

Распределители ARON СЕТОР 3 / NG06 XDC.3

Технические характеристики

Архангельск (8182)63-90-72	Ижевск (3412)26-03-58	Магнитогорск (3519)55-03-13	Пермь (342)205-81-47	Сургут (3462)77-98-35
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Иваново (4932)77-34-06	Киргизия (996)312-96-26-47	Казахстан (772)734-952-31	Таджикистан (992)427-82-92-69	

Единый адрес для всех регионов: any@nt-rt.ru || www.aron.nt-rt.ru



XDC.3...002

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XDC.3... PROPORTIONAL DIRECTIONAL VALVES

CLOSED LOOP POSITION CONTROL

The valves XDC series 2 control the direction and the volume of the flow according to the feeding current to the proportional solenoid. The position transducer type LDVT (inductive position transducer) monitors the actual position of the spool.

In the electronic card (type SE.AN.21.RS...serie 3) the error between the actual position and the reference signal is used to obtain a greater precision of the spool positioning, reducing also considerably the hysteresis and the repeatability error of the valve. For a more accurate flow control, 2 or 3-way pressure compensators 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 greater capacity can be obtained.



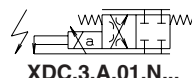
XDC.3.C.01.N...



XDC.3.C.03.N...



XDC.3.C.01.P...



XDC.3.A.01.N...



XDC.3.A.03.N...



XDC.3.A.01.P...



Registered mark for industrial environment with reference to the electromagnetic compatibility.

European norms: EN50082-2 - general safety norm - industrial environment;
EN50081-1 - emission general norm - residential environment

ORDERING CODE

XDC

Proportional directional valve with closed loop position control

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 rated flow version at 40 l/min we advise to use the 3 way type AM.5.H.3V... hydrostat.

F

Max. current at solenoid: 1.76 A

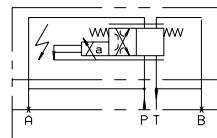
00

No variant

2

Serial No.

CONFIGURATION FOR DOUBLE FLOW RATE



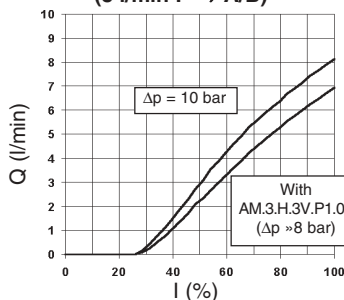
XDC.3.A...

BC.3.07

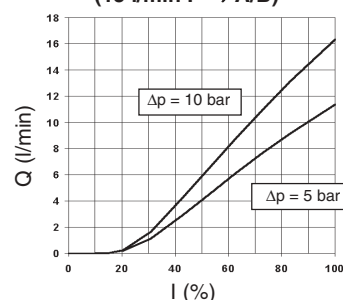
Standard subplate

INPUT SIGNAL CURVES - FLOW RATE

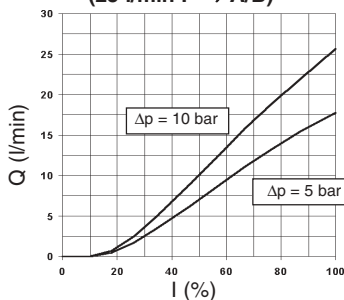
XDC.3.*.01.N
(8 l/min P → A/B)



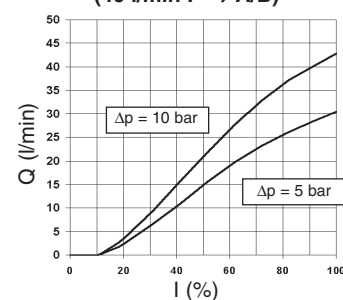
XDC.3.*.01.N
(15 l/min P → A/B)



XDC.3.*.01.N
(25 l/min P → A/B)



XDC.3.*.01.N
(40 l/min P → A/B)



Notice:

in order to control the valve XDC3...serie 2 it need to use the electronic card SE.AN.21.RS...serie 3, in exclusive way (See Ch. IX).

XDC.3... PROPORTIONAL DIRECTIONAL VALVES CLOSED LOOP POSITION CONTROL

OPERATING SPECIFICATIONS OF VALVE WITH TRANSDUCER

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 connectors used)	IP 65
Performance curves	See diagrams
Fluid viscosity	10 ÷ 500 mm ² /s
Fluid temperature	-20°C ÷ 75°C
Ambient temperature	-20°C ÷ 70°C
Max. contamination level	class 7 to 9 in accordance to NAS 1638 with filter $\beta_{10} \geq 75$
Weight XDC.3.A... (single solenoid)	1,94 Kg
Weight XDC.3.C... (double solenoid)	2,55 Kg

Max. current	1.76 A
Solenoid coil resistance at 20°C (68°F)	4.55 Ω
Solenoid coil resistance when hot	7.34 Ω
Hysteresis P/A/B/T with pressure compensator AM.3.H.3V...	<1%
Transient function with stepped electrical input signals $\Delta p = 5$ bar (P/A)	
0 ÷ 100%	65 ms
100% ÷ 0	75 ms
Repeatability	<0,5%
Frequency response -3db (Input signal $\pm 25\%$ Vmax)	10 Hz

Insulation class	H
Weight of solenoid	0,6 Kg

Operating specifications are valid for fluids with 46 mm²/s viscosity at 40°C, using the SE3AN21RS... serie 3 ARON electronic control unit.

AMPLIFIER UNIT AND CONTROL

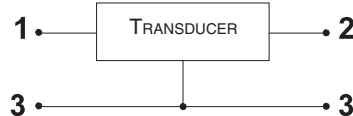
SE.3.AN.21.RS...serie 3 - Electronic card EUROCARD format for control of the proportional valve equipped with transducer

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

Hydrostats 2 or 3 way

(*) for rated flow XDC3 version at 40 l/min) only

TRANSDUCER ELECTRICAL CONNECTIONS



1 = Supply 18VDC ÷ 36VDC

3 = Mass

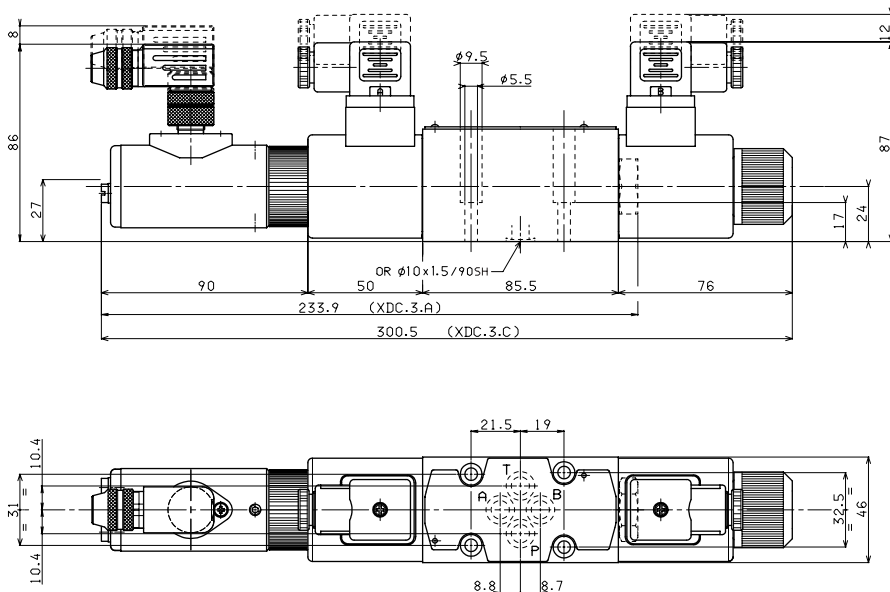
2 = Output 2V ÷ 10V

POSITION TRANSDUCER SPECIFICATION

Electrical measuring system	LVDT
Nominal stroke	6 mm
Electrical connection	M12x1
Insulation	
(depending on the connector used)	IP65
Frequency response	500 Hz
Linearity tolerance	$\pm 1\%$

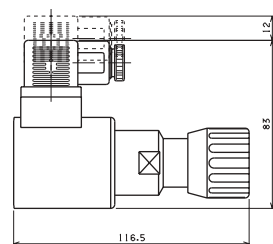
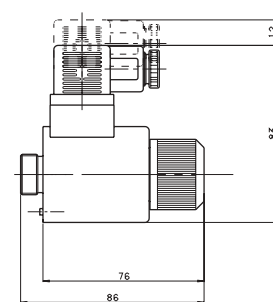
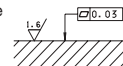
PROPORTIONAL SOLENOID

OVERALL DIMENSIONS



Fixing screws UNI 5931 M5x25
(min. 8.8 material screws are recommended)
Tightening torque 4 ÷ 5 Nm / 0.4 ÷ 0.5 Kgm

Support plane
specifications



SOL_XDC - 01/2000/e

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