3.07	Ch. VII page 12

ORDERING CODE

XDP

Open loop proportional directional valve



CETOP 3/NG6



**

A = Single solenoid

C = Double solenoid

Type of spool (null position)

$$\mathbf{01} = \begin{bmatrix} \bot & \bot \\ \top & \top \end{bmatrix} \quad \mathbf{03} = \begin{bmatrix} \bot \\ \top \end{bmatrix}$$



Flow path control

(see hydraulic symbols table)

N = symmetrical

P = meter in (only with 01 spool)

Flow rating

I/min (∆p 10 bar) |

1 = 8 l/min

2 = 15 l/min

3 = 25 l/min

6 = 40 l/min ←

In order to reduced the unloading pressure for rated flow version at 40 l/min we advise to use the 3 way type AM.5.H.3V... hydrostat.



Max. current to solenoid

E = 2.35 A

F = 1.76 A

G = 0.88 A

**

00 = No variant

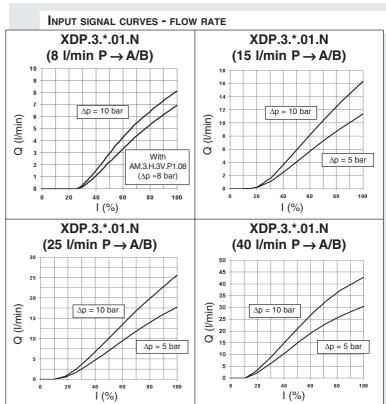
P1 = Rotary emergency

P5 = Rotary emergency 180°

V1 = Viton

2

Serial No.



POWER LIMITS TRANSMITTED $P \rightarrow A/B \rightarrow T$ or $P \rightarrow B/A \rightarrow T$ Curve 1 15 l/min 250 version (bar) 150 Curve 2 40 l/min 100 Д version

Q (I/min)

XDP.3.A... / XDP.3.C ... PROPORTIONAL DIRECTIONAL VALVES OPEN LOOP



OPERATING SPECIFICATIONS

Max. operating pressure ports P/A/B 350 bar Max. pressure port T - for dynamic pressure see note (*) 250 bar 8 / 15 / 25 / 40 l/min Nominal flow Continuous 100% ED Duty cycle Type of protection (depending on the connector used) IP 65 Flow rate gain See diagram Power limits curves transmitted See diagram Fluid viscosity 10 ÷ 500 mm²/s Fluid temperature -20°C ÷ 75°C Ambient temperature -20°C ÷ 70°C Max. contamination level from class 7 at 9 in accordance

Weight XDP.3.A... (single solenoid) with NAS 1638 with filter $\beta_{10} \ge 75$ Weight XDP.3.C... (double solenoid) 2,9 Kg

	vveignt XDP.3.C (double solenoid)			2,9 Kg
	Max. current	2.35A	1.76 A	0.88 A
	Solenoid coil resistance 25°C (77°F)	2.25 Ohm	4.0 Ohm	16.0 Ohm
	Hysteresis P / A / B / T			
	with a pressure compensator AM.3.H.3V	≤5 %	<5%	<8%
	Response to step $\Delta p = 5$ bar (P/A)			
	0 ÷ 100%	32 ms	40 ms	85 ms
	100% ÷ 0	33 ms	33 ms	33 ms
Frequency response -3db (Input signal 50% ±25% Vmax)				
		22Hz	22Hz	12Hz

(*) Pressure dynamic allowed for 2 millions of cycles

Operating specifications are valid for fluids with 46 mm²/s viscosity at 40° C, using the specified ARON electronic control units. Performance data carried out using the specified Aron power amplifier SE.3.AN... serie 1 - EUROCARD format.

AMPLIFIER UNIT AND CONTROL

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

Electronic card control single and double proportional solenoid valve.

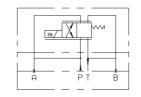
SE.3.AN.21.00...

Electronic card format EUROCARD for control and double proportional solenoid valve

AM.3.H.2V.P1 / AM.3.H.3V.P1 and AM.5.H.3V.P1 (*)

Hydrostats 2 or 3 way
(*) for rated flow XDP3 version at 40 l/min only

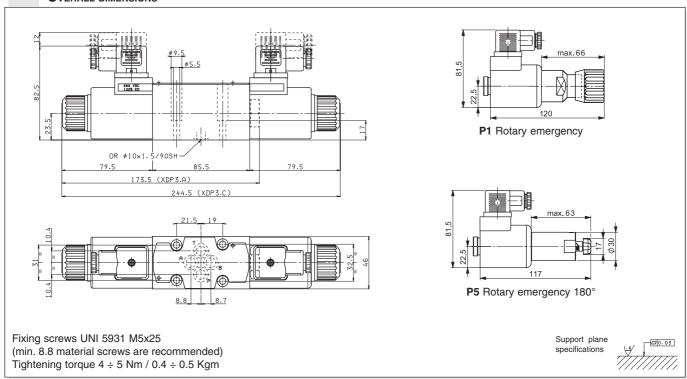
CONFIGURATION FOR DOUBLE FLOW RATE



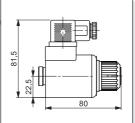
XDP.3.A...

BC.3.07 Standard subplate

OVERALL DIMENSIONS







"D15P" Proportional solenoids

Type of protection (in relation to connector used)

Duty cycle

Insulation class

Weight (coil)

Weight (solenoid)

IP 66

100% ED

H

0,354 Kg

0,608 Kg