

Распределители ARON CDC.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
Астана (7172)727-132	Иркутск (395)279-98-46	Москва (495)268-04-70	Ростов-на-Дону (863)308-18-15	Тверь (4822)63-31-35
Астрахань (8512)99-46-04	Казань (843)206-01-48	Мурманск (8152)59-64-93	Рязань (4912)46-61-64	Томск (3822)98-41-53
Барнаул (3852)73-04-60	Калининград (4012)72-03-81	Набережные Челны (8552)20-53-41	Самара (846)206-03-16	Тула (4872)74-02-29
Белгород (4722)40-23-64	Калуга (4842)92-23-67	Нижний Новгород (831)429-08-12	Санкт-Петербург (812)309-46-40	Тюмень (3452)66-21-18
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Владивосток (423)249-28-31	Киров (8332)68-02-04	Новосибирск (383)227-86-73	Севастополь (8692)22-31-93	Уфа (347)229-48-12
Волгоград (844)278-03-48	Краснодар (861)203-40-90	Омск (3812)21-46-40	Симферополь (3652)67-13-56	Хабаровск (4212)92-98-04
Вологда (8172)26-41-59	Красноярск (391)204-63-61	Орел (4862)44-53-42	Смоленск (4812)29-41-54	Челябинск (351)202-03-61
Воронеж (473)204-51-73	Курск (4712)77-13-04	Оренбург (3532)37-68-04	Сочи (862)225-72-31	Череповец (8202)49-02-64
Екатеринбург (343)384-55-89	Липецк (4742)52-20-81	Пенза (8412)22-31-16	Ставрополь (8652)20-65-13	Ярославль (4852)69-52-93
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



CDC.3.*.E... DIRECTIONAL CONTROL STACKABLE VALVE

Directional control stackable valve body is available in two different sizes: G3/8" or 9/16-18UNF (SAE 6).

The operation of the directional valve is electrical. The centring is achieved by means of calibrated length springs which immediately reposition the spool in the neutral position when the electrical signal is shut off. To improve the valve performance, different springs are used for each spool.

The solenoids, constructed with a protection class of IP65 in accordance with BS 5490 standards, are available in direct current form and different voltage. The electrical controls are equipped with an emergency manual control inserted in the tube.

The electrical supply connectors meet DIN 43650 ISO 4400 standards. On request, could be available the following coil connection variants: AMP Junior connections; flying leads connections, with or without integrated diode; Deutsch connections with bidirectional integrated diode.

Max. pressure ports P/A/B/T	250 bar
Max flow	30 l/min
Max excitation frequency	3 Hz
Duty cycle	100% ED
Fluid viscosity	10 ÷ 500 mm ² /s
Fluid temperature	-25°C ÷ 75°C
Ambient temperature	-25°C ÷ 60°C
Max contamination level	class 10 in accordance with NAS 1638 with filter $\beta_{25} \geq 75$
Weight with one DC solenoid	1,25 Kg
Weight with two DC solenoids	1,5 Kg

ORDERING CODE

CDC	Directional control stackable valve
3	Size
*	Body type (tab. 1)
E	Electrical operator
**	Spool (tab.2) For series connection use spool 04 only
*	Mounting (tab.3)
*	Voltage (tab.4)
**	Variants (tab.5)
1	Serial No.

For series connection configuration, a special individual stackable valve CDC.3.*.E.04.**.PT.1 (A B or G parallel body type only, with spool 04 type, PT variant) must always be used as first element. For other individual stackable valve must use body D E or H connector series type with spool 04 only.

TAB.3 MOUNTING

STANDARD	
C	
E	
F	
SPECIALS (WITH PRICE INCREASING)	
G	
H	

(*) P1 and P5 Emergency tightening torque max. 6÷9 Nm / 0.6 ÷ 0.9 Kgm with CH n. 22

TAB.1 - BODY TYPE

A	Ports G3/8" parallel
B	Ports 9/16 - 18UNF parallel
D*	Ports G3/8" series
E*	Ports 9/16 - 18UNF series
G	Attachment style, parallel presetting for modular valves
H*	Attachment style, series presetting for modular valves

(*) For series connection configuration see note below ordering code

TAB.4 - A09 - DC VOLTAGE

L	12V	
M	24V	
N	48V*	
P	110V*	
Z	102V*	
X	205V*	
W	Without DC coils	

* Special voltage

• The AMP Junior coil and with the flying leads (with or without diode) coils are available in 12V or 24V DC voltage only.

• The Deutsch coil with bidirectional diode is available in 12V DC voltage only.

TAB.5 - VARIANTS TABLE

No variant	00
Viton	V1
Emergency button	E1
Rotary emergency button	P1
Rotary emergency button (180°)	P5
Solenoid valve without connectors	S1
First element for series connection	PT
Pilot light	X1
Rectifier	R1
Viton + Pilot light	VX
Viton + Rectifier	VR
Pilot light + Rectifier	XR
coils with flying leads (length 250 mm)	FL
coils with flying leads (length 130 mm) and integrated diode	LD
AMP Junior connection	AJ
Deutsch connection and bidr. diode	CX

Other variants relate to a special design

TAB.2 - STANDARD SPOOLS

TWO SOLENOIDS, SPRING CENTRED "C" MOUNTING			
Spool type		Covering	Transient position
01		+	
02		-	
03		+	
04*		-	

ONE SOLENOID, SIDE A "E" MOUNTING

Spool type		Covering	Transient position
01		+	
02		-	
03		+	
04*		-	
15		-	
16		+	

ONE SOLENOID, SIDE B "F" MOUNTING

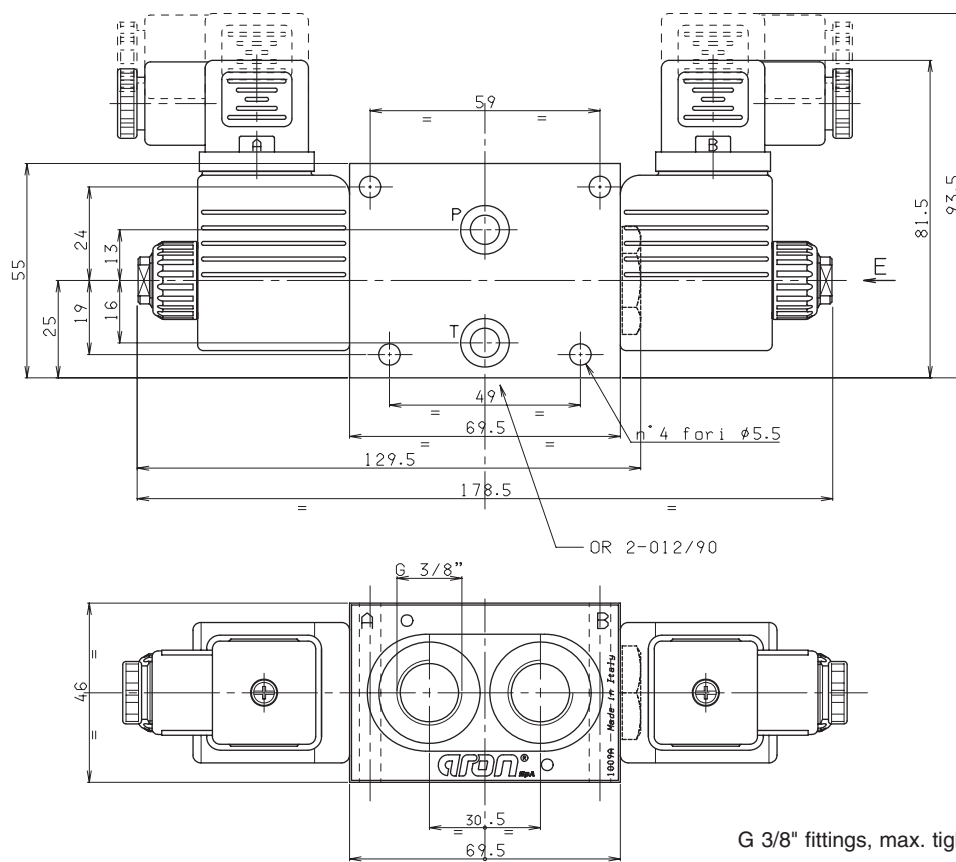
Spool type		Covering	Transient position
01		+	
02		-	
03		+	
04*		-	
15		-	
16		+	

* SPOOL WITH PRICE INCREASING

CDC.3.*E... DIRECTIONAL CONTROL STACKABLE VALVE

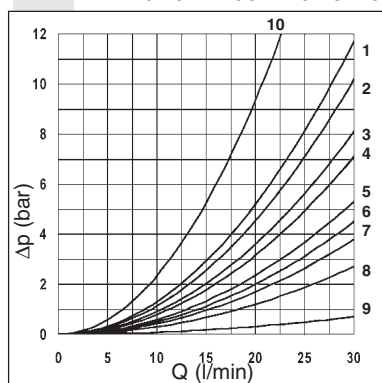
OVERALL DIMENSIONS

E = Manual override



PRESSURE DROPS

DIRECTIONAL CONTROL STACKABLE VALVE



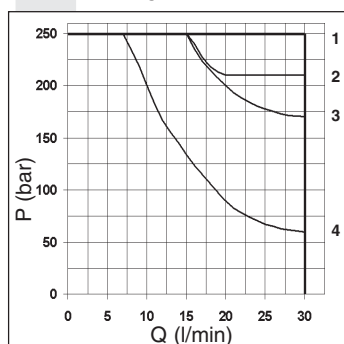
Spool type	Connections					
	P → A	P → B	A → T	B → T	P → T	P/ T passing
01	4	4	4	4	/	9
02 (p*)	7	7	6	6	7	9
02 (s*)	7	7	6	6	8	/
03	4	4	6	6	/	9
04 (p*)	2	2	1	1	5	9
04 (s*)	2	2	1	1	3	/
15-16 F	6	6	5	10	/	9
15-16 E	6	6	10	5	/	9

The diagram at the side shows the pressure drop curves for spools during normal usage. The fluid used is a mineral oil with a viscosity of 46 mm²/s at 40 C°; the tests have been carried out at a fluid temperature of 40 C°.

(p*) Parallel connections
(s*) Series connections

Curve No.

LIMITS



Spool type	n° curve
01	1
02	1
03	3
04	2
15-16	1(4*)

The tests have been carried out with solenoids at operating temperature and a voltage 10% less than rated voltage with a fluid temperature of 50 C°. The fluid used was a mineral oil with a viscosity of 46 mm²/s at 40 degrees C. The values in the diagram refer to tests carried out with the oil flow in two directions simultaneously (e.g. from P to A and at the same time B to T).

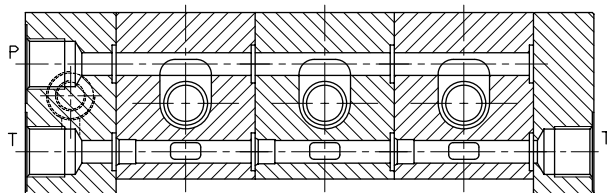
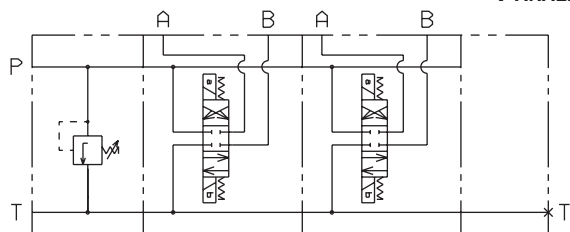
In the cases where valves 4/2 and 4/3 are used with the flow in one direction only, the limits of use could have variations which may even be negative (See curve No 4 and Spool No 16 used as 2 or 3 ways). The tests were carried out with a counter-pressure of 2 bar at T port.

(4*) = 15 and 16 spools used as 2 or 3 way, follow the curve n°4

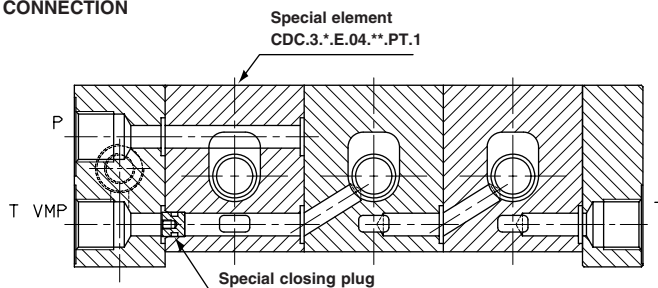
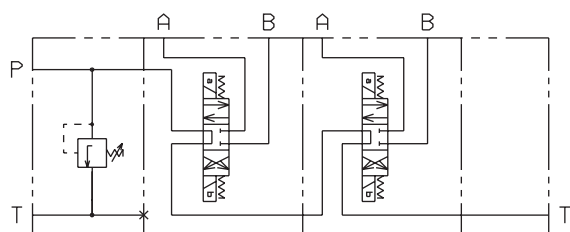
STACKABLE DIRECTIONAL CONTROL VALVES

HYDRAULIC SYMBOLS AND INSTRUCTION OF CONNECTION

PARALLEL CONNECTION



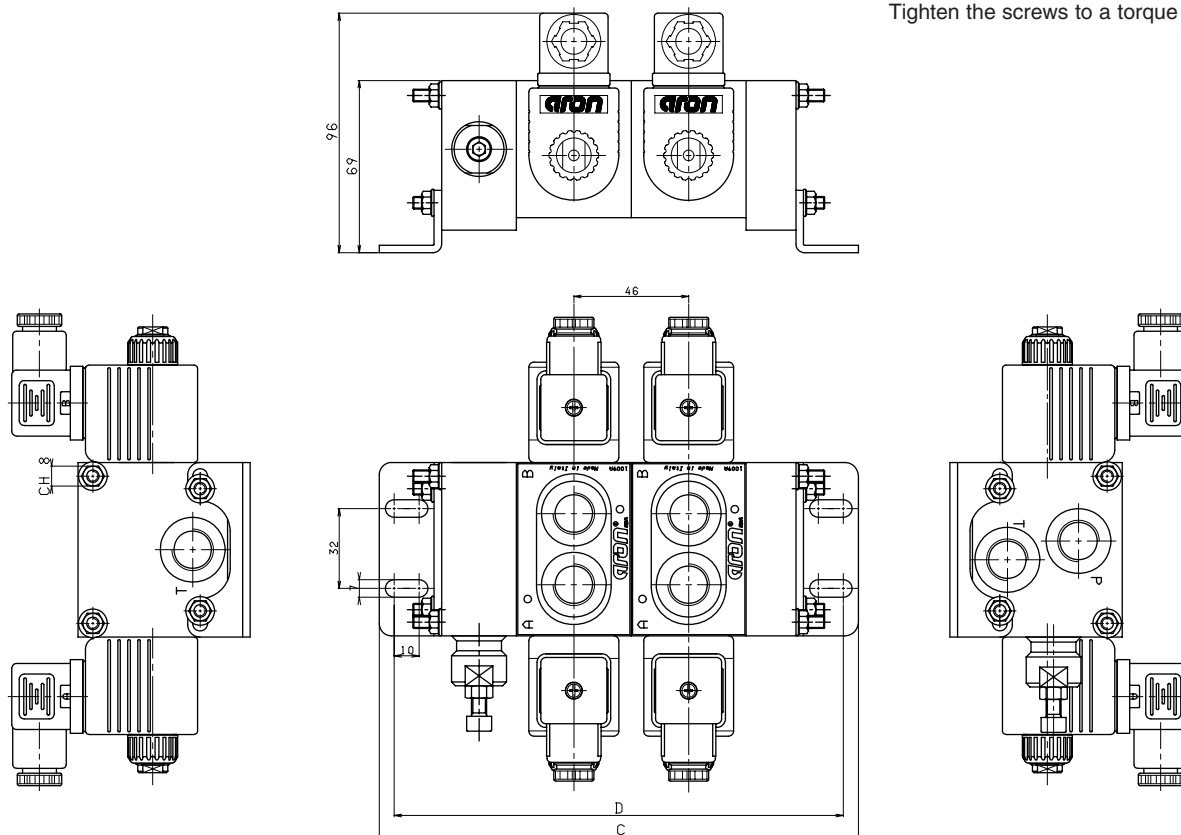
SERIES CONNECTION



For series connection configuration, a special individual valve bank section (CDC.3*.E.04.**.PT.1) must always be used as first element (see ordering code)

OVERALL DIMENSIONS

Tighten the screws to a torque of 5 Nm



No. ELEMENTS	FE02-FE INLET MODULE		FE 10 INLET MODULE	
	C	LENGTH (mm)	D	
2	192	180	202	190
3	238	226	248	236
4	284	272	294	282
5	330	318	340	328
6	376	364	386	374

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