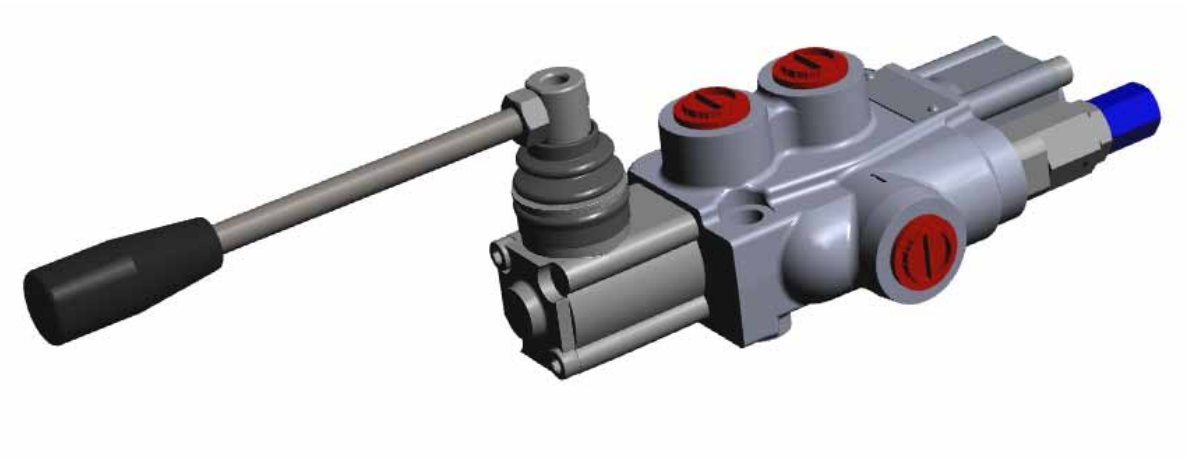


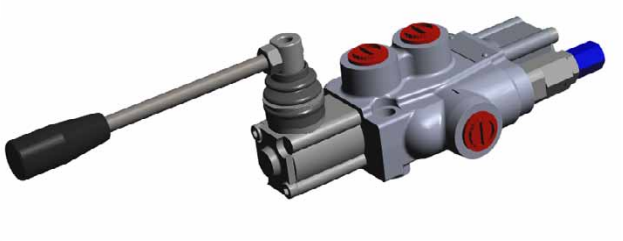
Technical parameters:

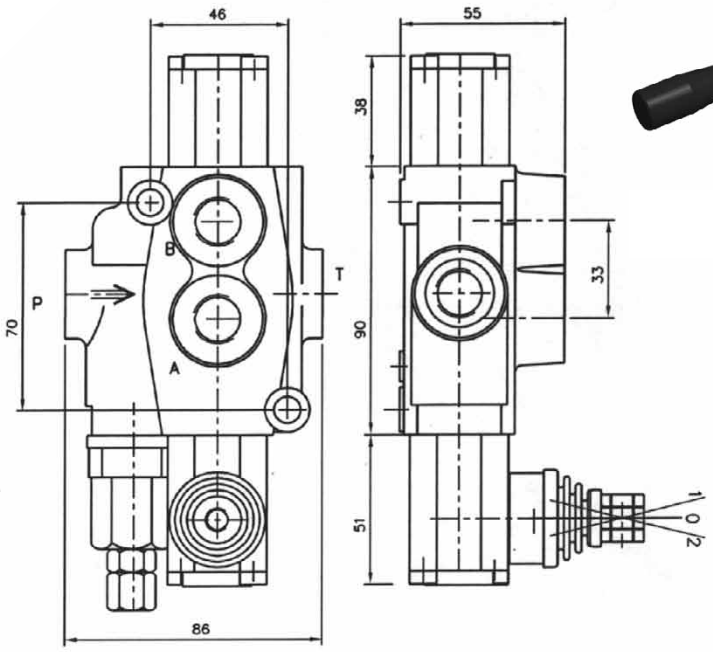
Ambient temperature	-40C...+60C
Hydraulic liquid -mineral oil based/hydraulic oil Viscosity	12 ...800 mm2/s
Fluid temperature	-15C...+80C
Filtration	10 to NAS 1638
Max operating pressure, P=250; T=50 bar	A , B = 300 bar
Nominal flow	35 l/min
Leakage	10-15 cm3/min at 120 bar

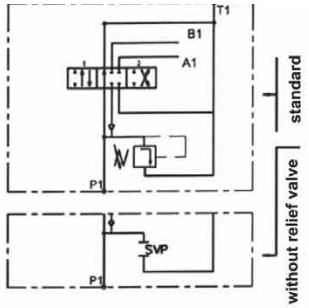
DESCRIPTION: Manually or mechanically controlled hydraulic distributor P35 is designed for distribution and control of work flow between generator (pump) and executive mechanisms (cylinder, hydro-motor, etc.). Relief valve is integrated therein.

CONSTRUCTION: P35 is a mono-block distributor. Its body is made of cast iron EN-GJL300. Spool is made of carburized steel with hard chrome plating.

MOUNTING: Fixing is with two bolts M8.







ORDERING CODES

P35	R	A	1	G	KZ1	T	E
Directional control valve type...	Inlet high pressure - right	First spool distribution type	Spool control / dedant and etc./	Ports / threads	General operation feature	With "Teton"	With electric switch

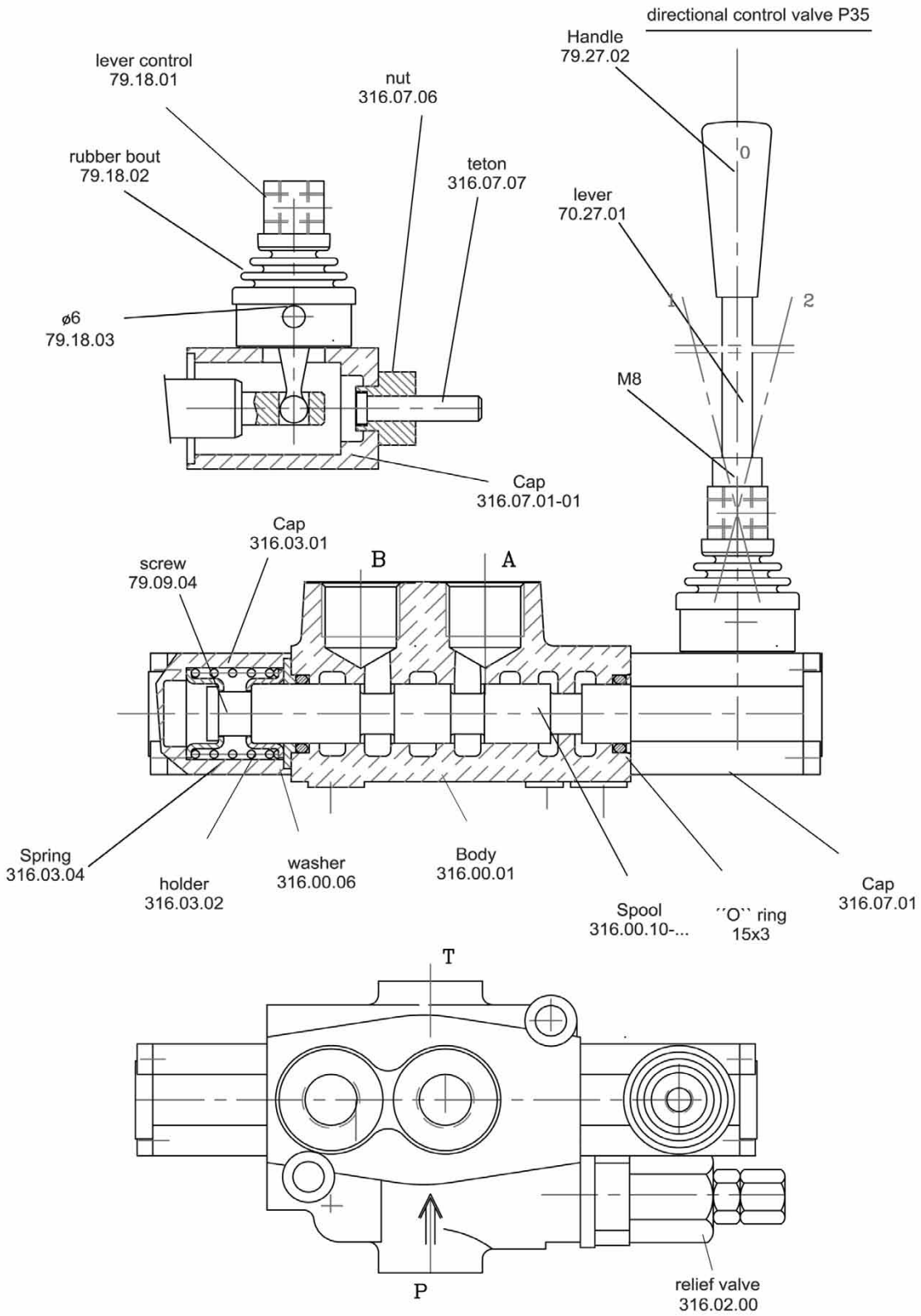
code	spool type
A	
B	
C	
D	
E	
F	
M	
N	
O	
P	
Q	
R	

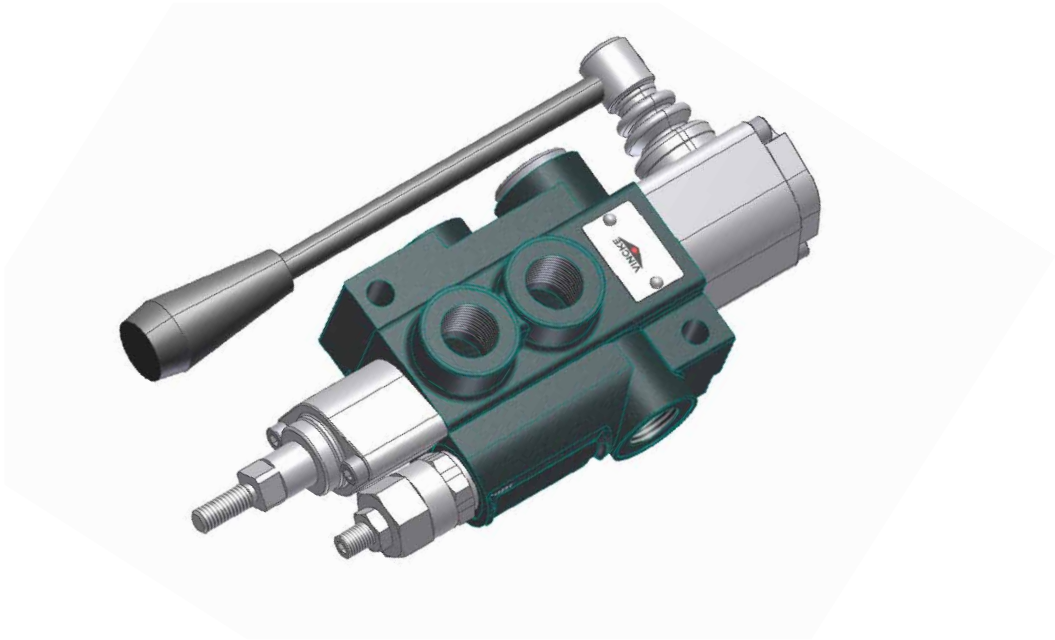
code	spool control
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	

code	incorporated microswitch	
E		microswitch type omron-V 165 I C 5

Code	ports (treads)		
	P	A ; B	T
M	M18x1.5	M18x1.5	M18x1.5
G	G3/8	G3/8	G3/8
S	3/4-16UNF	3/4-16UNF	3/4-16UNF

code	feature	code	feature	code	feature
KZ		KY		KI	
KZ1		KY1		KI1	
KZ0		KY0		KI0	
KZ01		KY01		KI01	
–	without hand control				


directional control valve P35
Handle
79.27.02
lever control
79.18.01
nut
316.07.06
rubber bout
79.18.02
teton
316.07.07
lever
70.27.01
ø6
79.18.03
M8
Cap
316.07.01-01
Cap
316.03.01
screw
79.09.04
B
A
Spring
316.03.04
holder
316.03.02
washer
316.00.06
Body
316.00.01
Spool
316.00.10-...
''O'' ring
15x3
Cap
316.07.01
T
P
relief valve
316.02.00



Technical parameters:

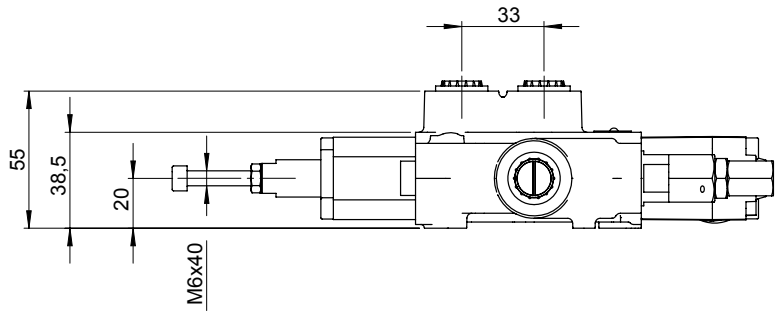
Ambient temperature	-40C...+60C
Hydraulic liquid -mineral oil based/hydraulic oil Viscosity	12 ...800 mm2/s
Fluid temperature	-15C...+80C
Filtration	10 to NAS 1638
Max operating pressure, P=250; T=50 bar	A , B = 300 bar
Pressure for authomatical release of spool	70-140, bar
Leakage(A,B-T)	10cm3/min at 120bar
Nominal flow	35 l/min
Spool stroke	+/- 7,9 mm
Actuating force	< 220 N

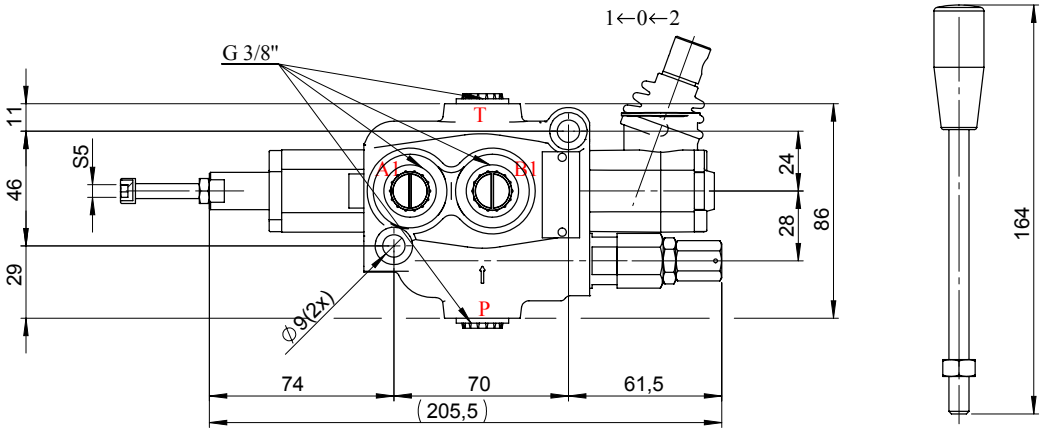
- Hydraulically balanced, hard chrome plated spool
- Lever system in which the handle can be installed in up or down position
- In neutral position both works ports are blocked and the pump unloads to tank

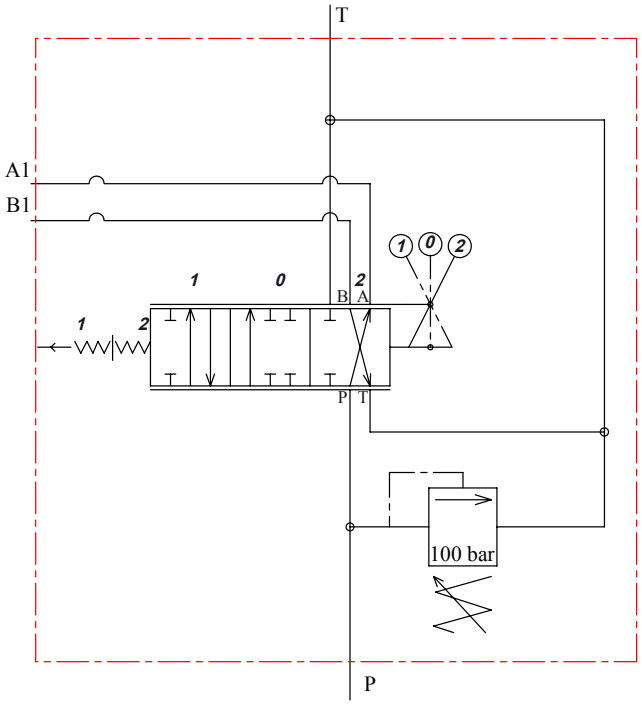
DESCRIPTION: The hydraulic distributor P35S is used for switching on/off and directing the working fluid between head flow generators (hydraulic pumps), head flow consumers (hydraulic cylinders, motors, etc.), and the tank. It has a setting from 70 to 140 bar for automatic switch-off. It is designed as a "log splitter valve".

CONSTRUCTION: The hydraulic distributor P35S is a mono-block distributor with manual control. The body is made of cast iron EN-GJL300, and the spool is made of carburized steel with hard chrome plating.

MOUNTING: The distributor is fixed with 3 (three) bolts M8


33
55
38,5
20
M6x40


1←0←2
G 3/8"
T
A1
B1
P
11
46
29
S5
24
28
86
164
⌀9(2x)
74
70
61,5
(205,5)


T
A1
B1
1
0
2
B
A
P
T
100 bar
P

P40 MONOBLOCK HYDRAULIC - D.C. VALVE

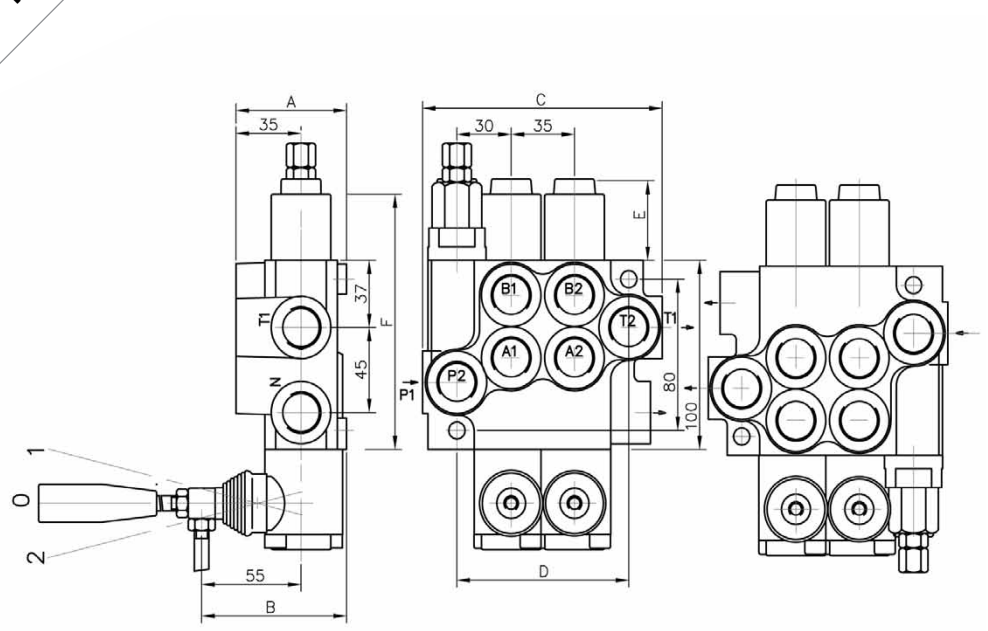
Technical parameters:

Ambient temperature	-40C...+60C
Hydraulic liquid -mineral oil based/hydraulic oil Viscosity	12 ...800 mm2/s
Fluid temperature	-15C...+80C
Filtration	10 to NAS 1638
Max operating pressure, P=250; T=50 bar	A , B = 300 bar
Leakage(A,B-T)	15cm3/min at 120bar
Nominal flow	40 l/min
Spool stroke	6 mm
Actuating force	< 200 N
Modification/ Spools	with 1 to 7

DESCRIPTION: Manually or mechanically controlled hydraulic directional control valve P40 is designed for distribution and control of work flow between generator (pump) and executive mechanisms (cylinder, hydro-motor, etc.). It is manufactured with 1 to 7 plungers, with parallel or serial action, with common or individual back valve for each plunger, with or without safety valve

CONSTRUCTION: P40 is a mono-block distributor. Its body is made of cast iron EN-GJL300. Plungers are made of carburized steel with hard chrome plating.

MOUNTING: The distributor is fixed with two bolts M8



ORDERING CODES

0	2	P40	R	1	A	1	A	1	G	KZ1	T	H	E	C2	11
Table 3				Table 4	Table 5	Table 6			Table 9	Table 10		Table 8	Table 7	Table 11	Table 12
block with common check valve	number of spools	directional control valve type...	inlet high pressure - right	way of distribution / parallel or.../	first spool distribution type	spool control / dedant and etc./	second spool distribution type	spool control / dedant and etc./	ports / treads /	general operation feature	with " teton"	operation feature / pneumatic,.../	with electric switch	high pressure carry over	connection ports in use

	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	+	+	+	+
02P40	60	80	129	97	+	+	+	+
03P40	60	80	164	132	+	+	+	+
04P40	60	80	199	167	+	+	+	+

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

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

code	way of distribution /
1	parallel
2	tandem (parallel series)

Table 5

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

Table 6

code	spool control
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
* 13	
* 16	
** 13R	
** 12	

code	Incorporated microswitch	
E		microswitch type omron-V 165 I C 5

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

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

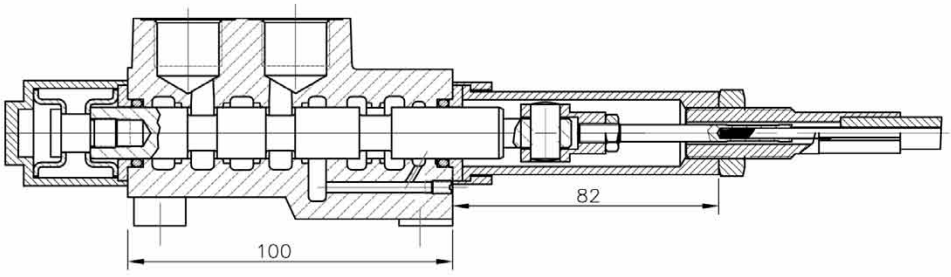
Table 10

code	feature	code	feature	code	feature
KZ	M8	KY	ø9	KI	
KZ1	155	KY1	170	KI1	170
KZ0		KY0		KI0	
KZ01		KY01		KI01	
–	without hand control				

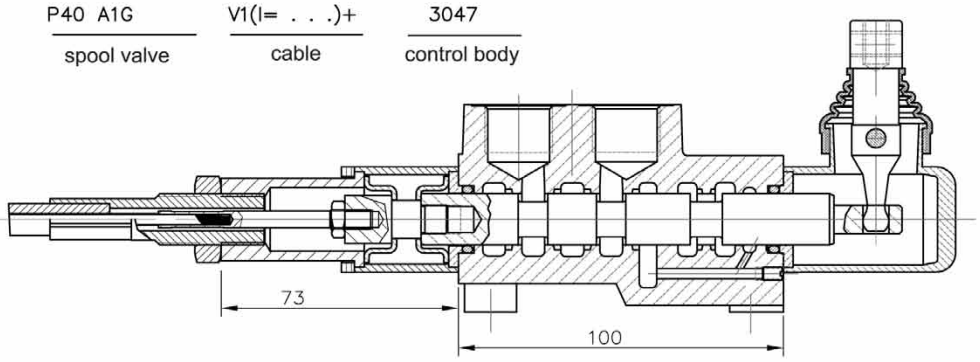
code	
C	closed center
C1	part for power beyond sleeve (carry over) M22x1.5
C2	part for power beyond sleeve (carry over) ø14 mm M22x1.5
-	without part for pressure carry over G 1/2
X	power beyond ever to tank

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

REMOTE CONTROLS

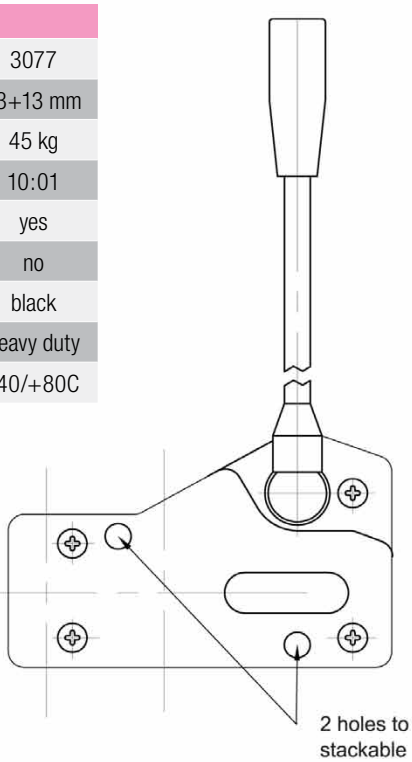


P40 A1G — spool valve
V1(l= . . .)+ — cable
3047 — control body



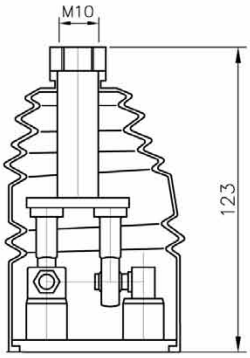
P40 A1G — spool valve
V2KZ1(l= . . .)+ — cable
3047 — control body

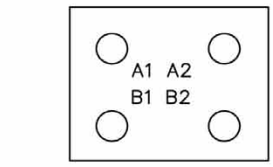
technical specifications			
	3047	3076	3077
stroke	13+13 mm	13+13 mm	13+13 mm
max. load	45 kg	45 kg	45 kg
level ratio	10:01	10:01	10:01
lock in neutral	no	no	yes
antireverse lock	no	yes	no
body color	black	black	black
cables type	heavy duty	heavy duty	heavy duty
operating temperature	-40/+80C	-40/+80C	-40/+80C



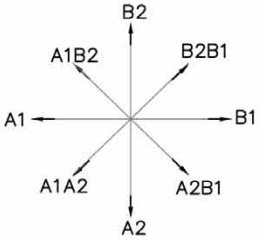
High solidity controls for easy mounting on every type of distributor.
They can bymounted stand alone or packed together.
They use push-pull heavy duty cables that provide a positive smooth operating lever and are manifactured in a three differents models to meet different needs of Clients.

JOYSTICK´´+``
his control gives the possibility to operate, at the same time two spool with a ´´+`` movement

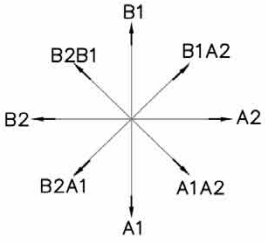




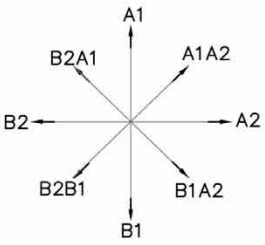
standart versiyon 1



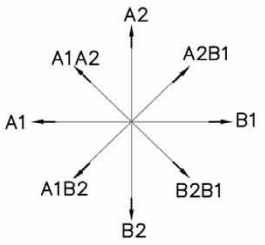
standart versiyon 2

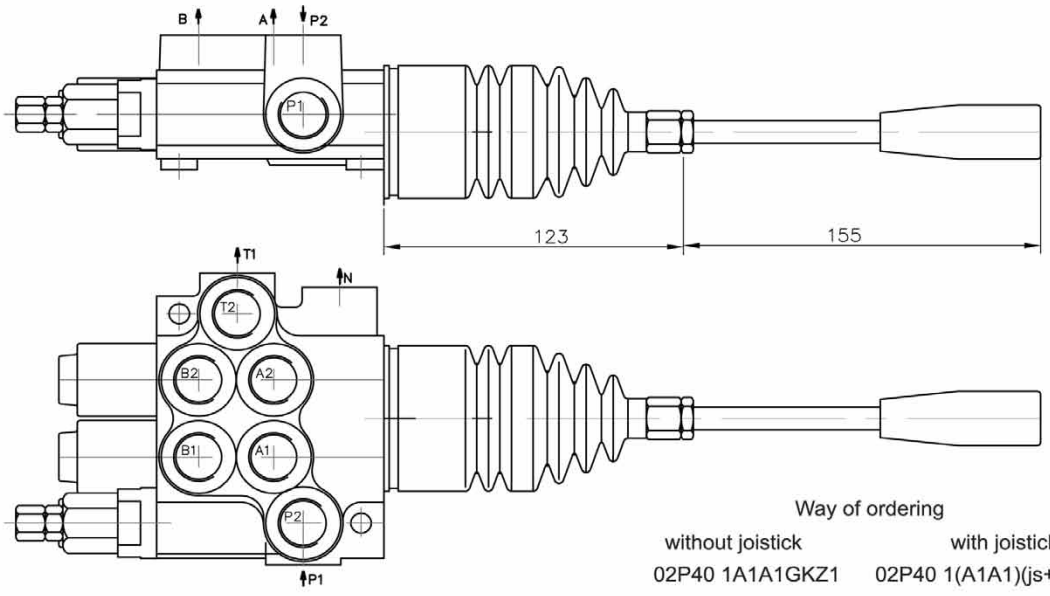


standart versiyon 3



standart versiyon 4





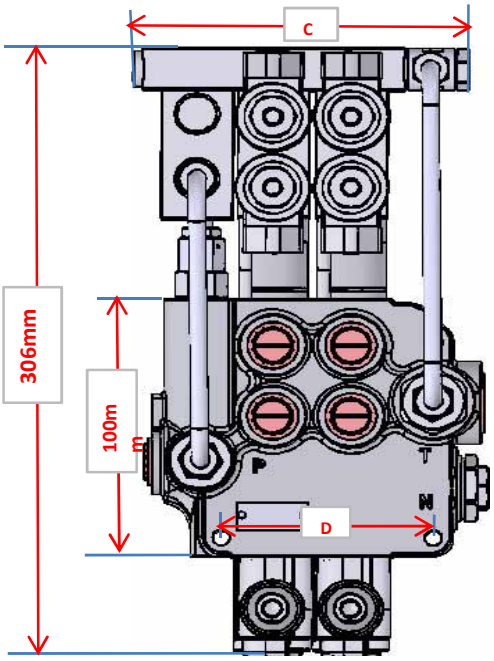
Way of ordering

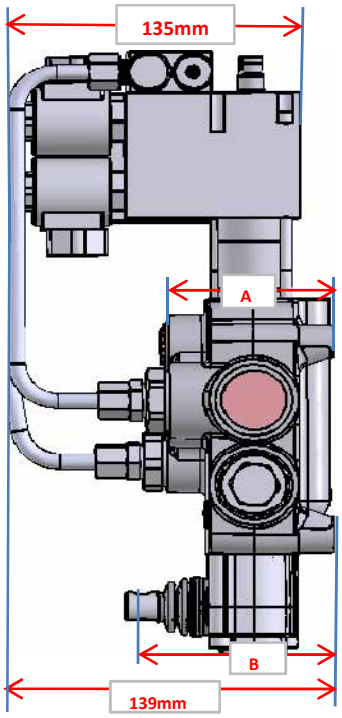
without joistick	with joistick
02P40 1A1A1GKZ1	02P40 1(A1A1)(js+3)G

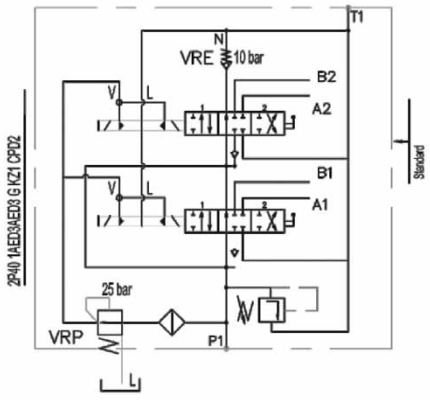
Technical parameters:

Maximum operating pressure of the valve, P=250;T=50 bar	A, B = 300 bar
Nominal flow	40 l /min
Leakage(A, B-T)	15cm3/min at 120 bar
Operating pressure min/max	10/50 bar
Max operating pressure in L (T line)	25 bar
Solenoid operating feature - Nom voltage tolerance	+/-10%
Power rating , Duty cycle	24W / 100 %
Collector Kit for 1 to 4 sections	

DESCRIPTION: The electrohydraulic control option is designed for standard monoblock valve P40.





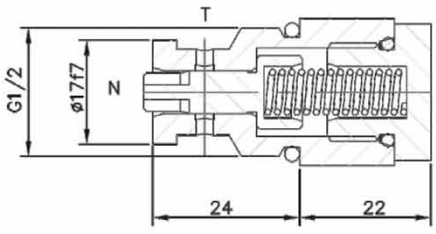


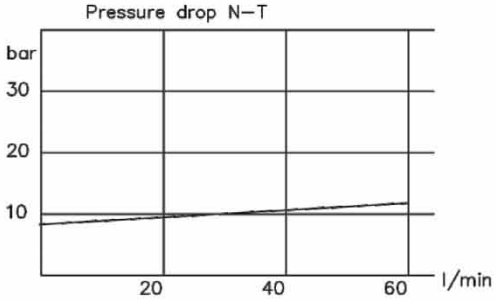
ordering codes (BSP threads)	
CED1	kit for 1 section
CED2	kit for 2 section
CED3	kit for 3 section
CED4	kit for 4 section

Ordering example

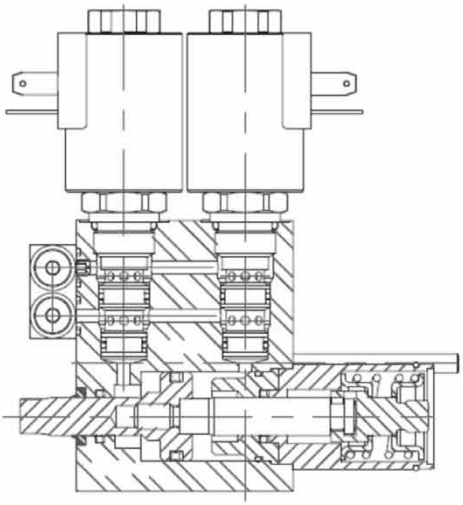
2P40-VRP-1A1ED3A1ED3 G KZ1-CED2-VRE-12VDC

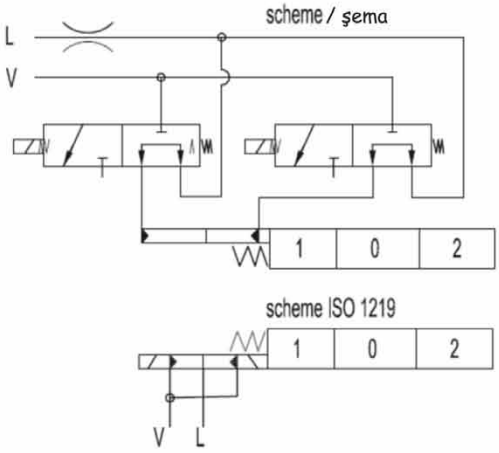
Back pressure valve VRE-P40





Directional control valve P40
ED3 - Electro - hydraulic control ON-OFF



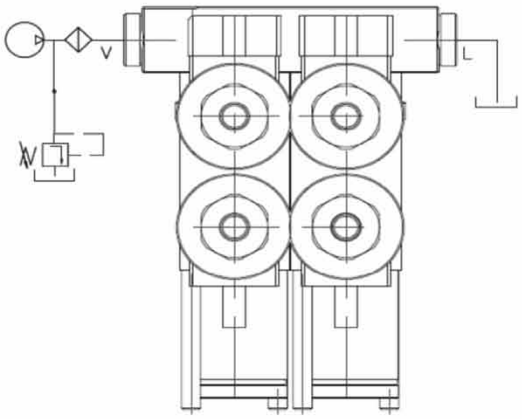


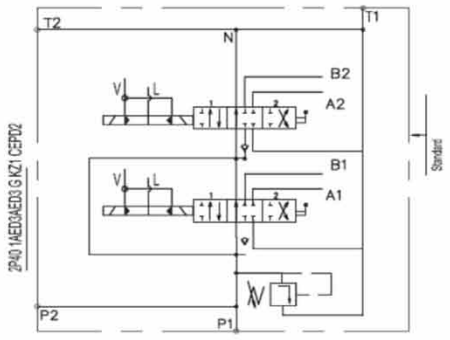
Ordering codes

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)
Solenoid operating features	25 bar(360 psi)
Nominal voltage tolerance	±10%
Power rating	24W
Duty cycle	100 %

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

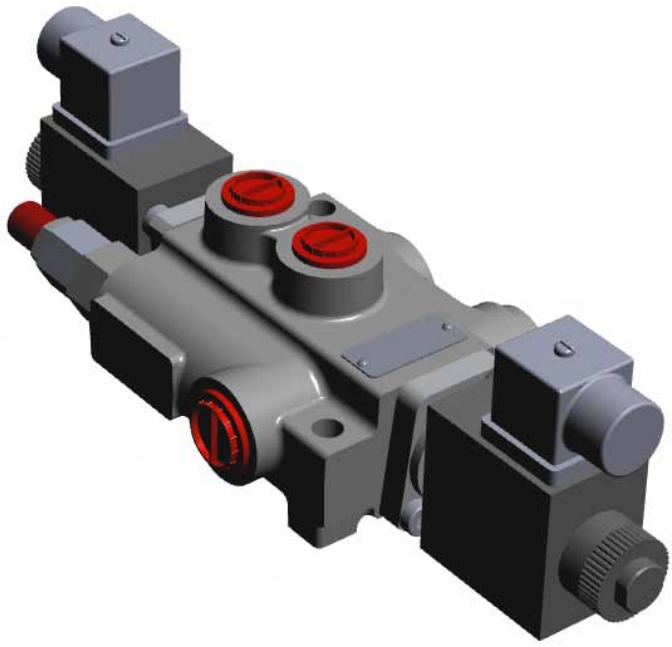




Ordering example

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 section



Technical parameters:

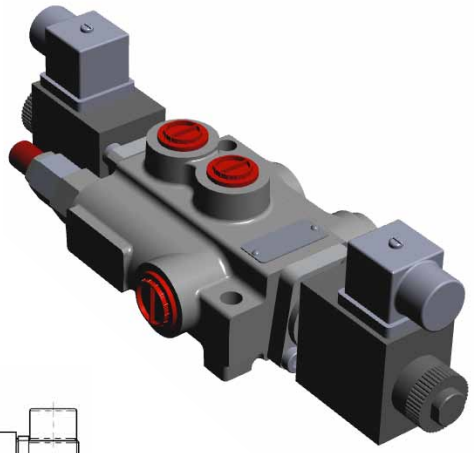
Nominal flow	50 l/min
Max operating pressure, P=250; T=10 bar	A , B = 300 bar
Leakage (A,B>T)	15 cm3/min at 120 bar
Hydraulic liquid	Mineral base oil
Viscosity	12...800 mm2/s
Fluid temperature	-20C to 80C
Ambient temperature	-40C...+60C
Spool stroke	6 mm
Actuating force	<220 N

DESCRIPTION: The monoblock directional control valves-solenoid operated, offer perfect choice whether you are designing a new system or just simply trying to get more out of your current system. With two special spools and 7 different monoblock housings these valves can meet the specific needs of your application and hydraulic schemes by their double acting in 3 positions A and D spools.

CONSTRUCTION: Precise bore honing and spool grinding results in less cross-port leakage and less wasted energy. These precise valves also allow for interchangeable spools for easy on place maintenance.

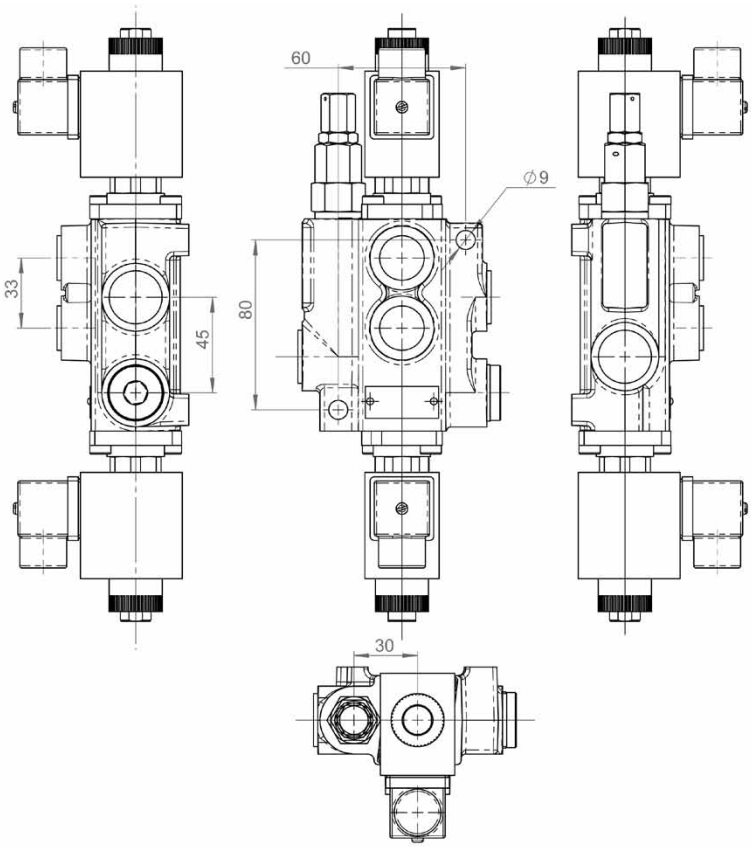
MOUNTING: The mounting is the same as standard monoblock valves using bolts M8 or complete line of stud kits.

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 / Spol seçenekleri

Type/Tipi	Description / Tanımı
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

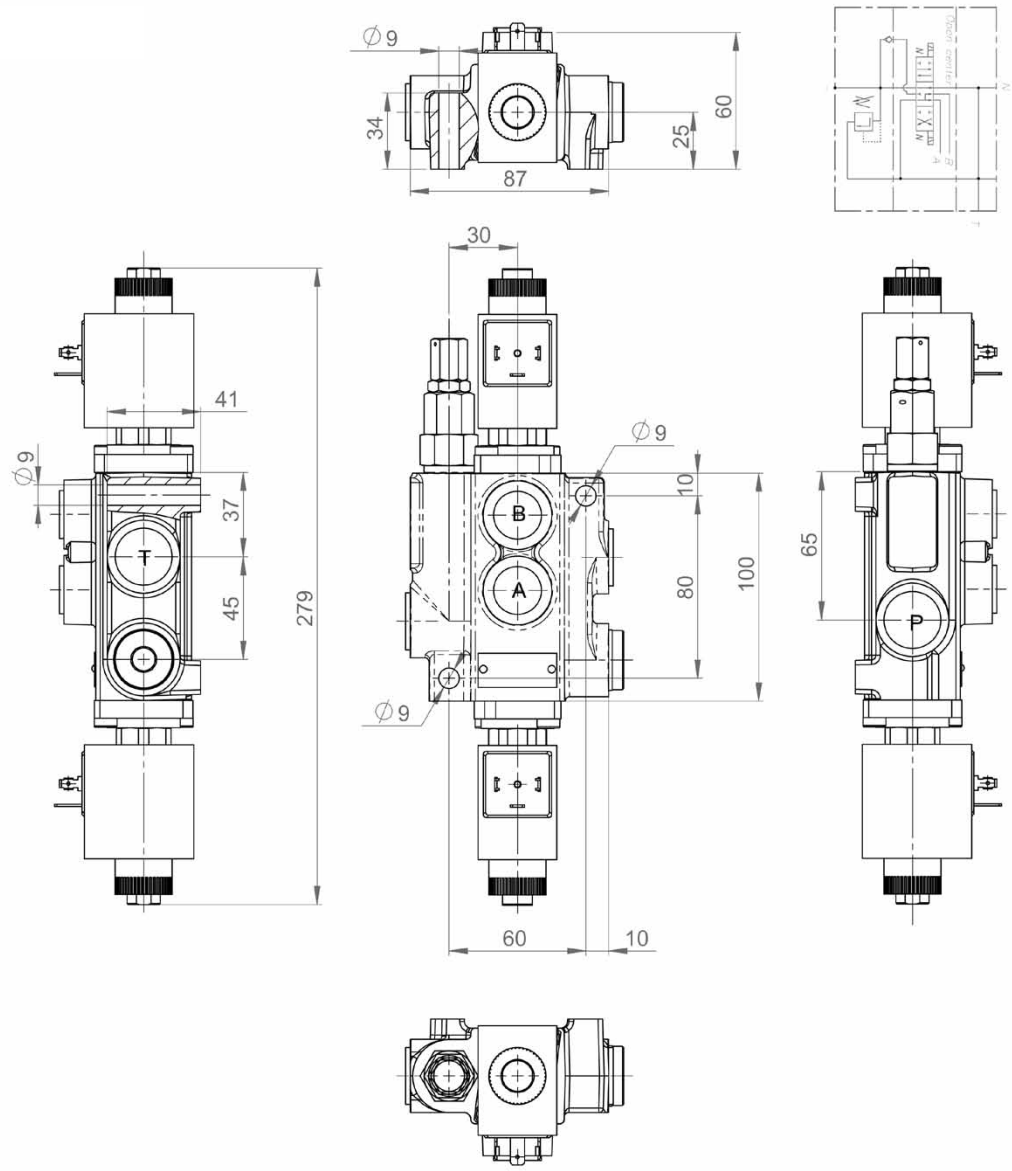
Type	Description
Es1	Single acting P-A with spring return in neutral position
Es2	Single acting P-B with spring return in neutral position
ES3	Double acting P-(B) with spring return in neutral position

4.Coils

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

5.Threads

G	P.T - G1/2; A,B - G3/8



Operating features

Control
Internal leakage A(B)-T
(p=100 bar Viscosity 35 cST : max 18 cc/min

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

Technical parameters:

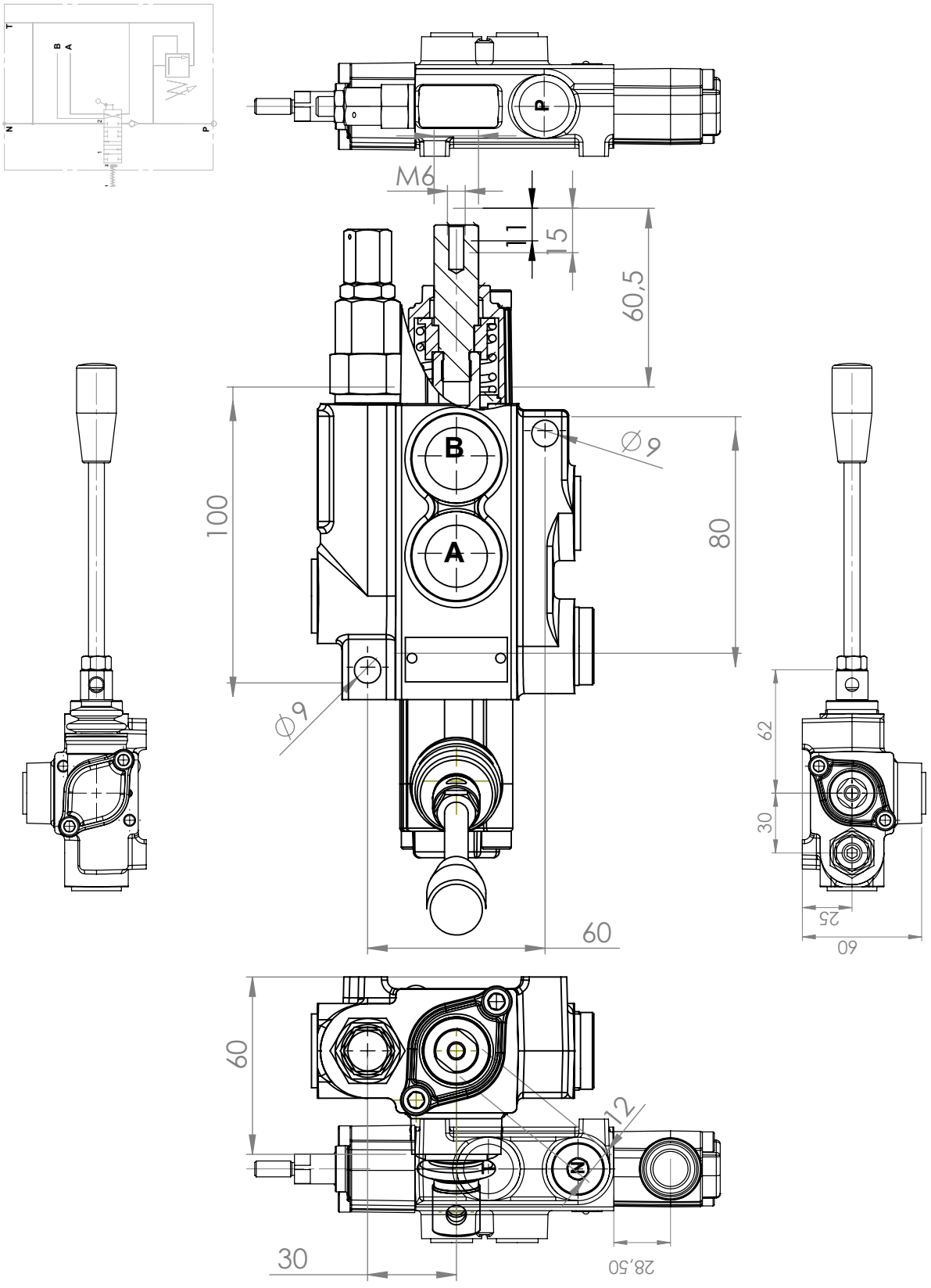
Ambient temperature	-40C...+60C
Hydraulic liquid -mineral oil based/hydraulic oil Viscosity	12 ...800 mm2/s
Fluid temperature	-15C...+80C
Filtration	10 to NAS 1638
Max operating pressure, P=250; T=50 br	A , B = 300 bar
Pressure for authomatical release of spool	70-140, bar
Leakage(A,B-T)	15cm3/min at 120bar
Nominal flow	50 l/min
Spool stroke	+/- 7,9 mm
Actuating force	< 220 N

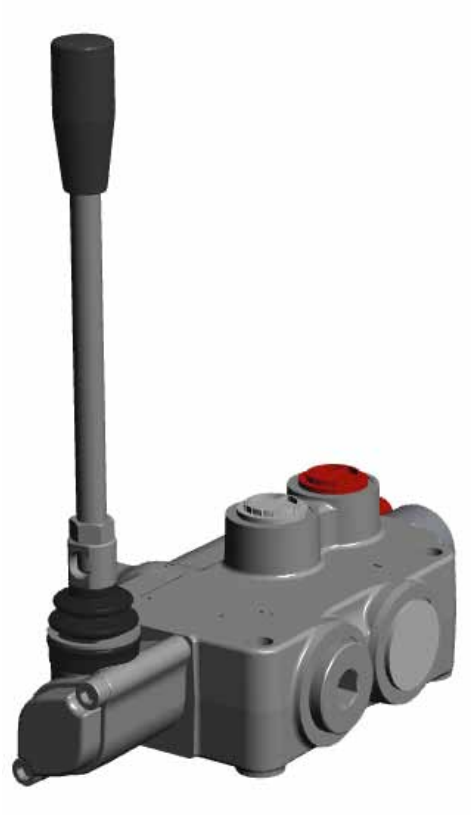
- Hydraulically balanced, hard chrome plated spool
- Lever system in which the handle can be installed in up or down position
- In neutral position both works ports are blocked and the pump unloads to tank

DESCRIPTION: The hydraulic distributor Z50 LS is used for switching on/off and directing the working fluid between head flow generators (hydraulic pumps), head flow consumers (hydraulic cylinders, motors, etc.), and the tank. It has a setting from 70 to 140 bar for automatic switch-off. It is designed as a "log splitter valve".

CONSTRUCTION: The hydraulic distributor Z50 LS is a mono-block distributor with manual control. The body is made of cast iron EN-GJL300, and the spool is made of carburized steel with hard chrome plating.

MOUNTING: The distributor is fixed with 3 (three) bolts M8.


T
B
A
N
P
M6
11
15
60,5
B
A
100
80
Ø9
Ø9
62
30
25
60
60
60
12
30
28,50



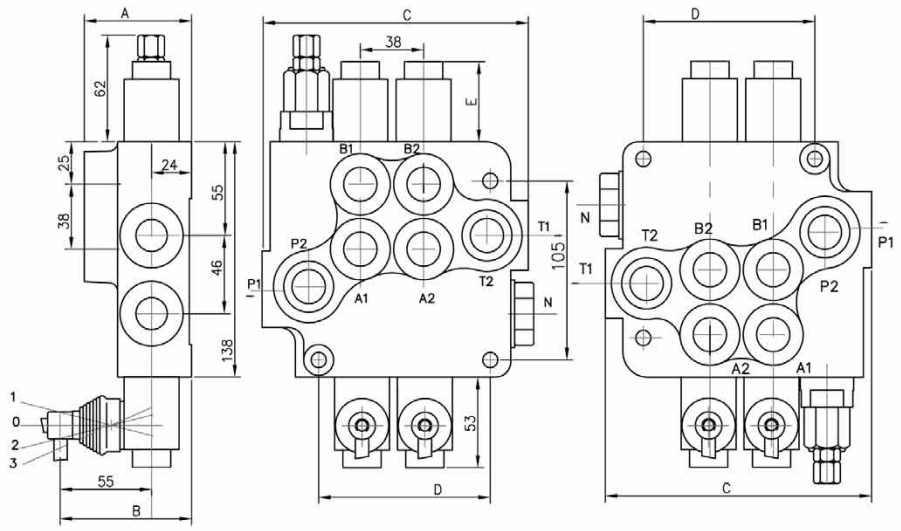
Technical parameters:

Ambient temperature	-40C...+60C
Hydraulic liquid -mineral oil based/hydraulic oil Viscosity	12 ...800 mm2/s
Fluid temperature	-15C...+80C
Filtration	10 to NAS 1638
Max operating pressure, P=250; T=50 bar	A , B = 300 bar
Leakage(A,B-T)	18cm3/min at 120bar
Nominal flow	80 l/min
Spool stroke	+/- 7 mm
Actuating force	< 220 N
Modification / Spools	with 1 to 6

DESCRIPTION: The hydraulic distributor P80 is used for switching on/off and directing the working fluid between head flow generators (hydraulic pumps), head flow consumers (hydraulic cylinders, motors, etc.), and the tank. It is manufactured with up to 6 plungers with parallel or serial distribution

CONSTRUCTION: The hydraulic distributor P80 is a mono-block distributor with manual control. The body is made of cast iron EN-GJL300, and the spools are made of carburized steel with hard chrome plating

MOUNTING: The distributor is fixed with 3 (three) bolts M8.



ORDERING CODES

0	2	P80	R	1	A	1	A	1	G	KZ1	T	H	E	C2	11
block with common check valve	number of spools	directional control valve type ...	inlet high pressure - right	way of distribution / paralel or .../	first spool distribution type	spool control / detend and etc./	second spool distribution type	spool control / detend and etc./	ports / treads /	general operation feature	with ''teton''	operation feature .../	with electric switsh	high pressure carry over	connection ports in use

	A	B	C	D	P1	P2	T1	T2
P80	65	79	107	65	*	*	-	-
2P80	60	94	160	103	*	*	*	*
3P80	60	94	198	141	*	*	*	*
4P80	60	94	242	179	*	*	*	*
5P80	60	94	280	217	*	*	*	*
6P80	60	94	318	255	*	*	*	*

code	number of spools
	1
2	2
3	3
4	4
5	5
6	6

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

code	way of distribution
1	parallel
2	tandem (series parallel)

Table / Tablo 5

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

Table / Tablo 6

code kod	spool control / sürgü kontrolü
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

code	incorporated microswitch	
E		microswitch type omron-V 165 I C 5

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

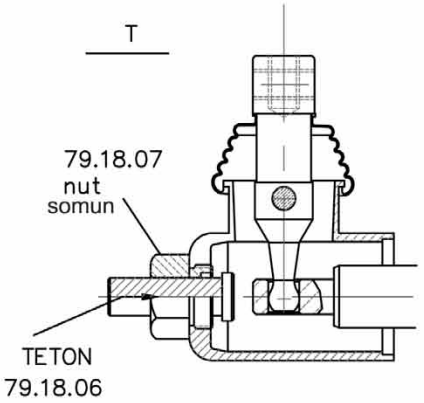
code	ports (treads)			
	P	A ; B	T	N
M	M22x1.5	M22x1.5	M26x1.5	M26x1.5
G	G1/2	G1/2	G3/4	G3/4
S	7/8-14UNF	7/8-14UNF	1 1/16-14UNF	1 1/16-14UNF

Table / Tablo 10

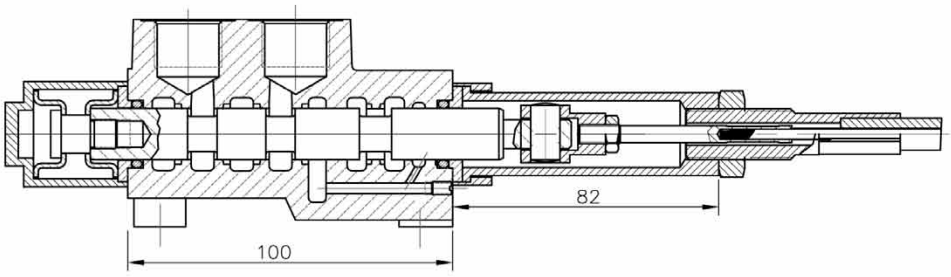
code kod	feature / özellik	code kod	feature / özellik		feature / özellik
KZ	M10 / M10	KY	ø9	KI	ø9
KZ1	155	KY1	170	KI1	170
KZ0		KY0		KI0	
KZ01		KY01		KI01	
–	without hand control / elle kontrol olmadan				

code		
C	closed center	
C1	part for power beyond sleeve (carry over)	ø14 mm M22x1.5
C2	part for power beyond sleeve (carry over)	G 1/2 M22x1.5
-	without part for pressure carry over	
X	power beyond ever to tank	

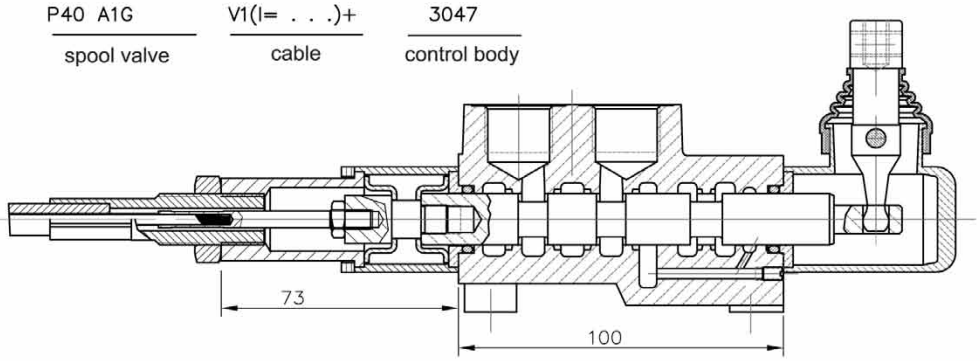
code	used connection ports
11	P1 ; T1
12	P1 ; T2
21	P2 ; T1
22	P2 ; T2



REMOTE CONTROLS

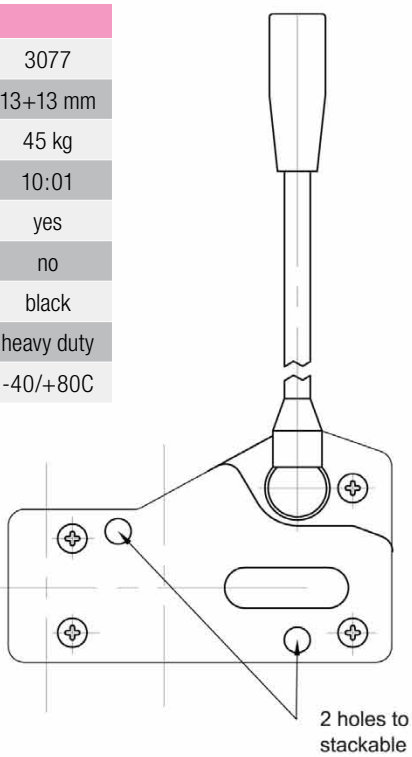


P40 A1G — spool valve
V1(l= . . .)+ — cable
3047 — control body



P40 A1G — spool valve
V2KZ1(l= . . .)+ — cable
3047 — control body

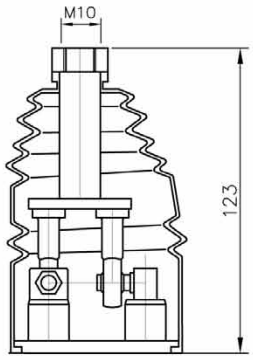
technical specifications			
	3047	3076	3077
stroke	13+13 mm	13+13 mm	13+13 mm
max. load	45 kg	45 kg	45 kg
level ratio	10:01	10:01	10:01
lock in neutral	no	no	yes
antireverse lock	no	yes	no
body color	black	black	black
cables type	heavy duty	heavy duty	heavy duty
operating temperature	-40/+80C	-40/+80C	-40/+80C

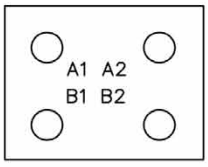


2 holes to mounting stackable

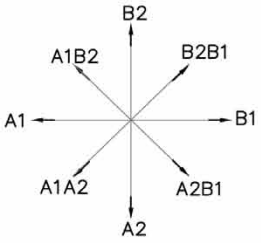
High solidity controls for easy mounting on every type of distributor.
They can bymounted stand alone or packed together.
They use push-pull heavy duty cables that provide a positive smooth operating lever and are manifactured in a three differents models to meet different needs of Clients.

JOYSTICK´´+``
his control gives the possibility to operate, at the same time two spool with a ´´+`` movement

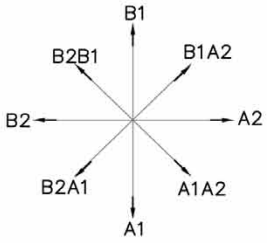




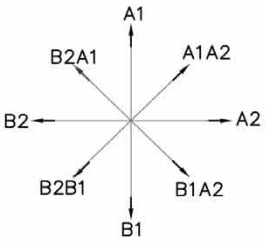
standart versiyon 1



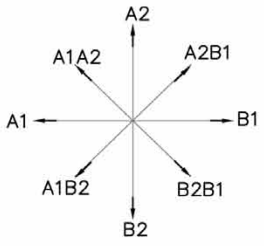
standart versiyon 2

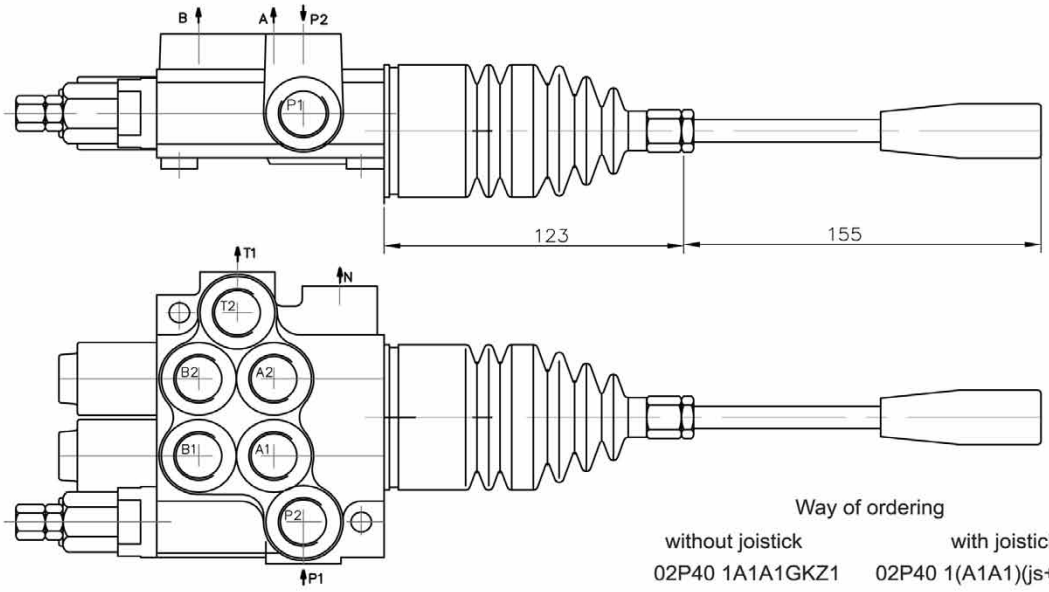


standart versiyon 3



standart versiyon 4





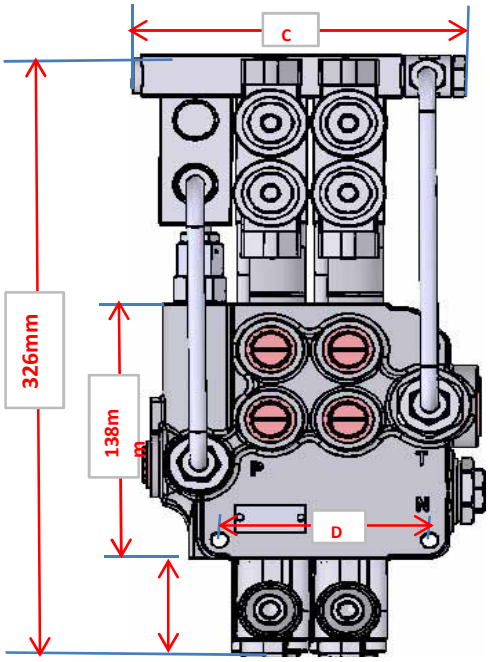
Way of ordering

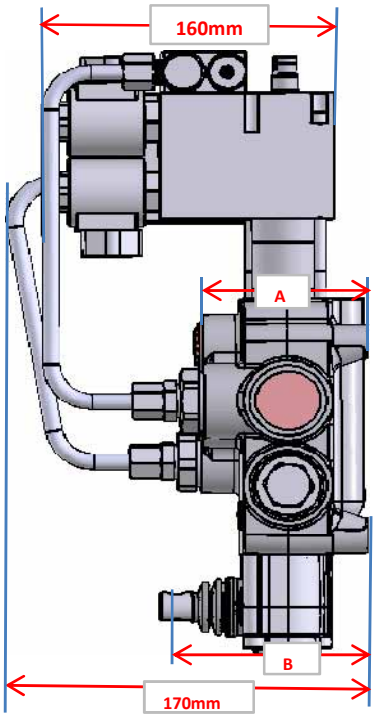
without joistick	with joistick
02P40 1A1A1GKZ1	02P40 1(A1A1)(js+3)G

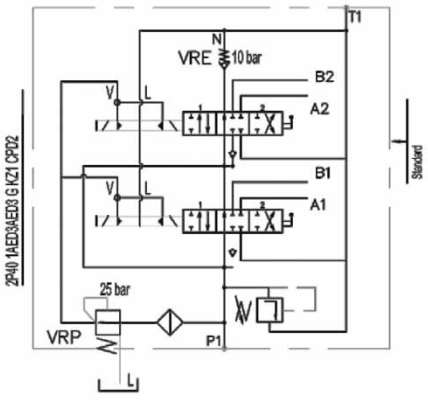
Technical parameters:

Maximum operating pressure of the valve, P=250;T=50 bar	A, B = 300 bar
Nominal flow	40 l /min
Leakage(A, B-T)	15cm3/min at 120 bar
Operating pressure min/max	10/50 bar
Max operating pressure in L (T line)	25 bar
Solenoid operating feature - Nom voltage tolerance	+/-10%
Power rating , Duty cycle	24W / 100 %
Collector Kit for 1 to 4 sections	

DESCRIPTION: The electrohydraulic control option is designed for standard monoblock valve P40.





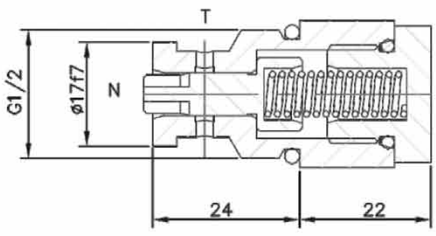


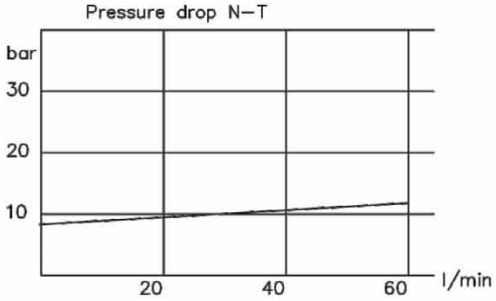
ordering codes (BSP threads)	
CED1	kit for 1 section
CED2	kit for 2 section
CED3	kit for 3 section
CED4	kit for 4 section

Ordering example

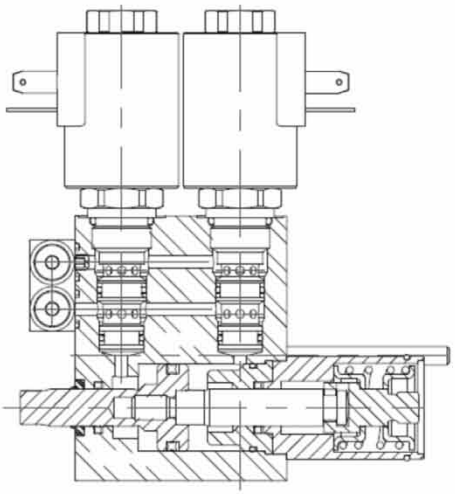
2P40-VRP-1A1ED3A1ED3 G KZ1-CED2-VRE-12VDC

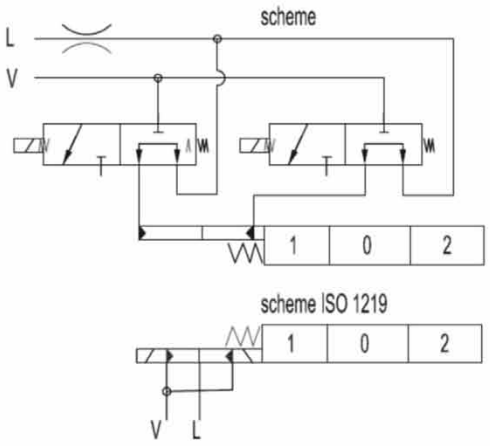
Back pressure valve VRE-P40





Directional control valve P80
ED3 - Electro - hydraulic control ON-OFF

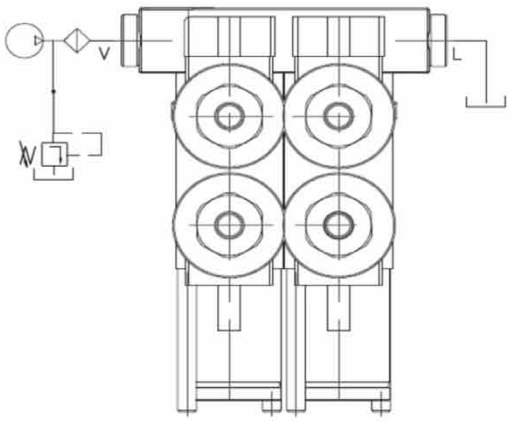


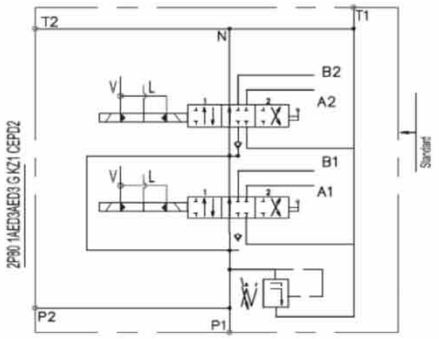


Ordering codes
3-wai solenoid valve-SV08-33
coil P80ED3-G-12VDC
coil P80ED3-G-24VDC

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

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

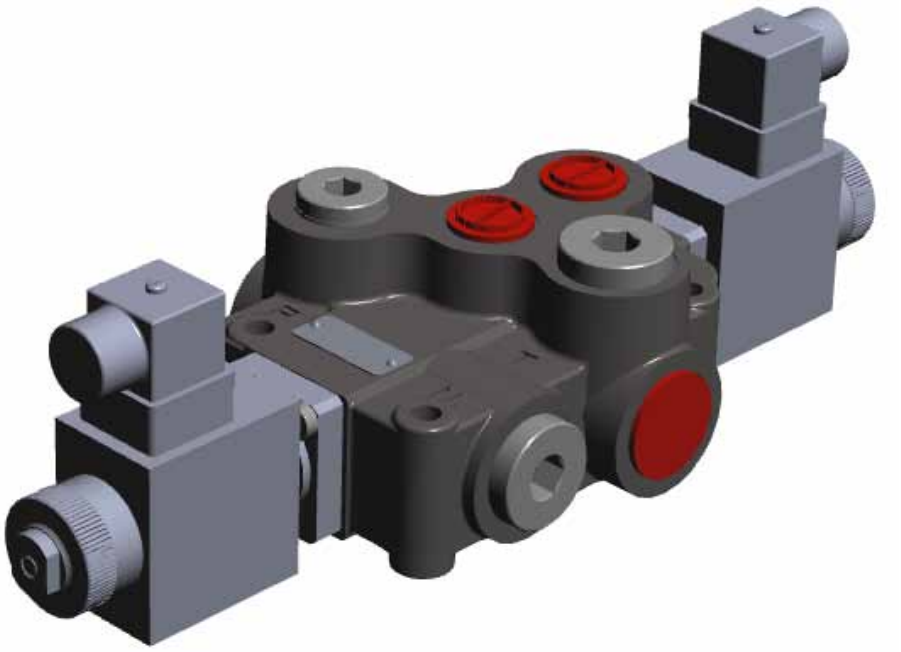




Ordering example

2P80-1A1ED3A1ED3 G KZ1-CEED2-12VDC

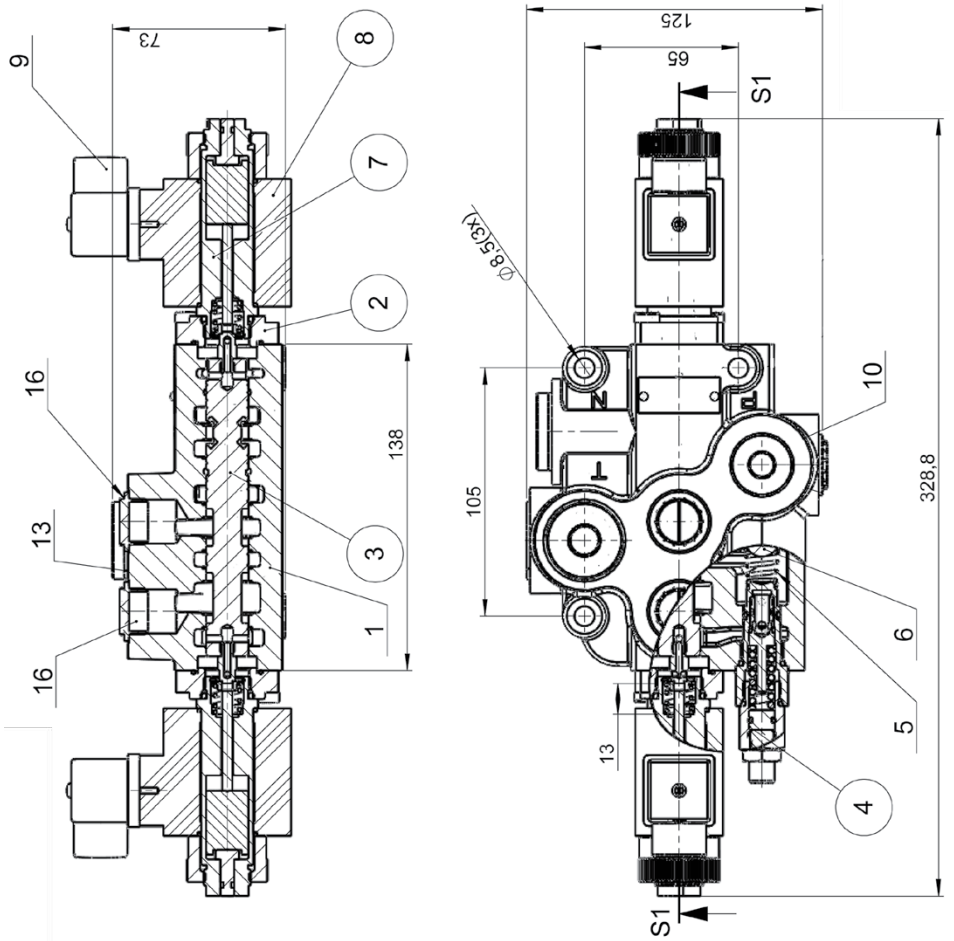
ordering codes (BSP threads)	
CEED1P80	kit for 1 section
CEED2P80	kit for 2 section
CEED3P80	kit for 3 section
CEED4P80	kit for 4 section

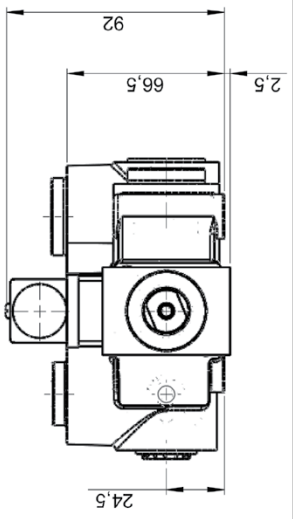


Technical parameters:

Nominal flow	80 l/min
Max operating pressure, P=250; T=10 bar	A , B = 300 bar
Leakage (A,B>T)	18 cm3/min at 120 bar
Hydraulic liquid Mineral base oil Viscosity	20...800 mm2/s
Fluid temperature	-20C to 80C
Ambient temperature	-40C...+60C
Spool stroke	6 mm
Actuating force	<220 N

DESCRIPTION: The directional mono block valve Z80 is a valve with specially machined body. The throttle channels are realized at the spool's surface. The design of the valve is implemented for applications which need precise and lightly distribution of hydraulic fluid. The construction guarantee precise metering diagram.





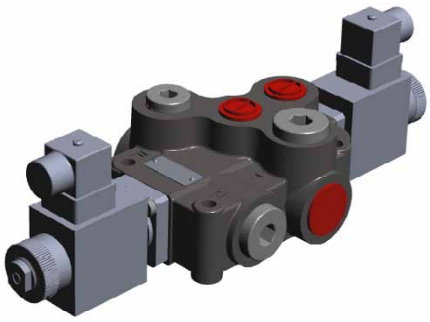
Part	P1	P2	A	B	T1	T2	N
511.00.00.01-01	G1/2	G1/2	G1/2	G1/2	G3/4	G3/4	G3/4
-02	7/8 SAE	7/8 SAE	7/8 SAE	7/8 SAE	1"1/16 SAE	1"1/16 SAE	1"1/16 SAE
-03	1/2 NPT	1/2 NPT	1/2 NPT	1/2 NPT	3/4 NPT	3/4 NPT	3/4 NPT
-04	M22x1,5	M22x1,5	M22x1,5	M22x1,5	M26x1,5	M26x1,5	M26x1,5

CONTROL

Internal leakage A(B) → T
(P=120 bar, viscosity = 32 mm²/s : max. 40 l/m)
Fluid temperature - 20º C (short time)…..80 ºC
Max. back pressure on outlet port T – 25 bar (360 psi)

COIL

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



BODY KIT

Type	Description
01Z80	1 spool
02Z80	2 spool
03Z80	3 spool
04Z80	4 spool
05Z80	5 spool
06Z80	6 spool

SPOOL OPTIONS

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

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

COIL (with connector ISO 4400)

Type	Description
12 VDC	Nominal voltage 12 VDC
24 VDC	Nominal voltage 24 VDC

THREADS

G	P, A, B – G1/2 ; T – G3/4

P120 MONOBLOCK HYDRAULIC - D.C. VALVE

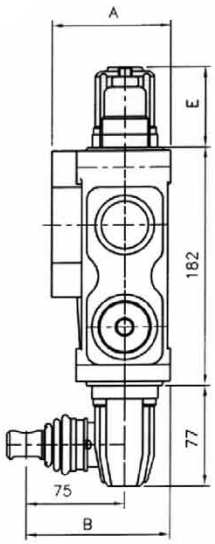
Technical parameters:

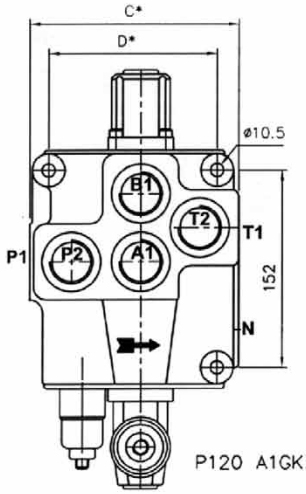
Ambient temperature	-40C...+60C
Hydraulic liquid -mineral oil based/hydraulic oil Viscosity	12 ...800 mm2/s
Fluid temperature	-15C...+80C
Filtration	10 to NAS 1638
Max operating pressure, P=250; T=50 bar	A , B = 300 bar
Leakage(A,B-T)	30cm3/min at 120bar
Nominal flow	120 l/min
Spool stroke	10 mm,L12+/-10/6
Actuating force	< 300 N
Modification/Spools	with 1 to 4

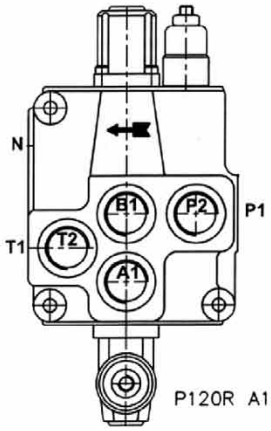
DESCRIPTION: The hydraulic distributor P120 is used for switching on/off and controlling of the working fluid between head flow generators (hydraulic pumps), head flow consumers (hydraulic cylinders, motors, etc.), and the tanks of hydraulic systems of mobile machines (electrical and diesel forklifts, excavators, auto-cranes, etc.).

CONSTRUCTION: The hydraulic distributor P120 is a mono-block type with manual control. The body is made of cast iron EN-GJL300, and the spools are made of carburized steel with hard chrome plating

MOUNTING: The distributor is fixed with 3 bolts M10







ORDERING CODES

02	P120	1	A	1	L	12	G	KZ1	H	E	C2	-11
Number of spools	Hydraulic directional control valve	Parallel distribution	Spool type - distribution	Spool control	Second spool distribution	Second spool control	Ports threads	Lever Options	Operation features	Elektric micro switch	Carry over center	Connection ports in use

	A	B	C	D	P1	P2	T1	T2
P120	92	110	160	129	+	+	+	+
2P120	92	110	213	182				
3P120	92	110	266	235				
4P120	92	110	319	288				

code	number of spools
P	1
02, 2	2
03, 3	3
04, 4	4

spool control	E
1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11;	64
12	74

code	way of distribution
1	parallel
(2)	tandem (series parallel)

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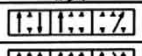
B	
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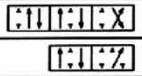
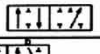
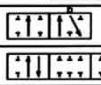
D	
E	
F	
G	
H	
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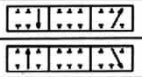
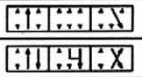
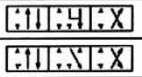
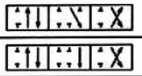
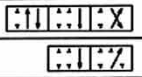
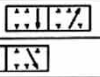
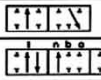
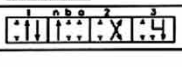
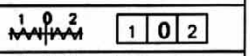
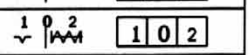
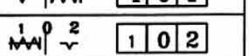
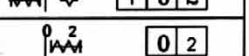
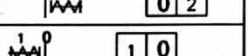
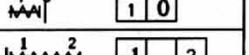
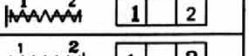
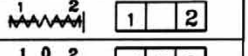
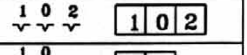
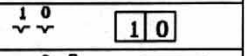
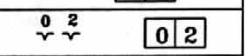
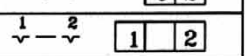
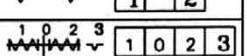
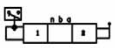
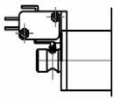
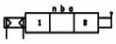
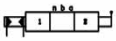
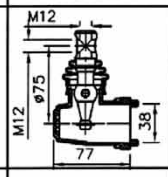
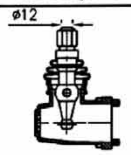
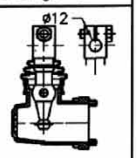
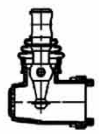
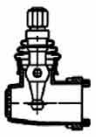
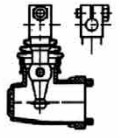
N	
O	
P	
Q	
R	
S	
T	
L	

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

code	Incorporated microswitch		
E		microswitch type Omron-V 165 I C 5	

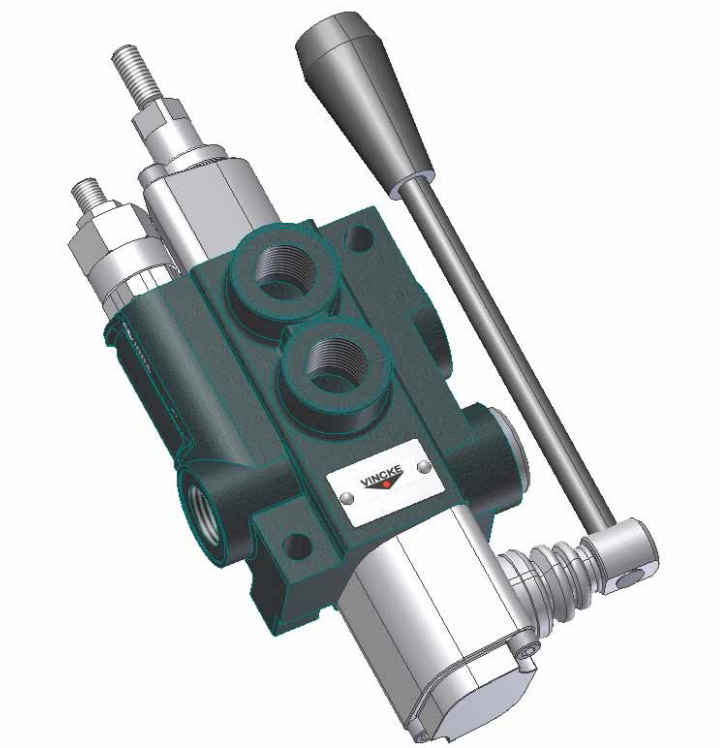
code	operation feature	
P		on-off pneumatic control; 5-10 bar; ports G1/4
H		on-off hydraulic control; pn = 5-20 bar; ports G1/4

outlets / ports	metric	BSP	SAE	NPT
P, A, B, T	M33X2	G 1"	SAE 16	1 - 11.5
N	M36X1.5	-	-	-

code	with thread M12	code	with cange ø12	code	with cange ø12
KZ		KY		KI	
KZ1		KY1		KI1	
KZ0		KY0		KI0	
KZ01		KY01		KI01	

code	metric
X	without N
-	with N but closed
C	with N but closed center
C1	with N-carry over for ermeto
C2	with N-carry, internal thread

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



Technical parameters:

Nominal flow rating	120 l/min
Max operating pressure, P=250; T=10 bar	A , B = 300 bar
Leakage (A,B>T)	30 cm3/min at 120 bar
Hydraulic liquid Mineral base oil Viscosity	12...800 mm2/s
Fluid temperature	-20C to 80C
Ambient temperature	-40C...+60C
Spool stroke	10 mm
Actuating force	<300 N

- Hydraulically balanced, hard chrome plated spool
- Lever system in which the handle can be installed in up or down position
- In neutral position both works ports are blocked and the pump unloads to tank

DESCRIPTION: The hydraulic distributor P120 LS is used for switching on/off and directing the working fluid between head flow generators (hydraulic pumps), head flow consumers (hydraulic cylinders, motors, etc.), and the tank. It has a setting from 70 to 140 bar for automatic switch-off. It is designed as a "log splitter valve".

CONSTRUCTION: The hydraulic distributor P120S is a mono-block distributor with manual control. The body is made of cast iron EN-GJL300, and the spool is made of carburized steel with hard chrome plating.

MOUNTING: The distributor is fixed with 3 (three) bolts M10.