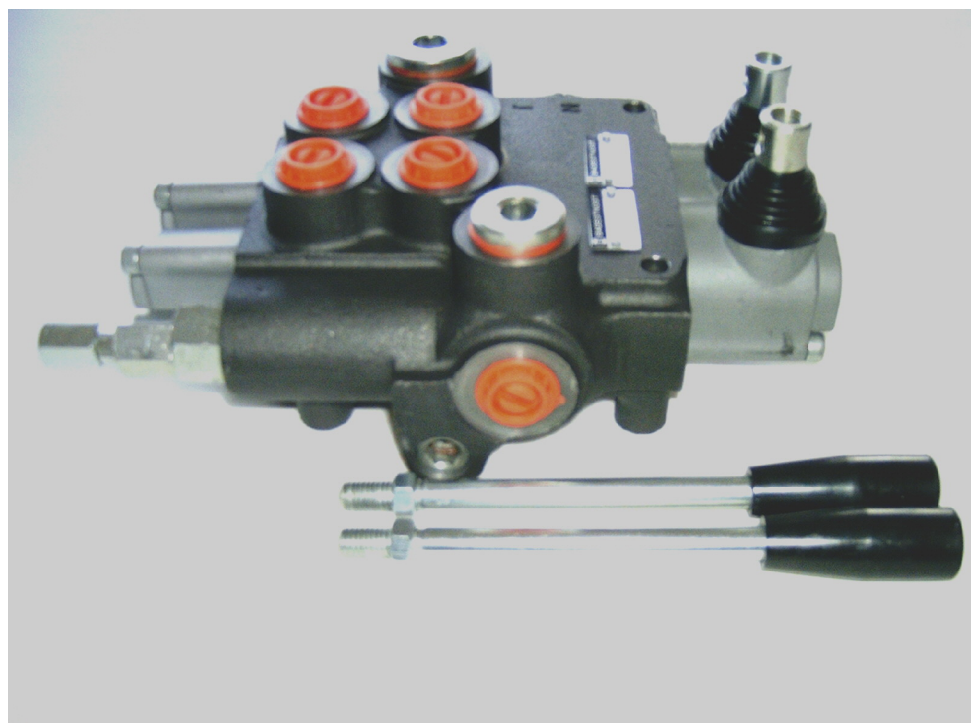


HYDRAULIC DIRECTIONAL CONTROL VALVES РАСПРЕДЕЛИТЕЛИ ГИДРАВЛИЧЕСКИЕ



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 гидротрассах, разгрузки насоса в нейтральной позиции золотников.

Specifications

Основные показатели:

1. Valve monoblock

Конструктивное исполнение

моноблок

2. Mounting

Крепление

3 bolts M8

3. Pressure connection

Присоединительные отверстия

internal thread

4. Ambient temperature

Температура воздуха

внутренние резьбы

5. Pressure medium

Рабочая жидкость

-40C...+60C

6. Viskosity

Кинематическая вязкость

mineral oil based hydraulic oil

7. Fluid temperature

Температура жидкости

12...800 mm²/s permissible range

9. Max. operating pressure

Давление max. bar

20...100 mm²/s recommended range

-15C...+80C

Oil contamination 10 to NAS1638

P = 250 bar

T = 50 bar

A, B = 300 bar

8 cm³/min at 100 bar

10. Internal (46 mm²/s) Leakage

Внутренние потери (A, B – T)

11. Nominal flow

Расход рабочей жидкости

80 l/min (see "operating" diagram)

12. Spool stroke

Ход золотника

± 7 mm

13. Actuating force

Усилие на движение золотника

< 220 N in spool axis direction

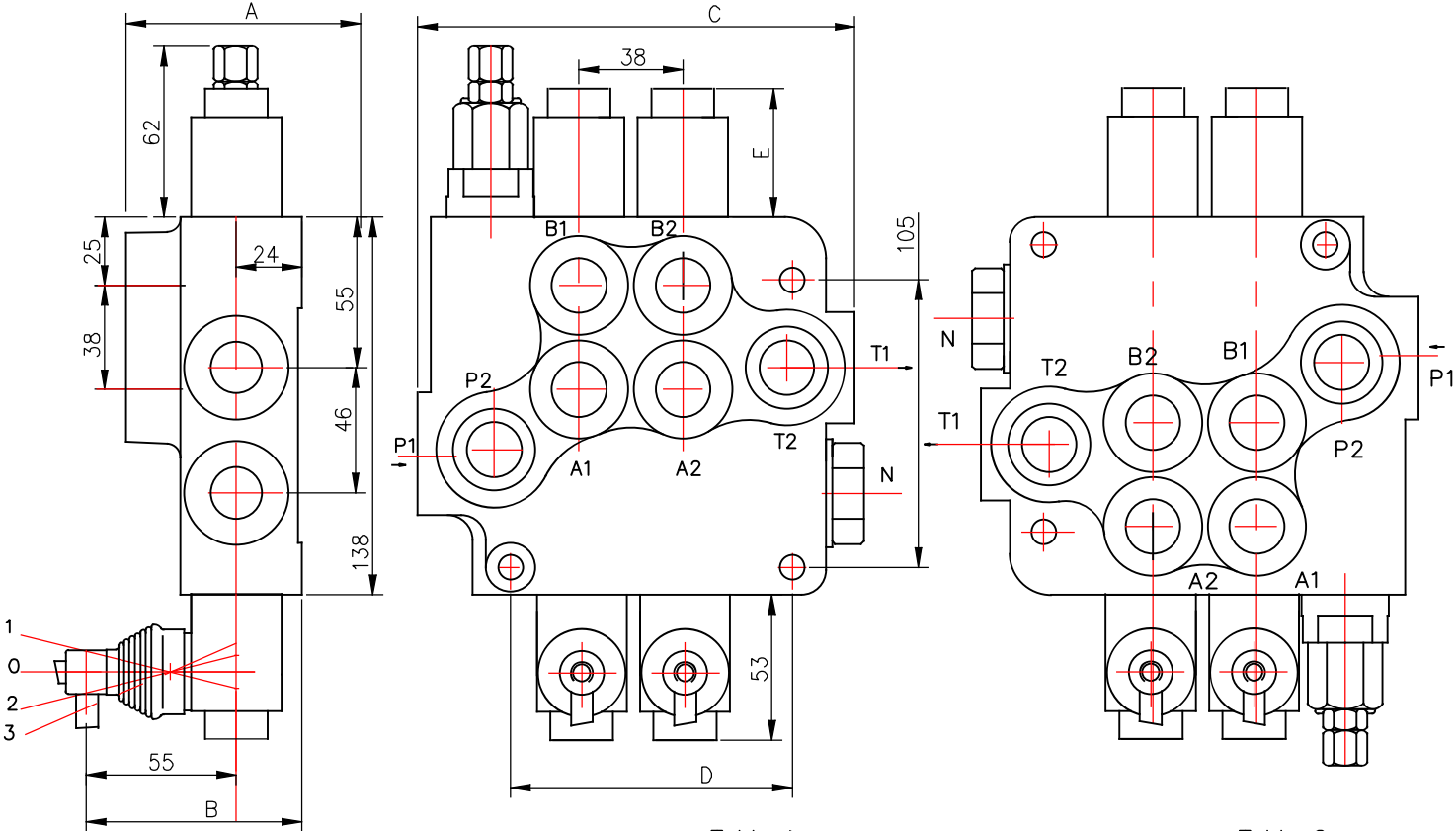


Table 1

	A	B	C	D	P1	P2	T1	T2
P80	65	79	107	65	*	*	—	—
2P80	80	94	160	103	*	*	*	*
3P80	80	94	198	141	*	*	*	*
4P80	80	94	236	179	*	*	*	*
5P80	80	94	274	217	*	*	*	*
6P80	80	94	312	255	*	*	*	*

Table 2

Spool control	E
1, 4, 5, 6, 7, 8, 9, 10, 11,	40
2, 3, 12, 14	72
13	44

0 block with common check valve
распределитель с общим клапаном

2 number of spools
количество золотников

P80 directional control valve type ...
распределитель типа ...

R inlet high pressure – right
вход давления с правой стороны

relief valve; – standard setting 175 bar;
(svr) relief valve blanking plug; без предопр. клапана
(4) Spring for 160 to 315 bar; standard setting 220 bar;

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

A first spool distribution type
характеристика первого золотника

1 spool control/detend and ets./
контроль золотника/фиксация и другие/

A second spool distribution type
тип второго золотника

1 spool control/detend and estr./
контроль золотника/фиксация и другие/

G ports /treads/
резьбовые отверстия

KZ1 general operation feature
тип ручного управления

T with "teton"
исполнение ручного управления с "тетон"

H operation feature /pneumatic, .../
другое управление

E with electric switch
с электрическим выключателем

C2 high pressure carry over
продолжител потока высокого давления

11 connection ports in use
присоединительные отверстия

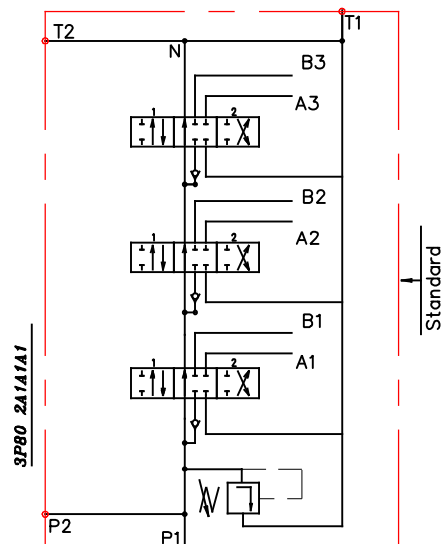
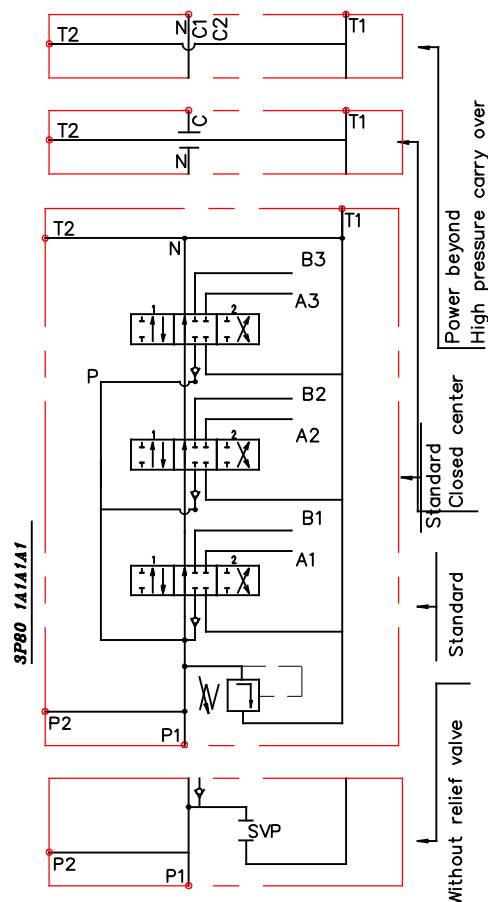


Table 3

code	Number of spools
1	1
2	2
3	3

ets.

Table 4

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

Table 5

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

Table 6

code	spool control
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	

Table 7

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

Table 8

code	грузое управление ; operation feature
P	пневматическое on-off pneumatic control; 5–10 bar ; ports G1/4
H	гидравлическое on-off hydraulic control ; pn = 5 – 20 bar ; ports G1/4

directional control valve P80

P80

Table 9

code	ports (threads) ; присоединительные отверстия			
	P	A ; B	T	N
M	M22x1.5	M22x1.5	M26x1.5	M26x1.5
G	G1/2	G1/2	G3/4	G3/4
S	7/8-14UNF	7/8-14UNF	1 1/16-14UNF	1 1/16-14UNF

kind of hand control ; вид ручного управления

Table 10

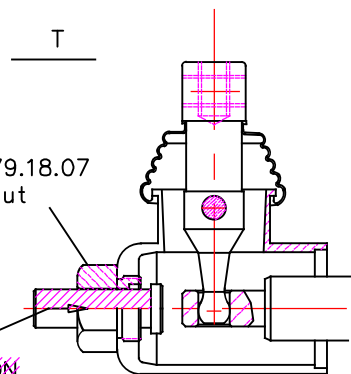
code	ескиз feature	code	ескиз feature	code	ескиз feature
KZ		KY		KI	
KZ1		KY1		KI1	
KZ0		KY0		KI0	
KZ01		KY01		KI01	
— without hand control ; без лостова система за управление					

Table 11

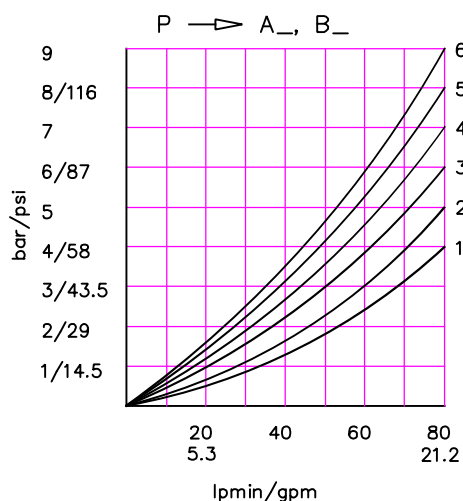
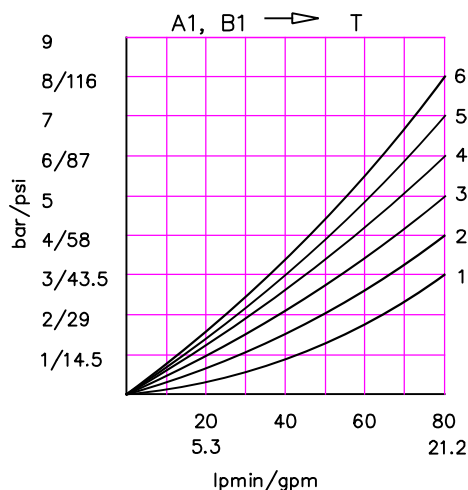
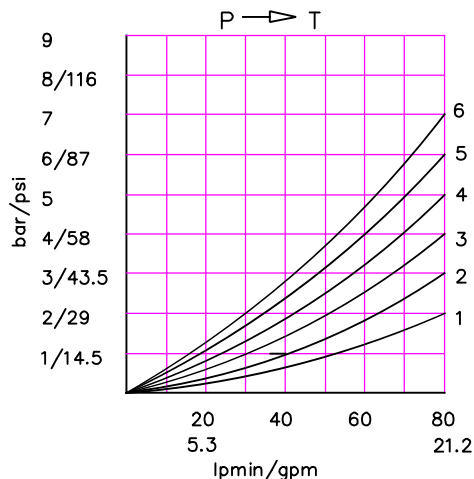
code	вид продължение на дебита	
C	отвор "N" затворен closed center	
C2	отвор "N" продължава за следващ консуматор part for power beyond sleeve (carry over)	
—	отвор "N" е свързан с "T" without part for pressure carry over	
X	отвор "N" е винаги свързан с "T" power beyond ever to tank	

Table 12

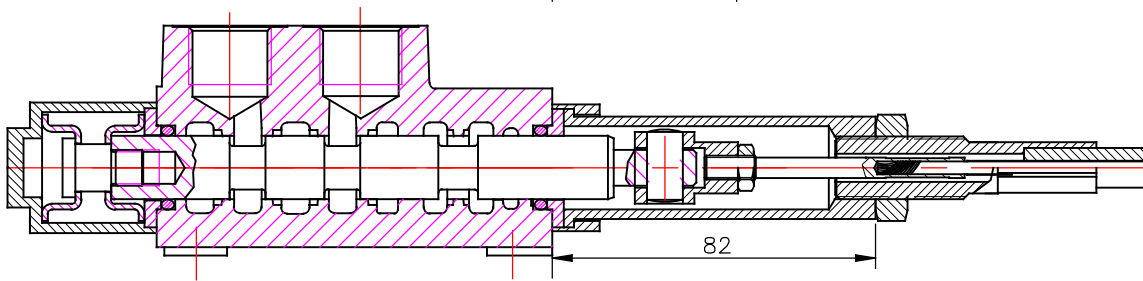
code	used connection ports ; присоединительные отверстия
11	P1 ; T1
12	P1 ; T2
21	P2 ; T1
22	P2 ; T2



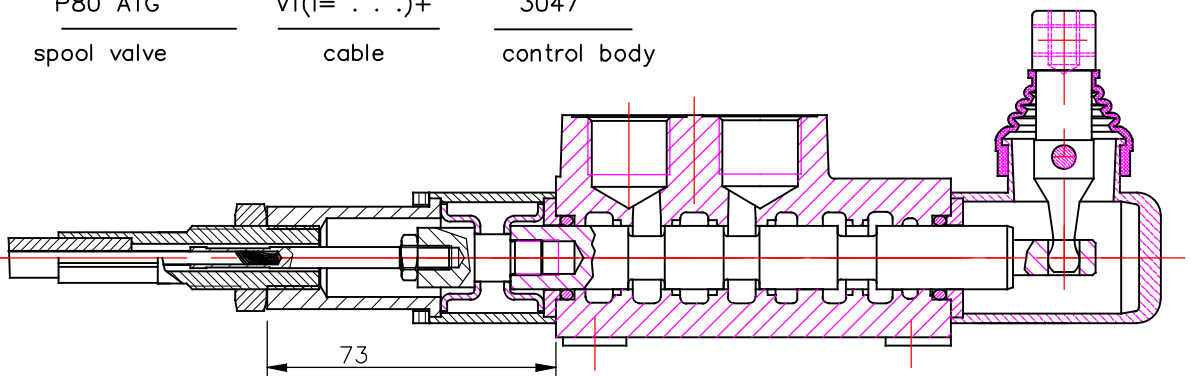
P80 directional control valve



REMOTE CONTROLS
Управление тросом



P80 A1G V1(l= . . .)+ 3047
spool valve cable control body



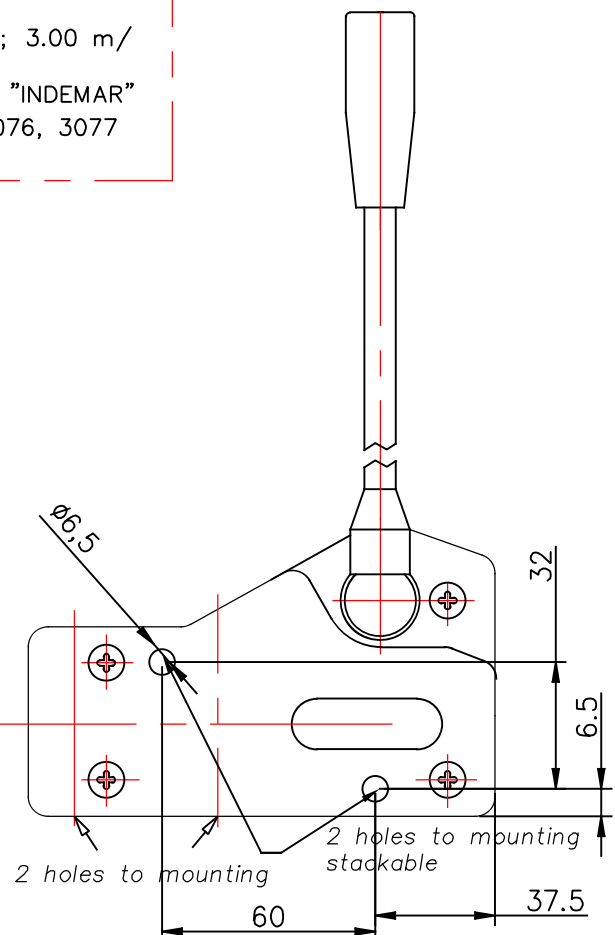
P80 A1G V2KZ1(l= . . .)+ 3047
spool valve cable control body

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

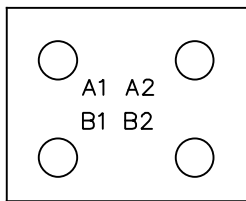
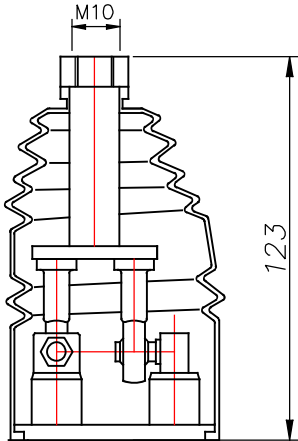
	3047	3076	3077
Stroke	13+13 mm	13+13 mm	13+13 mm
Max. load	45 kg	45 kg	45 kg
Level ratio	10:1	10:1	10:1
Lock in neutral	No	No	Yes
Antireverse lock	No	Yes	No
Body colour	Black	Black	Black
Cables type	Heavy Duty	Heavy Duty	Heavy Duty
Operating temperature	-40/+80C	-40/+80C	-40/+80C

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 a three different models to meet different needs of Clients.

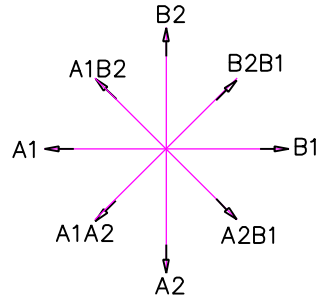
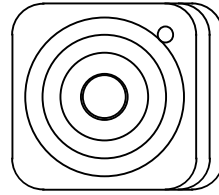


JOYSTICK "+"

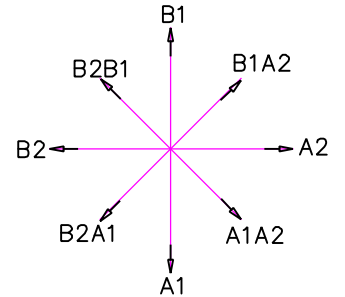
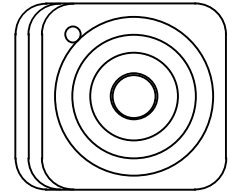
This control gives the possibility to operate, at the same time two spools with a "+" movement.



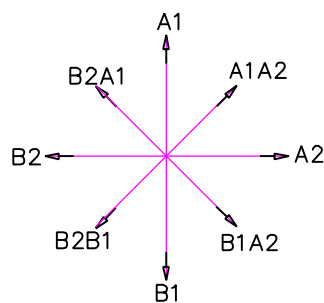
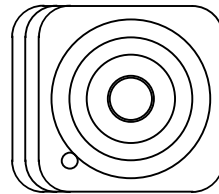
standard version 1



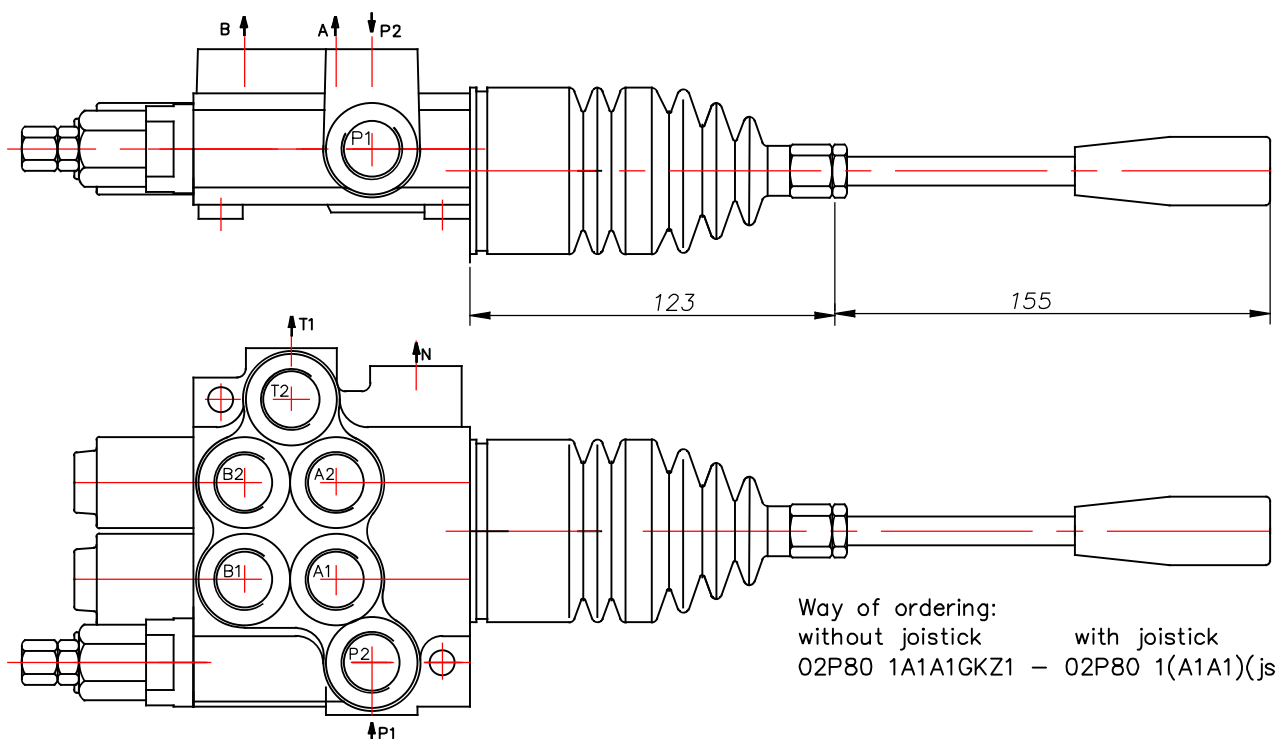
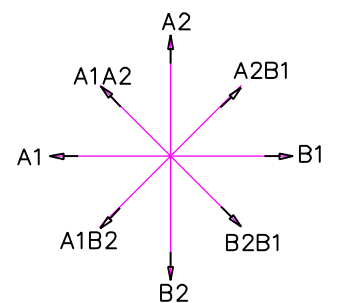
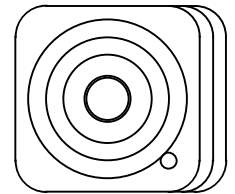
standard version 2



standard version 3



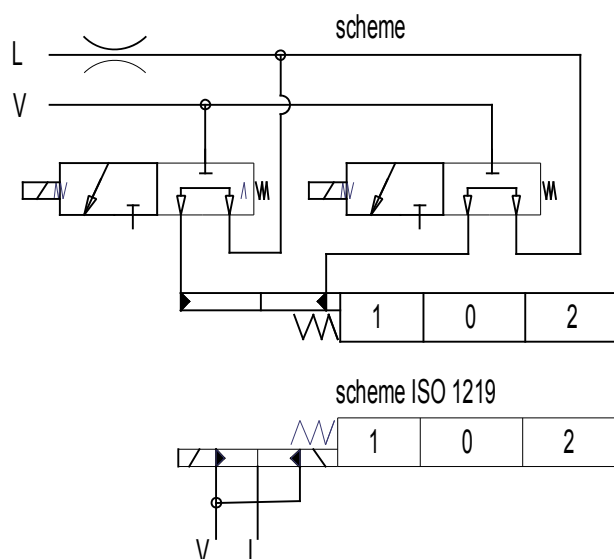
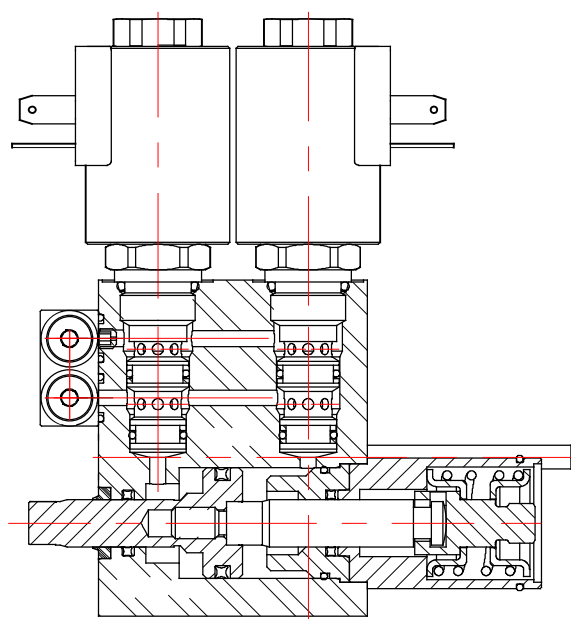
standard version 4



Way of ordering:
without joystick with joystick
02P80 1A1A1GKZ1 – 02P80 1(A1A1)(js+3)G

directional control valve P80

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)

Ordering codes

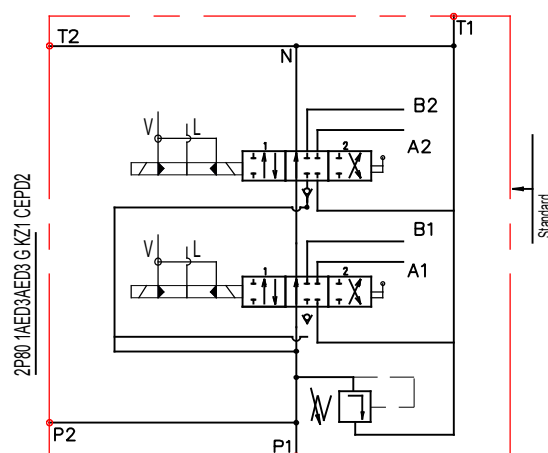
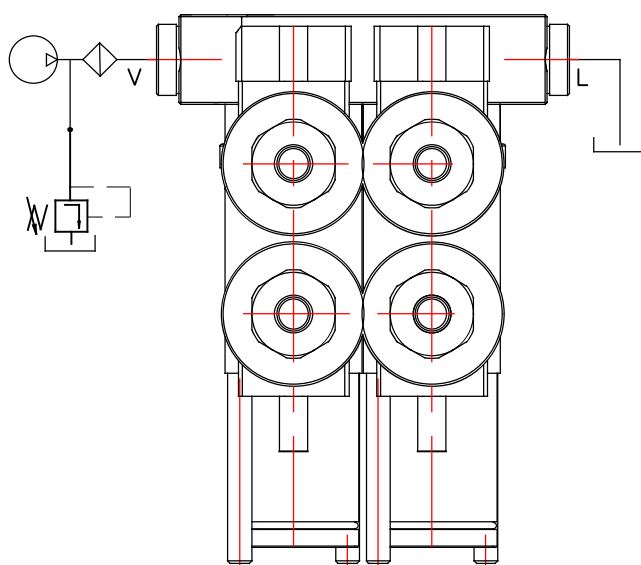
3–way solenoid valve–SV08–33
coil P80ED3–G–12VDC
coil P80ED3–G–24VDC

Solenoid operating features

Nominal voltage tolerance ±10%
Power rating 24W
Duty cycle 100 %

Collector kit for external pilot and drain – CEED...(1,2,3 ...)

Колектор для внешнего питания управления и слив



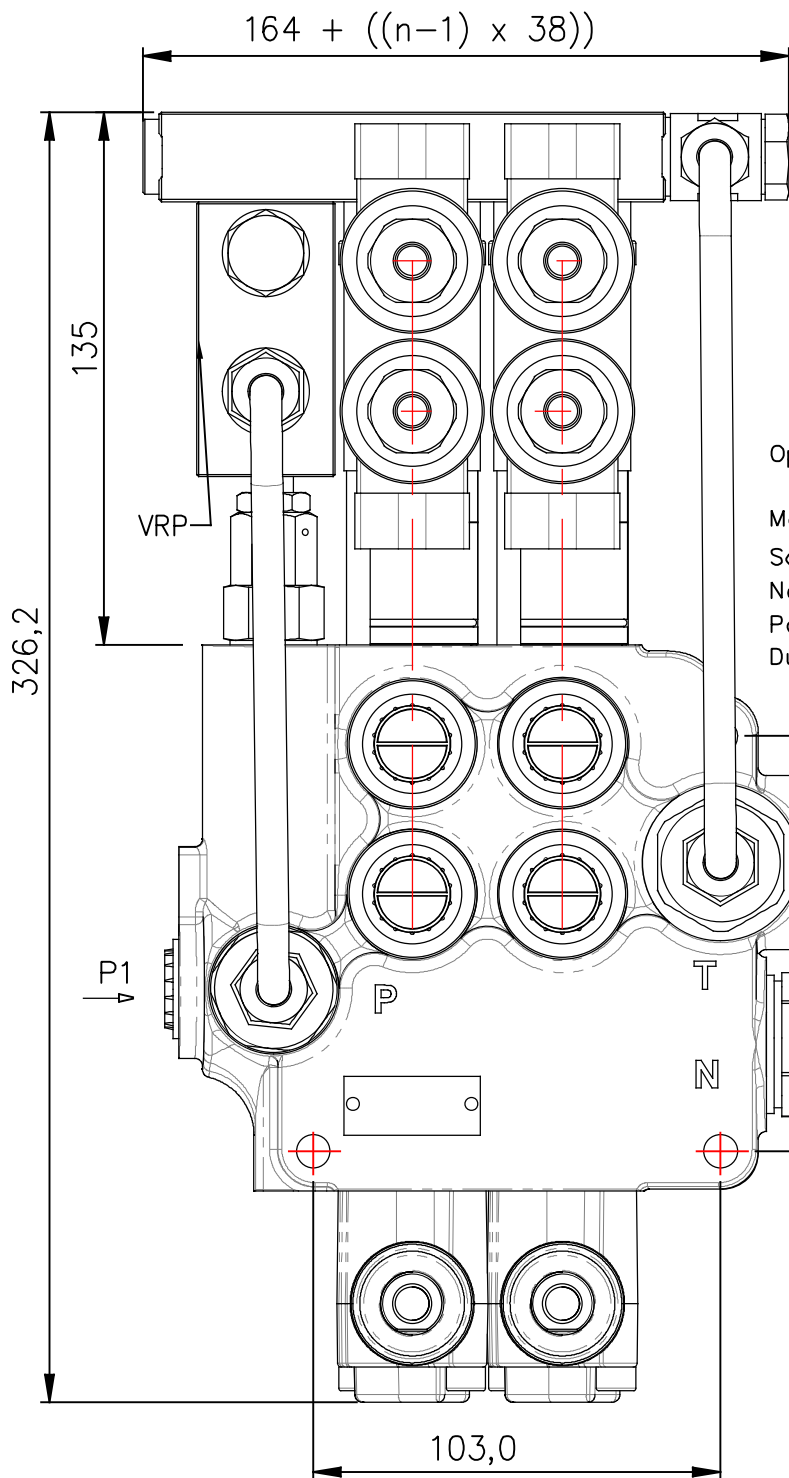
Ordering example

2P80 1A1ED3A1ED3 G KZ1–CEED2–12VDC

Ordering codes (BSP threads)

CEED1P80	Kit for 1 section
CEED2P80	Kit for 2 section
CEED3P80	Kit for 3 section
CEED480	Kit for 4 sektion
...	

directional control valve P80

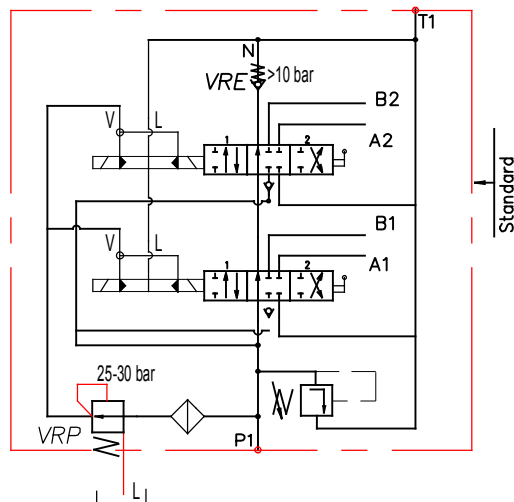


ED3 – electro-hydraulic control ON–OFF
Электрогидравлический контрол ON–OFF

Order codes

3–way solenoid valve–LSV2–08–3C–NNN
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 $\pm 10\%$
Power rating 24W
Duty cycle 100 %



Ordering example

2P80 VRP 1A1ED3A1ED3 G KZ1–CED2–VRE–12VDC

Colector kit

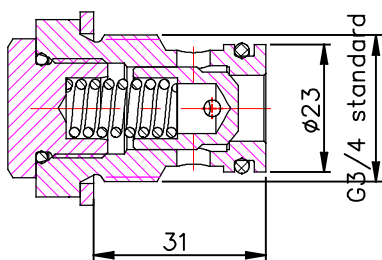
CED1Z80 *
CED2P80
CED3P80
CED480
...

**Ordering codes
BSP threads**

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

Back pressure valve VRE–P80

Клапан подпорный на слив



Pressure drop N–T

