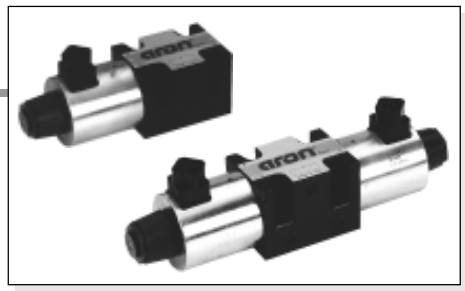


XD.5.A... / XD.5.C...

SOLENOID OPERATING PROPORTIONAL VALVES

XD.5.A../XD.5.C.. series valves are used for controlling fluid direction and flow rates a function of the supply current to the proportional control solenoid.

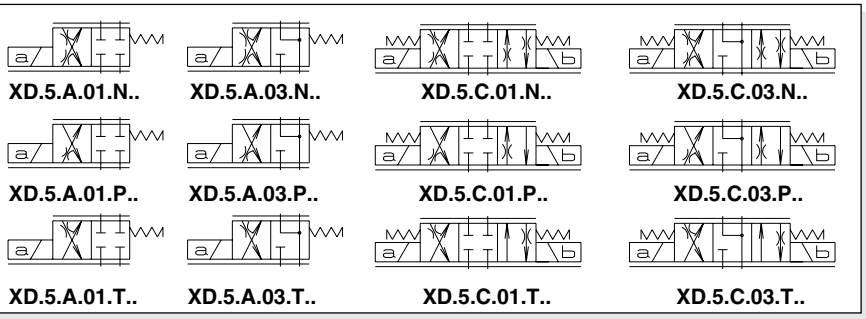
Any valve Δp variation causes a change in the set flow rate; however the valve itself ensures a high level of internal compensation by limiting the controlled flow rate.

2 or 3 way modular assembly pressure regulators type AM.5.H... are available for a more accurate flow rate regulation.

The shown flow rates are typical one line operation (e.g. from P to B), while higher flow rates are obtained by using the valve with our flow rate doubling sub-base BC.5.07 (see diagram next page).

This type of configuration extends considerably the flow rate limit.

XD.5...	
PROPORTIONAL SOLENOID D19P	CH.VIII PAGE 5
REM.S.RA...	CH. IX PAGE 2
REM.D.RA...	CH. IX PAGE 4
SE.5.AN209...	CH. IX PAGE 7
SE.5.AN204...	CH. IX PAGE 9
AM.5.H...	CH.VIII PAGE 11
BC.5.07...	CH.VII PAGE 27

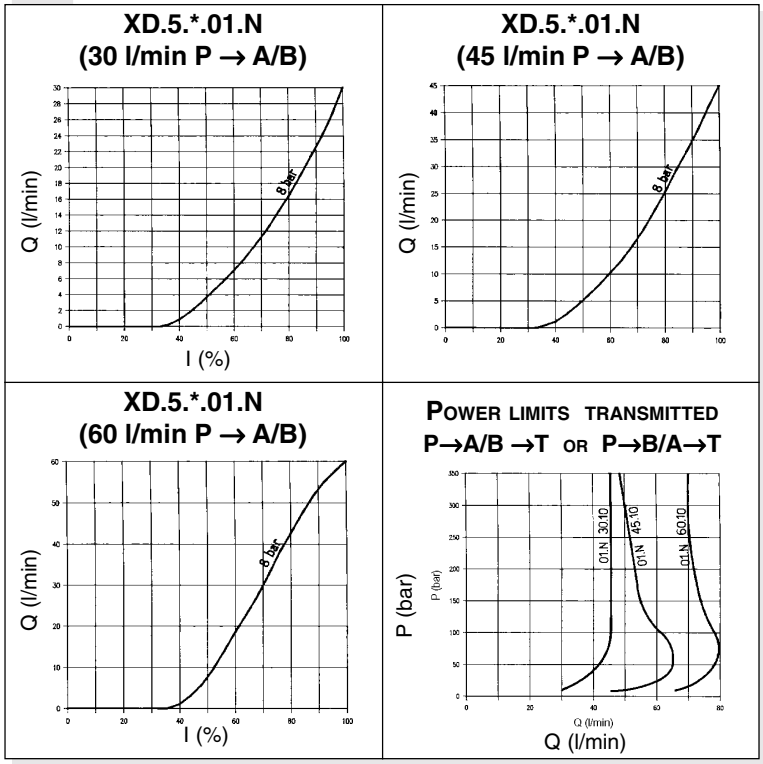


ORDERING CODE

XD	Proportional distributor
5	CETOP 5/NG10
*	**A** = Single solenoid **C** = Double solenoid
**	Type of spool **01** =  **03** = 
*	Flow path control (see hydraulic symbols table) **N** = symmetrical **P** = meter in **T** = meter out
*	Flow rating l/min (Δp 8 bar) **1** = 30 l/min **2** = 45 l/min **3** = 60 l/min
*	**F** = 12VDC (2.5 A) standard **G** = 24VDC (1.25A)*
**	**S** = without external draining **D** = with external draining
**	**00** = No variant **V1** = Viton
2	serial No.

(*) Our technical department advises on an arrangement to suit your application

INPUT SIGNAL CURVES - FLOW RATE / POWER LIMITS TRANSMITTED



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Max. operating pressure ports P/A/B	350 bar
Max. operating pressure ports T - for dynamic pressure see note (*)	250 bar
Regulated flow rate	30 / 45 / 60 l/min
Relative duty cycle	Continuous 100% ED
Type of protection	IP 65
Flow rate gain	See diagrams
Fluid viscosity	10 ÷ 500 mm²/s
Fluid temperature	-20°C ÷ 75°C
Max. contamination level	class 8 in accordance with NAS 1638 with filter $ß_{10}≥75$
Weight XD.5.A... (single solenoid)	4,08 Kg
Weight XD.5.C... (double solenoid)	5,46 Kg

Type of voltages	**12V**	**24V**
Max. current	2.5 A	1.25 A
Solenoid coil resistance 20°C (68°F)	2.85 Ohm	11.4 Ohm

Specification of valve with 12V solenoid:	
Hysteresis Δp = 8 bar (P/A)	≤4% of max. flow rate
Repeatibility	≤3% of max. flow rate
Response to step Δp = 8 bar (P/A)	
Time to reach 90% of step requested:	
0 ÷ 90%	80 ms
90% ÷ 0	70 ms
90% ÷ -90 %	100 ms
Frequency response -3db (Input signal 50% ± 25% Vmax.)	7Hz

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

Performance data are carried out using the specified Aron power amplifier SE.5.AN*

ELECTRONIC CONTROL UNIT

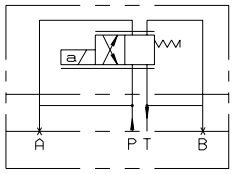
REM.S.RA.*.*. and REM.D.RA.*.*.
Card type control for single and double solenoid.

SE.5.AN.209.25... and SE.5.AN.204.30...
EUROCARD type control for single and double solenoid

AM.5.H.2V.P1 and AM.5.H.3V.P1
Hydrostats 2 o 3 way.

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

CONFIGURATION FOR DOUBLE FLOW RATE

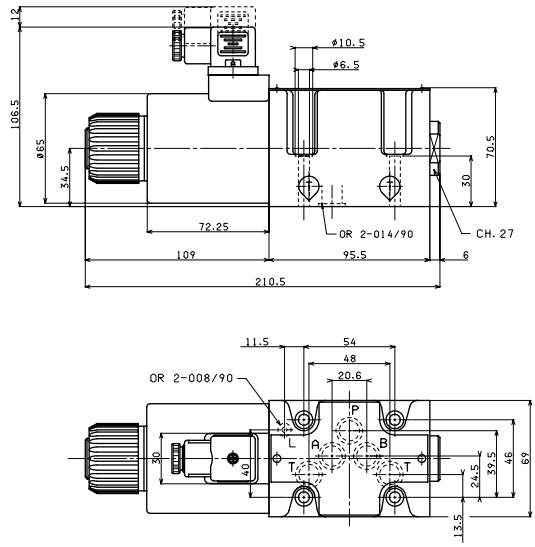


XD.5.A...

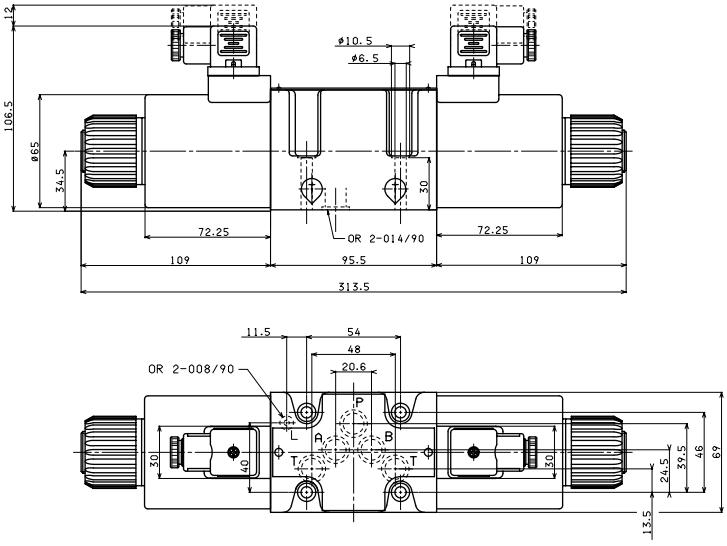
BC.5.07

Standard base

XD.5.A... OVERALL DIMENSIONS

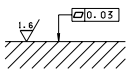


XD.5.C... OVERALL DIMENSIONS



Fixing screws UNI 5931 M6x40 (12.9 material screws are recommended)
Tightening torque 8 ÷ 10 Nm / 0.8 ÷ 1 Kgm

Support plane specifications



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D19P PROPORTIONAL SOLENOID

Type of protection (in relation to the connector used)	IP 65
Ambient temperature	-54˚C ÷ 60˚C
Duty cycle	100% ED
Insulation class	H
Weight	1,58 Kg