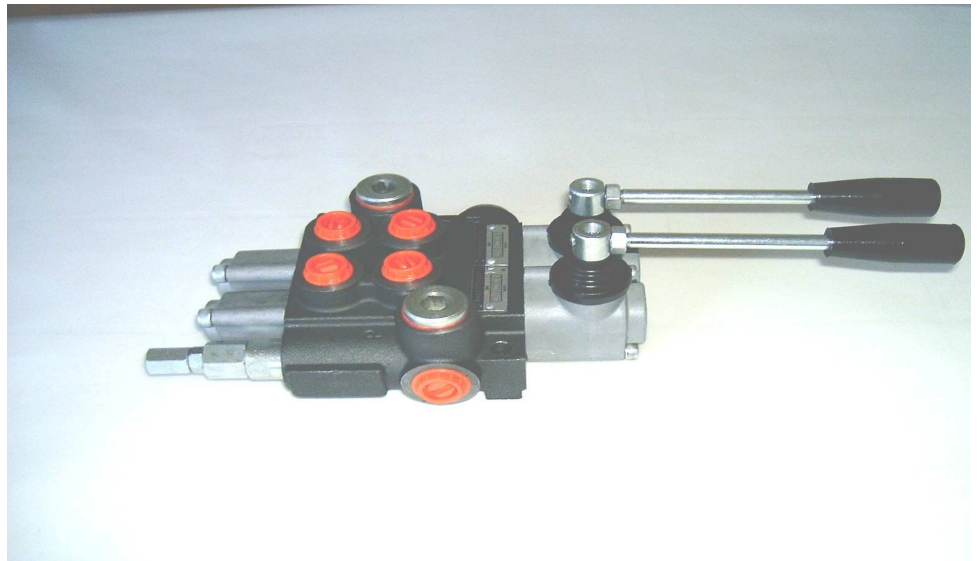


HYDRAULIC DIRECTIONAL CONTROL VALVES

РАСПРЕДЕЛИТЕЛИ ГИДРАВЛИЧЕСКИЕ



Description

Назначение и область применения

For starting, controlling and stopping the working fluid between the generator of pressured flow, the consumers and the Tank. Предназначен для изменения направления потока, ограничения давления рабочей жидкости в гидротлиниях, разгрузки насоса в нейтральной позиции золотников.

Specifications

Основные показатели:

1. Valve monoblock
Конструктивное выполнение
2. Mounting
Крепление
3. Pressure connections
При соединительные отверстия
4. Ambient temperature
Температура воздуха
5. Pressure medium
Рабочая жидкость
6. Viskosity
Кинематическая вязкость
7. Fluid temperature
Температура
8. Filtration
Фильтрация
9. Max. operating pressure
Давление max. bar

10. Internal (46 mm²/s) Leakage
Внутренние потери (A, B-T)
11. Nominal flow
Разход рабочей жидкости
12. Spool stroke
Ход золотника
13. Actuating force
Усилие на движения золотника

моноблок

2 bolts M8

internal thread

внутренние резьбы

-40C...+60C

mineral oil based hydraulic oil

12...800 mm²/s permissible range

20...100 mm²/s recommended range

-15C...+80C

Oil contamination 10 to NAS1638

P = 250 bar

T = 50 bar

A, B = 300 bar

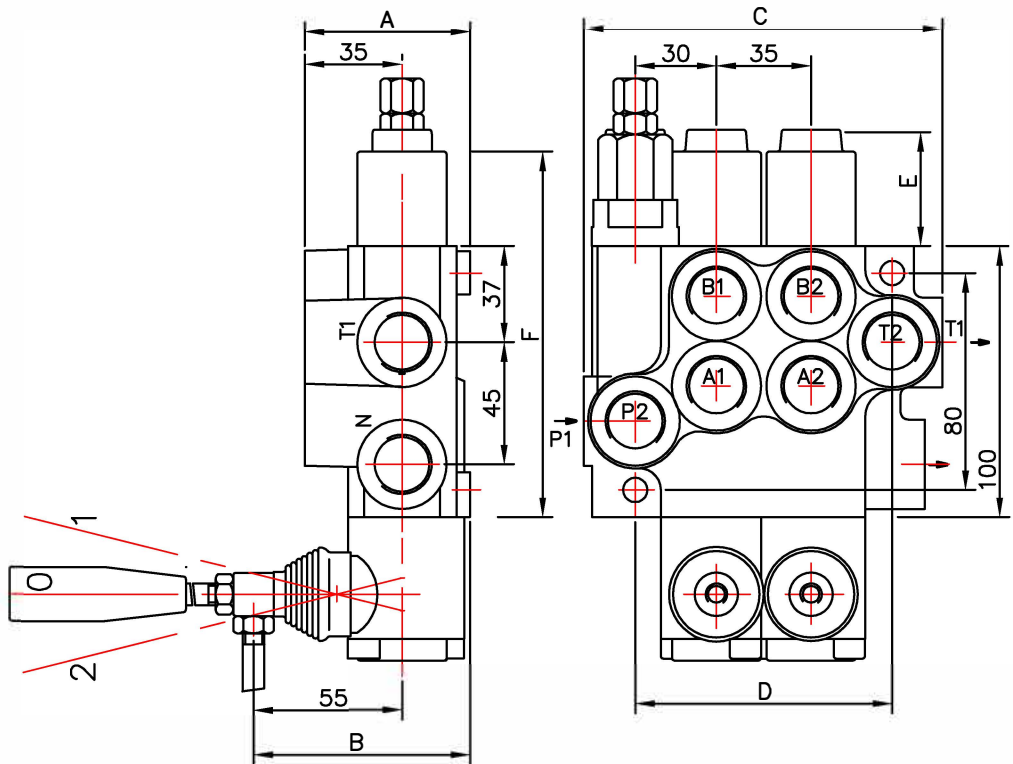
5 cm³/min at 100 bar

40 l/min (see "operating" diagram)

±6 mm

< 200 N in spool axis direction

Left hand configuration - standart



Right hand configuration

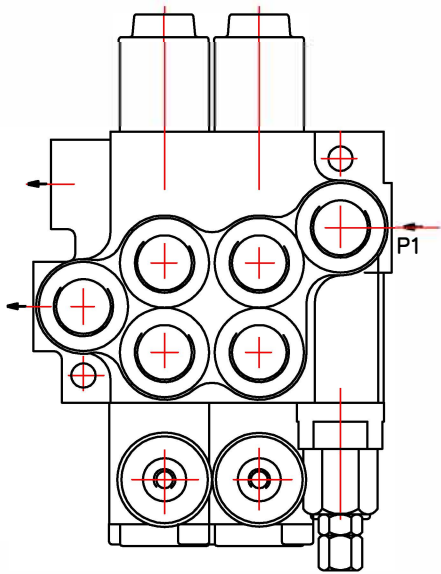


Table 1

	A	B	C	D	P1	P2	T1	T2
P40	60	80	85	60	+	-	+	-
02P40	60	80	129	97	+	+	+	+
03P40	60	80	164	132	+	+	+	+
04P40	60	80	199	167	+	+	+	+
05P40	60	80	234	202	+	+	+	+
06P40	60	80	269	237	+	+	+	+
07P40	60	80	304	272	+	+	+	+
2P40	60	80	129	97	+	+	+	+
3P40	60	80	164	132	+	+	+	+
4P40	60	80	199	167	+	+	+	+

Table 2

spool control фиксация золотника	E	F
1; 4; 5; 6; 7; 8; 9; 10; 11;	40	193
2; 3;	72	225
16	+	+

0

2

P40

R

1

A

1

A

1

G

KZ1

T

H

E

C2

11

block with common check valve
распределитель с общим клапаном

number of spools
количество золотников

directional control valve type ...
распределитель типа ...

inlet high pressure – right
вход давления с правой стороны

way of distribution/parallel or .../
способ распределения потока

first spool distribution type
характеристика первого золотника

spool control/detend and estr./
контроль золотника/фиксация и сгружение

second spool distribution type
тип второго золотника

spool control/detend and estr./
контроль золотника/фиксация и сгружение

ports /treads/
резьбовые отверстия

general operation feature
тип ручного управления

with "teton"
исполнение ручного управления с "тетон"

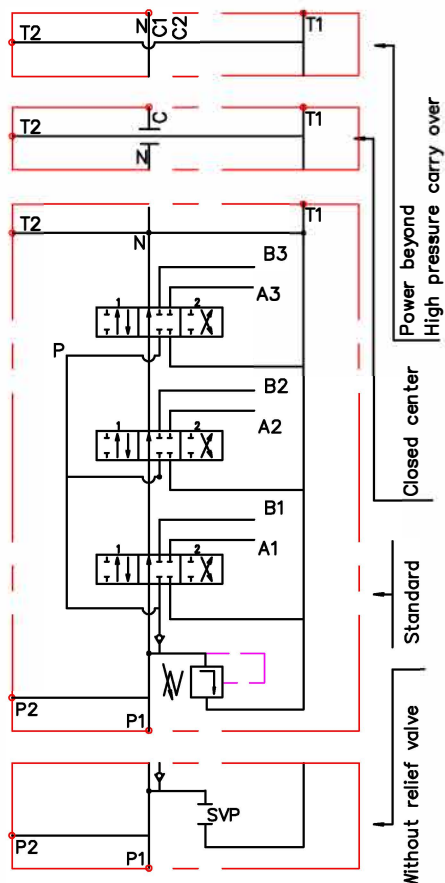
operation feature /pneumatic, .../
другое управление

with electric switch
с электрическим выключателем

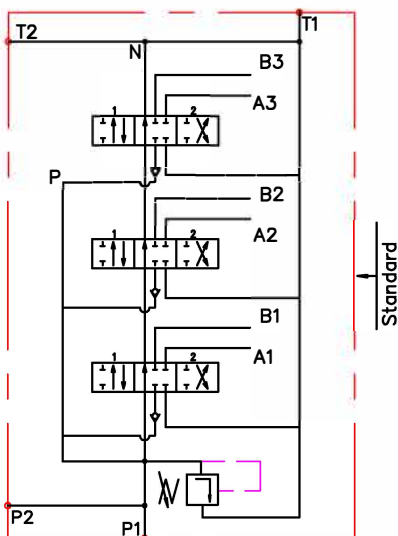
high pressure carry over
продолжител потока высокого давления

connection ports in use
присоединительные отверстия

03P40 1A1A1A1



3P40 1A1A1A1



3P40 2A1A1A1

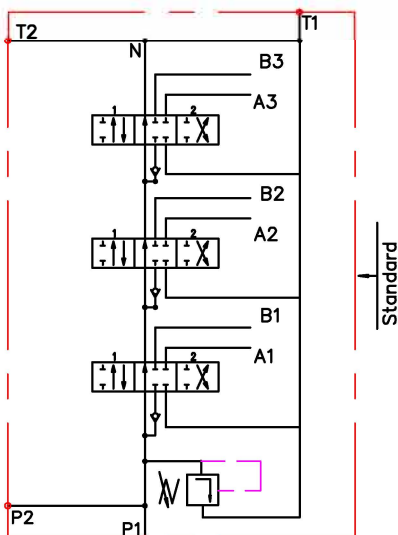


Table 3

code	Number of spools
	1
02, 2	2
03, 3	3

ets.

Table 5

code	spool type
A	
B	
C	
D	
E	
F	
G	
H	
M	
N	
O	
P	
Q	
R	
S	
T	

* только при вход слева (dy8)
only for left hand configuration

** только при вход справа (dy8)
only for right hand configuration

Table 4

code	way of distribution ; распределение потока
1	parallel ; параллельное
2	tandem(series parallel) ; серийно-параллельное

Table 6

code	spool control
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	

* 15	
* 16	

* только при вход слева
only for left hand configuration

** 12	
** 13	

** только при вход справа
only for right hand configuration

Table 7

code	с микро шалпер ; incorporated microswitch
E	 mikroswitch type Omron-V 165 I C5

Table 8

code	грузовое управление ; operation feature
P	 пневматическое on-off pneumatic control; 5-10 bar ; ports NPTF 1/8-27
H	 гидравлическое on-off hydraulic control ; pn = 5 - 20 bar ; ports G1/4

P40

code ports (treads) ; присоединительные отверстия

	P	A ; B	T	N
M	M22x1.5	M18x1.5	M22x1.5	M22x1.5
G	G1/2	G3/8	G1/2	G1/2
G1/2	G1/2	G1/2 on request	G1/2	G1/2
S	7/8-14UNF	3/4-16UNF	7/8-14UNF	7/8-14UNF

kind of hand control ; вид ручного управления

Table 10

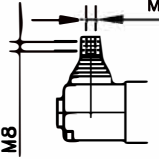
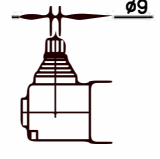
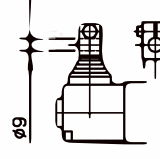
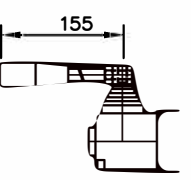
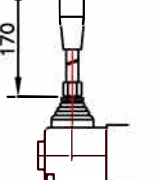
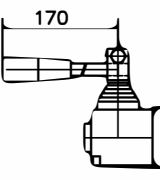
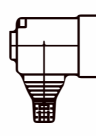
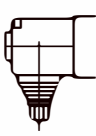
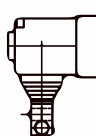
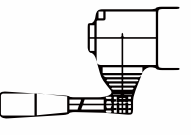
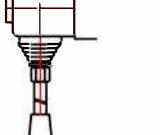
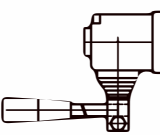
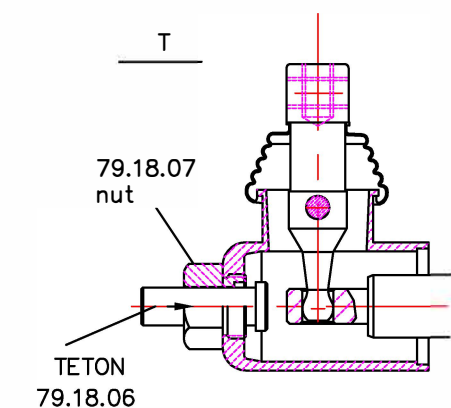
code	ескиз feature	code	ескиз feature	code	ескиз feature
KZ		KY		KI	
KZ1		KY1		KI1	
KZ0		KY0		KI0	
KZ01		KY01		KI01	
—	without hand control ; без лостова система за управление				

Table 11

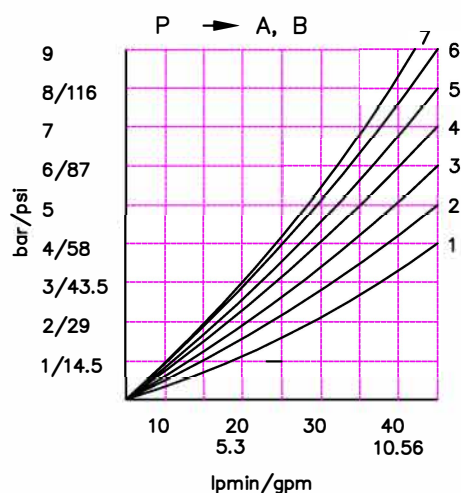
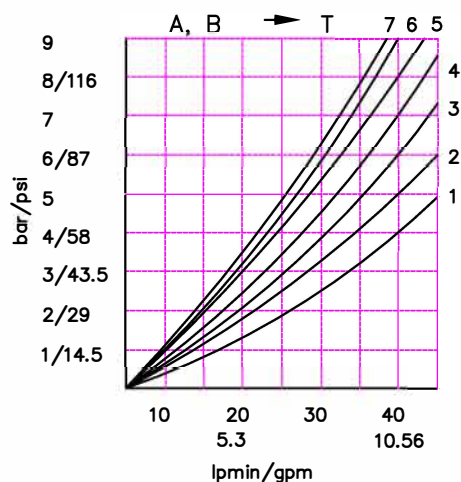
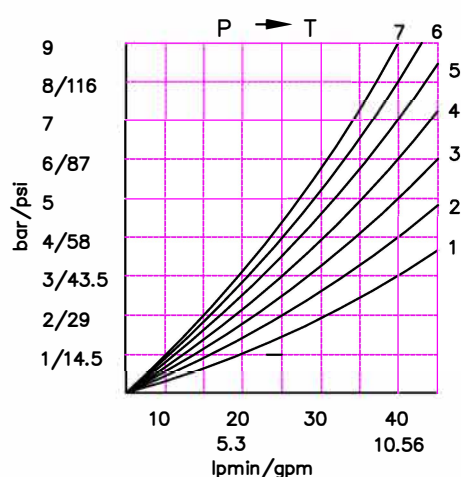
code	вид продължение на дебита	
C	отвор "N" затворен closed center	
C1	отвор "N" продължава за следващ консуматор part for power beyond sleeve (carry over)	
C2	отвор "N" продължава за следващ консуматор part for power beyond sleeve (carry over)	
—	отвор "N" е свързан с "T" without part for pressure carry over	
X	отвор "N" е винаги свързан с "T" power beyond ever to tank	

Table 12

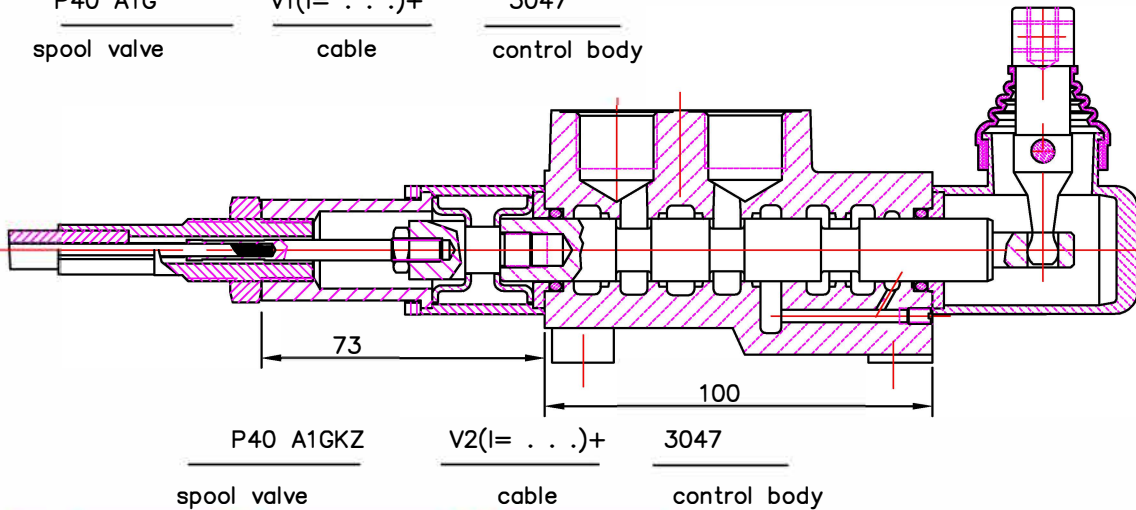
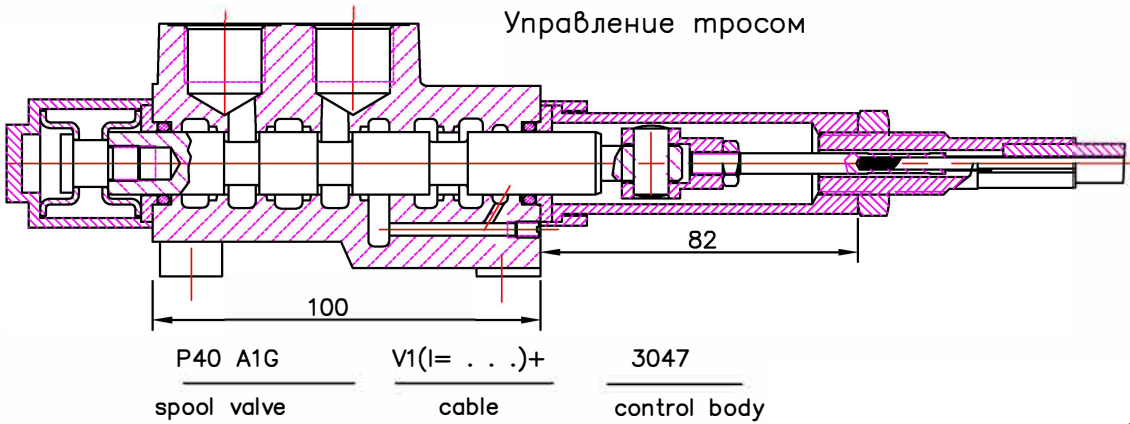
code	used connection ports ; присоединительные отверстия
11	P1 ; T1
12	P1 ; T2
21	P2 ; T1
22	P2 ; T2



P40 directional control valve



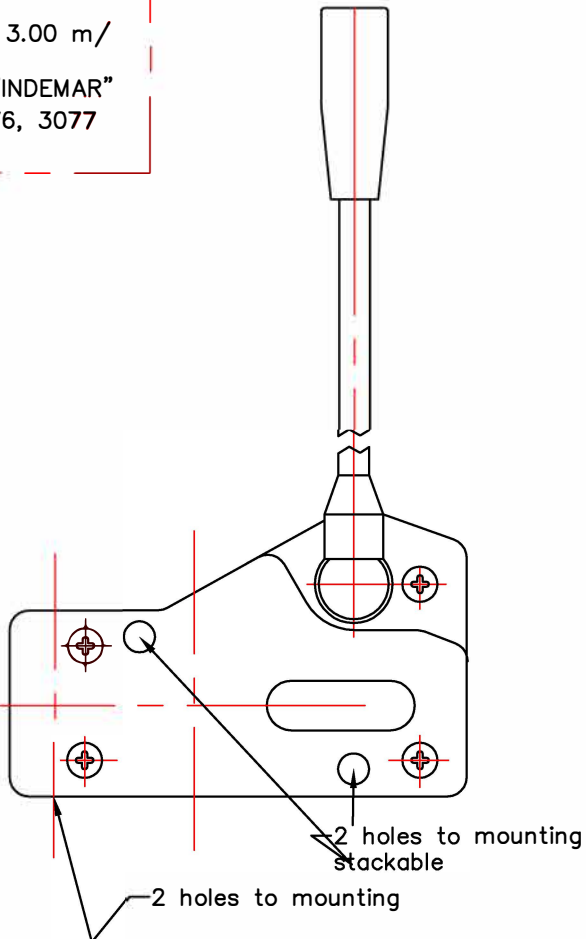
REMOTE CONTROLS
Управление тросом



Cable "INDEMAR" Cod. IT 3056 /l=1.00; 1.50; 2.00; 2.50; 3.00 m/
+control body "INDEMAR"
code 3047, 3076, 3077

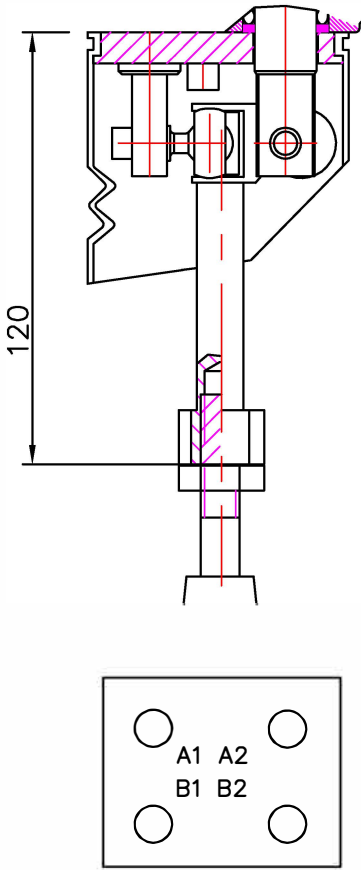
Technical specifications			
	3047	3076	3077
Stroke	13+13 mm	13+13 mm	13+13 mm
Max. load	45 kg	45 kg	45 kg
Level ratio	10:1	10:1	10:1
Lock in neutral	No	No	Yes
Antireverse lock	No	Yes	No
Body colour	Black	Black	Black
Cables type	Heavy Duty	Heavy Duty	Heavy Duty
Operating temperature	-40/+80C	-40/+80C	-40/+80C

High solidity controls for easy mounting on every type of distributor. They can be mounted stand alone or packed together.
They use push-pull heavy duty cables that provide a positive smooth operating lever and are manufactured in three different models to meet different needs of Clients.

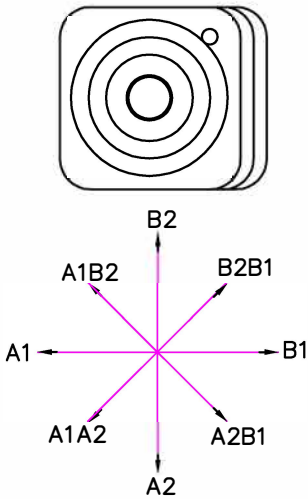


JOYSTICK "+"

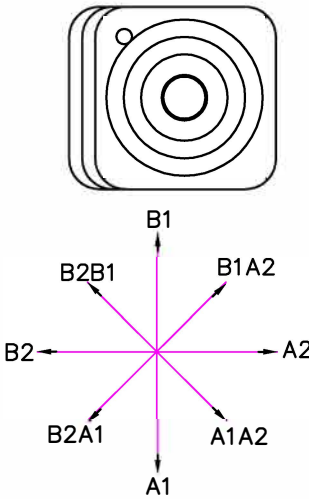
This control gives the possibility to operate, at the same time two spools with a "+" movement.



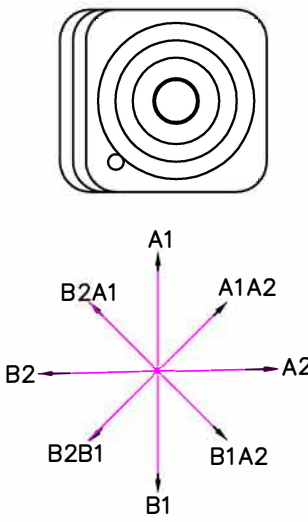
standard version 1



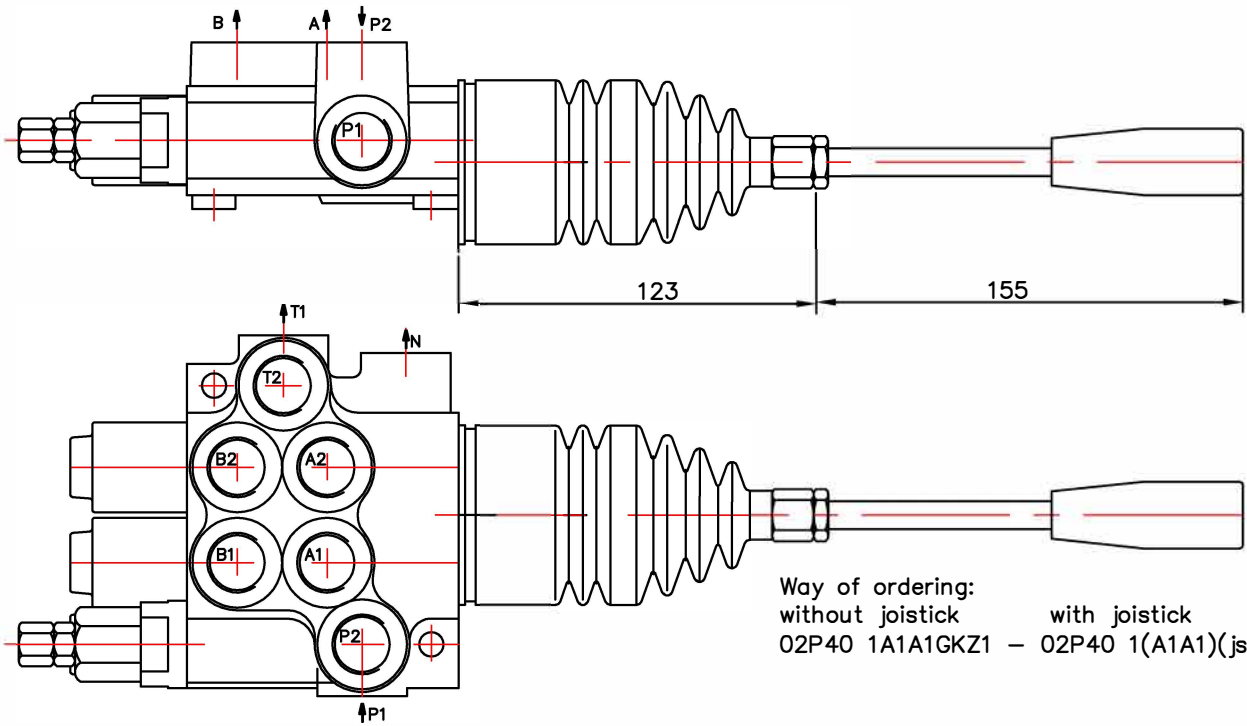
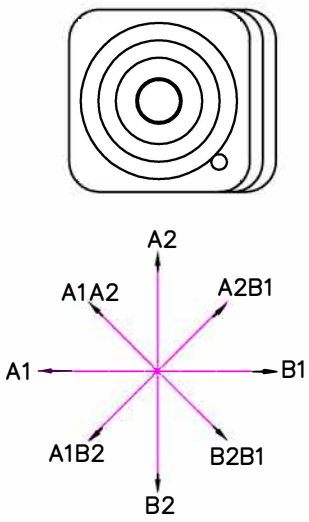
standard version 2



standard version 3

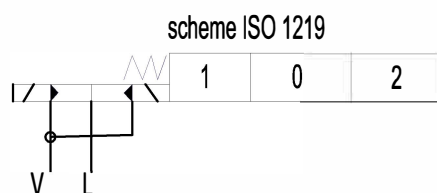
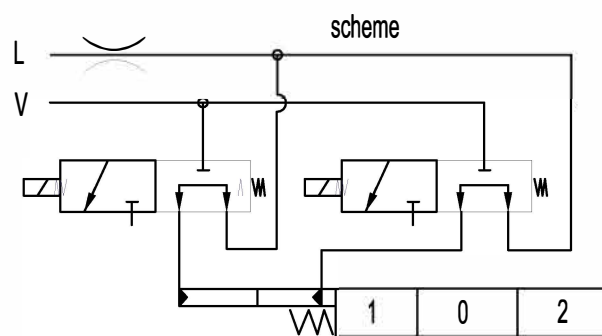
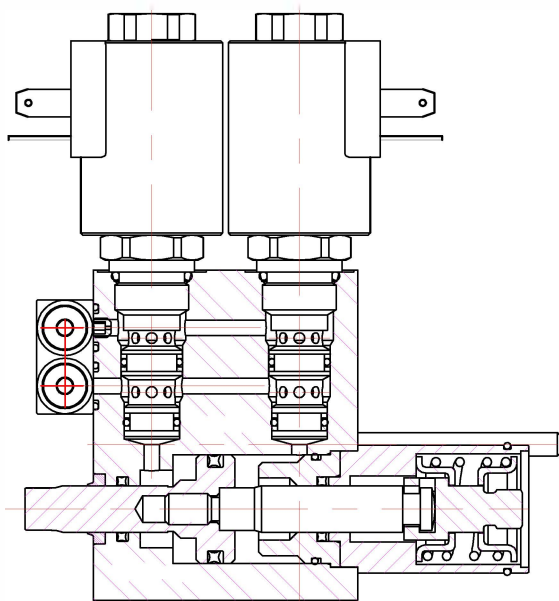


standard version 4



directional control valve P40

ED3 – electro-hydraulic control ON–OFF
 Электрогидравлический контрол ON–OFF



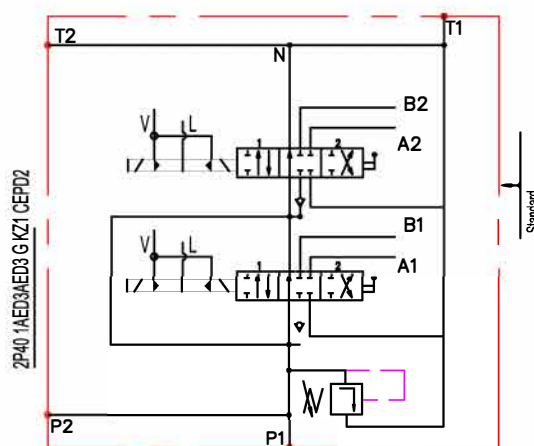
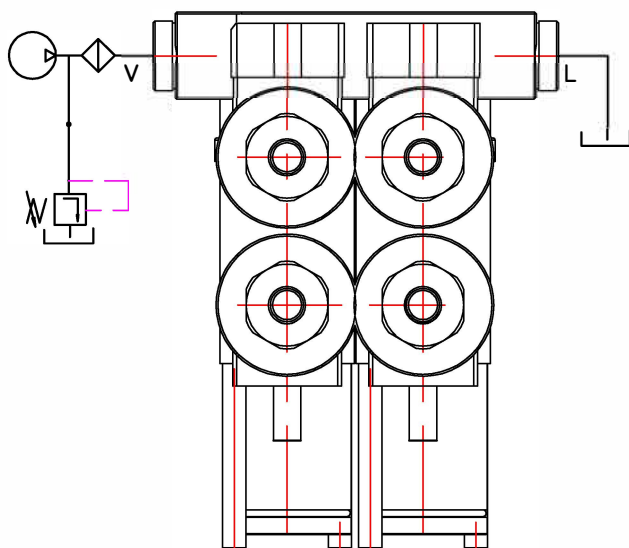
Operating pressure min 10 bar(145 psi)
 max 50 bar(725 psi)
 Max operating pressure in L (T line) 25 bar(360 psi)

Solenoid operating features
 Nominal voltage tolerance $\pm 10\%$
 Power rating 24W
 Duty cycle 100 %

Ordering codes

3-way solenoid valve–SV08–33
 coil P40ED3–G–12VDC
 coil P40ED3–G–24VDC

Collector kit for external pilot and drain – CEED...(1,2,3 ...) Коллектор для внешнего питания управления и слив



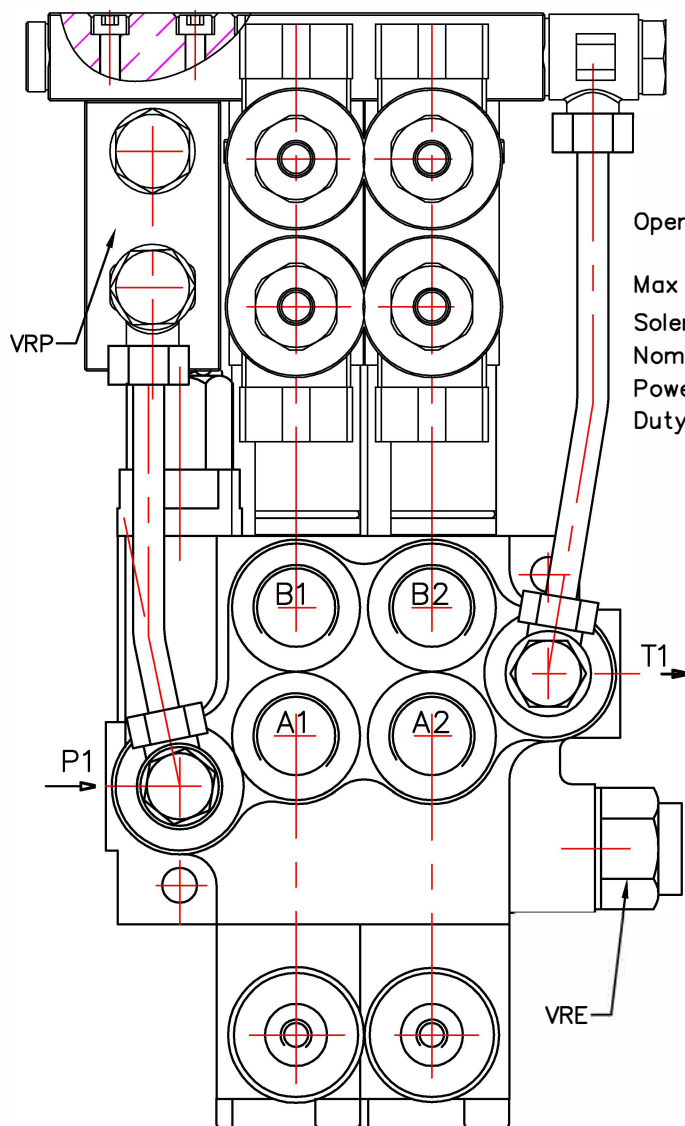
Ordering example

2P40–1A1ED3A1ED3 G KZ1–CEED2–12VDC

Ordering codes (BSP threads)

CEED1P40	Kit for 1 section
CEED2P40	Kit for 2 section
CEED3P40	Kit for 3 section
CEED4P40	Kit for 4 sektion

ED3 – electro-hydraulic control ON-OFF
Электрогидравлический контрол ON-OFF



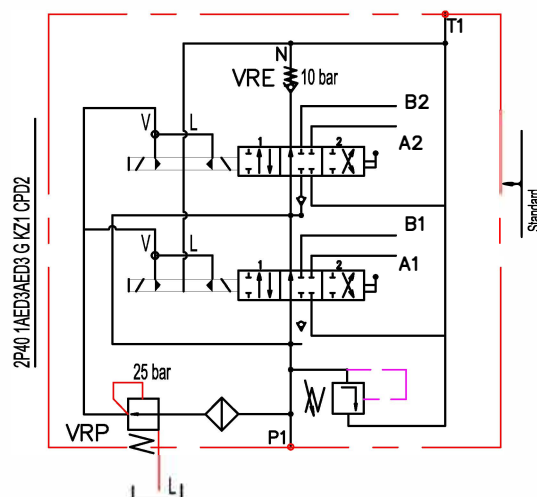
Ordering example

2P40-VRP- 1A1ED3A1ED3 G KZ1-CED2-VRE-12VDC

Order codes

3-way solenoid valve-LSV2-08-3C
coil P40ED3-G-12VDC
coil P40ED3-G-24VDC

Operating pressure	min 10 bar(145 psi) max 50 bar(725 psi)
Max operating pressure in L (T line)	25 bar(360 psi)
Solenoid operating features	
Nominal voltage tolerance	±10%
Power rating	24W
Duty cycle	100 %



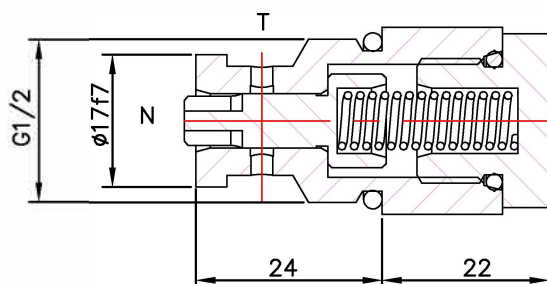
Colector kit

CED1
CED2
CED3
CED4
.....

Ordering codes BSP threads

Kit for 1 section
Kit for 2 section
Kit for 3 section
Kit for 4 sektion

Back pressure valve VRE-P40 Клапан подпорный на слив



Pressure drop N-T

