

XD2A... / XD2C... SOLENOID OPERATING PROPORTIONAL VALVES CETOP 2



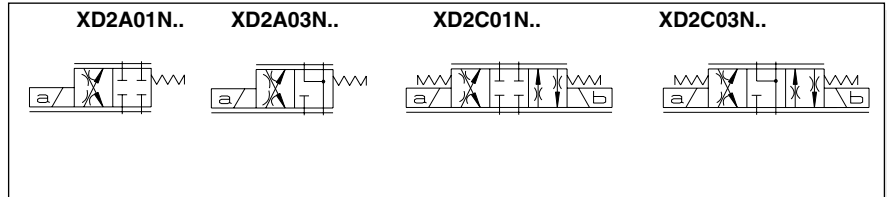
XD2A../XD2C.. series valves are used for controlling fluid direction and flow rate as a function of the supply current to the proportional control solenoid.

Any valve Δp variation causes a change in the set flow rate; however the valve itself ensure a high level internal compensation maintaining constant a regulated flow..

The XD2 cetop valve could be used for accurate proportional controls with compact sizes, reducing weights.

These valves can be also combined with Mini Powerpacks type MR/MC/FP creating compact solutions. Could be also used on a Cetop 3 interface using a reduction plate type BS32001.

XD2...	
STANDARD CONNECTORS	CAP. I • 20
DC SOLENOID A09	CAP. I • 4
REMSRA...	CAP. IX • 4
REMDRA...	CAP. IX • 7
CEPS	CAP. IX • 2
AM3H...	CAP. VIII • 15
BS32001	CAP. VII • 3



ORDERING CODE

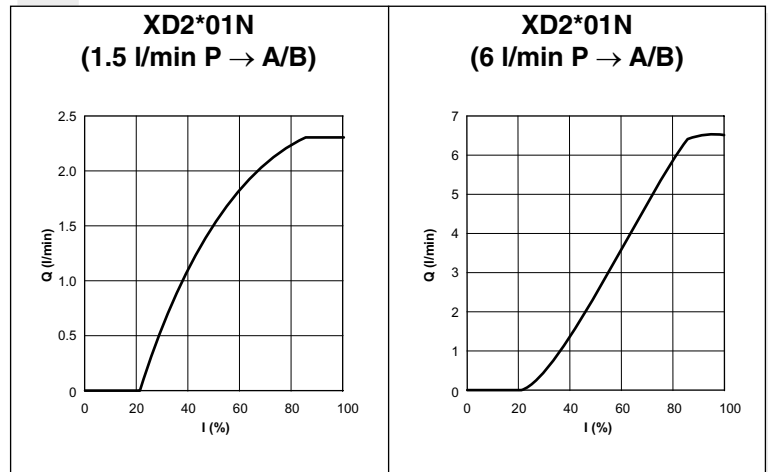
XD	Proportional valve
2	CETOP 2/NG04
*	A = Single solenoid C = Double solenoid
**	Type of spool (null position)
	01 = 03 =
*	Flow path control (see symbols table) N = symmetrical
*	Flow rating l/min (Δp 5 bar) 1 = 1.5 l/min 6 = 6 l/min
*	Max. spool current F = 1.4 A G = 0.7 A
**	Variant: see Tab.1
1	Serial No.

TAB.1 - VARIANTS

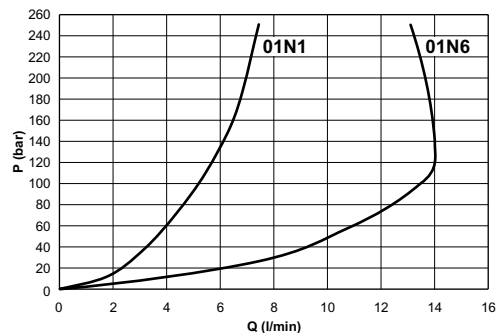
No variant (without connectors)	S1(*)
Viton	SV(*)
AMP Junior connection	AJ(*)
Coil with flying leads (250 mm)	FL
Coil with flying leads (130 mm) with diode	LD
Deutsch connection with bidirectional diode	CX

(*) Coils with Hirschmann and AMP Junior connection supplied without connectors. The connectors can be ordered separately, Cap. I • 20.

INPUT SIGNAL CURVES - FLOW RATE



POWER LIMITS TRANSMITTED P → A/B → T P → B/A → T



The fluid used was a mineral oil with a viscosity of 46 mm²/s at 40°C. The tests have been carried out at with a fluid of 40°C.

Performances shown in this catalogue are guaranteed only using a pressure compensator of 5 bar.

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OPERATING SPECIFICATIONS

Max. operating pressure ports P/A/B	250 bar
Max. operating pressure ports T - for dynamic pressure see note (*)	250 bar
Regulated flow rate	1.5 / 6 l/min
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)	$\leq 13\%$ of max. flow rate
Fluid viscosity	$10 \div 500$ mm ² /s
Fluid temperature	$-20^{\circ}\text{C} \div 75^{\circ}\text{C}$
Max. contamination level	class 8 in accordance with NAS 1638 with filter $\beta_{10} \geq 75$
Weight XD.2.A... (single solenoid)	0.88 Kg
Weight XD.2.C... (double solenoid)	1.1 Kg
Max. current (voltage)	1.4A (a 12V) 0.7A (a 24V)
Solenoid coil resistance at 25°C (77°F)	5.3 Ohm 21.3 Ohm

(*) Pressure dynamic allowed for 500000 cycles

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

ELECTRONIC CONTROL UNIT

REMSRA** and REMDRA**

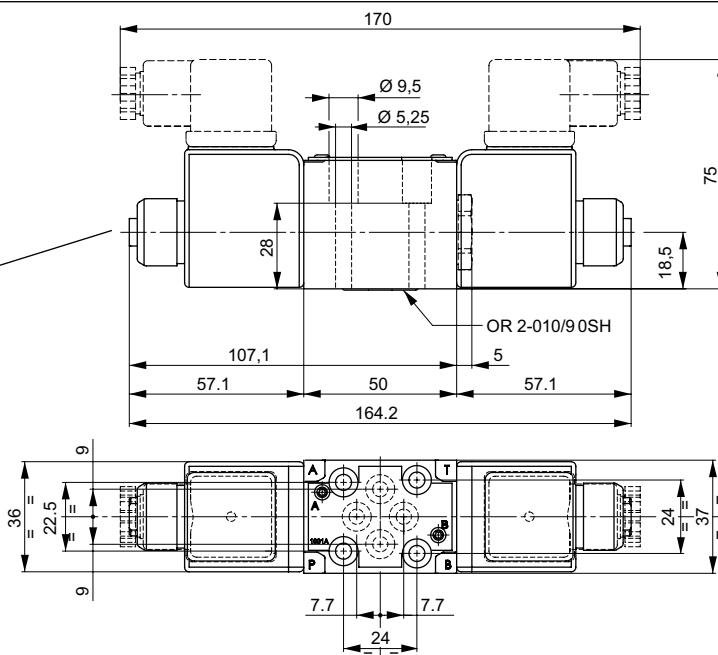
Card type control for single and double solenoid.
Recommended dither frequency 100 Hz.

CEPS

Electronic amplifier plug version
for single solenoid proportional valve (150Hz
PWM frequency setting)

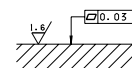
OVERALL DIMENSIONS

Manual emergency: if necessary, use a tool that does not damage the brass button.



Fixing screws UNI 5931 M5x35 (min. 8.8 material screws are recommended)
Tightening torque 5 Nm / 0.5 Kg

Support plane specification



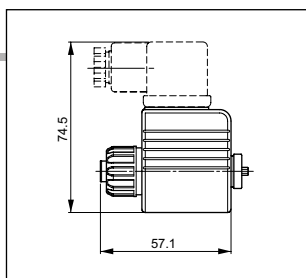
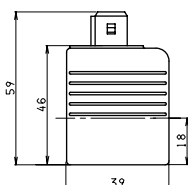
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PROPORTIONAL SOLENOID

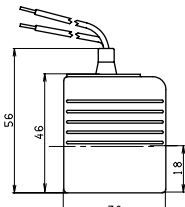
Type of protection (in relation to connector used)	IP 65
Number of cycle	18.000/h
Supply tolerance	$\pm 10\%$
Ambient temperature	$-30^{\circ}\text{C} \div 60^{\circ}\text{C}$
Duty cycle	100% ED
Insulation class wire	H
Weight	0,215 Kg



AMP JUNIOR (AJ)



FLYING LEADS (FL)
LEADS + DIODE (LD)



DEUTSCH COIL + BIDIR. DIODE (CX)
DT04 - 2P

