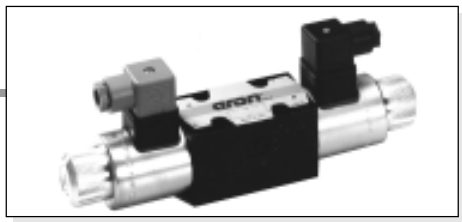
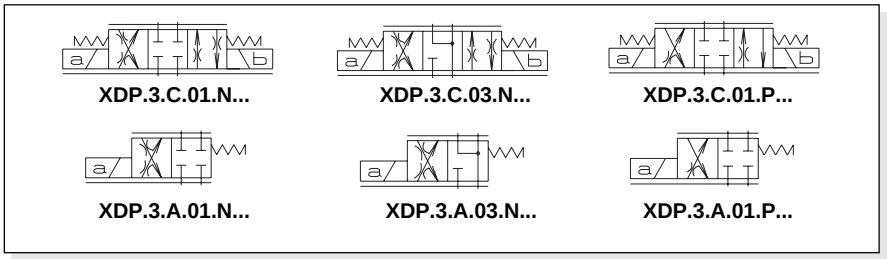


XDP.3.A... / XDP.3.C ...

PROPORTIONAL DIRECTIONAL VALVES OPEN LOOP

The 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. For a more accurate capacity control, 2 or 3-way hydrostats for modular plate design are available. The shown flow rates are typical for one line operation (e.g. from P to B). 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...	
PROPORTIONAL SOLENOIDS	CH. VIII PAGE 7
REM.S.RA...	CH. IX PAGE 2
REM.D.RA...	CH. IX PAGE 4
SE.3.AN209...	CH. IX PAGE 7
SE.3.AN204...	CH. IX PAGE 9
AM.3.H...	CH. VIII PAGE 10
AM.5.H...	CH. VIII PAGE 11
BC.3.07...	CH. VII PAGE 12



ORDERING CODE

XDP — Proportional directional valve without positional transducer

3 — CETOP 3/NG6

***** — **A** = Single solenoid
C = Double solenoid

****** — Type of spool (null position)
01 =  **03** = 

***** — Flow path control
(see hydraulic symbols table)
N = symmetrical
P = meter in (only with 01 spool)

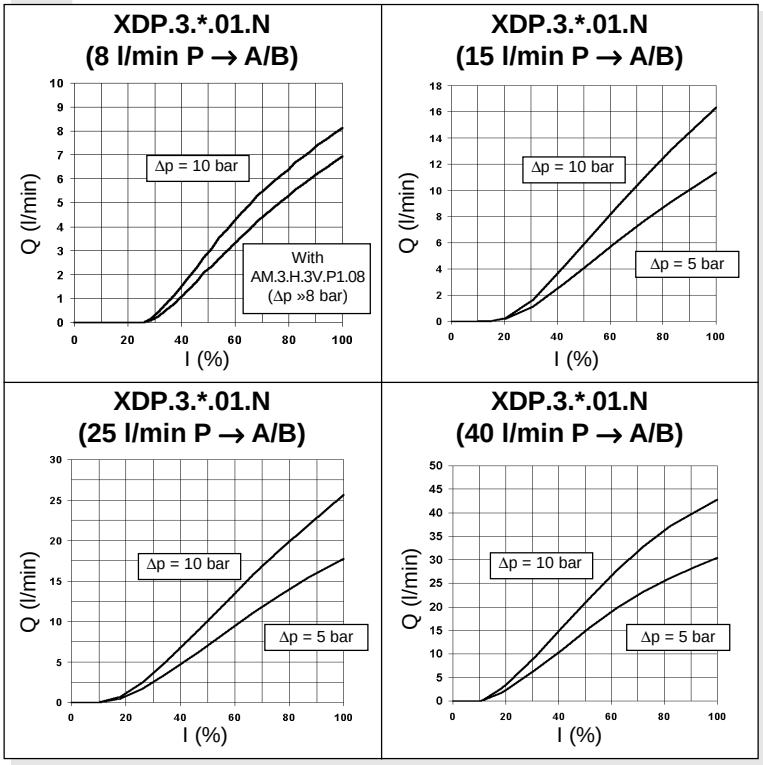
***** — Flow rating
l/min (Δp 10 bar)
1 = 8 l/min
2 = 15 l/min
3 = 25 l/min
6 = 40 l/min ← In order to reduced the unloading pressure for setted at 40 l/min flow version we advise to use the 3 way type AM.5.H.3V... hydrostat.

***** — **F** = 12VDC (1.76 A)
G = 24VDC (0.88 A)

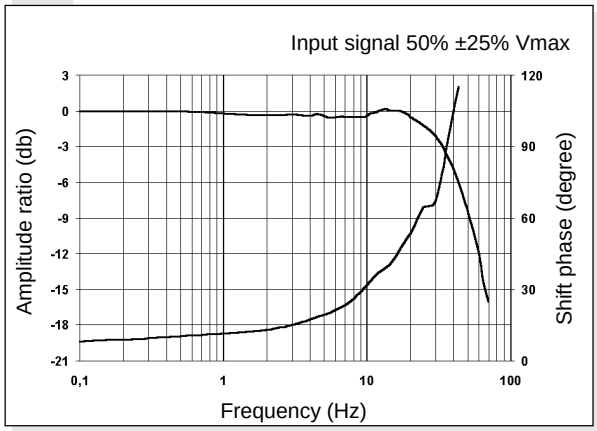
****** — **00** = No variant
P1 = Rotary emergency

1 — Serial No.

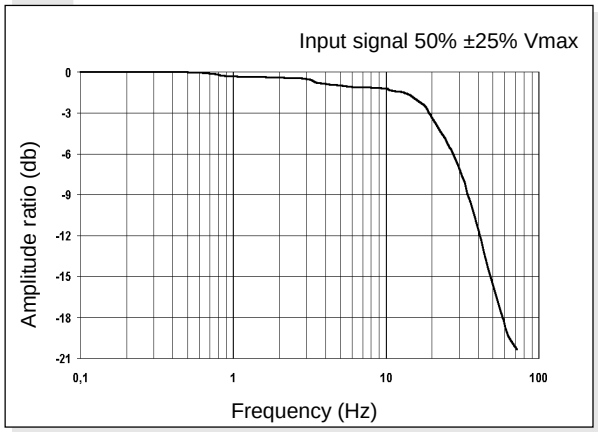
INPUT SIGNAL CURVES - FLOW RATE



BODE DIAGRAM FOR SOLENOIDS 12V



FREQUENCY RESPONSE FOR SOLENOIDS 24V



OPERATING SPECIFICATIONS

Max. operating pressure ports P/A/B	350 bar
Dynamic pressure port T	210 bar
Static pressure port T	210 bar
Nominal flow	8 / 15 / 25 / 40 l/min
Duty cycle	Continuous 100% ED
Type of protection (depending on the connector used)	IP 65
Performance curves	See diagram
Frequency response	See Bode diagram
Power limits curves transmitted	See diagram at side
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 with NAS 1638 with filter $ß_{10}≥75$
Weight XDP.3.A... (single solenoid)	1,7 Kg
Weight XDP.3.C... (double solenoid)	2,9 Kg

Type of voltages		12V	24V
Max. current		1.76 A	0.88 A
Solenoid coil resistance 20°C (68°F)		4.8 Ohm	18.4 Ohm
Solenoid coil resistance when hot		7.34 Ohm	28.1 Ohm
Hysteresis P/A/B/T with a pressure compensator AM.3.H.3V		<5%	<8%
Transient function with stepped electrical input signals			
Δp = 5 bar (P/A)	0 ÷ 100%	36 ms	60 ms
	100% ÷ 0	26 ms	26 ms
Frequency response -3db (Input signal 50% ±25% Vmax)		28Hz	13Hz

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

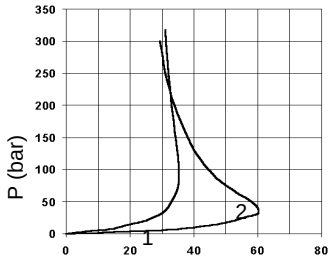
AMPLIFIER UNIT AND CONTROL

REM.S.RA.*.*. and REM.D.RA.*.*.
Electronic card control single and double proportional solenoid valve.

SE.3.AN.209.16... and SE.3.AN.204.16...
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.

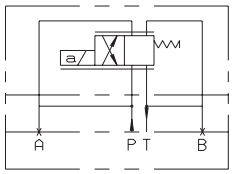
POWER LIMITS TRANSMITTED



Curve 1
15 l/min version

Curve 2
40 l/min version

CONFIGURATION FOR DOUBLE FLOW RATE

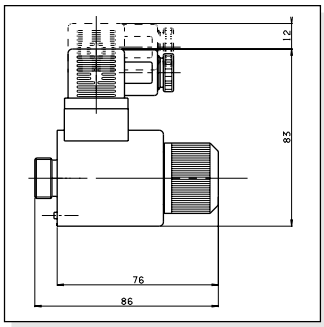


XDP.3.A...

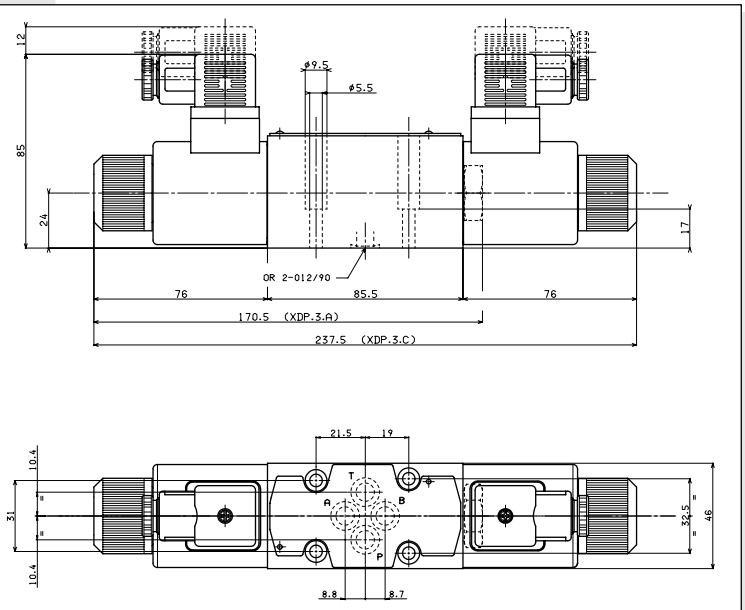
BC.3.07

Base standard

PROPORTIONAL SOLENOIDS

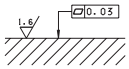


OVERALL DIMENSIONS

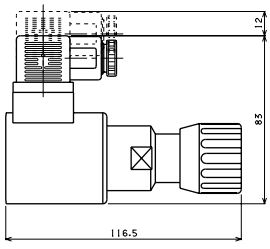


Fixing screws UNI 5931 M5x25
(12.9 material screws are recommended)
Tightening torque 4 ÷ 5 Nm / 0.4 ÷ 0.5 Kgm

Support plane specifications



VARIANT WITH ROTARY EMERGENCY P1



Type of protection (in relation to connector used)	IP 65
Duty of cycle	100% ED
Max. static pressure	210 bar
Insulation class	H
Weight	0,6 Kg

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