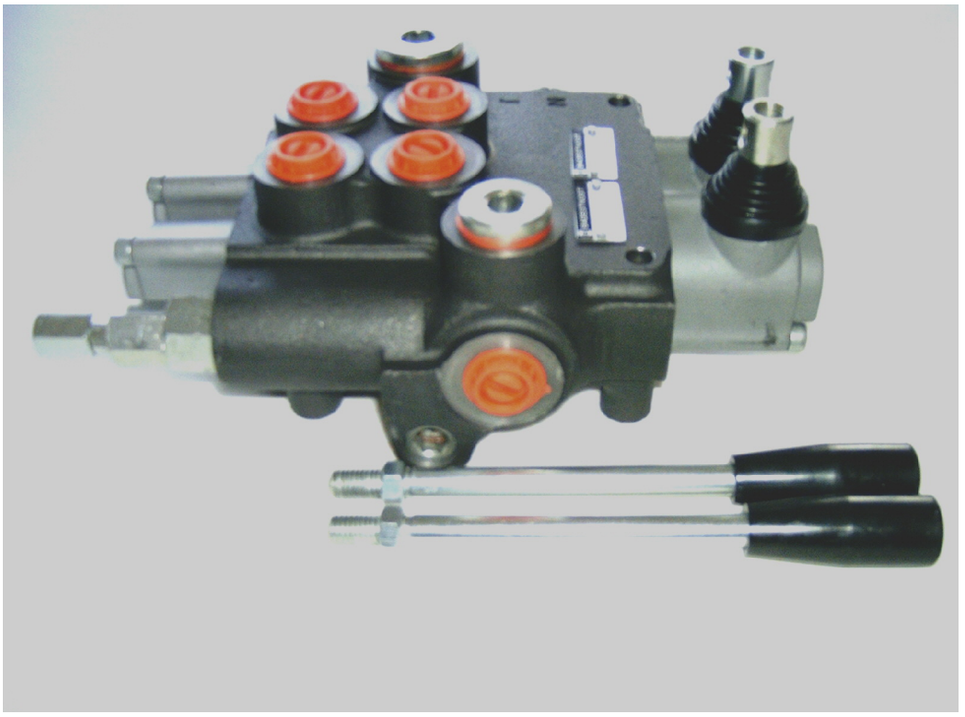
HYDRAULIC DIRECTIONAL CONTROL VALVES
РАСПРЕДЕЛИТЕЛИ ГИДРАВЛИЧЕСКИЕ



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 гидролиниях, разгрузки насоса в нейтральной позиции золотников.

Specifications
Основные показатели:

1. Valve monoblock Конструктивное выполнение	моноблок
2. Mounting Крепление	3 bolts M 8
3. Pressure connections Присоединительные отверстия	internal thread внутренние резьби
4. Ambient temperature Температура воздуха	-40C…+60C
5. Pressure medium Рабочая жидкость	mineral oil based hydraulic oil
6. Viskosity Кинематическая вязкость	12…800 mm²/s permissible range 20…100 mm²/s recommended range
7. Fluid temperature	- 15C…+80C
8. Filtration	Oil contamination 10 to NAS1638
9. Max. operating pressure Давление max. bar	P = 250 bar T = 50 bar A, B = 300 bar
10. Internal (46 mm²/s)Leakage Внутренние потери (A, B – T)	8 cm³/min at 100 bar
11. Nominal flow Разход рабочей жидкости	80 l/min (see “operating” diagram)
12. Spool stroke Ход золотника	± 7 mm
13. Actuating force Усилие на движения золотника	< 220 N in spool axis direction

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directional control valve P80

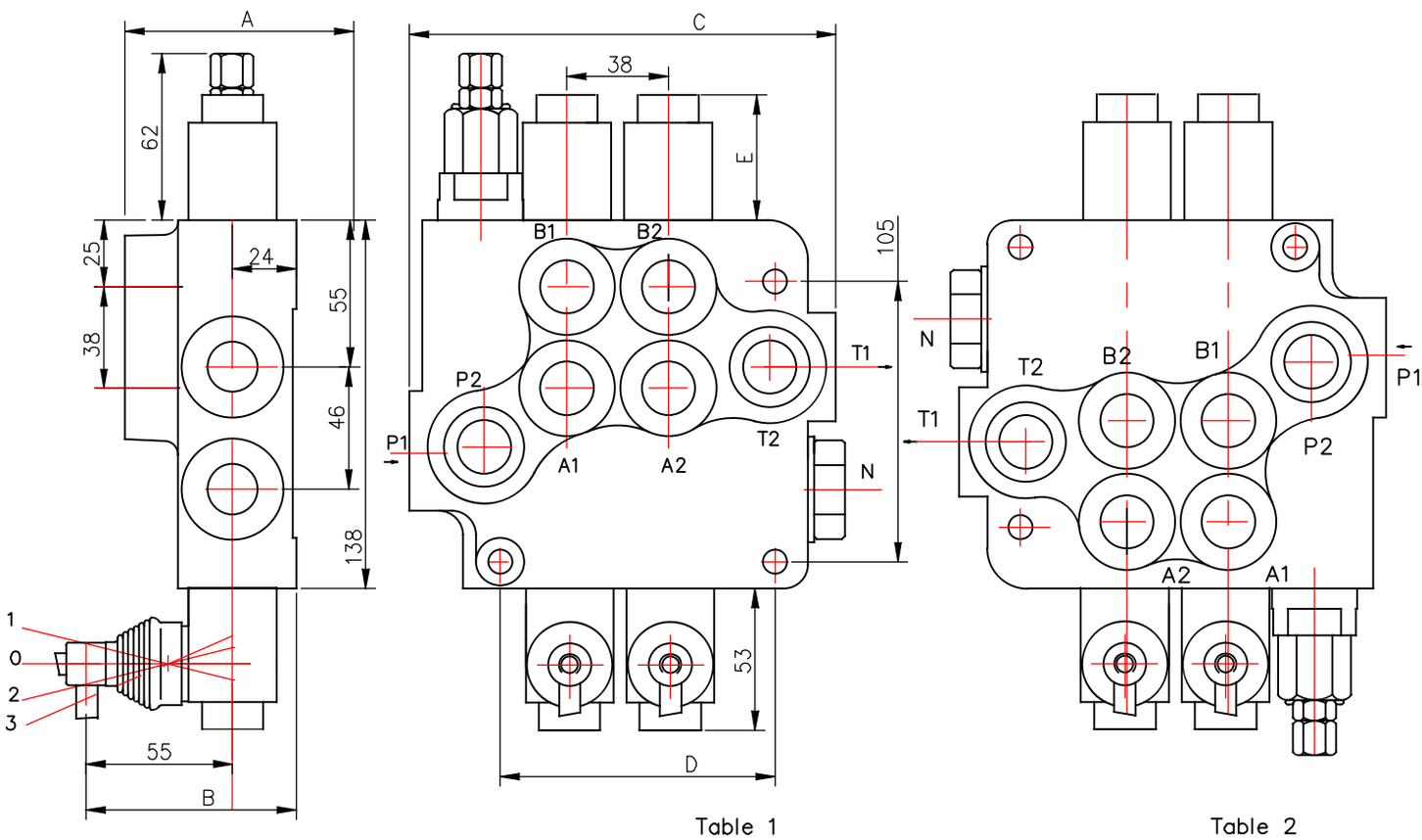

Table 1

	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	2	P80	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	relief valve; – standard setting 175 bar; (svp) relief valve blanking plug; без предохр. клапана (4) Spring for 160 to 315 bar; standard setting 220 bar;	way of distribution/parallel or .../ способ распределения потока	first spool distribution type характеристика первого золотника	spool control/detend and ets./ контрол золотника/фиксации и другие/	second spool distribution type вид второго золотника	spool control/detend and estr./ контрол золотника/фиксации и другие/	ports /treads/ резбовие отверстия	general operation feature вид ручного управления	with "teton" исполнение ручного управления с "метон"	operation feature /pneumatic, .../ другое управление	with electric switsh с електическим виключателем	high pressure carry over продолжител потока высокого давления	connection ports in use присоединительные отверстия

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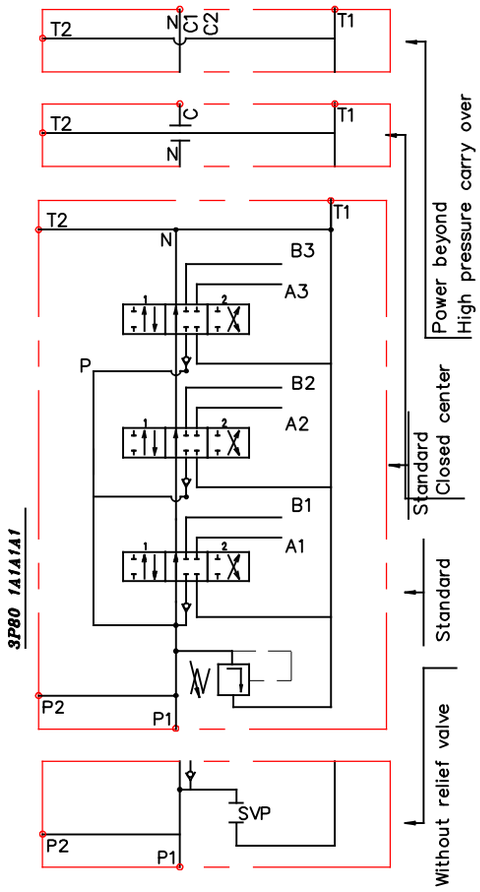

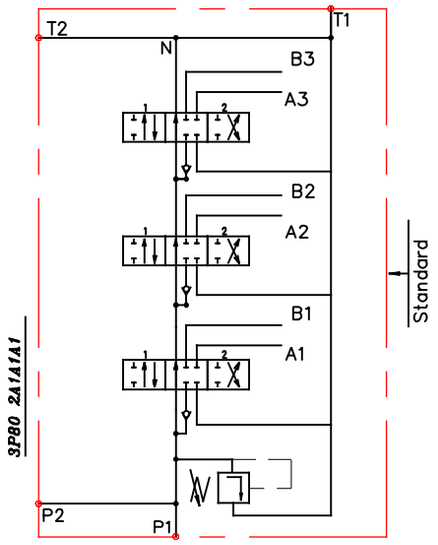

Table 3

code	Number of spools
	1
2	2
3	3

Table 4

code	way of distribution ; распределение потока
1	parallel ; паралельное
2	tandem(series parallel) ; серийно–паралельное

ets.

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	1 **0** 2
2	**1** **0** 2
3	1 **0** **2**
4	**0** 2
5	1 **0**
6	**1** 2
7	1 **2**
8	**1** **0** **2**
9	**1** **0**
10	**0** **2**
11	**1** **2**
12	1 0 2 **3**
13	**1** **0** **2** **3**

Table 7

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

Table 8

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

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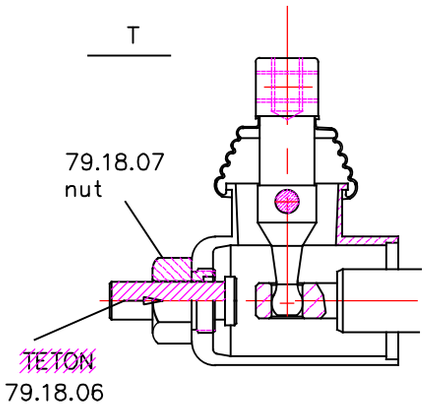
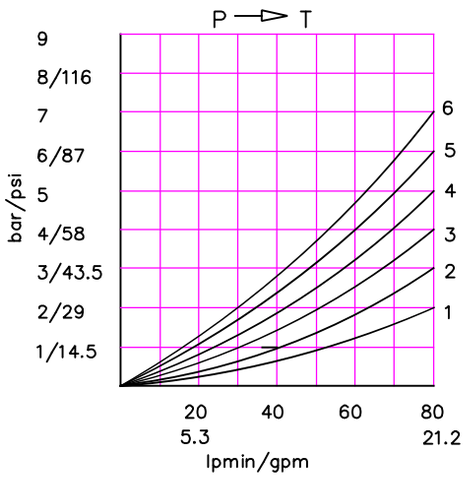
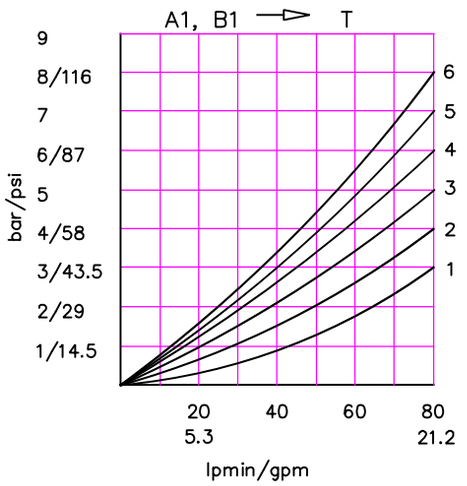
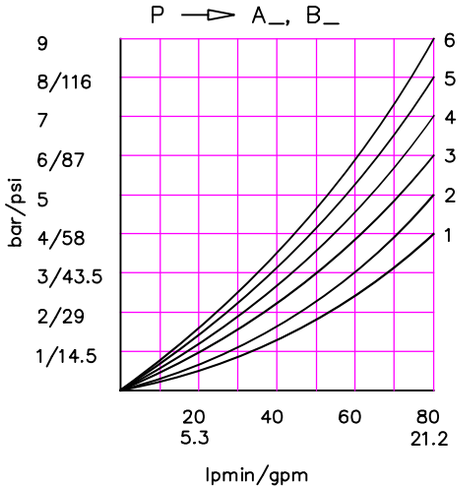
directional control valve P80



P80 directional control valve







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 ръчного управления

Table 10

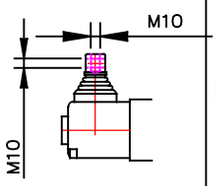
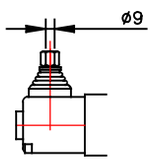
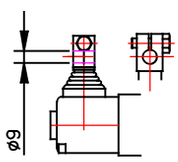
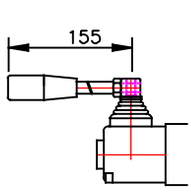
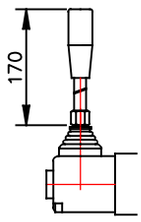
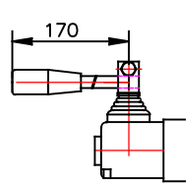
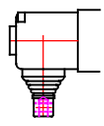
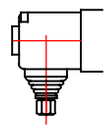
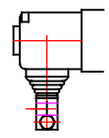
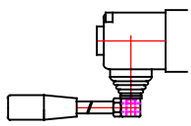
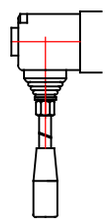
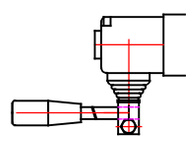
code	ескиз feature	code	ескиз feature	code	ескиз feature
KZ		KY		KI	
KZ1		KY1		KI1	
KZ0		KY0		KI0	
KZ01		KY01		KI01	
_	without hand control ; без лостова система за управление				

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)	G 1/2 M22x1.5
_	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

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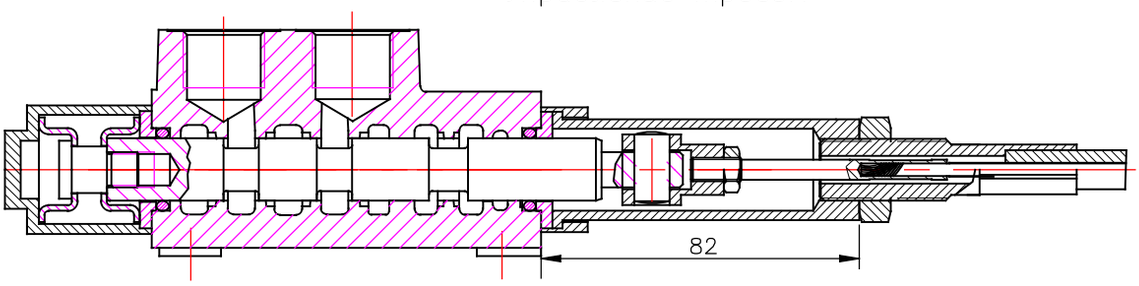
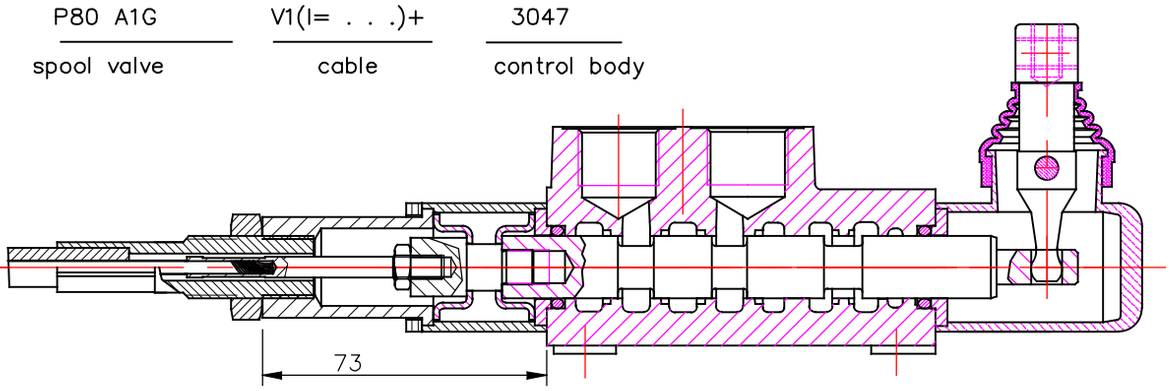
REMOTE CONTROLS
Управление тросом



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

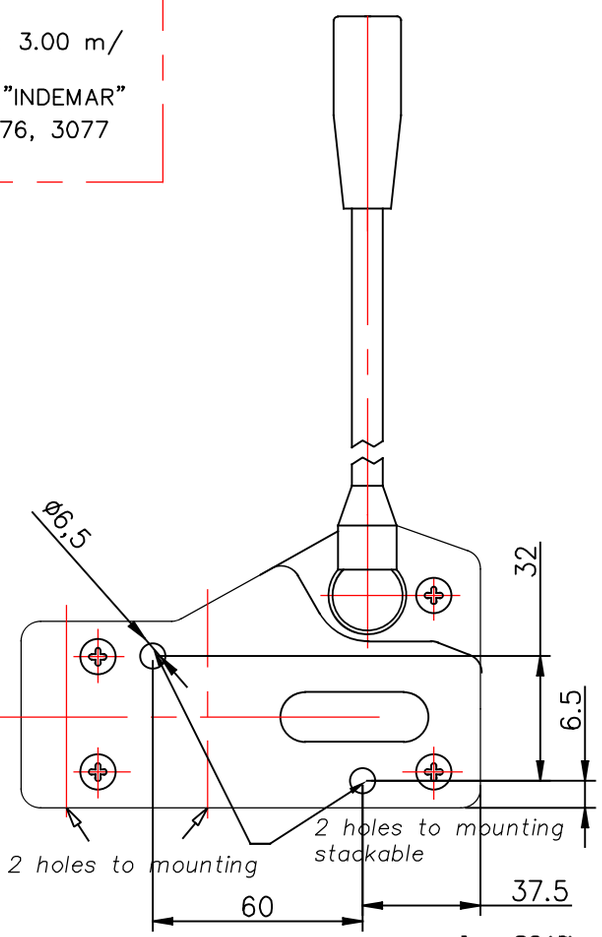


P80 A1G — spool valve
V2KZ1(l= . . .)+ — cable
3047 — control body

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 by mounted stand alone or packed together.
They use push–pull heavy duty cables that provide a positive smooth operating lever and are manifactured in a three differents models to meet different needs of Clients.

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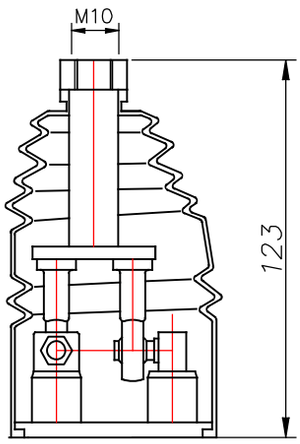
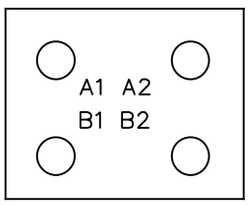
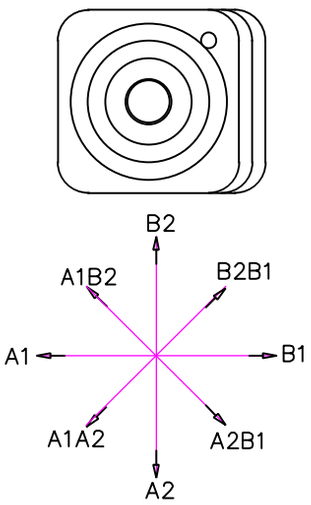
JOYSTICK "+"

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

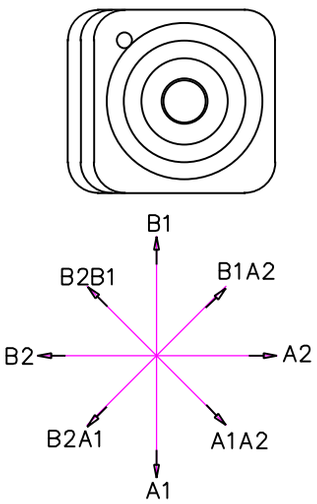




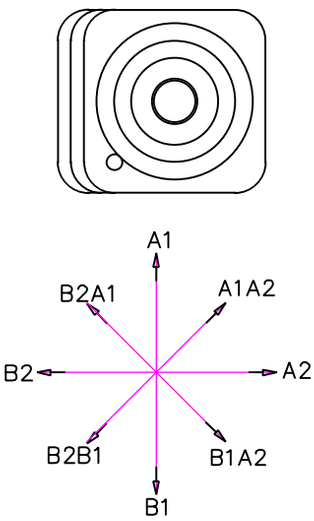
standard version 1



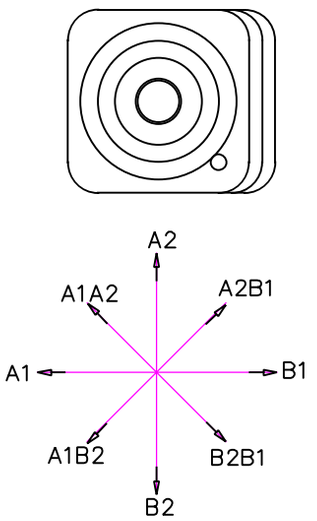
standard version 2

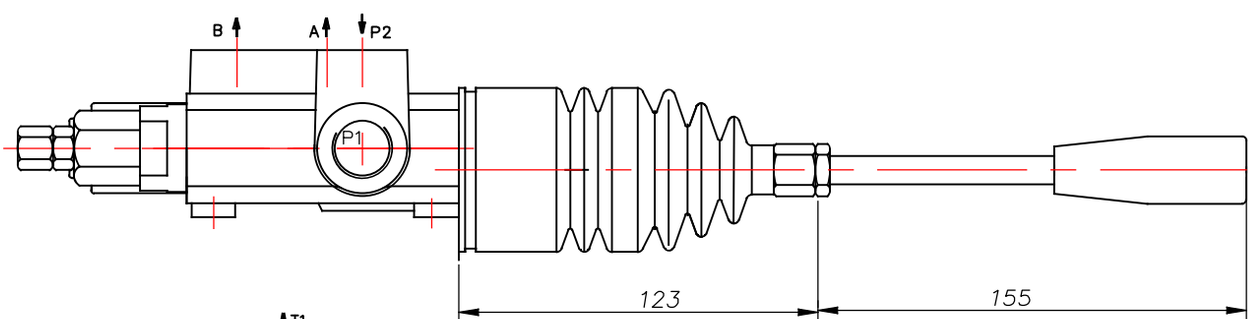


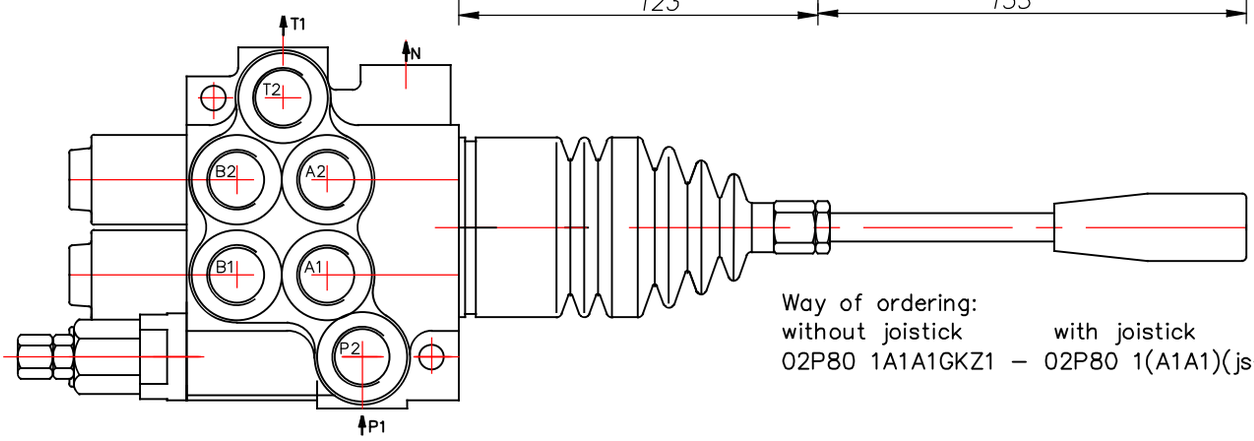
standard version 3



standard version 4







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

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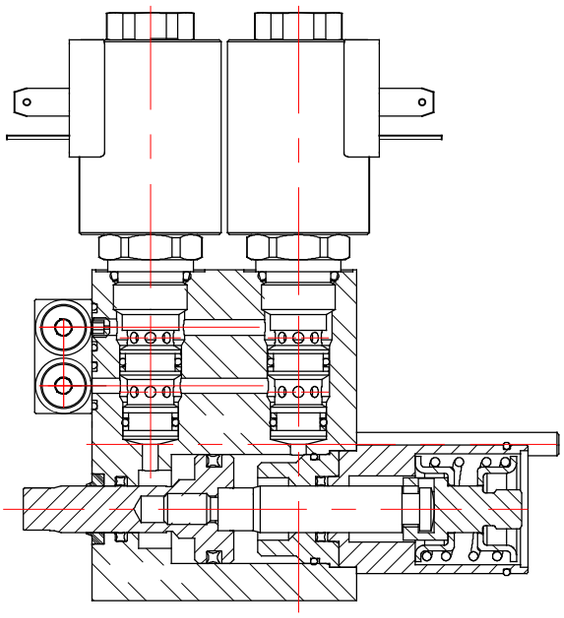
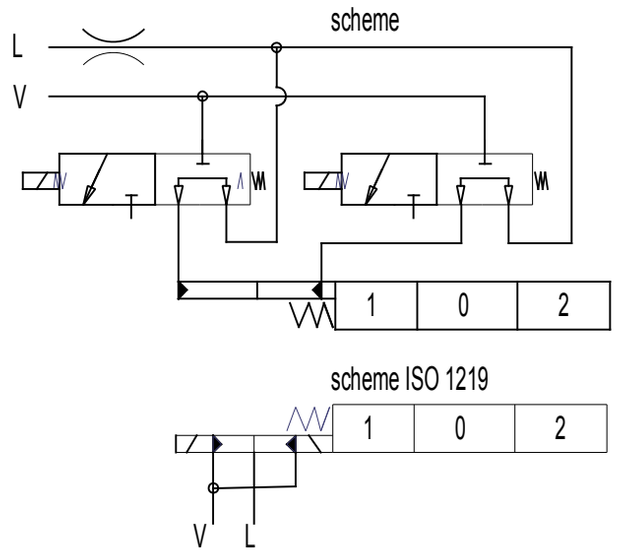
directional control valve P80

ED3 – electro–hydraulic control ON–OFF
Електрогидравлический контрол ON–OFF





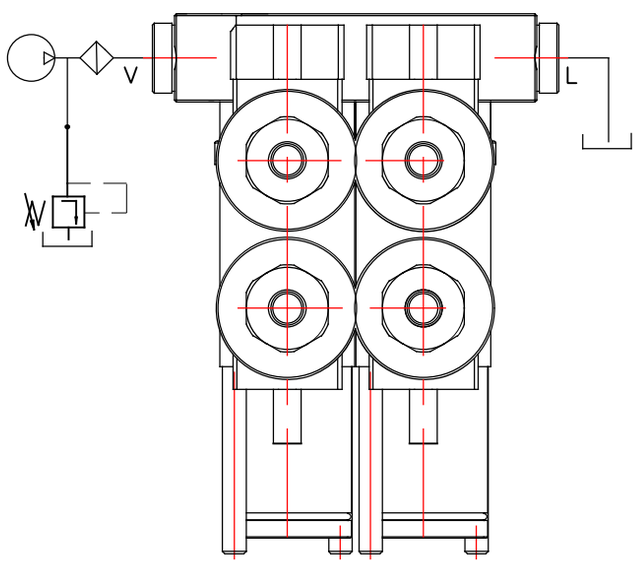
Operating pressure	min 10 bar(145 psi) max 50 bar(725 psi)
Max operating pressure in L (T line)	25 bar(360 psi)

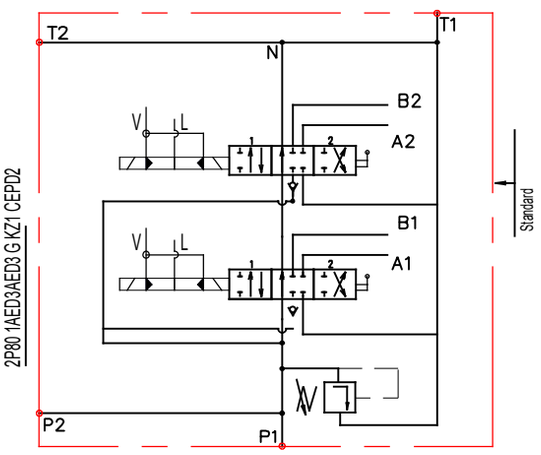
Ordering codes

3–wai 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
. . . .	

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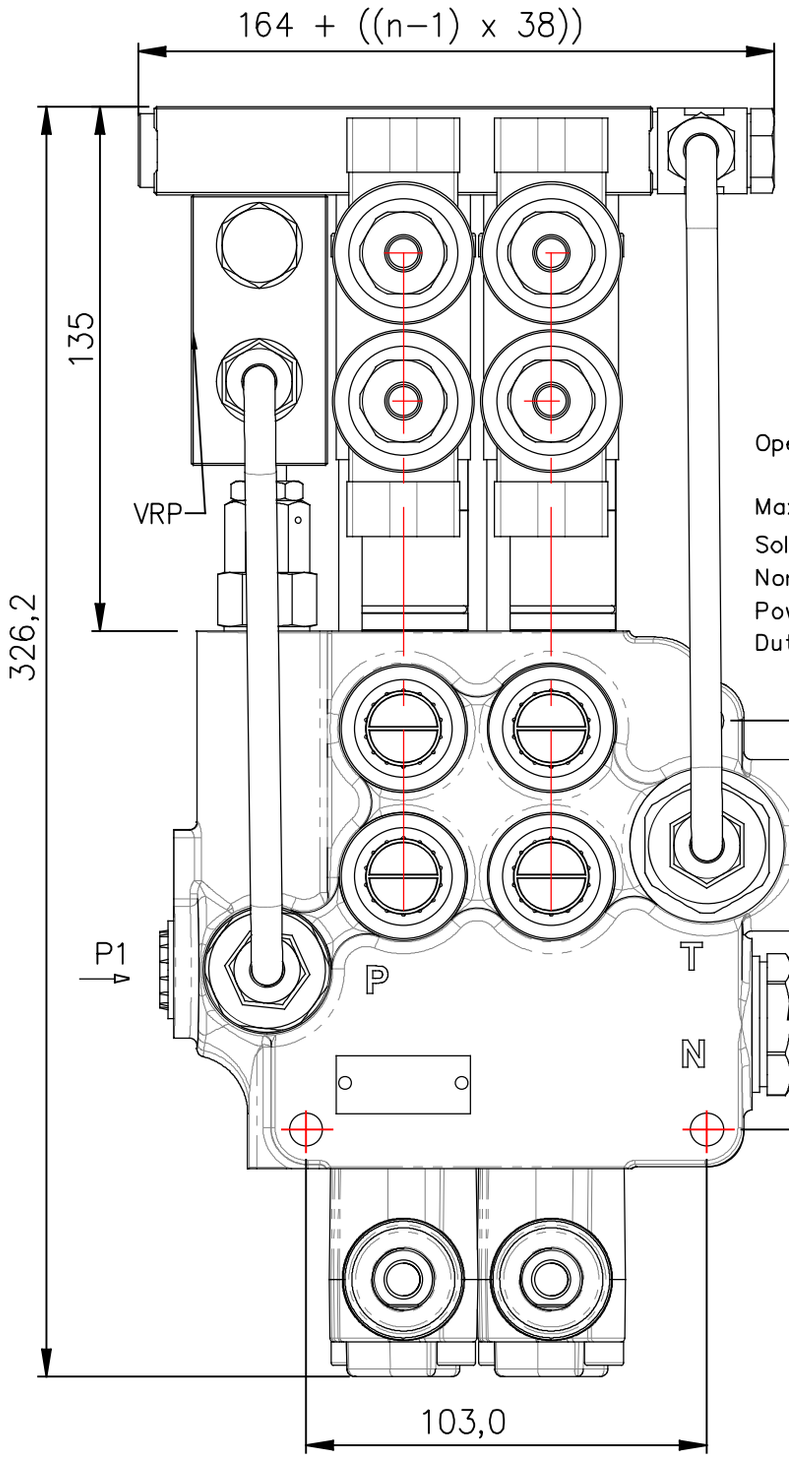
BADESTNOST AD 6200 Chirpan, Bulgaria, Tel: 00359 416 930 12, Fax: 00359 416 955 34
E –mail: badestnost@hydraulic–vlv.com www.hydraulic–vlv.com

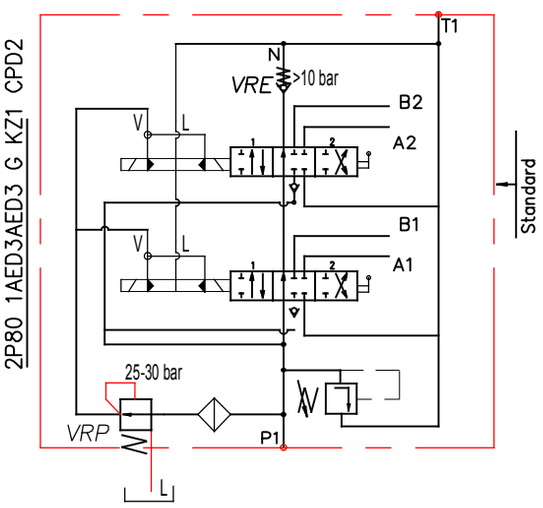
ED3 – electro–hydraulic control ON–OFF
Електрогидравлический контрол ON–OFF



Order codes

3–wai 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	±10%
Power rating	24W
Duty cycle	100 %



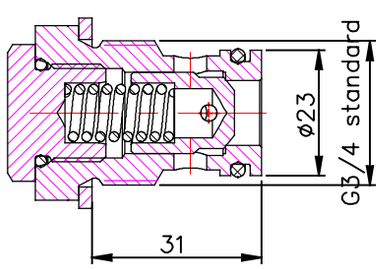
Colector kit – *Ordering codes BSP threads*

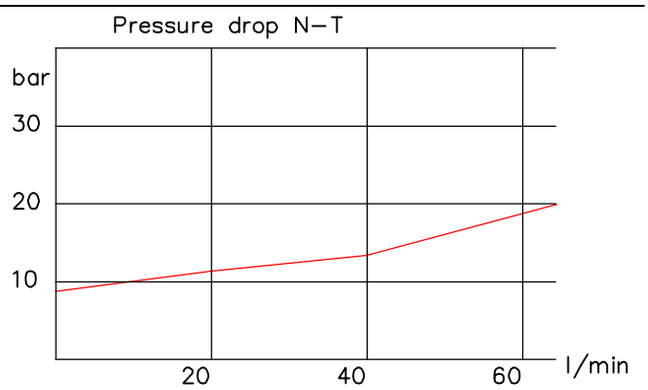
CED1Z80	*	Kit for 1 section
CED2P80		Kit for 2 section
CED3P80		Kit for 3 section
CED480		Kit for 4 sektion
	. . . .	

Ordering example

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

Back pressure valve VRE–P80
Клапан подпорний на слив





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