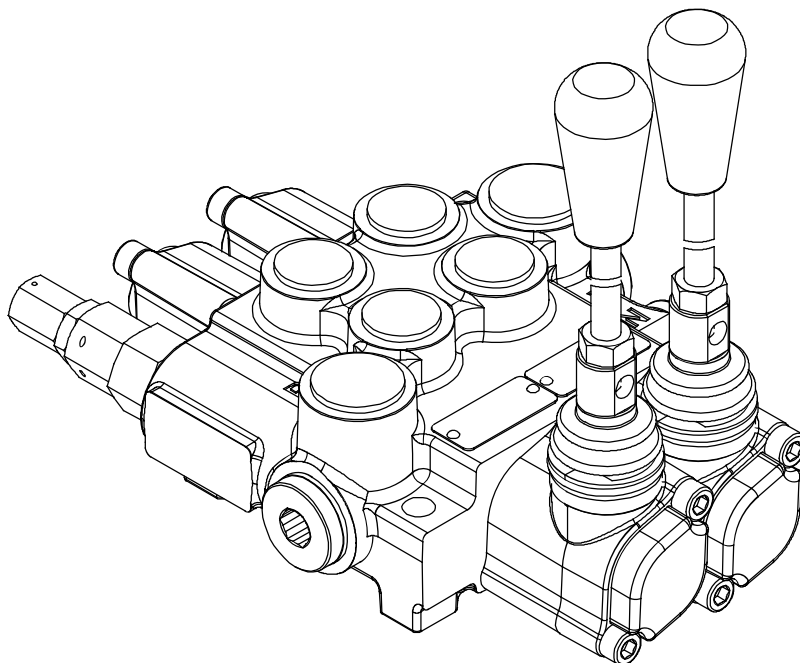




Description

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

Основные показатели

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

directional control valve Z50

Left hand configuration – standard

Right hand configuration

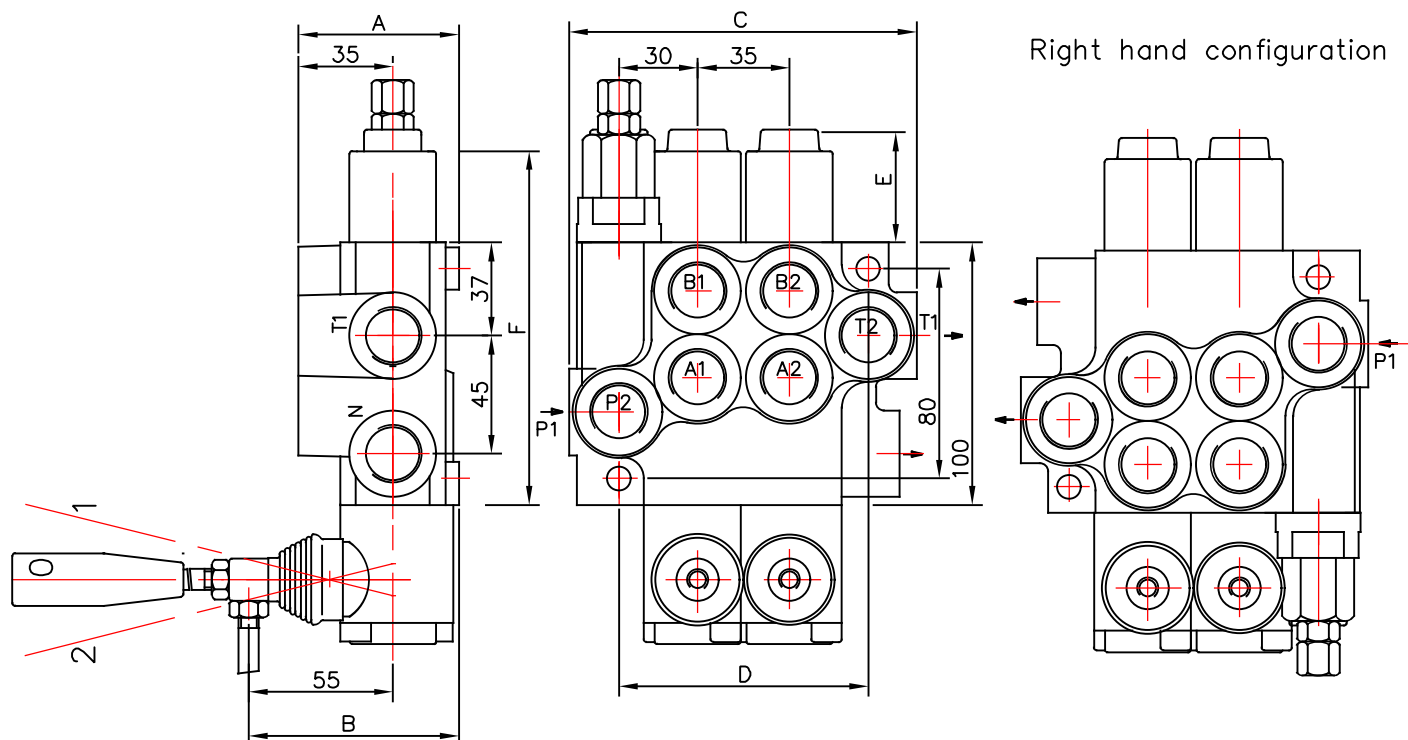


Table 1

	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 фиксация 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

relief valve – standard setting 175; without indication
(4) Spring for 160 to 315 bar; standard setting 220 bar; red;
(звп) relief valve blanking plug; без предопр. клапана

first spool distribution type
характеристика первого золотника

spool control/detend and ets./
контроль золотника/фиксации и сгружение/

second spool distribution type
тип второго золотника

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

ports /treads/
резьбовые отверстия

general operation feature
тип ручного управления

with "teton"
исполнение ручного управления с "тетон"

operation feature /pneumatic, .../
сгруппированное управление

with electric switch
с электрическим выключателем

high pressure carry over
продолжитель потока высокого давления

connection ports in use
присоединительные отверстия

directional control valve Z50

INLET RELIEF OPTIONS

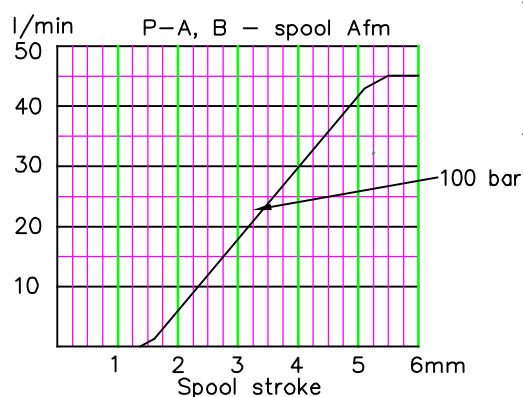
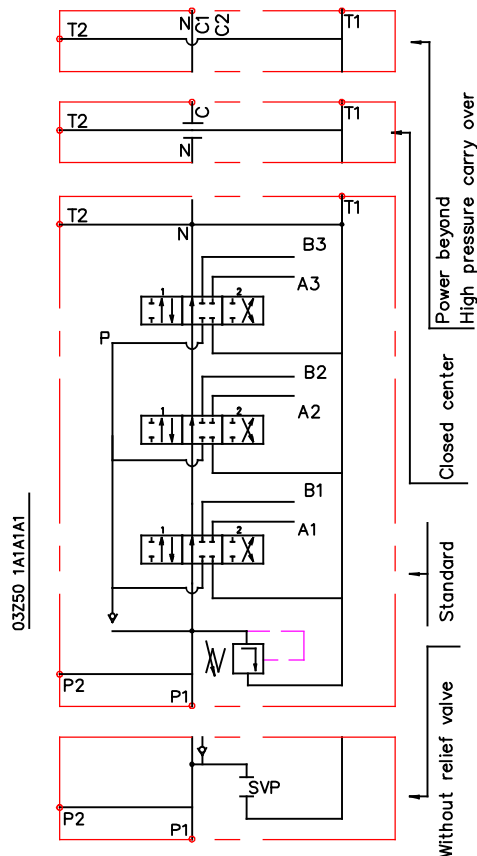
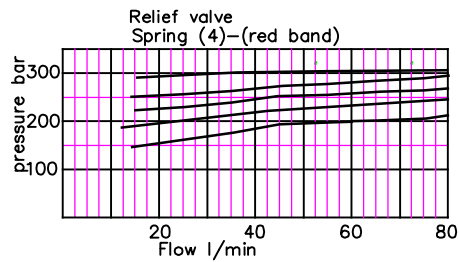
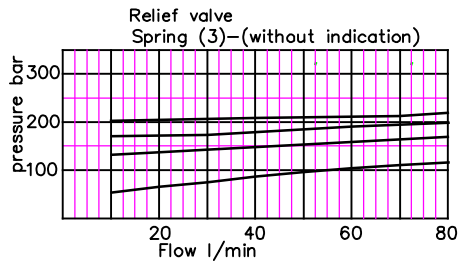


Table 4

code	way of distribution ; распределение потока
1	parallel ; параллельное

Table 5

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

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

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

*** Spool Afm – fine metering

Table 6

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

* 15	
* 16	

* только при входе слева
only for left hand configuration

** 12	
** 13	

** только при входе справа
only for right hand configuration

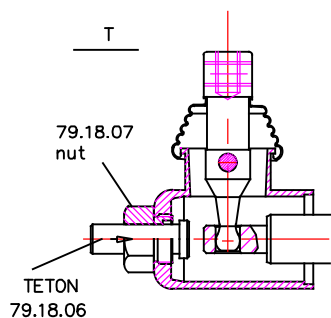
Table 7

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

Table 8

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

directional control valve Z50



Z50

Table 9

code	ports (threads) ; 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 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 рычажная система управления				

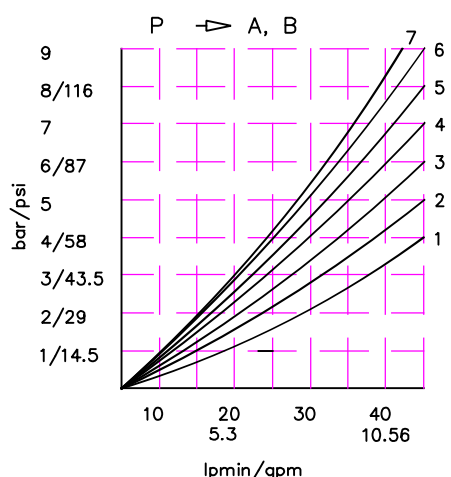
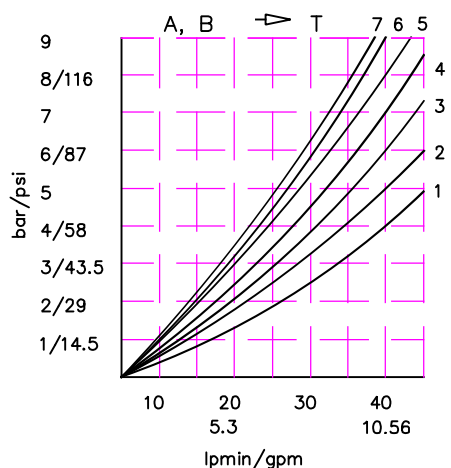
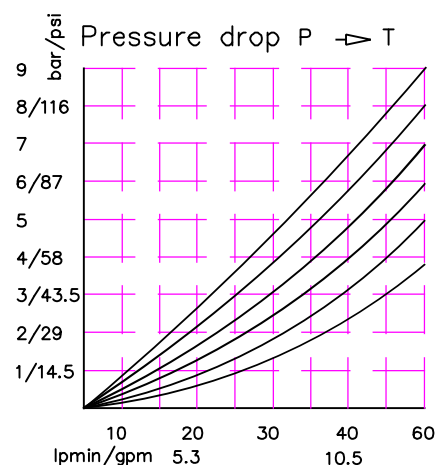
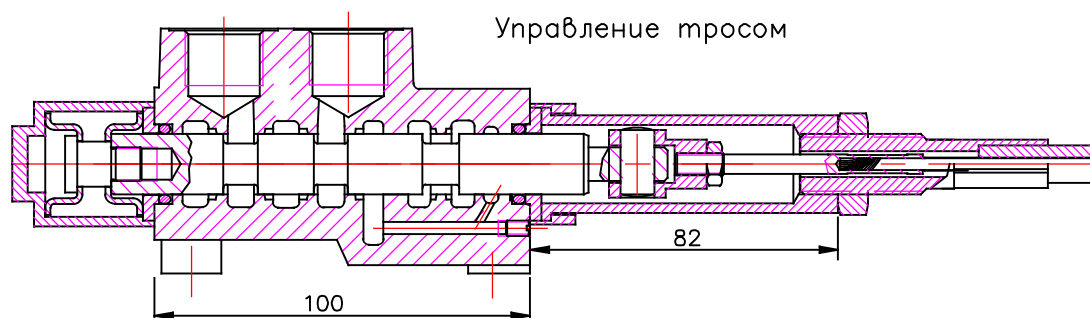


Table 11

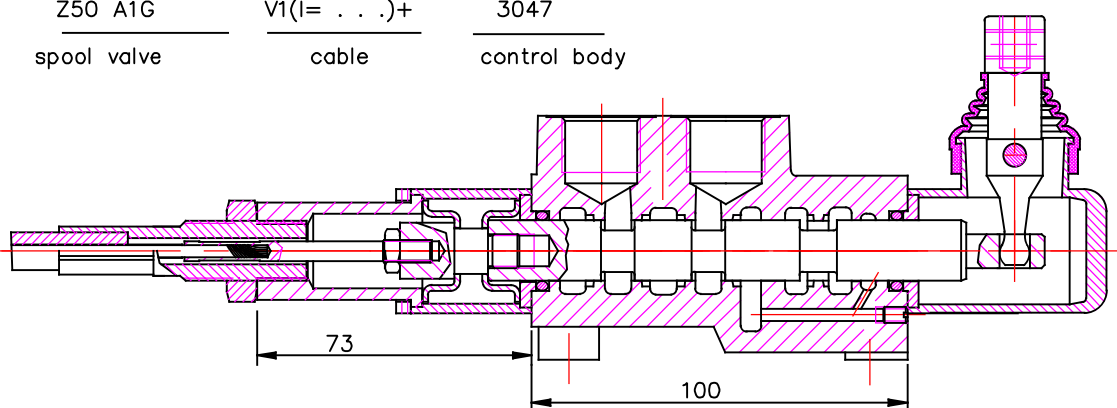
code	вид продолжение на дебита	
C	отвор "N" затворен closed center	
C2	отвор "N" продължава за следващ консуматор part for power beyond sleeve (carry over)	
—	отвор "N" е свързан с "T" without part for pressure carry over	
X	отвор "N" е винаги свързан с "T" power beyond ever to tank	

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

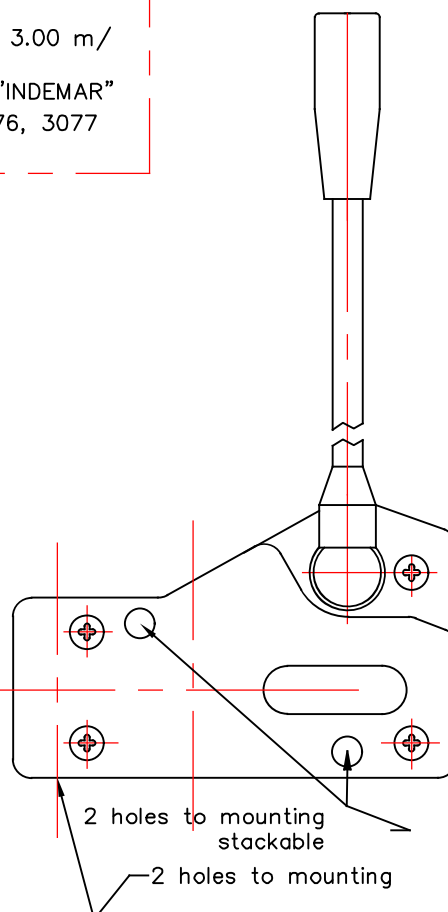


Z50 A1GKZ V2(l= . . .)+ 3047
spool valve cable control body

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

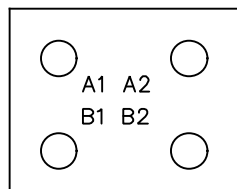
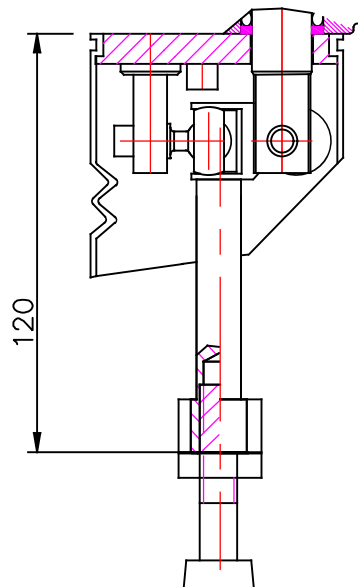
High solidity controls for easy mounting on every type of distributor. They can be mounted stand alone or packed together.
They use push-pull heavy duty cables that provide a positive smooth operating lever and are manufactured in three different models to meet different needs of Clients.



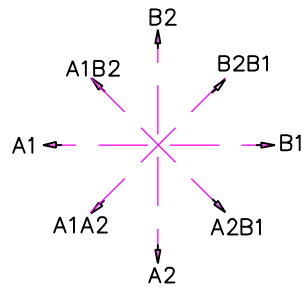
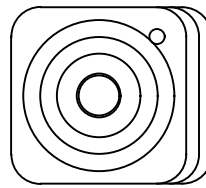
directional control valve 750

JOYSTICK "+"

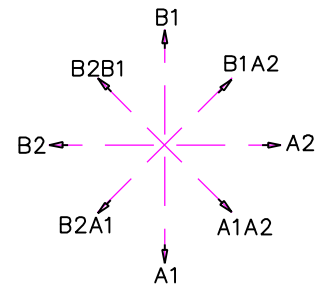
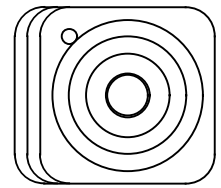
This control gives the possibility to operate, at the same time two spools with a "+" movement.



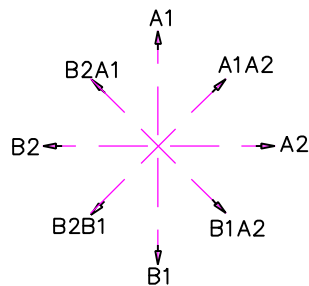
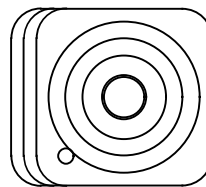
standard version 1



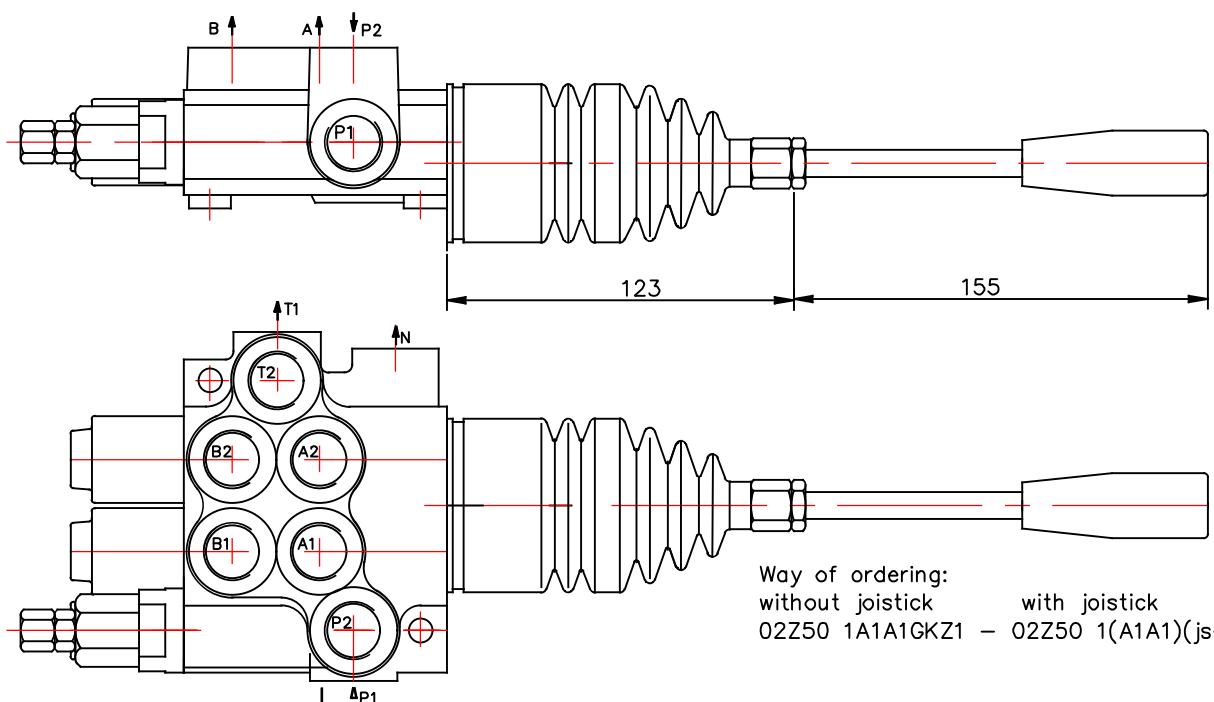
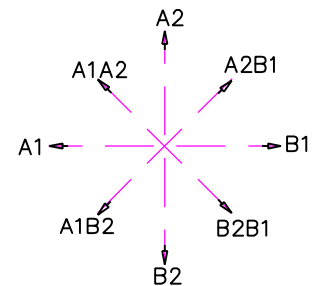
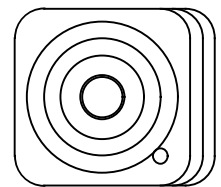
standard version 2



standard version 3

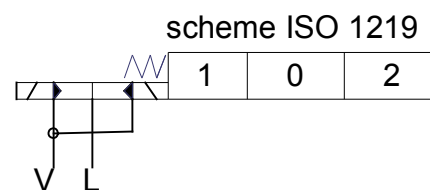
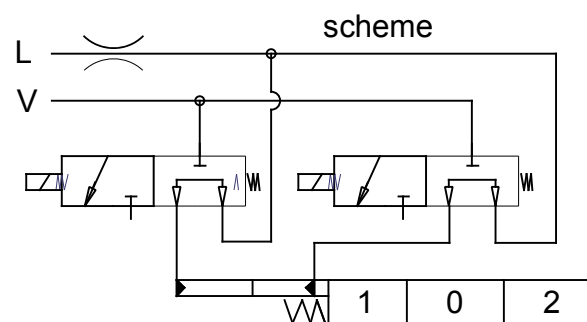
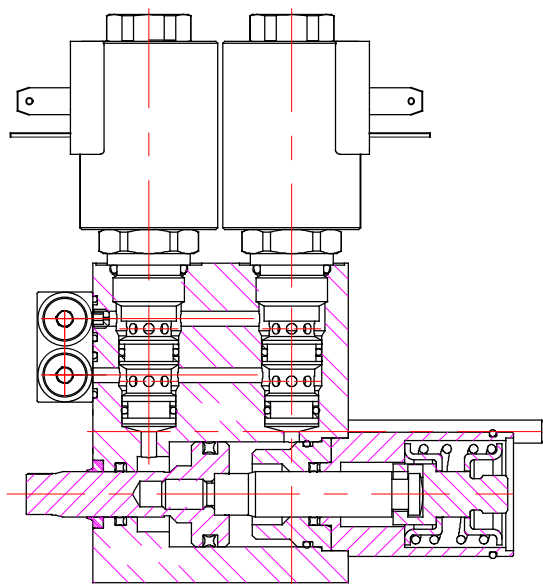


standard version 4



Way of ordering:
without joystick 02Z50 1A1A1GKZ1 - with joystick 02Z50 1(A1A1)(js+3)G

directional control valve Z50

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

Ordering codes

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

Operating pressure

min 10 bar(145 psi)

Max operating pressure in L (T line)

max 50 bar(725 psi)
25 bar(360 psi)

Solenoid operating features

Nominal voltage tolerance

±10%

Power rating

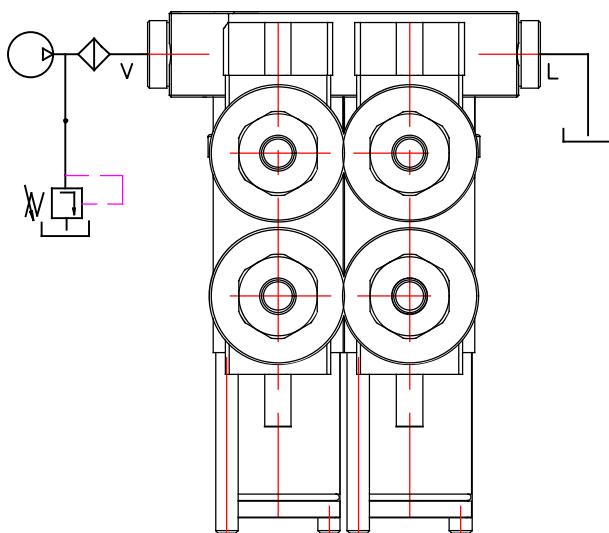
24W

Duty cycle

100 %

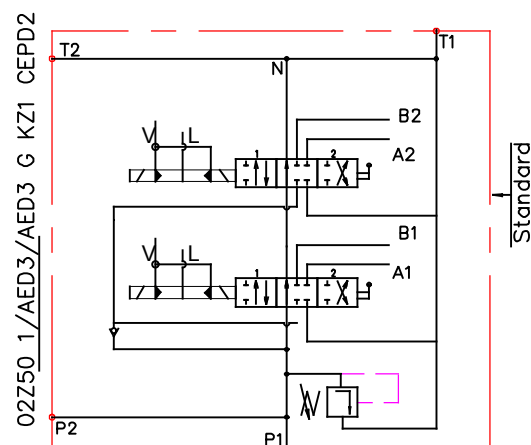
Collector kit for external pilot and drain – CEED...(1,2,3 ...)

Коллектор 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

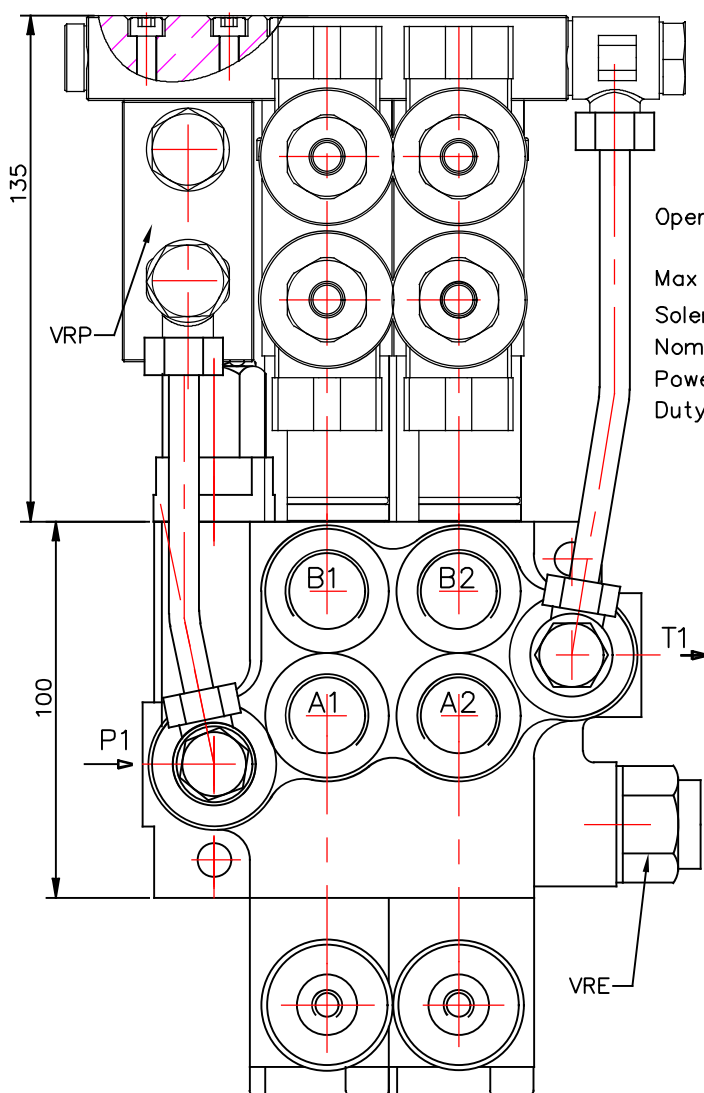
Kit for 4 section

.

directional control valve Z50

ED3 – electro-hydraulic control ON-OFF

Электрогидравлический контрол ON-OFF



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)

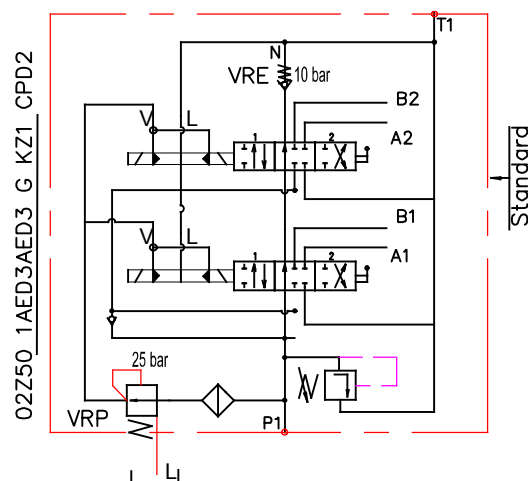
Max operating pressure in L (T line) 25 bar(360 psi)

Solenoid operating features

Nominal voltage tolerance $\pm 10\%$

Power rating 24W

Duty cycle 100 %



Ordering example

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

Collector kit

BSP threads

Ordering codes

CED1

CED2

CED3

CED4

.

Kit for 1 section

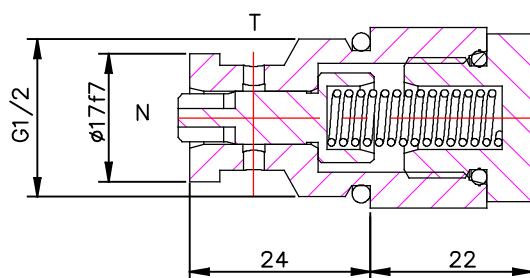
Kit for 2 section

Kit for 3 section

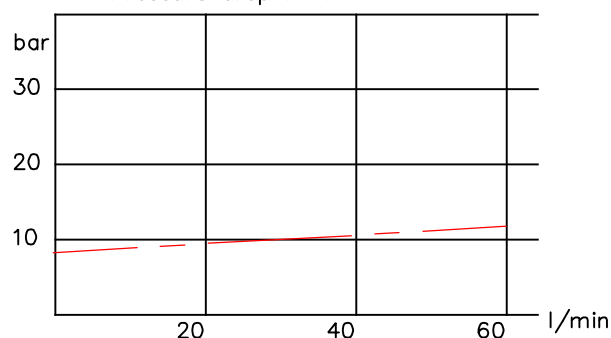
Kit for 4 section

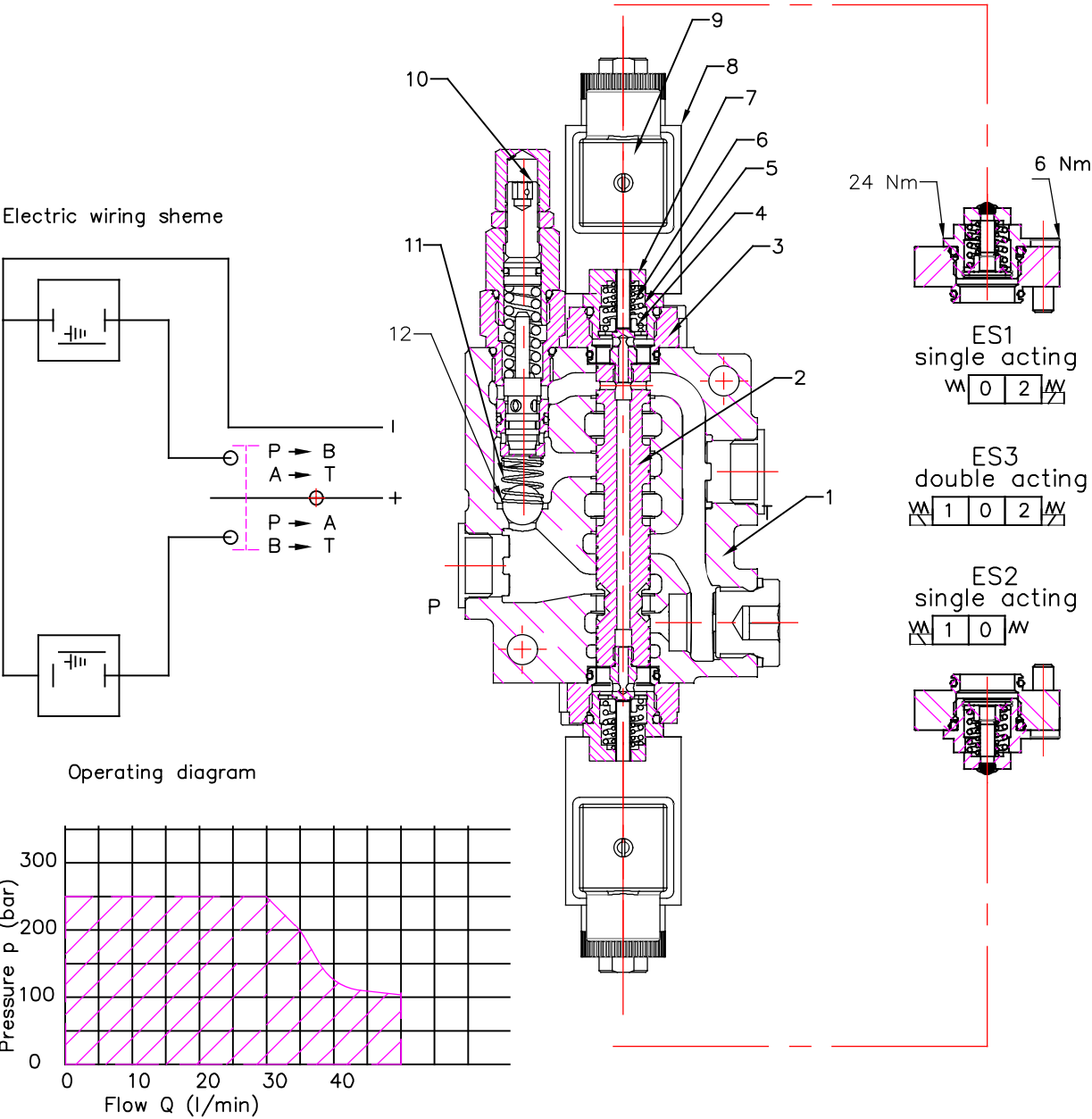
Back pressure valve VRE-P40

Клапан подпорный на слив



Pressure drop N-T





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)

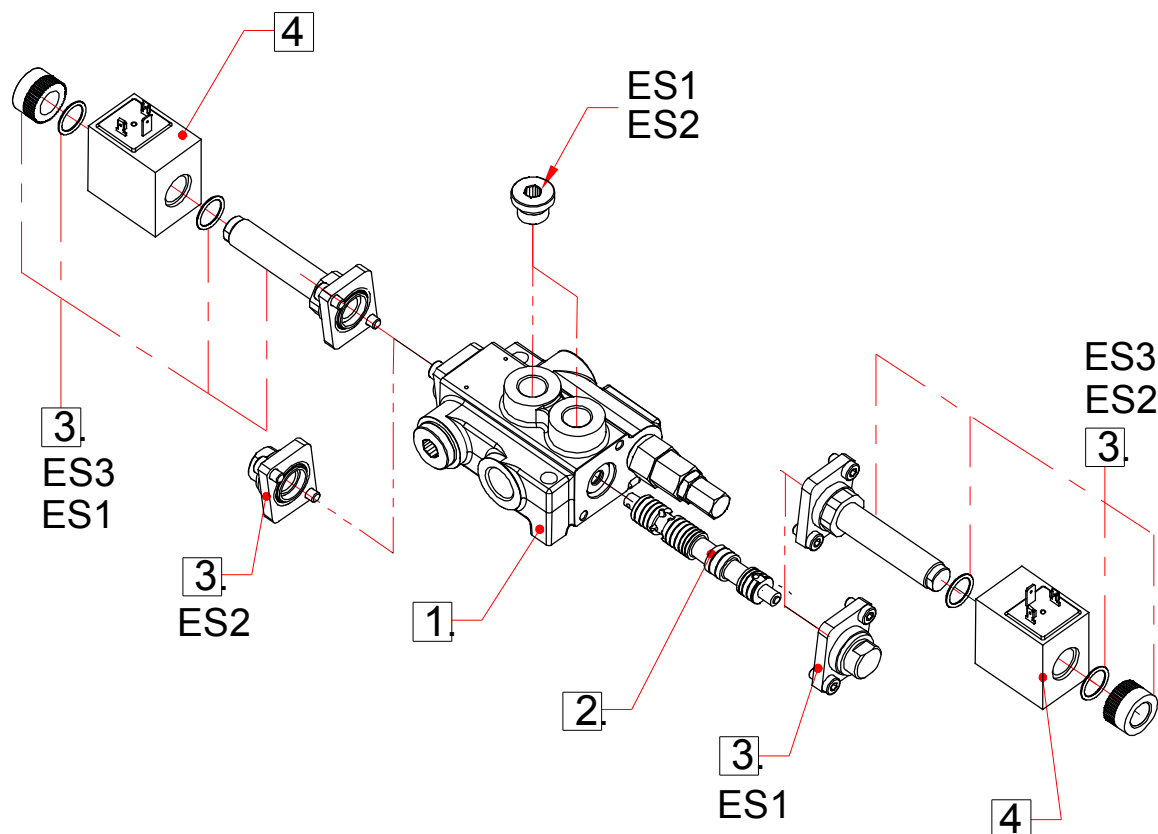
Coil
Nominal voltage tolerance ±10%
Power rating 37 W
Coil insulation class H
Duty cycle 100%
Connector ISO 4400
Emergency manual override

pos.	Part.No	Description	Quantity
12		Ball 12	1
11	79.00.03	Spring	1
10	79.04.00	Relief valve	1
9		Connector	2
8	C35D012RC P01	Solenoid coil	2
7	GM4060/BD	Solenoid Tube	2
6	542.02.04.15	Additional spring	2
5	542.02.04.12	Spring	2
4	542.02.04.04	Washer	2
3	542.02.08.00	Intermediate unit	2
2		Spool ...	1
1		Body ...	1

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