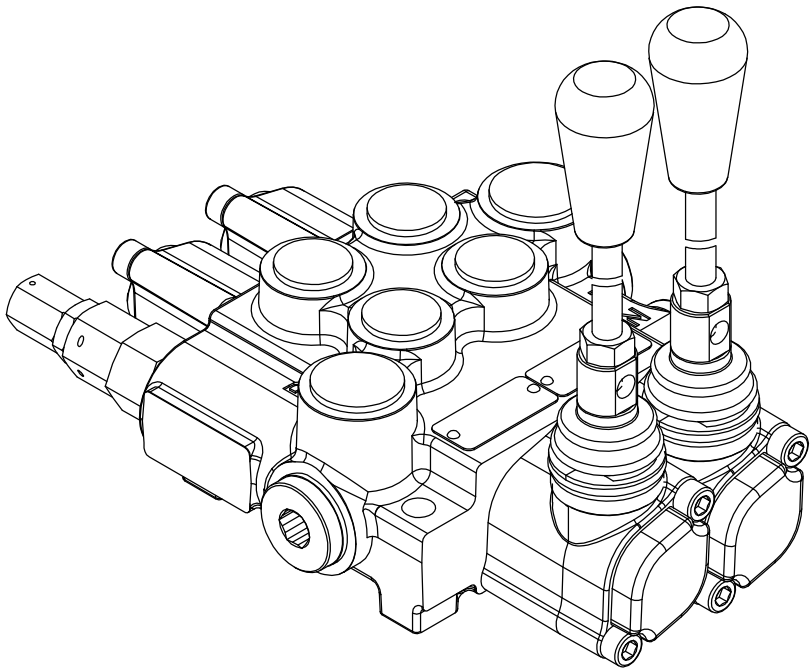
BADESTNOST AD 6200 Chirpan, Bulgaria, Tel: 00359 416 930 12, Fax: 00359 416 955 34
E –mail: badestnost@hydraulic–vlv.com www.hydraulic–vlv.com



Description
Назначение и применение
For starting, controlling and stopping the working fluid between the generator of pressure flow, the consumers and the Tank. Предназначение для изменения направления потока, ограничения давления рабочей жидкости в гидролинии, разгрузка насоса в нейтральной позиции золотника.

Specifications
Основние показатели

1. Valve monoblock Конструктивное решение	моноблок
2. Mounting Крепление	2 bolts M8
3.Ports Присоединительние отверстия	internal thread резбовие отверстия
4.Ambient temperature температура воздуха	–40 – +60 C
5.Pressure medium Рабочая жидкость	mineral oil
6.Viscosity Вязкость	12...800 mm/s 20...100 mm/s recommended range
7.Fluid temperature	–30 – +80 C
8.Filtration	oil contaminations class 10 to NAS 1683 achived with filter 75
9.Max. operating pressure	P = 250 bar A, B = 300 bar T < 50 bar
10 Internal leakage	5 ccm/min at 100 bar viscosity 46 mm/s
11.Nominal flow	40 l/min (operating diagram)
12.Spool stroke	+– 6 mm
13.Actuating force	< 200 N in spool axis

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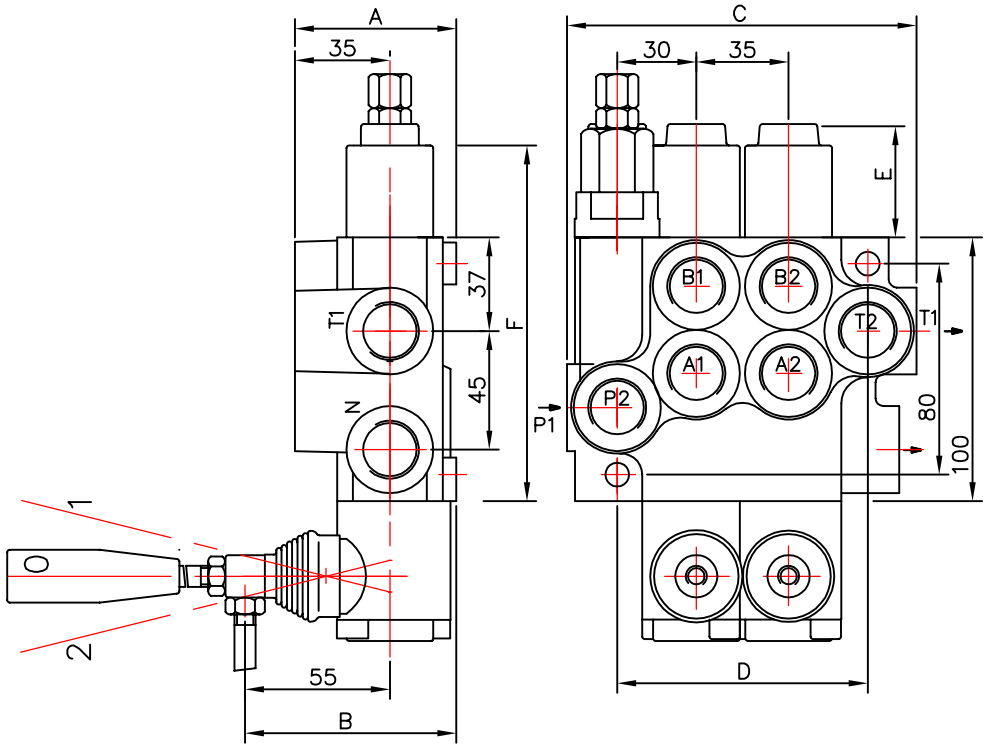
Left hand configuration – standard



Right hand configuration

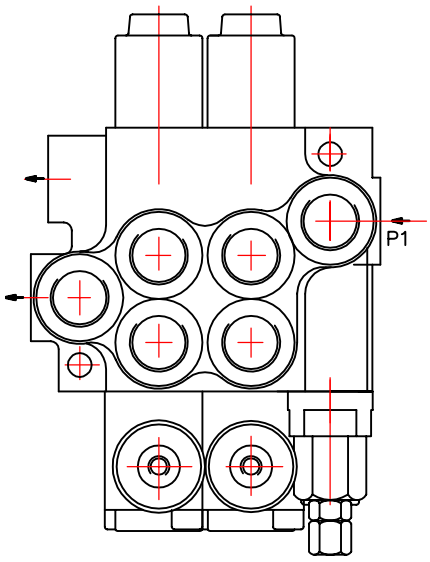


Table 1

	A	B	C	D	P1	P2	T1	T2
01Z50	60	80	85	60	+	–	+	–
02Z50	60	80	129	97	+	+	+	+
03Z50	60	80	164	132	+	+	+	+
04Z50	60	80	199	167	+	+	+	+
05Z50	60	80	234	202	+	+	+	+
06Z50	60	80	269	237	+	+	+	+
07Z50	60	80	304	272	+	+	+	+

Table 2

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

Table 3

code	spools
01	1
02	2
03	3

ets.

0 2 Z50 R 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
- 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 електрическим выключателем
- high pressure carry over / продължител потока високого давления
- connection ports in use / присоединительные отверстия

directional control valve Z50

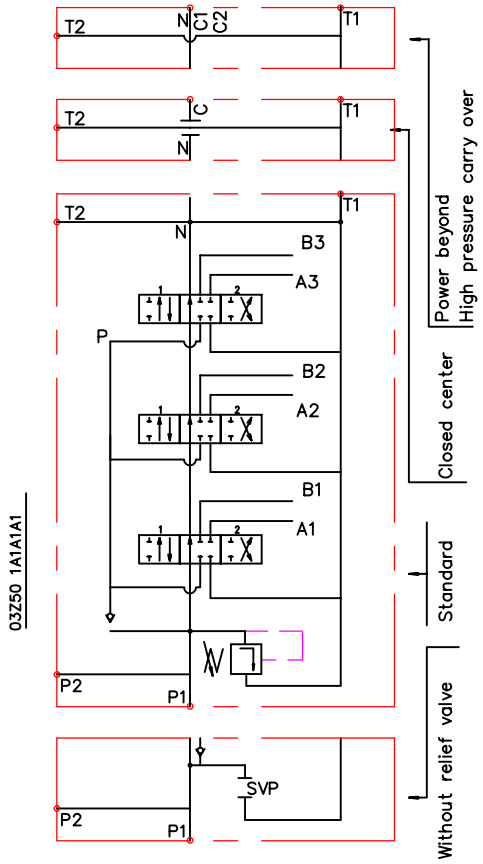


Table 4

code	way of distribution ; распределение потока
1	parallel ; паралельное

Table 5

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

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

** L	

** молько при вход справо (dy8)
only for right hand configuration

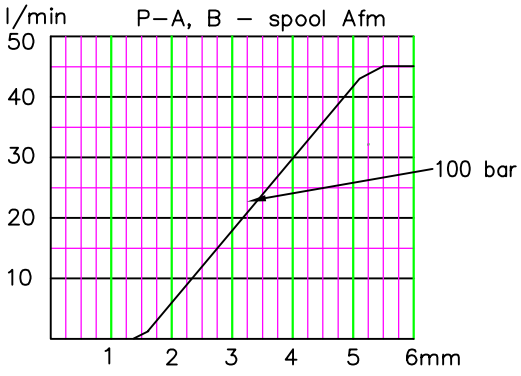
Table 6

code	spool control
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
* 15	
* 16	

* молько при вход слева
only for left hand configuration

** 12	
** 13	

** молько при вход справо
only for right hand configuration



*** Spool Afm – fine metering

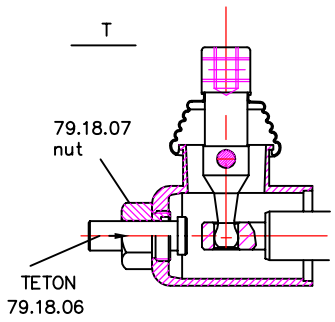
Table 7

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

Table 8

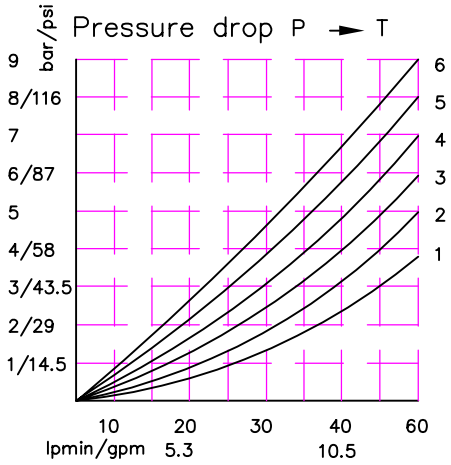
code	другое управление ; operation feature	
P		пневматическое on–off pneumatic contol; 5–10 bar ; ports NPTF 1/8–27
H		гидравлическое on–off hydraulic control ; pn = 5 – 20 bar ; ports G1/4

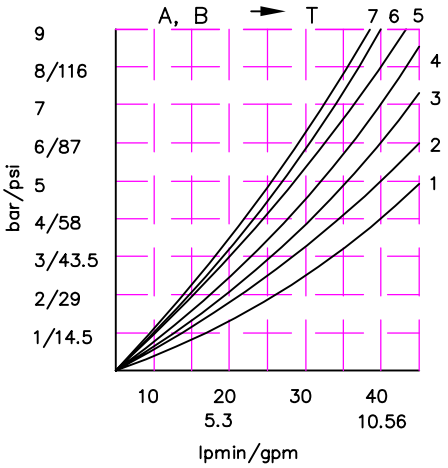
directional control valve Z50

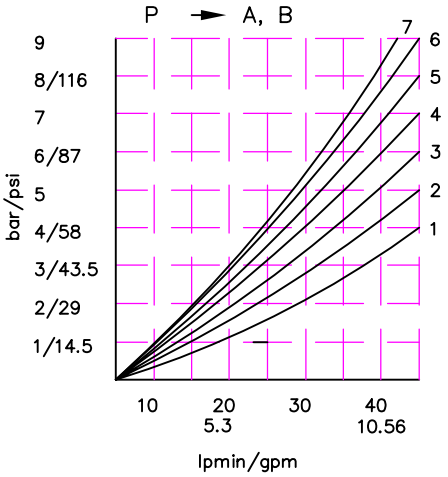


Z50 Table 9

code	ports (treads) ; присоединительные отверстия				
	P	A ; B	T	N	C2
M	M22x1.5	M18x1.5	M22x1.5	M22x1.5	M22x1.5
G	G1/2	G3/8	G1/2	G1/2	G1/2
S	7/8–14UNF	3/4–16UNF	7/8–14UNF	7/8–14UNF	7/8–14UNF







kind of hand control ; вид ръчного управления Table 10

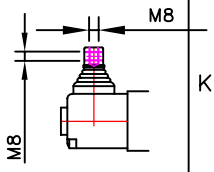
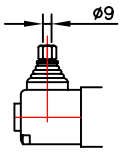
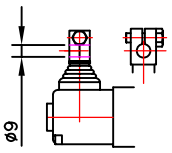
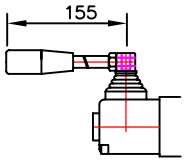
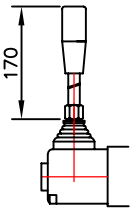
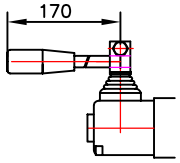
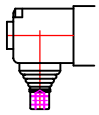
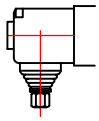
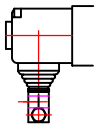
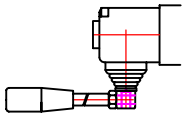
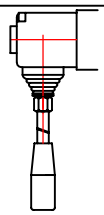
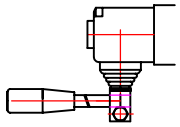
code	ескиз feature	code	ескиз feature	code	ескиз feature
KZ		KY		KI	
KZ1		KY1		KI1	
KZ0		KY0		KI0	
KZ01		KY01		KI01	
_	without hand control ; без ричажная система управления				

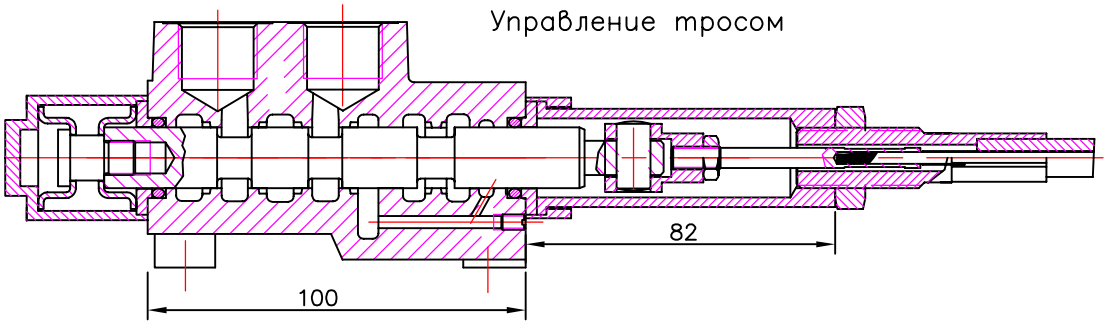
Table 11

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	

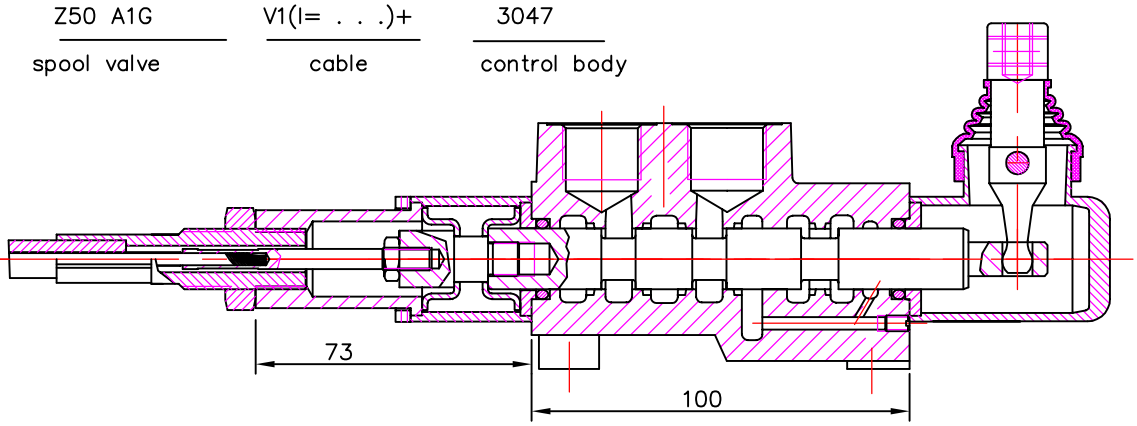
Table 12

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

REMOTE CONTROLS
Управление тросом



Z50 A1G — spool valve
V1(l= . . .)+ — cable
3047 — control body

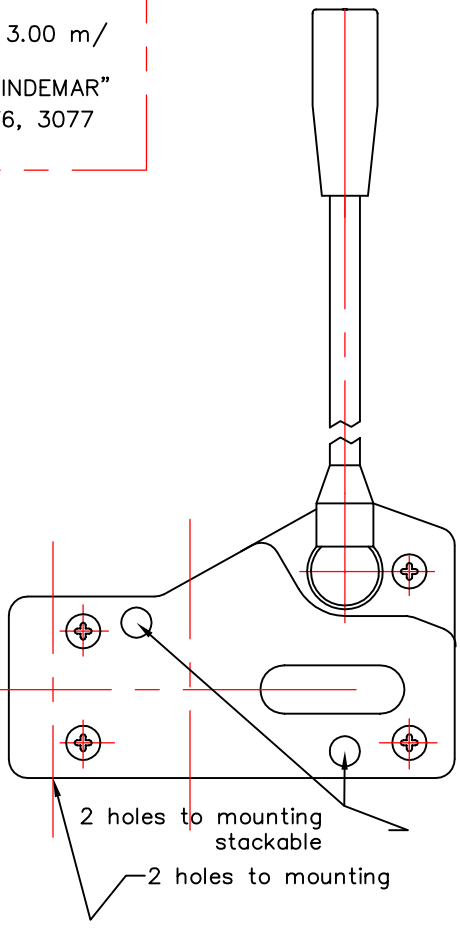


Z50 A1GKZ — spool valve
V2(l= . . .)+ — cable
3047 — control body

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

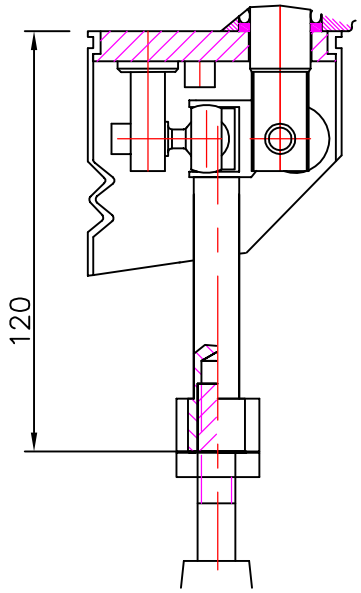


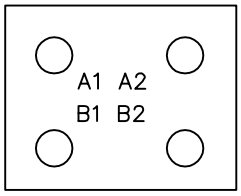
High solidity controls for easy mounting on every type of distributor. They can by mounted stand alone or packed together.
They use push–pull heavy duty cables that provide a positive smooth operating lever and are manifactured in a three differents models to meet different needs of Clients.

directional control valve Z50

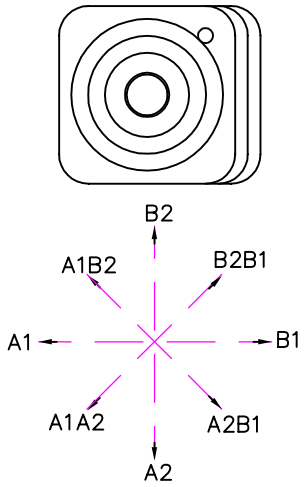
JOYSTICK "+"

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

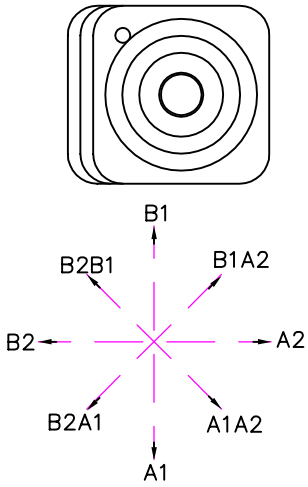




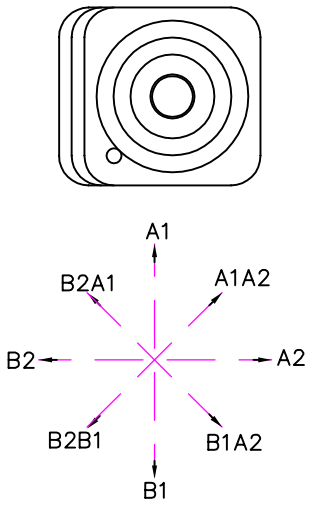
standard version 1



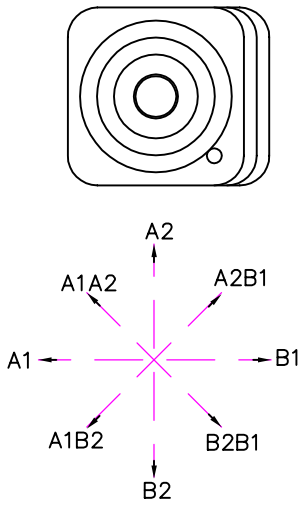
standard version 2

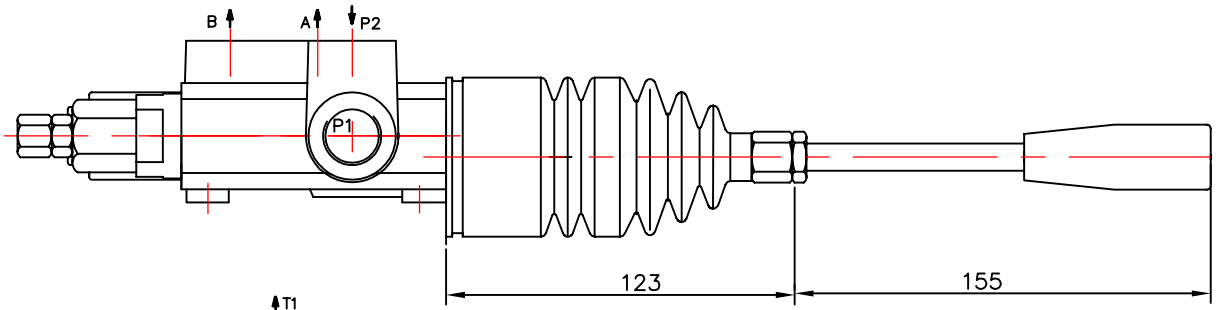


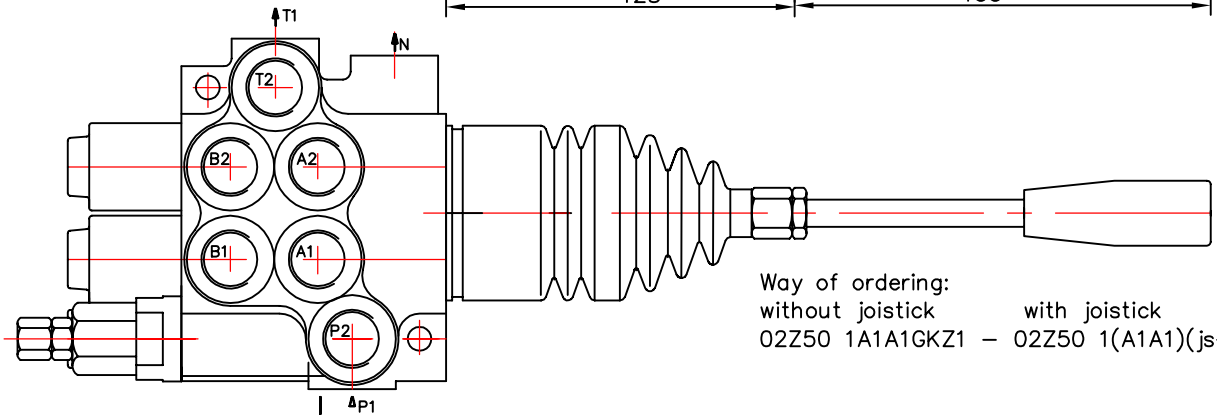
standard version 3



standard version 4





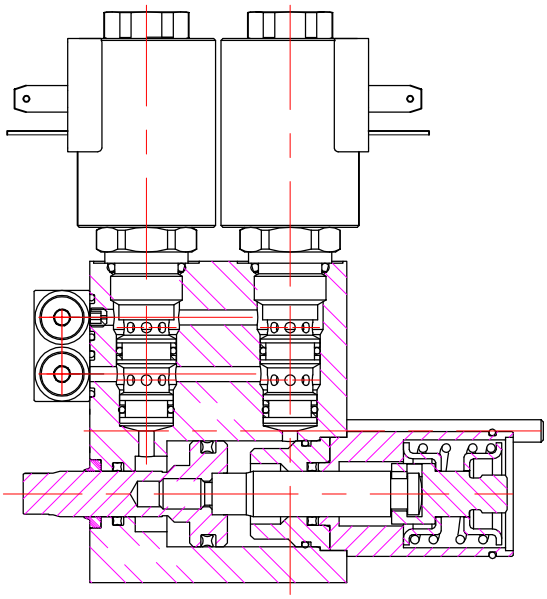


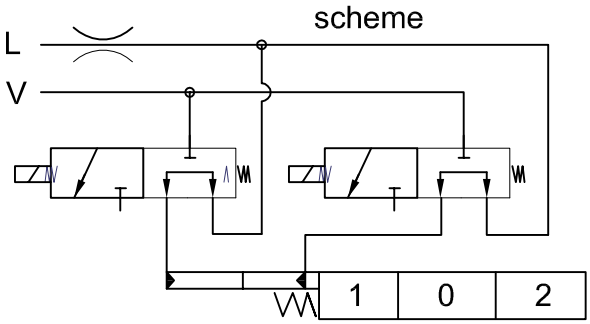
Way of ordering:

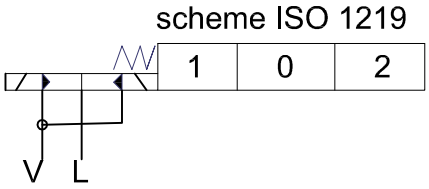
without joistick	with joistick
02Z50 1A1A1GKZ1 –	02Z50 1(A1A1)(js+3)G

directional control valve Z50

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





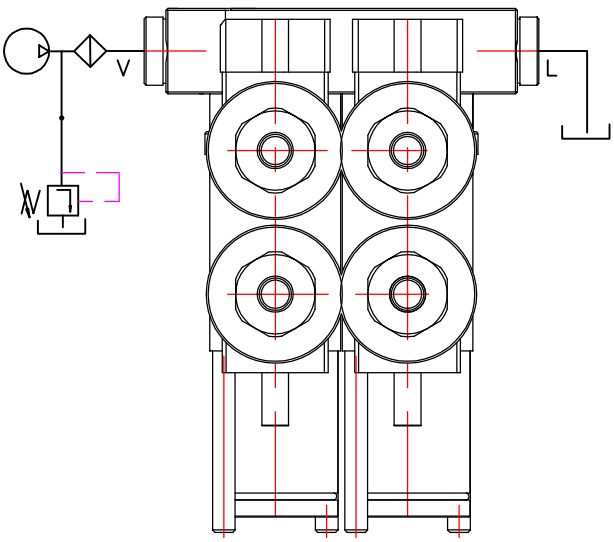


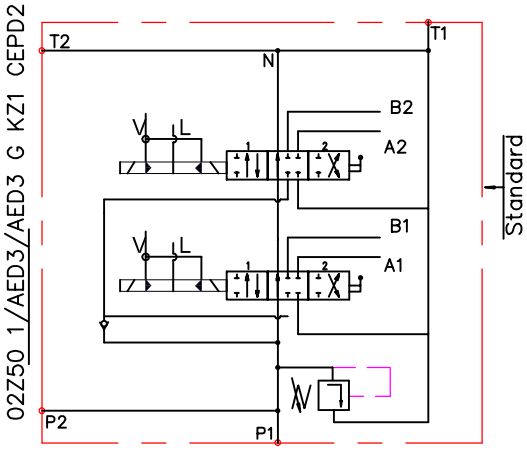
Operating pressure	min 10 bar(145 psi) max 50 bar(725 psi)
Max operating pressure in L (T line)	25 bar(360 psi)

Ordering codes
3–wai solenoid valve–SV08–33
coil P40ED3–G–12VDC
coil P40ED3–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

02Z50–1/A1ED3/A1ED3 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
. . . .	

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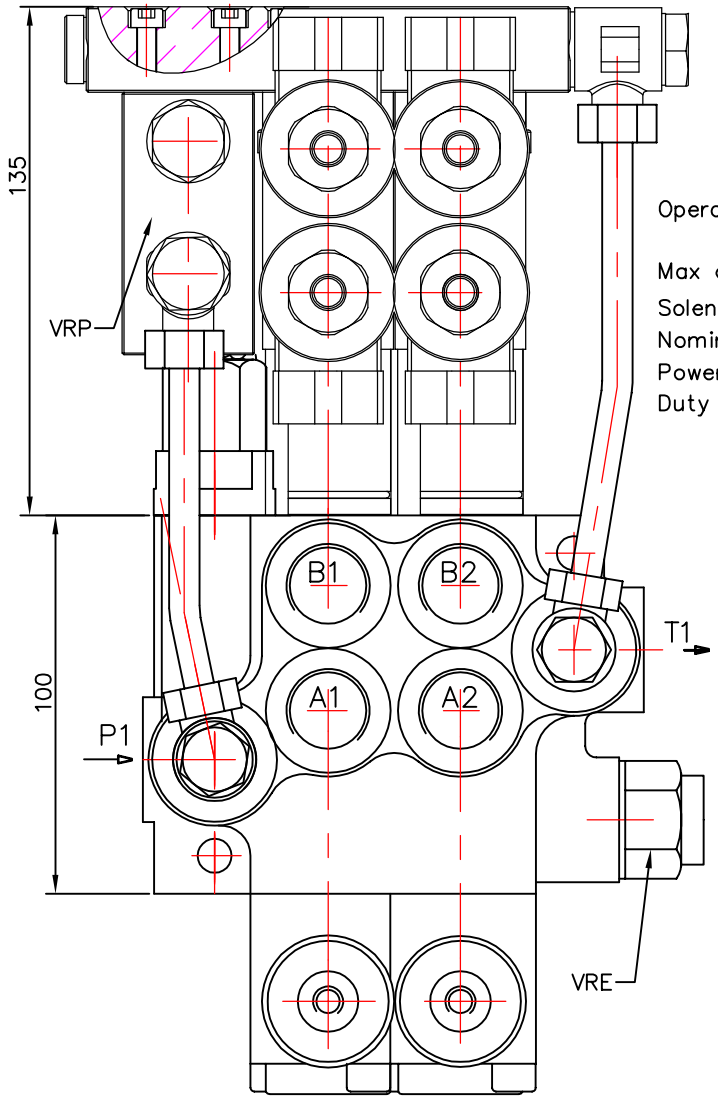
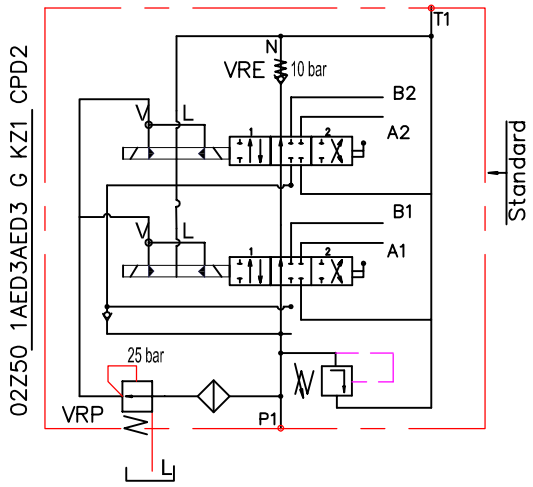
ED3 – electro–hydraulic control ON–OFF
Електрогидравлический контрол ON–OFF



Order codes
3–wai 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 %



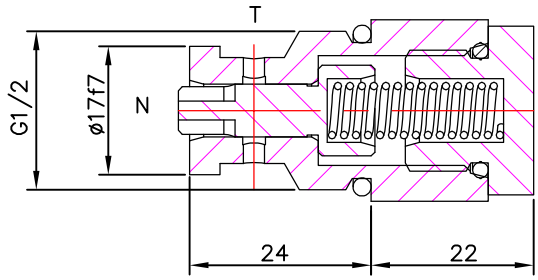
Ordering example

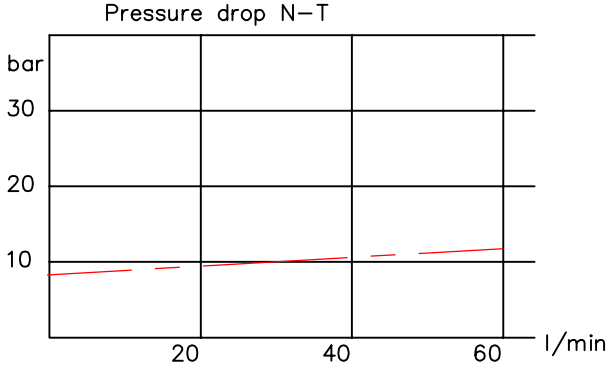
02Z50–VRP– 1/A1ED3/A1ED3 G KZ1–CED2–VRE–12VDC

Colector kit – BSP threads Ordering codes

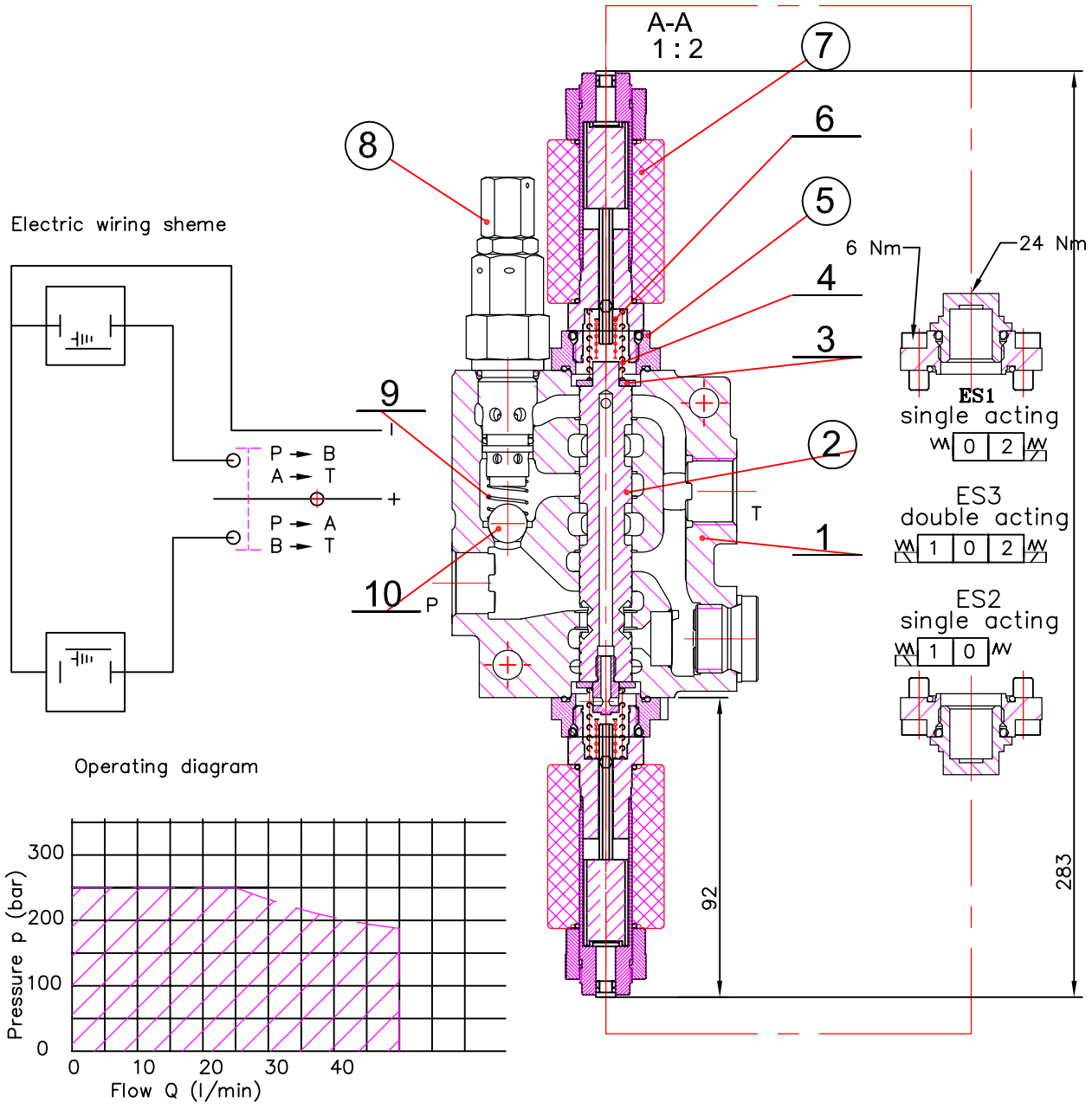
CED1	Kit for 1 section
CED2	Kit for 2 section
CED3	Kit for 3 section
CED4	Kit for 4 sektion
. . . .	

Back pressure valve VRE–P40
Клапан подпорний на слив





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



Operating features
Технические примечания

Control

Internal leakage A(B) → T
(p=120 bar, Viscosity=32 mm²/s : max 30 ccm/min)
Fluid temperature – –20°C(short time) ... 80°C
Max. back pressure on outlet port T – 25 bar(360 psi)

Coil

Nominal voltage tolerance . . . . . ±10%
Power rating . . . . . 37 W
Coil insulance . . . . . class H
Duty cicle 100%
Connector ISO 4400
Imergency manual override

pos.	Part.No	Description	Quantity
10		Ball 12	1
9	79.00.03	Spring	1
8	79.04.00	Relief valve	1
7b	C35D012RC P01	Solenoid coil	2
7a	GM4060/BD	Solenoid Tube	2
6	542.02.00.07	Additional spring	2
5	542.02.03.00	Intermediate unit	2
4	542.02.00.04	Spring	2
3	542.02.00.02	Washer	2
2		Spool ...	1
1		Body ...	1

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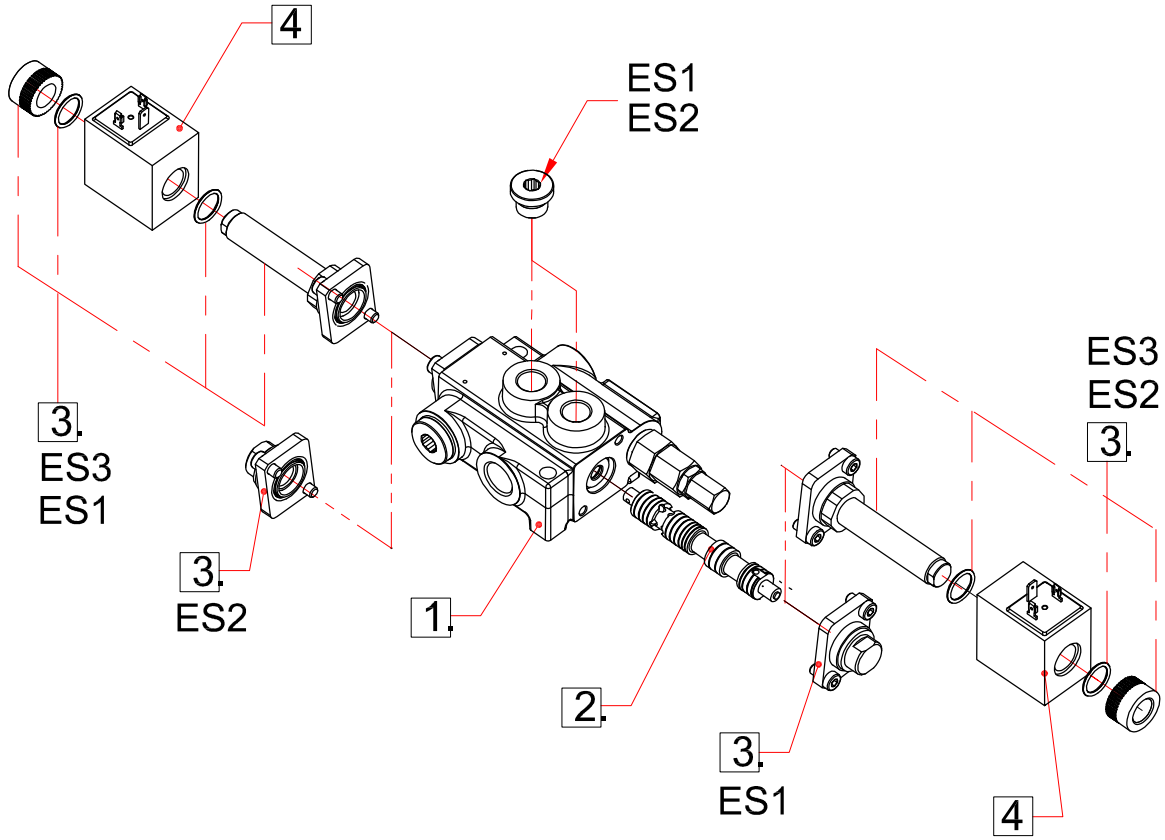
ES ... SOLENOID DIRECT CONTROL

Solenoid direct control with spring return to neutral position.
Needs special spools and special body Z50.

ORDERING EXAMPLE

Z50 A ES3 12VDC G
1 2 3 4 5



1.Body kit

Type	Description
Z50	1 spool
02Z50	2 spool
03Z50	3 spool
04Z50	4 spool
05Z50	5 spool
06Z50	6 spool

2.Spool options

Type	Description
A	Double acting, 3 positions with A and B closed in neutral position
D	Double acting, 3 positions with A and B open to Tank in neutral position

3.Control kit

Type	Description
ES1	Single acting P – A with spring return in neutral position
ES2	Single acting P – B with spring return in neutral position
ES3	Double acting P – A (B) with spring return in neutral position

4.Coils

Type	Description
(with connector ISO 4400)	
12VDC	Nominal voltage 12VDC
24VDC	Nominal voltage 24VDC

5.Threads

G	P, T – G1/2; A, B – G3/8