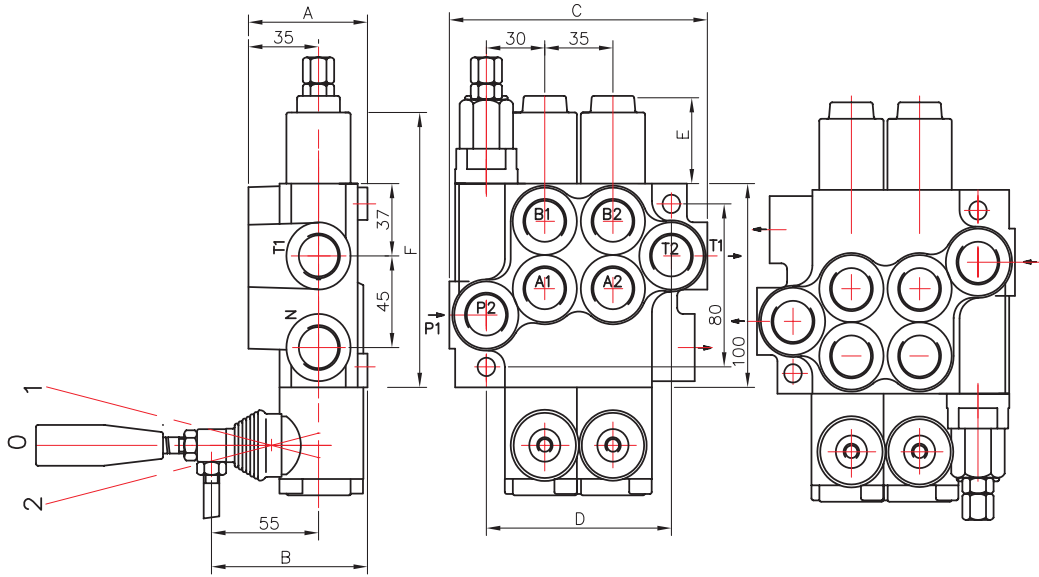




SİPARİŞ KODLARI / ORDERING CODES

0 2 P40 1 A 1 A 1 G KZ1 T H E C2 11

standart çek valfii blok
block with common check valve

mil sayısı
number of spools

yön kontrol valfi tipi...
directional control valve type...

dağılım yolları/paralel yada.../
way of distribution / parallel or.../

ilk mil dağıtım tipi
first spool distribution type

mil kontrolü /dedant vs./
spool control / dedant and etc./

ikinci mil dağıtım tipi
second spool distribution type

mil kontrolü /dikkatle boşaltım./
spool control / dedant and etc./

giriş / Dişli/
ports / treads /

genel operasyon özelliği
general operation feature

“meme başı” ile
with “teton”

operasyon özelliği/ pnomatik.../
operation feature / pneumatic,.../

elektrik düğmesi ile
with electric switch

yüksek basıncı ayırıcı
high pressure carry over

kullanılan bağlantı girişi
connection ports in use

Table / Tablo 1

	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	+	+	+	+
2P40	60	80	129	97	+	+	+	+
3P40	60	80	164	132	+	+	+	+
4P40	60	80	199	167	+	+	+	+

Table / Tablo 2

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

Table / Tablo 3

code	Number of spools Sürgü numaraları
	1
02, 2	2
03, 3	3

Table / Tablo 4

code	way of distribution / yağ dağıtım yolları
1	parallel / paralel
2	tandem(series parallel) / seri paralel

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	
* K	
** L	

Table / Tablo 6

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

Table / Tablo 7

code kod	incorporated microswitch / birleştirilmiş mikro anahtar
E	 microswitch type mikro anahtar tipi Omron-V 165 I C5

Table / Tablo 8

code kod	operation feature / operasyon özelliği
P	 on-off pneumatic control; 5-10 bar; ports G1/4 açma-kapama pnomatik kontrol; 5-10 bar; girişler G1/4
H	 on-off hydraulic control; pn = 5-20 bar; ports G1/4

Table / Tablo 9

code kod	Ports (threads) / Dişli girişler			
	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 / Tablo 10

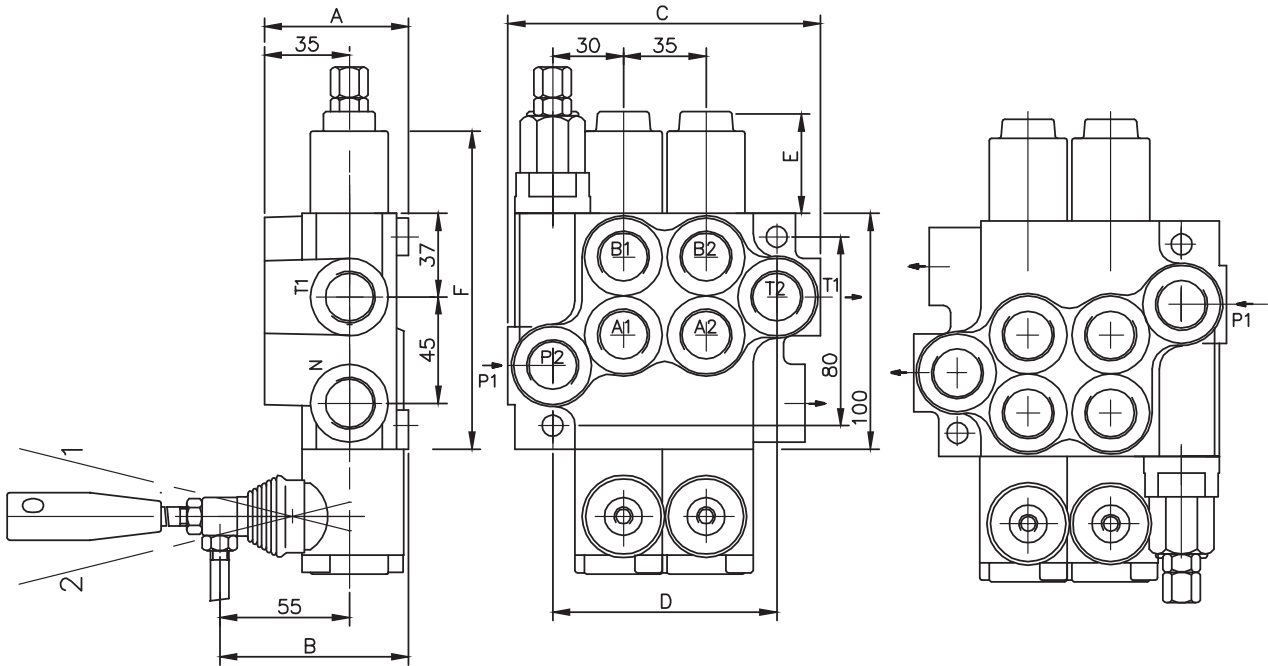
code kod	feature / özellik	code kod	feature / özellik	code kod	feature / özellik
KZ		KY		KI	
KZ1		KY1		KI1	
KZO		KY0		KI0	
KZO1		KY01		KI01	
-	without hand control / elle kontrol olmadan				

Table / Tablo 11

code kod		
C	Closed center / Kapalı Merkez	
C1	Part for power beyond sleeve (carry over) / carry over	
C2	Part for power beyond sleeve (carry over) / carry over	
-	Without part for pressure carry over / basınç için carry over	
X	Power beyond ever to tank / tankın önündeki güç	

Table / Tablo 12

code kod	Used connection ports / Kullanılan bağlantı girişleri
11	P1 ; T1
12	P1 ; T2
21	P2 ; T1
22	P2 ; T2



0	2	Z50	A	1	A	1	G	KZ1	T	H	E	C2	11
Block with common check valve	Number of spools	Directional control valve type	First spool distribution type e	Spool control / detend and etc.	Second spool distribution type	Spool control / detend and etc.	Ports / Threads	General operation feature	With "teton"	Operation feature – pneumatic	With electric switch	High pressure carry over	Connection ports in use
Standart çek valfli blok	Sürgü sayısı	Yön kontrol valfli tipi	İlk mil dağıtım tipi	Sürgü kontrolü / dedant vs.	İkinci sürgü dağıtım tipi	Mil kontrolü / dedant vs.	Girişler / Diş tipi	Genel çalışma özelliği	"Meme başlı"	Pnömatik kontrol özelliği	Elektirik düğmeli	Yüksek basınç ayırıcı	Kullanılan bağlantı girişleri

Table / Tablo 1

Type / Tip	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 / Tablo 3

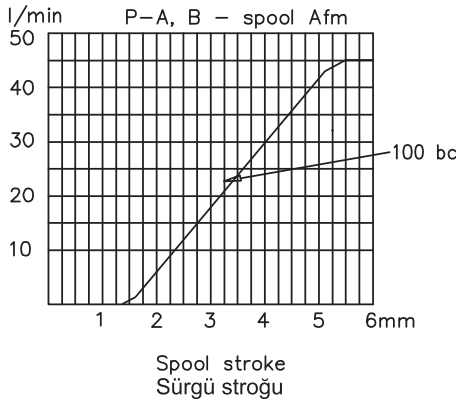
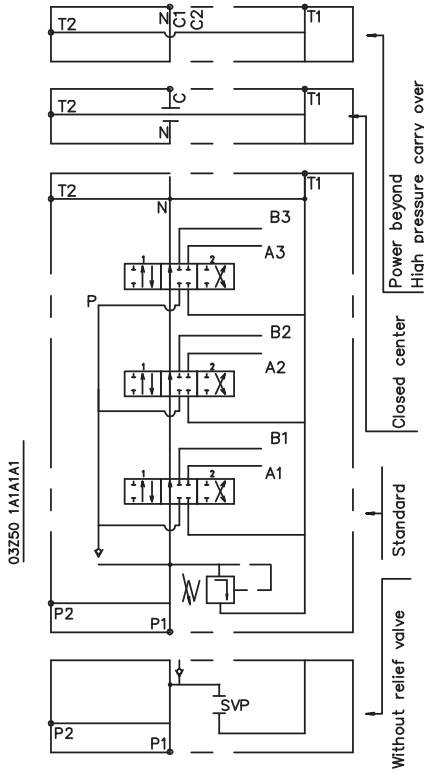
Code / Kod	Spools / Sürgüler
01	1
02	2
03	3

Table / Tablo 2

Spool control / Sürgü kontrolü	E	F
1, 4, 5, 6, 7, 8, 9, 10, 11	40	193
2, 3	72	225
16	+	+

Table / Tablo 4

Code / Kod	Way of distribution / Dağıtım yolu
1	Parallel / Paralel



Code / Kod	Spool type / Sürgü tipi
A	
B	
C	
D	
E	
F	
G	
H	
M	
N	
O	
P	
Q	
R	
S	
T	
*K	
**L	

*Only for left hand configuration
Sadece sol el için düzenlenmiş

*Only for right hand configuration
Sadece sağ el için düzenlenmiş

Table / Tablo 6

Code Kod	Spool control / Sürgü kontrolü
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
15*	
16*	
12**	
13**	

Table / Tablo 7

Code / Kod	Incorporated microswitch / Mikroanahtar ile birleştirilmiş
E	Microswitch type / Mikroanahtar tipi Omron – V 165 I C5

Table/ Tablo 8

Code / Kod	Operation feature / Kontrol özelliği
P	On-off pneumatic control / Açma- kapama pnömatik kontrol, 5-10 bar, ports NPTF 1/8-27
H	On-off hydraulic control / Açma- kapama hidrolik kontrol, Pn: 5-20 bar, ports G 1/4

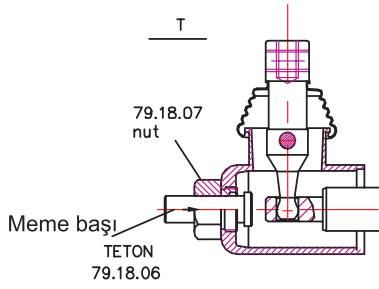


Table / Tablo 9

Code / Kod	Ports-Threads / Girişler – Diş tipleri				
	P	A, B	T	N	C2
M	M22x1.5	M18x1.5	M22x1.5	M22x1.5	M22x1.5
G	G 1/2	G 3/8	G 1/2	G 1/2	G 1/2
S	7/8-14UNF	3/4-16UNF	7/8-14UNF	7/8-14UNF	7/8-14UNF

Types of Hand Control / Elle kontrol tipleri

Table / Tablo 10

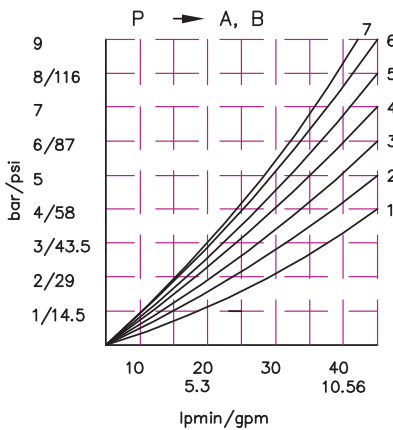
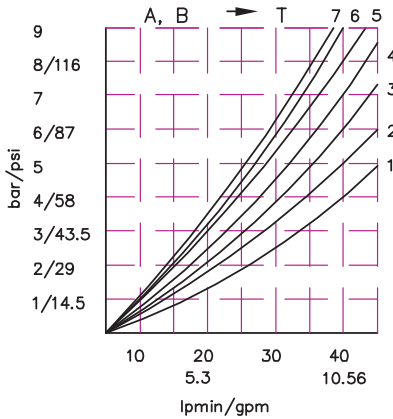
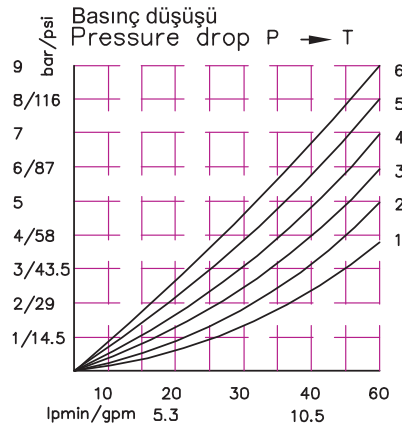
Code / Kod	Feature / Özellik	Code / Kod	Feature / Özellik	Code / Kod	Feature / Özellik
KZ		KY		KI	
KZ1		KY1		KI1	
KZ0		KY0		KI0	
KZ01		KY01		KI01	
-	Without hand control / Elle kontrolsüz				

Table / Tablo 11

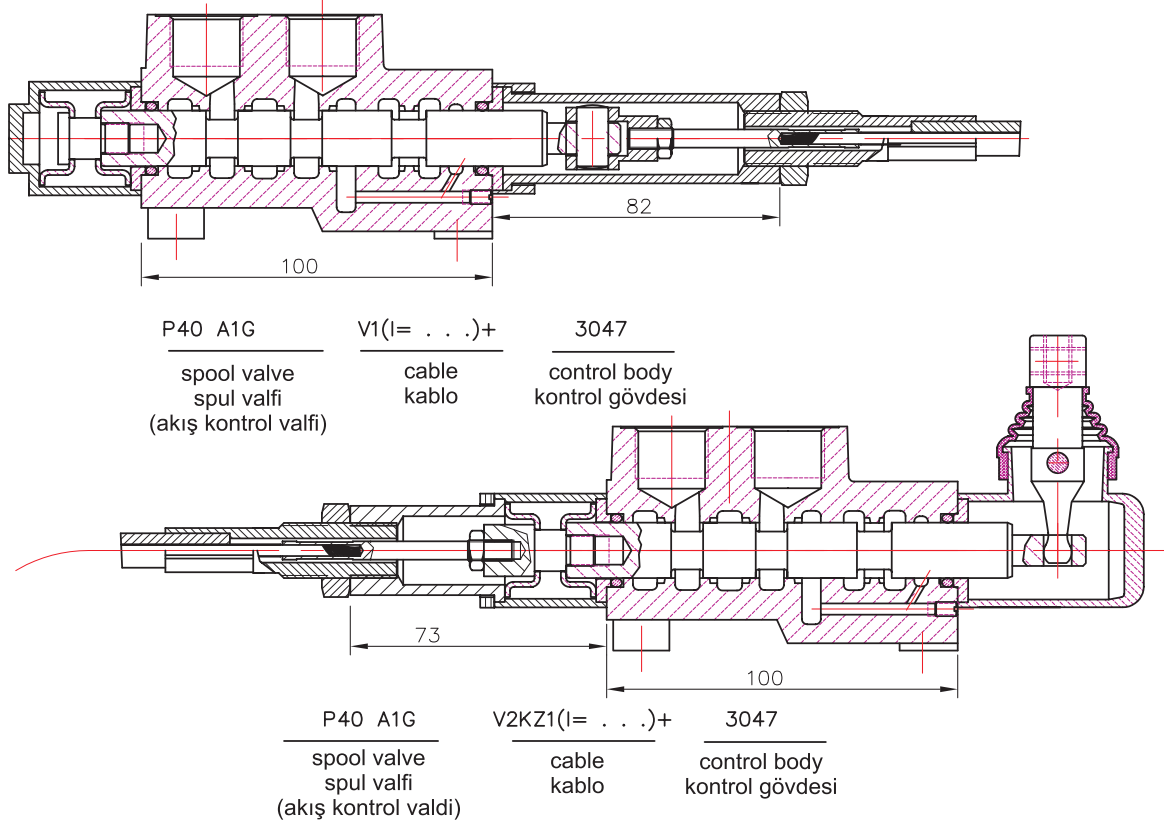
Code / Kod		
C	Closed center / Kapalı merkez	
C2	Part for carry over / Carry over kısmı	
-	Without part for pressure carry over / Carry over kısmı olmadan	
X	Power beyond over to tank /	

Table / Tablo 12

Code / Kod	Used connection ports / Kullanılan bağlantı girişleri
11	P1, T1
12	P1, T2
21	P2, T1
22	P2, T2



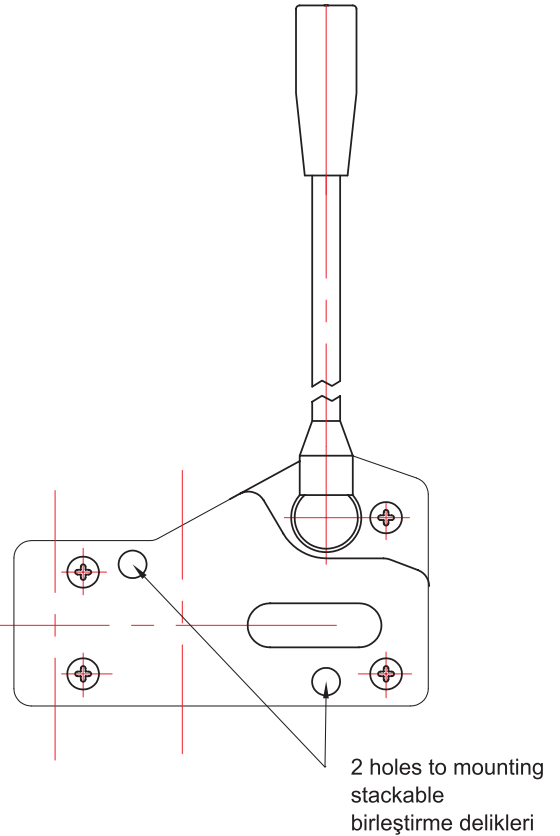
REMOTE CONTROLS / UZAKTAN KONTROLLER



Technical specifications / Teknik Özellikler			
	3047	3076	3077
Stroke / Strok	13+13 mm	13+13 mm	13+13 mm
Max. load / Mak. yükleme	45 kg	45 kg	45 kg
Level ratio / Düzey oranı	10:1	10:1	10:1
Lock in neutral/Serbest konumda kilidi	No	No	Yes
Antireverse lock / Emniyet kilidi	No	Yes	No
Body colour / Gövde rengi	Black	Black	Black
Cables type / Kablo tipi	Heavy Duty	Heavy Duty	Heavy Duty
Operating temperature / Kullanım Isısı	-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.

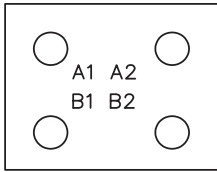
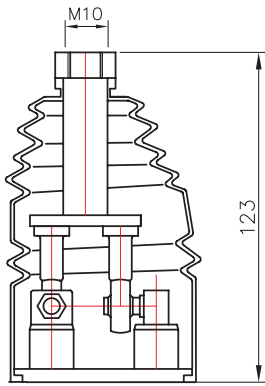
Bütün kumanda kolları kolay monte edilir ve dayanıklı bir yapıya sahiptir. Montajlanmış veya demonte olarak gönderilebilir. Yüksek kalitede uzatma kabloları ile müşterilerin ihtiyaçları doğrultusunda uzaktan yönlendirme olanağı sağlar.



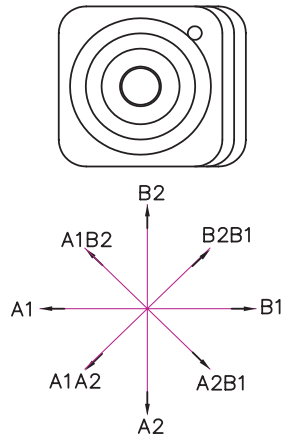
JOYSTICK "++"

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

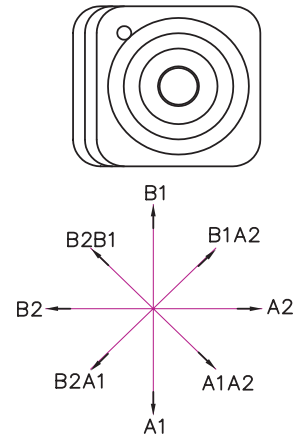
Bu kontrol sistemi aynı zamanda 2 tane sürgüyü kontrol edebilmemizi sağlar.



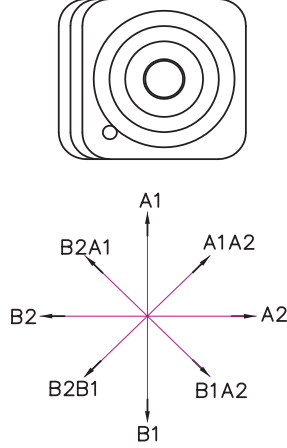
standart versiyon 1
standard version 1



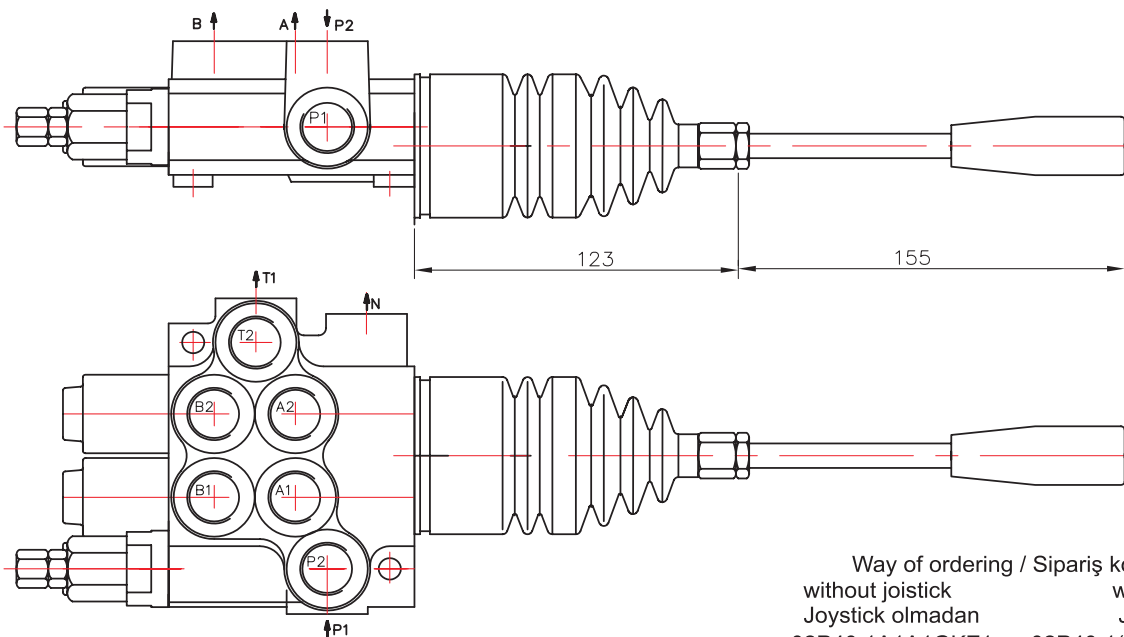
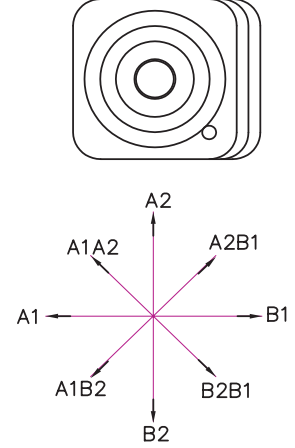
standart versiyon 2
standard version 2



standart versiyon 3
standard version 3



standart versiyon 4
standard version 4

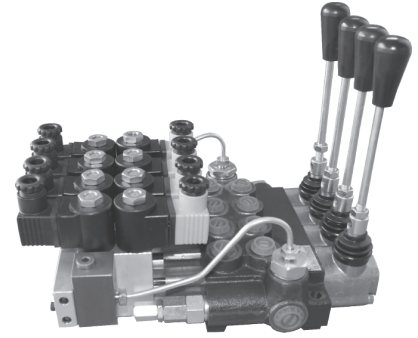
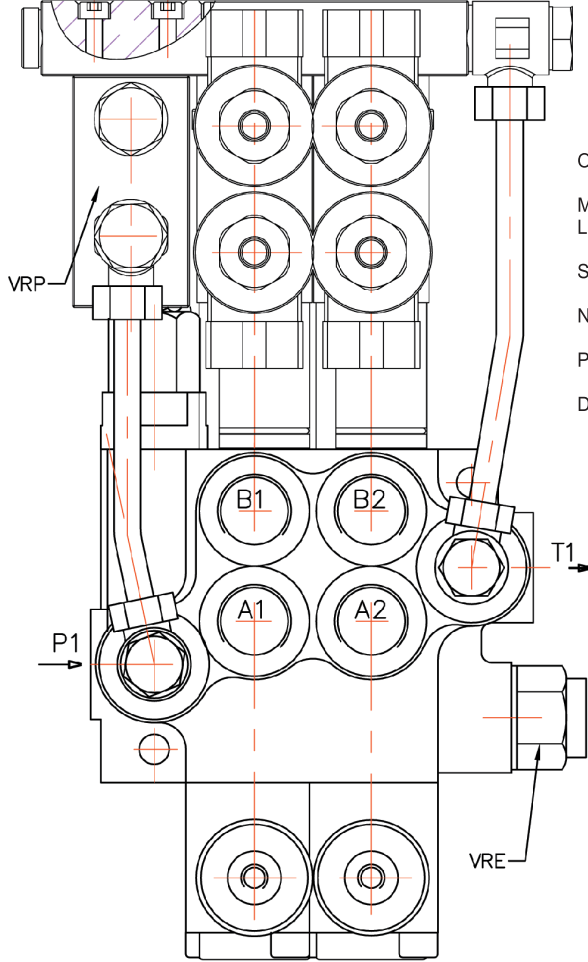


Way of ordering / Sipariş kodları
without joystick with joystick
Joystick olmadan Joystick ile
02P40 1A1A1GKZ1 02P40 1(A1A1)(js+3)G

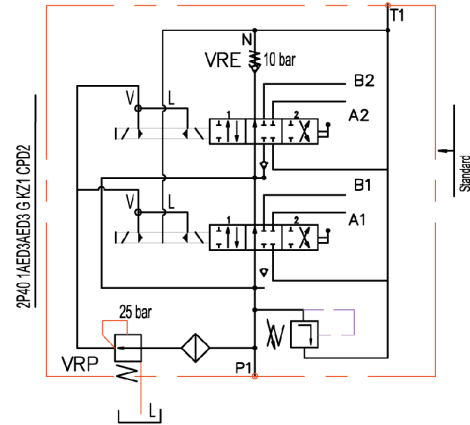
Directional control valve P40 / P40 kumanda kolları

ED3 - Electro - hydraulic control ON-OFF
ED3 - Elektro - hidrolik kontrol AÇIK-KAPALI

Ordering codes/ Sipariş kodları
3-way solenoid valve-LSV2-08-3C
coil P40ED3-G-12VDC
coil P40ED3-G-24VDC



Operating pressure / Operasyon basıncı	min 10 bar(145 psi)
Max operating pressure in .L (T line) L'deki maksimum operasyon basıncı (T hattı)	max 50 bar(725 psi)
Solenoid operating features / Solenoid operasyon özellikleri	25 bar(360 psi)
Nominal voltage tolerance / Voltaj çalışma toleransı	±10%
Power rating / Güç oranı	24W
Duty cycle / İş çevirimi	100 %

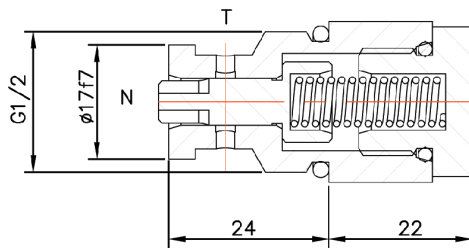


Ordering codes (BSP threads) / Sipariş Kodları (BSP dişli)

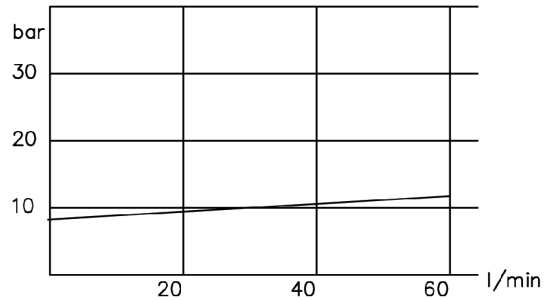
CED1	kit for 1 section
CED2	kit for 2 section
CED3	kit for 3 section
CED4	kit for 4 section

Ordering example / Sipariş örneği
2P40-VRP-1A1ED3A1ED3 G KZ1-CED2-VRE-12VDC

Back pressure valve VRE-P40
Geri basınç valfi VRE-P40

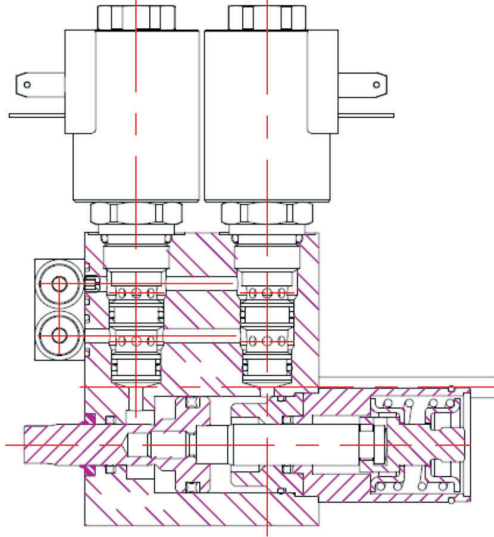


Pressure drop N-T



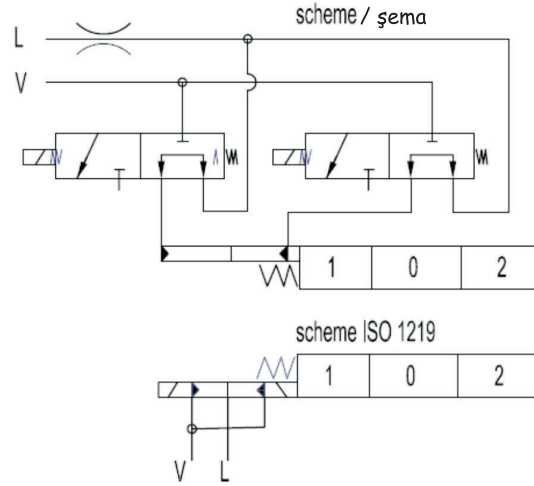
Directional control valve P40 / P40 kumanda kolları

ED3 - Electro - hydraulic control ON-OFF
ED3 - Elektro - hidrolik kontrol AÇIK-KAPALI



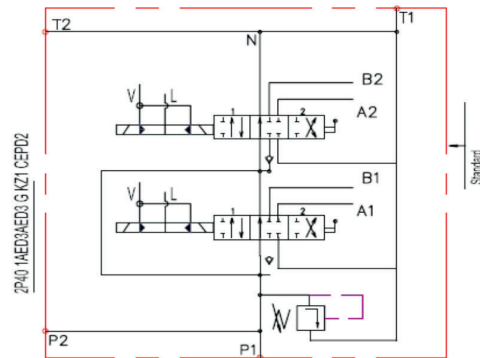
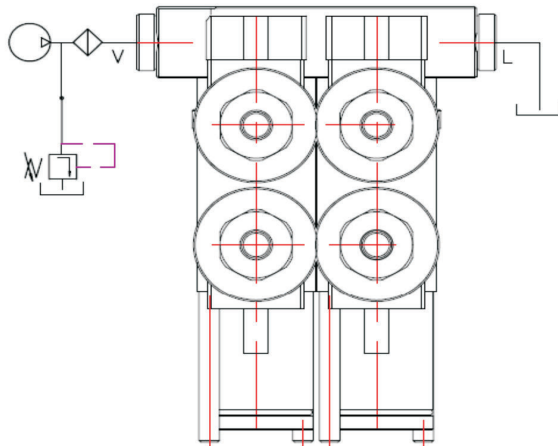
Ordering codes/ Sipariş kodları

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



Operating pressure / Operasyon basıncı	min 10 bar(145 psi)
Max operating pressure in .L (T line) L'deki maksimum operasyon basıncı (T hattı)	max 50 bar(725 psi)
Solenoid operating features / Solenoid operasyon özellikleri	25 bar(360 psi)
Nominal voltage tolerance / Voltaj çalışma toleransı	±10%
Power rating / Güç oranı	24W
Duty cycle / İş çevirimi	100 %

Collector kit for external pilot and drain - CEED...(1,2,3 ...)
İç pilot ve sızıntı hattı için kollektör kiti - CEED...(1,2,3 ...)

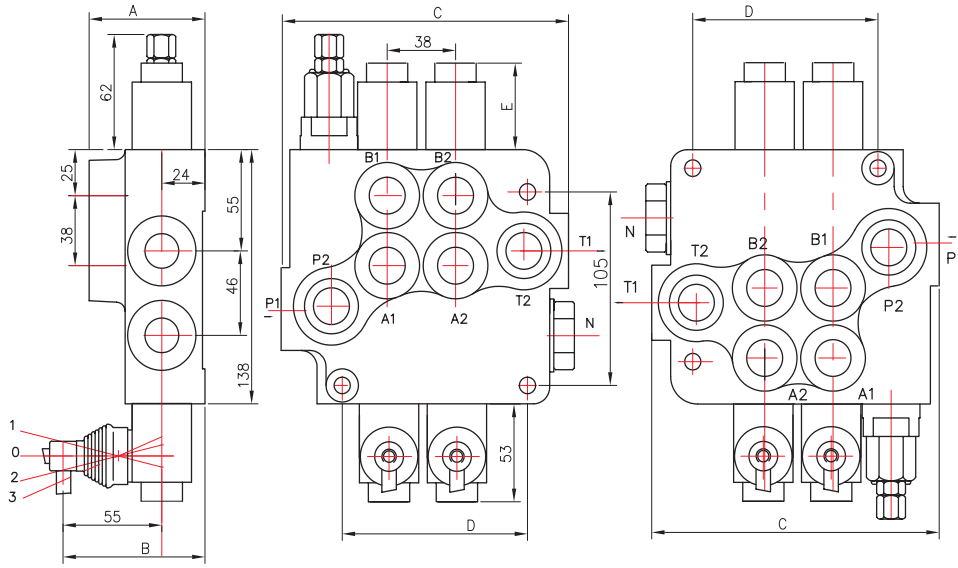


Ordering codes (BSP threads) / Sipariş Kodları (BSP dişli)

Ordering example / Sipariş örneği

2P40-1A1ED3A1ED3 G KZ1-CEED2-12VDC

CEED1P40	kit for 1 section
CEED2P40	kit for 2 section
CEED3P40	kit for 3 section
CEED4P40	kit for 4 section



SİPARİŞ KODLARI / ORDERING CODES

0	2	P80	1	A	1	A	1	G	KZ1	T	H	E	C2	11
çek valfli standart blok block with common check valve	mil sayısı number of spools	yön kontrol valfi tipi ... directional control valve type ...	dağılım yolu/paralel / yada.../ way of distribution / paralel or .../	birinci mil dağılım tipi first spool distribution type	mil kontrolü/ spool control / detend and etc./	ikinci mil kontrol tipi second spool distribution type	mil kontrolü/ spool control / detend and etc./	portlar/dişler ports / treads /	genel kullanım özelliği general operation feature	“teton” ile with “teton”	kullanım özelliği / pnömatik operation feature .../	elektrik düğmesi ile with electric switch	yüksek basınç taşıyıcı high pressure carry over	kullanımdaki bağlantı portları connection ports in use

Table / Tablo 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	242	179	*	*	*	*
5P80	80	94	280	217	*	*	*	*
6P80	80	94	318	255	*	*	*	*

Table / Tablo 2

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

Table / Tablo 3

code kod	Number of spools Sürgü numaraları
	1
2	2
3	3
4	4
5	5
6	6

Table / Tablo 4

code kod	way of distribution / dağılım yolu
1	parallel / paralel
2	tandem(series parallel) seri paralel

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

Table / Tablo 7

code kod	incorporated microswitch / birleştirilmiş mikro anahtar
E	 microswitch type mikro anahtar tipi Omron-V 165 I C5

Table / Tablo 8

code kod	operation feature / operasyon özelliği
P	 on-off pneumatic control; 5-10 bar; ports G1/4 açma-kapama pnomatik kontrol; 5-10 bar; girişler G1/4
H	 on-off hydraulic control; pn = 5-20 bar; ports G1/4

Table / Tablo 9

code kod	Ports (threads) / Dişli girişler			
	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

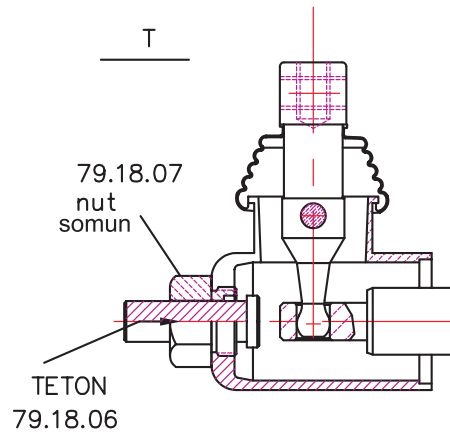
code kod	feature / özellik	code kod	feature / özellik	code kod	feature / özellik
KZ		KY		KI	
KZ1		KY1		KI1	
KZ0		KY0		KI0	
KZ01		KY01		KI01	
-	without hand control / elle kontrol olmadan				

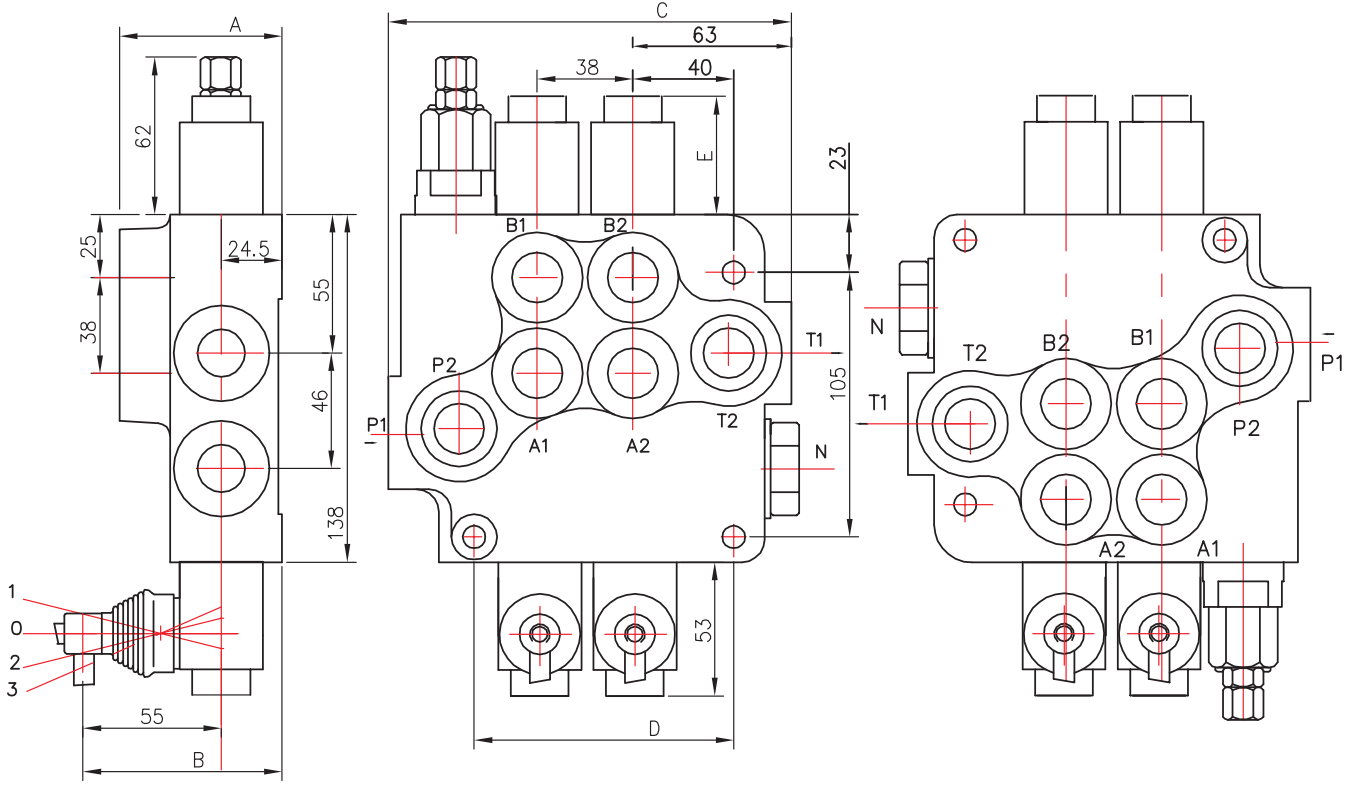
Table / Tablo 11

code kod	feature / özellik	code kod	feature / özellik
C	Closed center / Kapalı merkez		
C1	Part for power beyond sleeve (carry over) / carry over		
C2	Part for power beyond sleeve (carry over) / carry over		
-	Without part for pressure carry over / basınç için carry over		
X	Power beyond ever to tank / tankın önündeki güç		

Table / Tablo 12

code kod	Used connection ports / Kullanılan bağlantı girişleri
11	P1 ; T1
12	P1 ; T2
21	P2 ; T1
22	P2 ; T2





0	2	Z80	A	1	A	1	G	KZ1	T	P	E	C2	11
Block with common check valve	Number of spools	Directional control valve type	First spool distribution type	Spool control / detent and etc.	Second spool distribution type	Spool control / detent and etc.	Ports / Threads	General operation feature	With "teton"	Operation feature – pneumatic	With electric switch	High pressure carry over	Connection ports in use
Standart çek valfli blok	Sürgü sayısı	Yön kontrol valfi tipi	ilk mil dağıtım tipi	Sürgü kontrolü / dedant vs.	ikinci sürgü dağıtım tipi	Mil kontrolü / dedant vs.	Girişler / Diş tipi	Genel çalışma özelliği	"Meme başlı"	Pnömatik kontrol özelliği	Elektirik düğmeli	Yüksek basınç ayırıcı	Kullanılan bağlantı girişleri

Table / Tablo 1

Type / Tip	A	B	C	D	P1	P2	T1	T2
01Z80	67	80	122	65	+	+	-	-
02Z80	67	80	160	103	+	+	+	+
03Z80	67	80	198	141	+	+	+	+
04Z80	67	80	236	179	+	+	+	+
05Z80	67	80	274	217	+	+	+	+
06Z80	67	80	312	255	+	+	+	+

Table / Tablo 2

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

Way of distribution / Dağıtım yolu – Parallel / Paralel

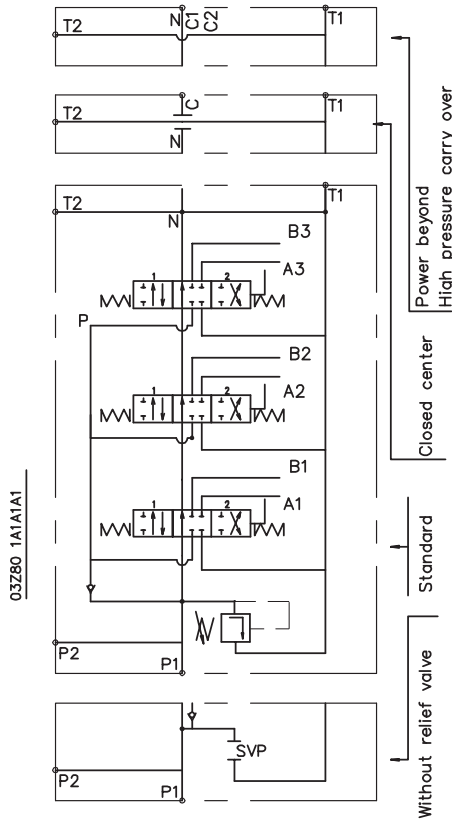


Table / Tablo 3

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 4

Code Kod	Spool control / Sürgü kontrolü
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	

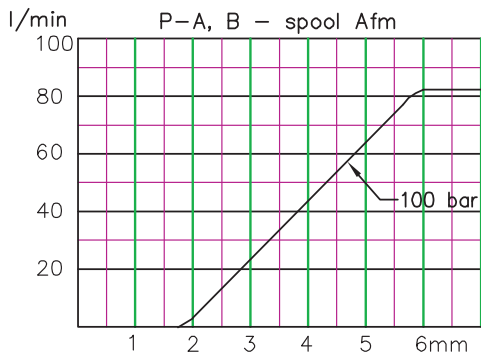
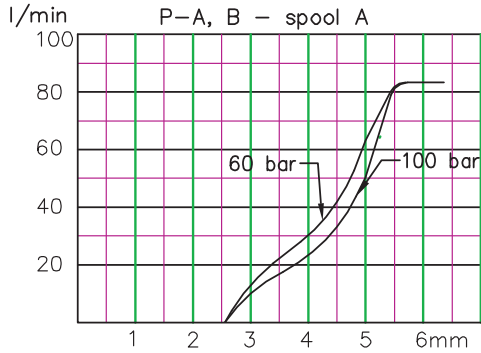


Table / Tablo 5

Code / Kod	Incorporated microswitch / Mikroanahtar ile birleştirilmiş
E	Microswitch type / Mikroanahtar tipi Omron - V 165 I C5

Table/ Tablo 6

Code / Kod	Operation feature / Kontrol özelliği
P	On-off pneumatic control / Açma-kapama pnömatik kontrol, 5-10 bar, ports NPTF 1/8-27
H	On-off hydraulic control / Açma-kapama hidrolik kontrol, P_n: 5-20 bar, ports G 1/4

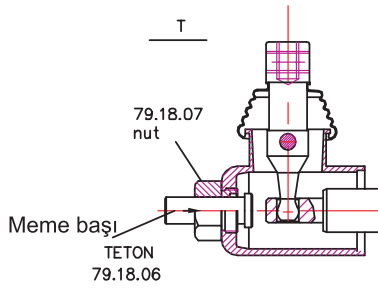


Table / Tablo 7

Code / Kod	Ports-Threads / Girişler – Diş tipleri				
	P	A, B	T	N	C2
M	M22x1.5	M122x1.5	M26x1.5	M26x1.5	M26x1.5
G	G 1/2	G 3/4	G 3/4	G 3/4	G 3/4
S	7/8-14UNF	7/8-14UNF	7/8-14UNF	1-1/16 -14UNF	1-1/16 -14UNF

Types of Hand Control / Elle kontrol tipleri

Table / Tablo 8

Code / Kod	Feature / Özellik	Code / Kod	Feature / Özellik	Code / Kod	Feature / Özellik
KZ		KY		KI	
KZ1		KY1		KI1	
KZ0		KY0		KI0	
KZ01		KY01		KI01	
-	Without hand control / Elle kontrolsüz				

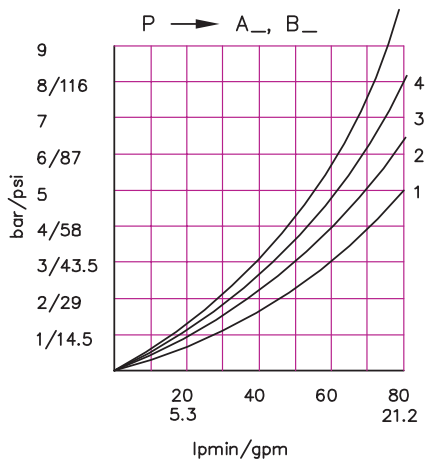
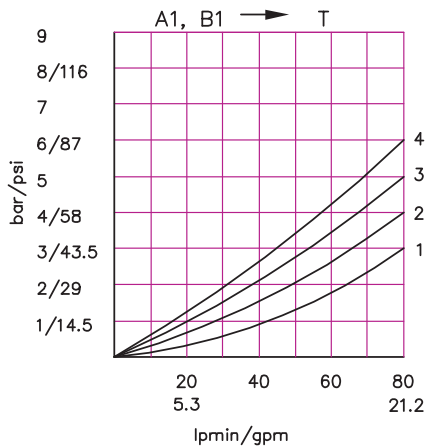
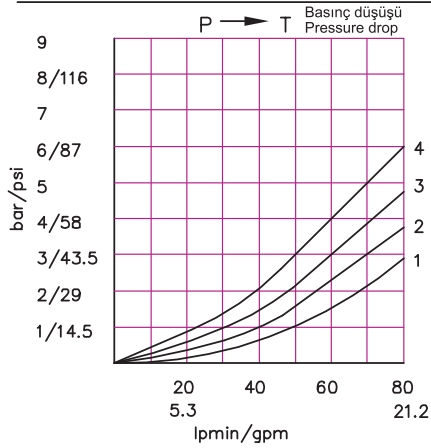
Table / Tablo 9

Code / Kod	
C	Closed center / Kapalı merkez
C2	Part for carry over / Carry over kısmı
-	Without part for pressure carry over / Carry over kısmı olmadan
X	Power beyond over to tank /

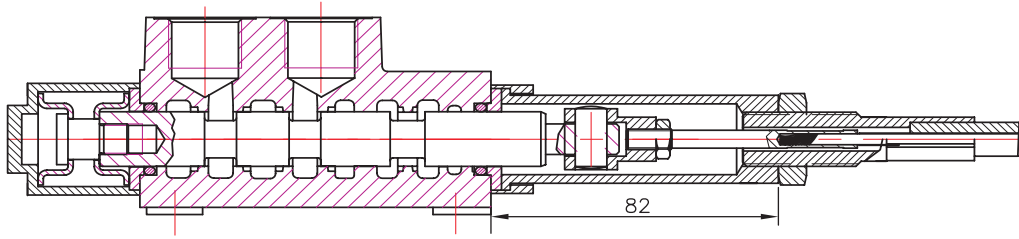
Table / Tablo 10

Code / Kod	Used connection ports / Kullanılan bağlantı girişleri
11	P1, T1
12	P1, T2
21	P2, T1
22	P2, T2

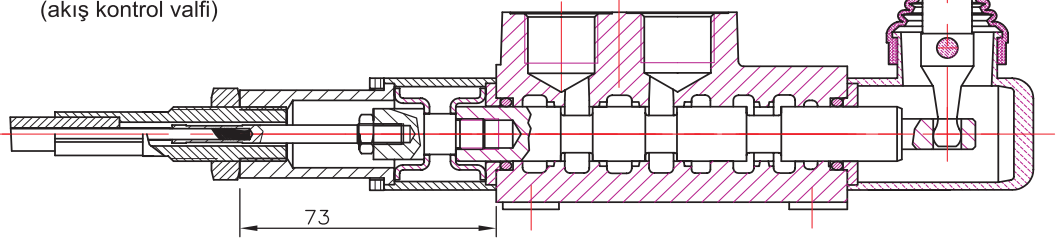
..Z80 directional control valve – A



REMOTE CONTROLS / UZAKTAN KONTROLLER



P80 A1G V1(I= . . .)+ 3047
spool valve cable control body
spul valfi kablo kontrol gövdesi
(akış kontrol valfi)

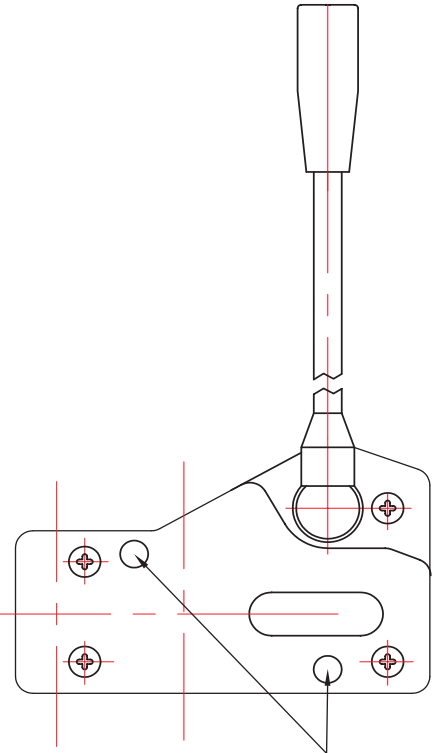


P80 A1G V2KZ1(I= . . .)+ 3047
spool valve cable control body
spul valfi kablo kontrol gövdesi
(akış kontrol valfi)

Technical specifications / Teknik Özellikler			
	3047	3076	3077
Stroke / Strok	13+13 mm	13+13 mm	13+13 mm
Max. load / Mak. yükleme	45 kg	45 kg	45 kg
Level ratio / Düzey oranı	10:1	10:1	10:1
Lock in neutral/Serbest konumda kilitle	No	No	Yes
Antireverse lock / Emniyet kilidi	No	Yes	No
Body colour / Gövde rengi	Black	Black	Black
Cables type / Kablo tipi	Heavy Duty	Heavy Duty	Heavy Duty
Operating temperature / Kullanım Isısı	-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 manufactured in a three differents models to meet
different needs of Clients.

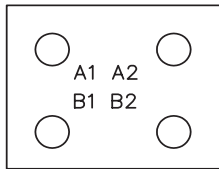
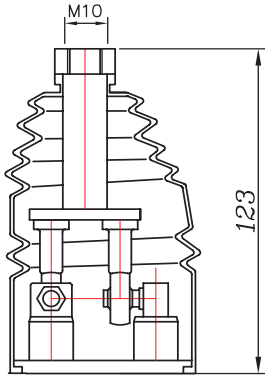
Bütün kumanda kolları kolay monte edilir ve dayanıklı bir yapıya sahiptir.
Montajlanmış veya demonte olarak gönderilebilir. Yüksek kalitede uzatma
kabloları ile müşterilerin ihtiyaçları doğrultusunda uzaktan yönlendirme
olanağı sağlar.



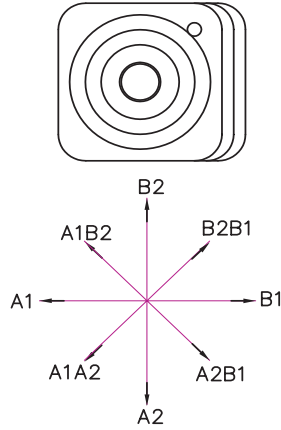
2 holes to mounting
stackable
birleştirme delikleri

JOYSTICK "++"

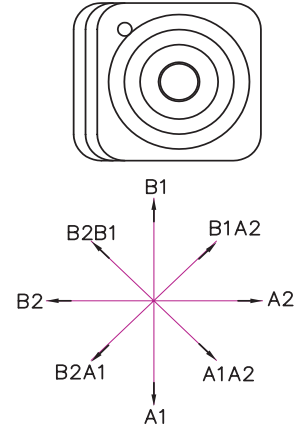
his control gives the possibility to operate, at the same time two spool with a "++" movement
Bu kontrol sistemi aynı zamanda 2 tane sürgüyü kontrol edebilmemizi sağlar.



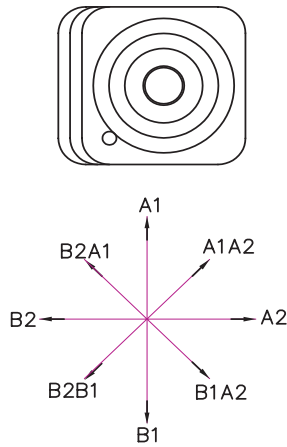
standart versiyon 1
standard version 1



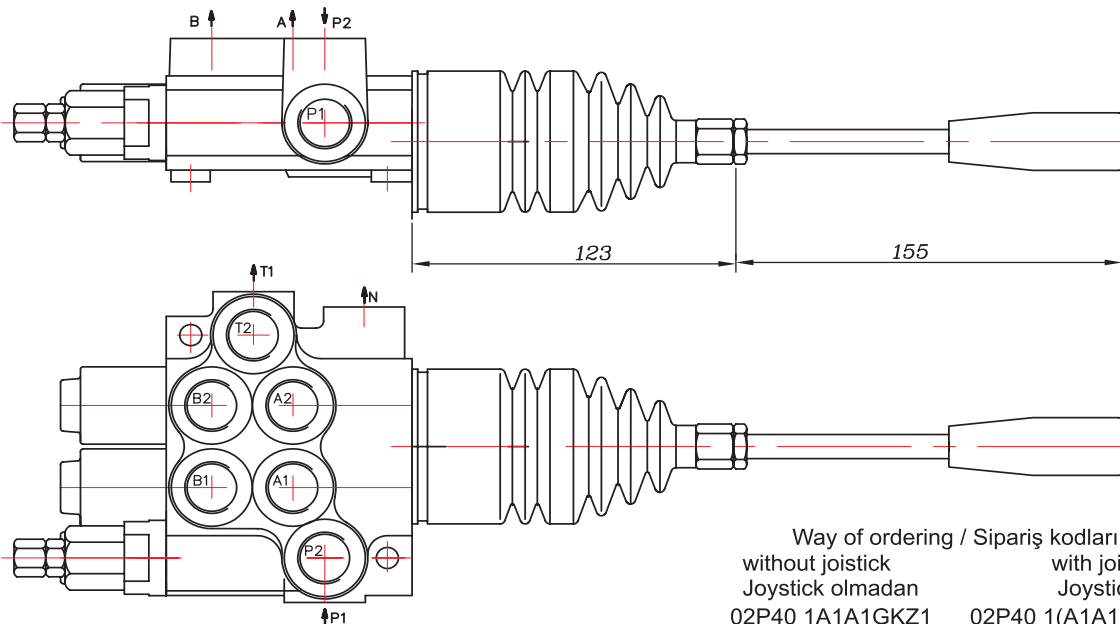
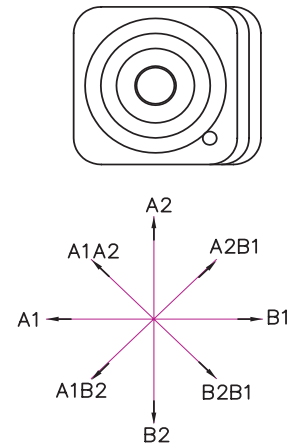
standart versiyon 2
standard version 2



standart versiyon 3
standard version 3



standart versiyon 4
standard version 4



Way of ordering / Sipariş kodları
without joystick with joystick
Joystick olmadan Joystick ile
02P40 1A1A1GKZ1 02P40 1(A1A1)(js+3)G

Directional control valve P80 / P80 kumanda kolları

ED3 - Electro - hydraulic control ON-OFF

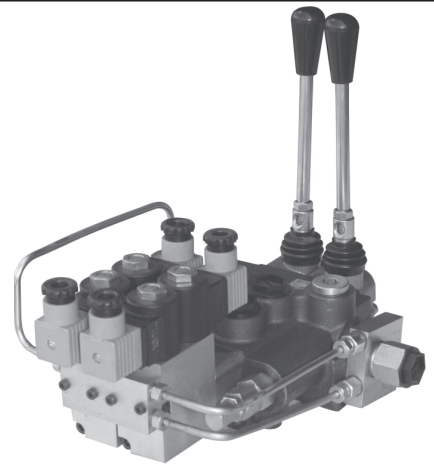
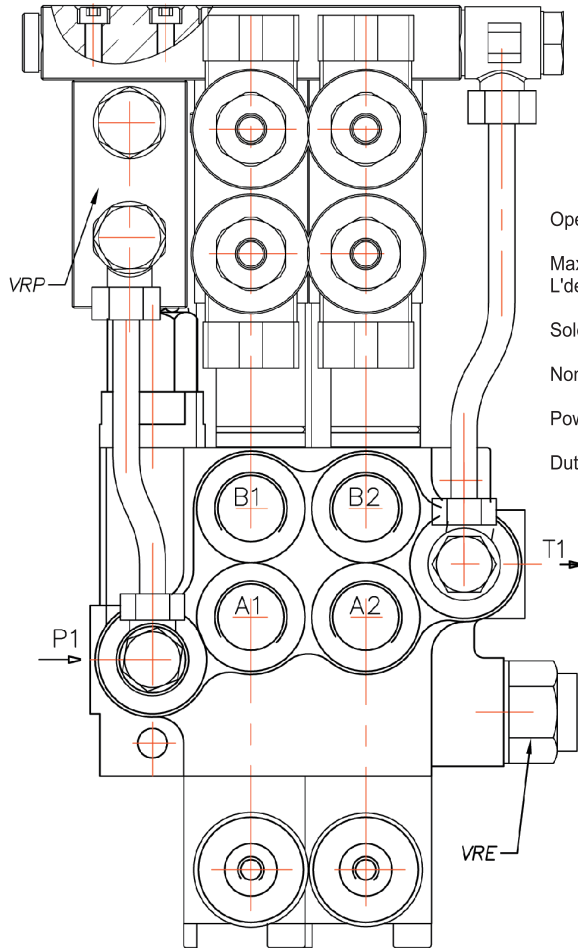
ED3 - Elektro - hidrolik kontrol AÇIK-KAPALI

Ordering codes/ Sipariş kodları

3-way solenoid valve-LSV2-08-3C-NNN

coil P80ED3-G-12VDC

coil P80ED3-G-24VDC



Operating pressure / Operasyon basıncı min 10 bar(145 psi)

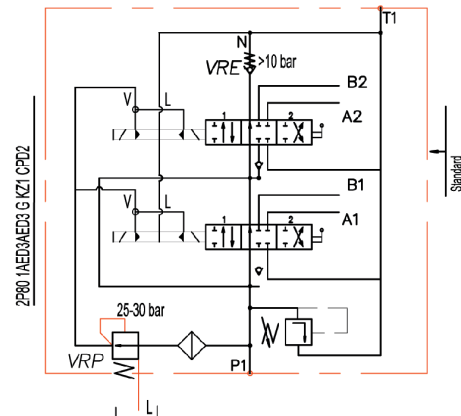
Max operating pressure in .L (T line) max 50 bar(725 psi)
L'deki maksimum operasyon basıncı (T hattı)

Solenoid operating features / Solenoid operasyon özellikleri 25 bar(360 psi)

Nominal voltage tolerance / Voltaj çalışma toleransı	±10%
--	------

Power rating / Güç oranı	24W
--------------------------	-----

Duty cycle / İş çevirimi	100 %
--------------------------	-------

**Ordering codes (BSP threads) / Sipariş Kodları (BSP dişli)**

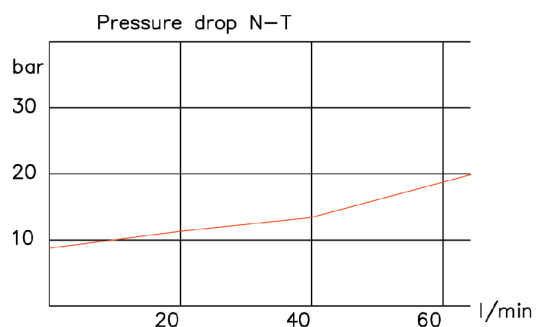
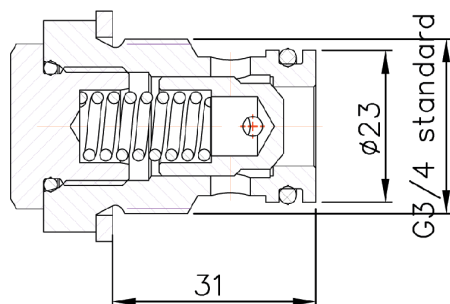
CED1P80 kit for 1 section

CED2P80 kit for 2 section

CED3P80 kit for 3 section

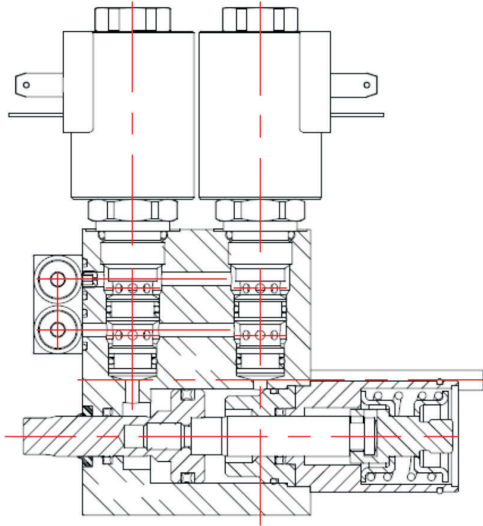
CED4P80 kit for 4 section

Back pressure valve VRE-P40
Geri basınç valfi VRE-P40

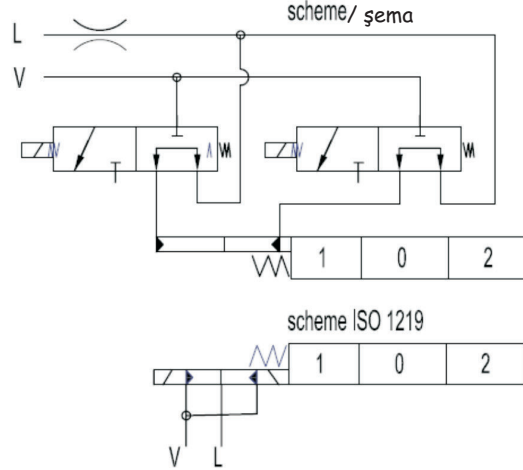


Directional control valve P80 / P80 kumanda kolları

ED3 - Electro - hydraulic control ON-OFF
ED3 - Elektro - hidrolik kontrol AÇIK-KAPALI

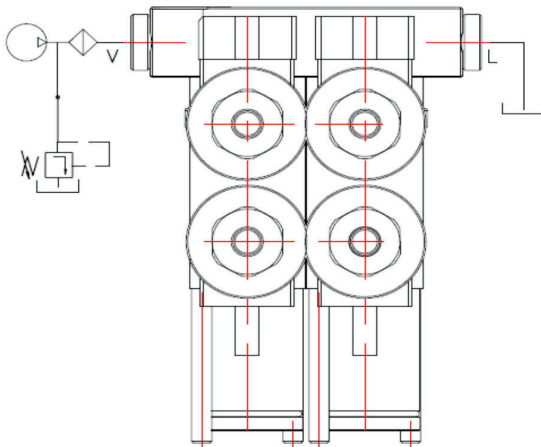


Ordering codes/ Sipariş kodları
3-way solenoid valve-SV08-33
coil P80ED3-G-12VDC
coil P80ED3-G-24VDC

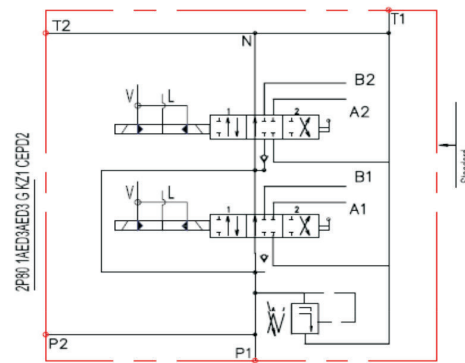


Operating pressure / Operasyon basıncı	min 10 bar(145 psi)
Max operating pressure in .L (T line) L'deki maksimum operasyon basıncı (T hattı)	max 50 bar(725 psi)
Solenoid operating features / Solenoid operasyon özellikleri	25 bar(360 psi)
Nominal voltage tolerance / Voltaj çalışma toleransı	±10%
Power rating / Güç oranı	24W
Duty cycle / İş çevirimi	100 %

Collector kit for external pilot and drain - CEED...(1,2,3 ...)
Pilot ve sızıntı hattı için kollektör kiti - CEED...(1,2,3 ...)

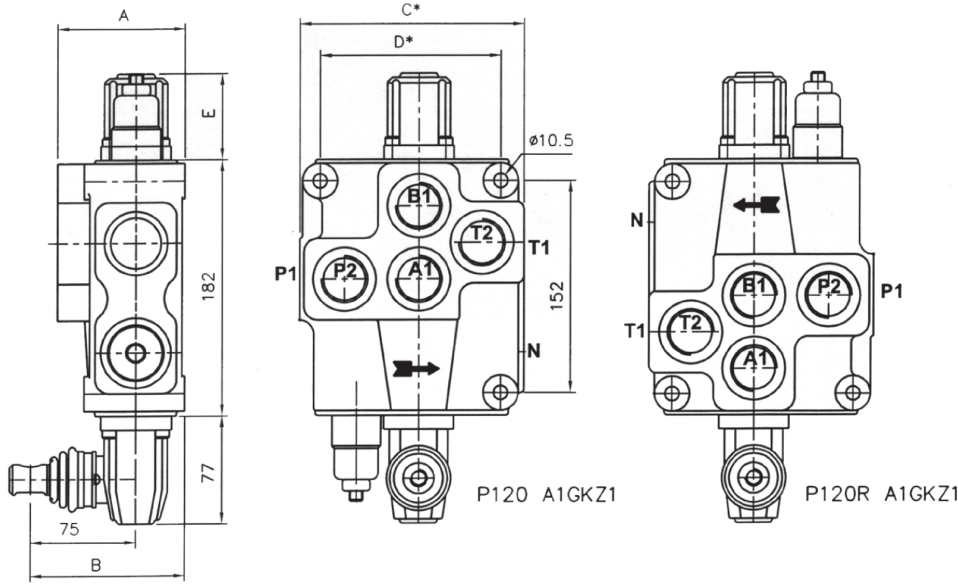


Ordering example / Sipariş örneği
2P80-1A1ED3A1ED3 G KZ1-CEED2-12VDC



Ordering codes (BSP threads) / Sipariş Kodları (BSP dişli)

CEED1P80	kit for 1 section
CEED2P80	kit for 2 section
CEED3P80	kit for 3 section
CEED4P80	kit for 4 section



SİPARİŞ KODLARI / ORDERING CODES

02	P120	1	A	1	L	12	G	KZ1	H	E	C2	-11
Sürgü sayısı Number of spools	Hidrolik yön kontrol valfi Hydraulic directional control valve	Paralel dağıtım Parallel distribution	Sürgü dağıtım tipi Spool type - distribution	sürgü kontrol Spool control	2. sürgü dağıtım şeması Second spool distribution	2. sürgü kontrol Second spool control	Bağlantı dişleri Ports threads	Kol seçenekleri Lever Options	Kullanım tipi Operation features	Switchli tipi Electric micro switch	Seri bağlantı Carry over center	Bağlantı dişleri Connection ports in use

Table / Tablo 1

	A	B	C	D	P1	P2	T1	T2
P120	92	110	160	129	+	+	+	+

Table / Tablo 2

Spool control / Sürgü kontrol	E
1; 2; 3; 4; 5; 6; 7; 8; 9; 10; 11;	64
12	74

Table / Tablo 3

code kod	Number of spools Sürgü numaraları
P	1
02, 2	2
03, 3	3
04, 4	4

Table / Tablo 4

code kod	way of distribution / dağılım yolu
1	parallel / paralel
(2)	tandem(series parallel) / seri paralel

Table / Tablo 5

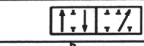
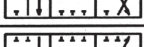
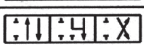
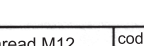
code kod	spool type / sürgü tipi
A	
B	
C	
D	
E	
F	
G	
H	
M	
N	
O	
P	
Q	
R	
S	
T	
L	

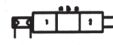
Table / Tablo 6

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

Table / Tablo 7

code kod	incorporated microswitch / birleştirilmiş mikro anahtar
E	 microswitch type / mikro anahtar tipi Omron-V 165 I C5 

Table / Tablo 8

code kod	operation feature / operasyon özelliği
P	 on-off pneumatic control; 5-10 bar; ports G1/4 açma-kapama pnomatik kontrol; 5-10 bar; girişler G1/4
H	 on-off hydraulic control; pn = 5-20 bar; ports G1/4

treads for conection / bağlantı dişleri

Table / Tablo 9

dışarı / portlar outlets / ports	metric	BSP	SAE	NPT
P, A, B, T	M33x2	G 1"	SAE 16	1 - 11.5
N	M36x1.5	-	-	-

Table / Tablo 10

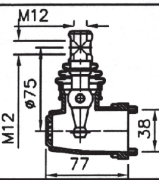
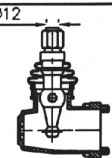
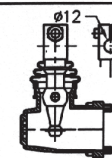
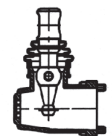
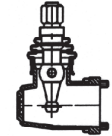
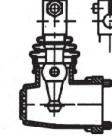
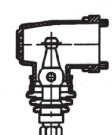
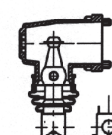
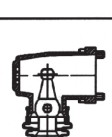
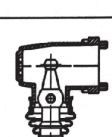
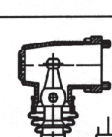
code kod	with thread M12	code kod	with cange ø12	code kod	with cange ø12
KZ		KY		KI	
KZ1		KY1		KI1	
KZ0		KY0		KI0	
KZ01		KY01		KI01	

Table / Tablo 11

code kod	Metric / Metrik
X	Without N / N olmadan
-	With N, but closed / N ile, fakat kapalı
C	With N, closed center / N ile, Kapalı merkez
C1	With N-carry over for ermeto / carry overli
C2	With N-carry over, internal thread / carry overli içteki dişli

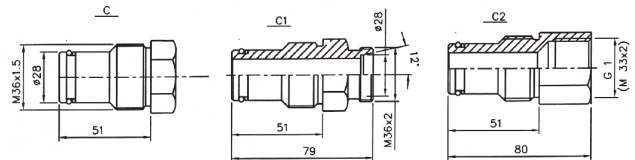
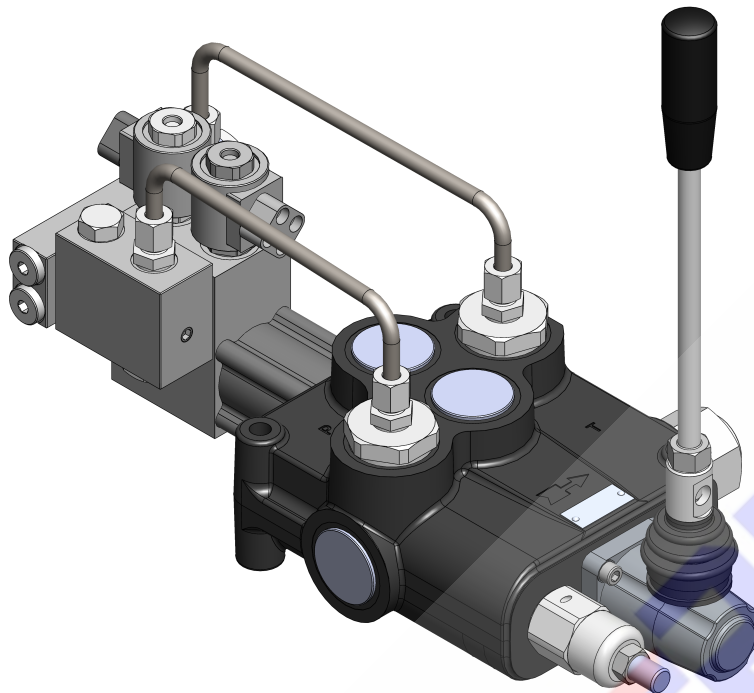


Table / Tablo 12

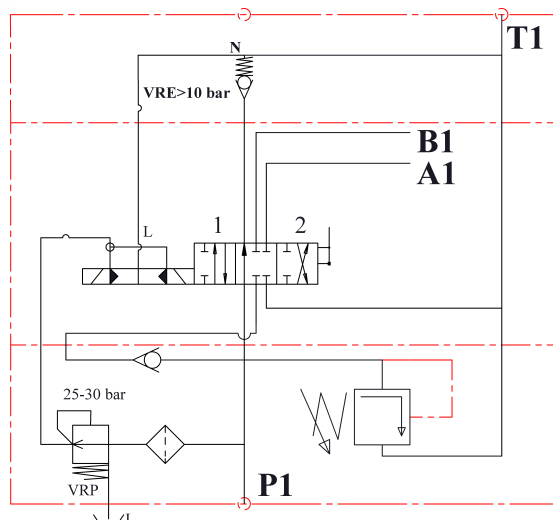
code kod	ports for connection in uze / kullanımdaki bağlantı portları
11	P1 ; T1
12	P1 ; T2
21	P2 ; T1
21	P2 ; T1

NEW ELECTRO-HYDRAULIC CONTROL for P120

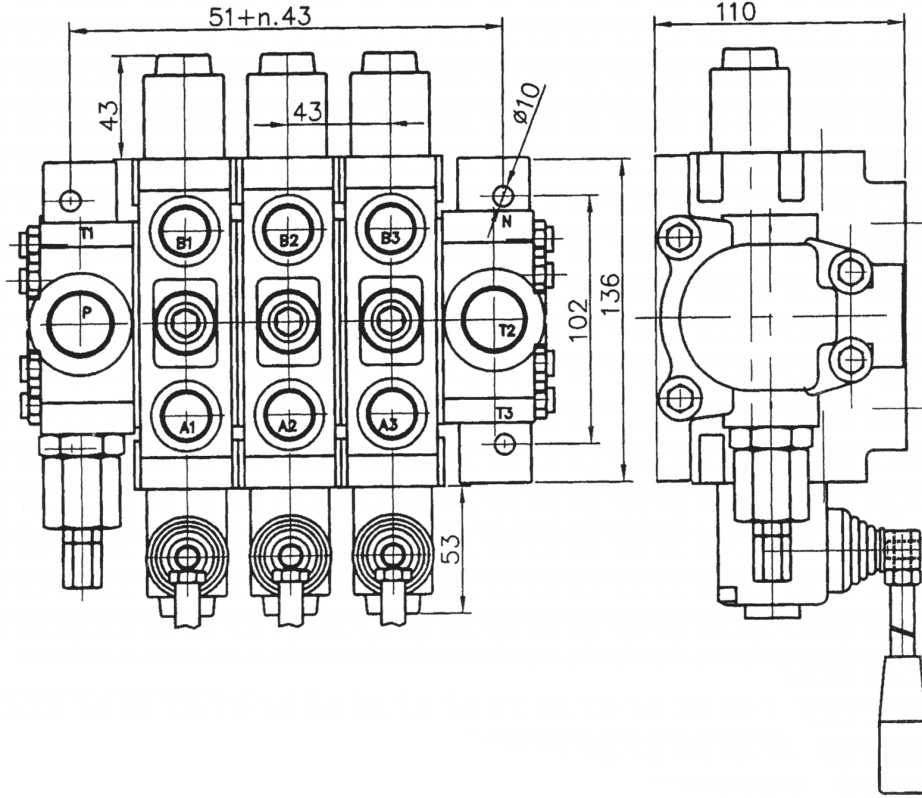


Technical specification		
Flow rate	l/min [gpm]	120 [32]
Max. pressure on A&B	bar [psi]	300 [4350]
Leakage (A,B to T) at 100 bar [1450 psi] and 46 cSt	cm ³ /min [in ³ /min]	6 [0.37]
Operating pressure	bar [psi]	10 to 50 [145 to 725]
Max. pressure in L	bar [psi]	25 [363]
Solenoid operating features		
Nominal voltage tolerance	%	±10
Power rating	W	24
Duty cycle	%	100

Sample order code:
P120/A1EH3/G/KZ1/CED1/24VDC*

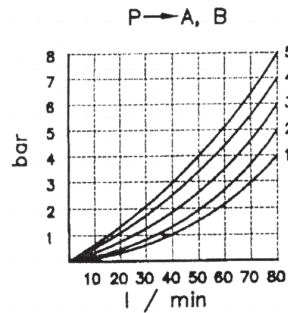
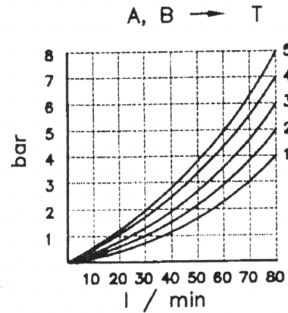
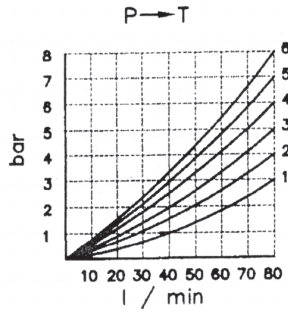
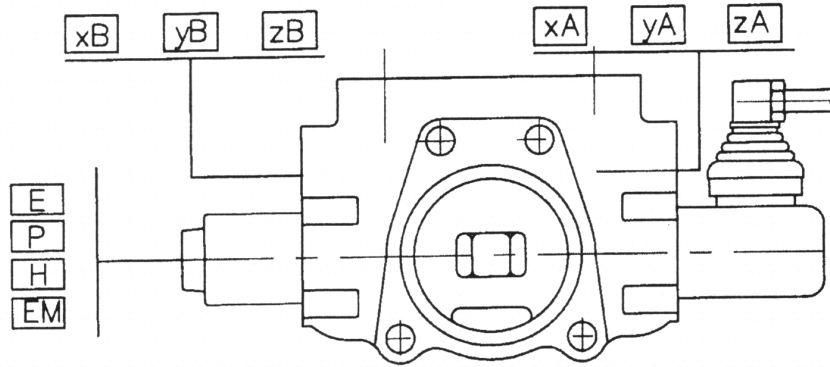


* The order code is the same as for P40 and P80 with the difference that directional control valve P120 is up to 4 spools



SİPARİŞ KODLARI / ORDERING CODES

03	PC70	N1	P	A1	A8xAzB	D1	T1	G	KZ1
Sürgü sayısı Number of spools	Dilimli kumanda kolları Sectional control valve	Giriş kapağı tipi Type of the inlet cover	Yağ dağıtım yolları Way of distribution of oil	1. sürgü dağıtım tipi First distribution type	2. sürgü dağıtım tipi Second spool distribution type	3. sürgü dağıtım tipi Third spool distribution type	Çıkış kapağı tipi Type of the outlet over	Dış ölçüleri Threads (P, A, B, T, N)	Genel kullanım şekli General operation feature



code kod	spool type / sürgü tipi
A	
B	
C	
D	
E	
F	
G	
H	
L	

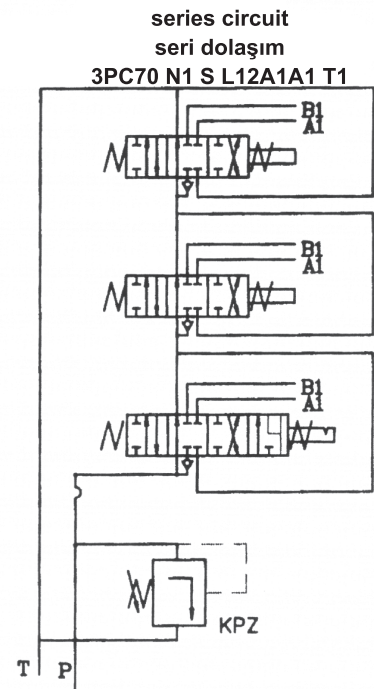
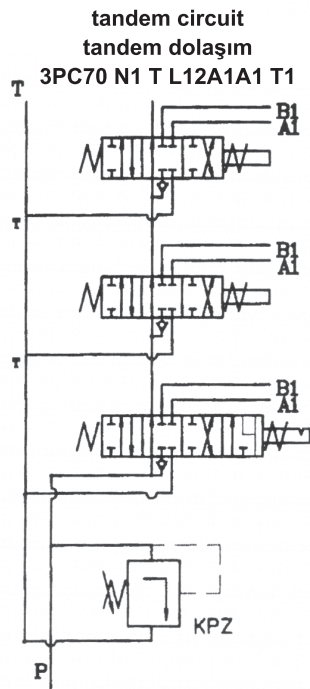
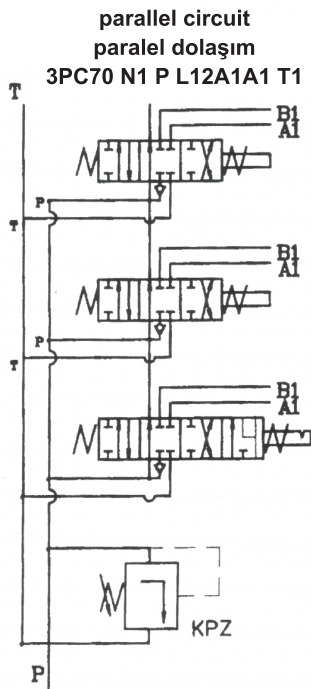
code kod	spool control / sürgü kontrolü
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	

code kod	threaded connections dişli bağlantılar	code kod	way of distribution of oil yağ dağıtım yolları
	P, A, B T, N	P	parallel
M	M22x1.5 M26x1.5	T	tandem(series parallel) / seri paralel
G	1/2" 3/4"	S	series

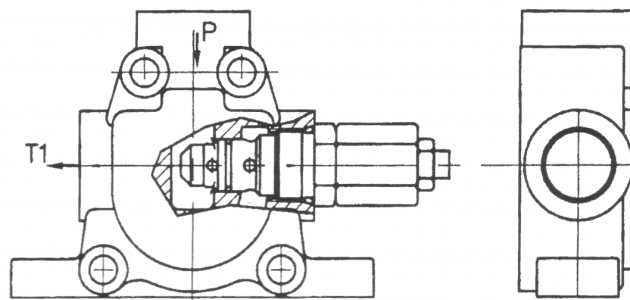
code kod	with electric switch / elektrik swiçli
E	 Mikroswitch Omron - V 165 I C5

code kod	operation feature / operasyon özelliği
P	 pneumatic/pnömatik - pn = 6 bar/kalıp
H	 hydraulic/hidrolik - pn = 6 - 20 bar/kalıp

xA	xB	anti cavitation valve for A and / or B antikavitasyon valf A yada B
yA	yB	sek. pressure relief valve for A and / or B basınç boşaltma valfi A yada B
zA	zB	şok absorbe eden valfi A yada B shock absorber valve for A and / or B



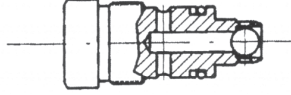
Inlet cover
Giriş kapağı



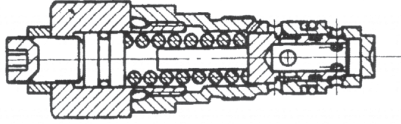
code kod	Inlet cover / Giriş kapağı
N1	
N2	
N3	

genel kullanım şekli / general operation feature

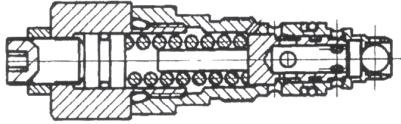
Anticavitation Valve(X)
Antikavitasyon Valfi(X)



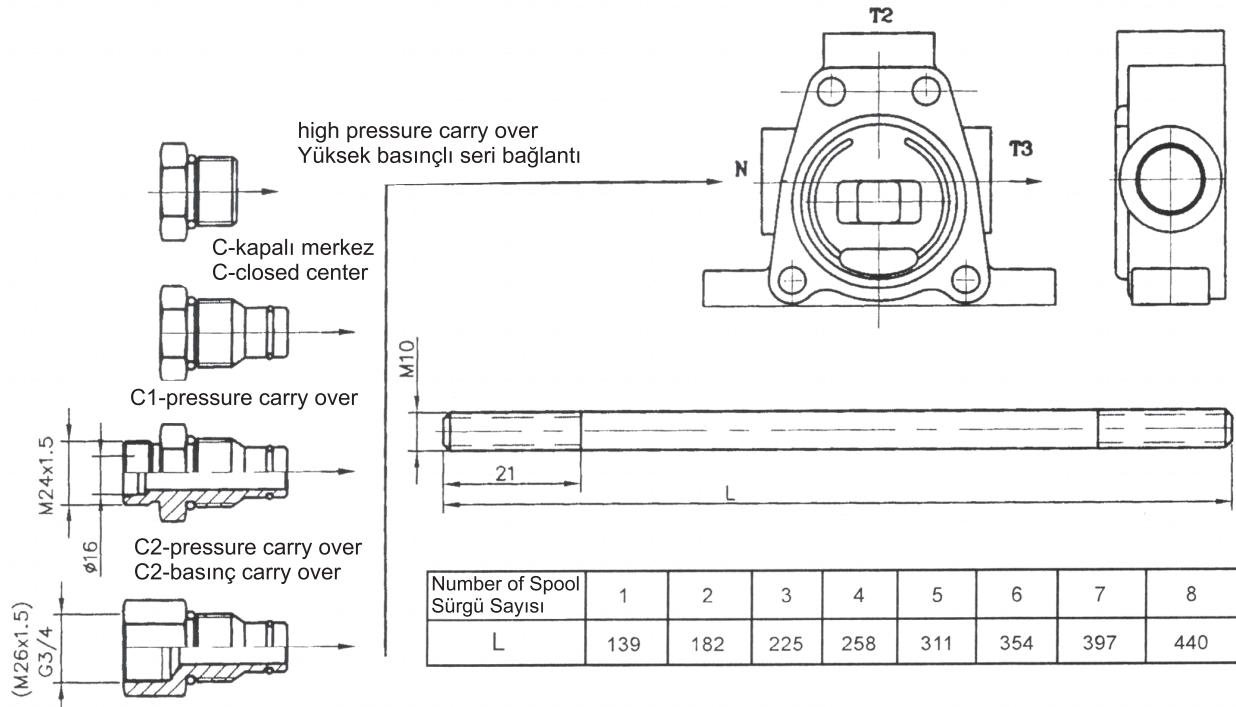
Second relief valve(Y)
İkinci Emniyet valfi(Y)

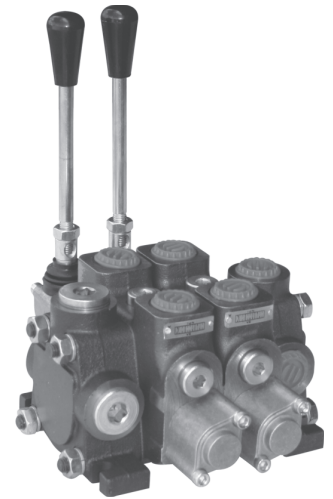
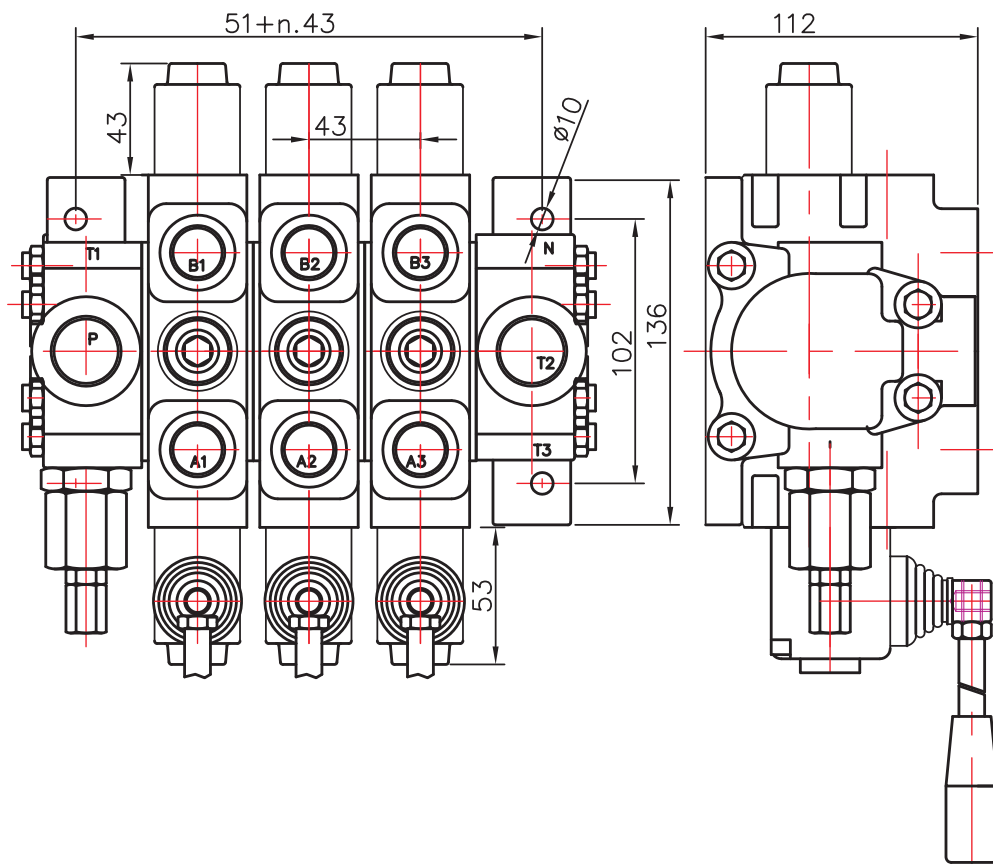


Relief and anticavitation valve (Z)
Emniyet ve Antikavitasyon Valve (Z)



code kod	feature / özellik	code kod	feature / özellik	code kod	feature / özellik
KZ		KY		KI	
KZ1		KY1		KI1	
KZ0		KY0		KI0	
KZ01		KY01		KI01	
-	without lever system / Lever sistemsiz				





SİPARİŞ KODLARI / ORDERING CODES

03 PC 100

Sürgü numaraları
number of spools

C.10

yön kontrol valfi tipi...
directional control valve type...

N2 A1(-AzBx) A8

giriş kapağı tipi
type of the inlet

birinci sürgü dağıtım tipi
second spool distribution type

A8

ikinci sürgü dağıtım tipi
second spool distribution type

D1

üçüncü sürgü dağıtım tipi
Third spool distribution

T2

çıkış kapağı tipi (T tipi)
type of the outlet cover (T port)

G

dişler (P, A, B, T, N)
threads (P, A, B, T, N)

KZ

sap seçenekleri
lever options

IP

operasyon özelliği
operation feature

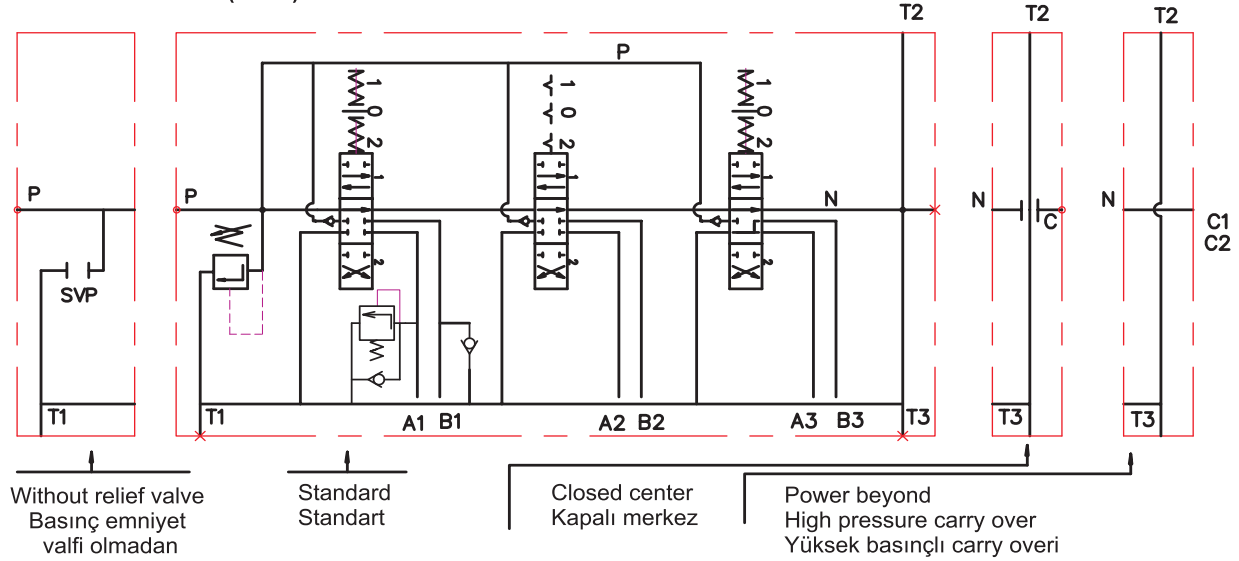
E

**Mikro switchli
with micro switch**

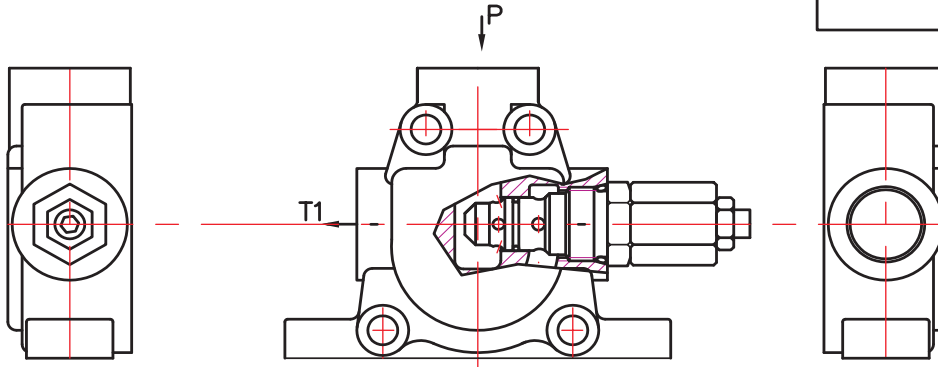
C2

yüksek basınç seri bağlantı
high pressure carry over

parallel circuit - paralel dolaşım
3PC100 N2 / A1(AzBx) / A8 / D1 / T2



Inlet cover
Giriş kapağı



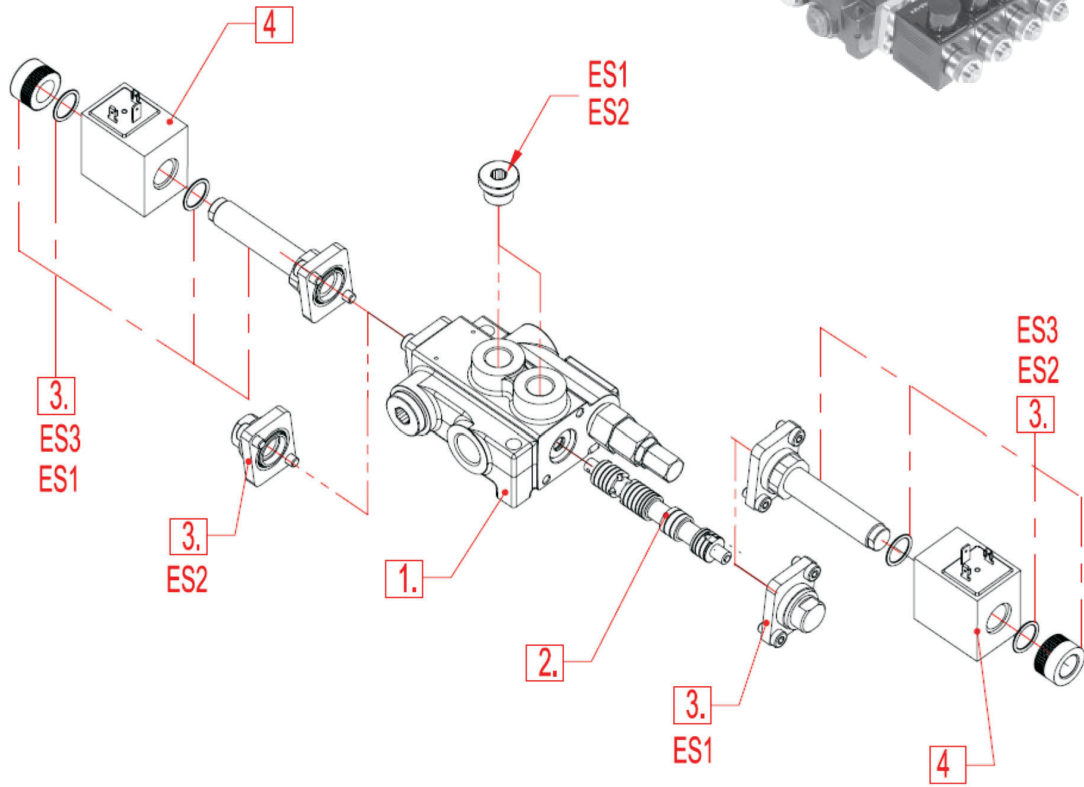
code kod	Inlet cover / Giriş kapağı	
N1	N1 (210 bar)	
N1svp		
N2	N2 (210 bar)	
N2svp		

Solenoid direct control with spring return to neutral position.
Normal konumuna yay geri dönüşlü selenoid valf
Needs special spools and special body Z50 / Z80
Özel spullar

ES...SOLENOID DIRECT CONTROL
ES...SELENOİDLİ KUMANDA KONTOL

ORDERING EXAMPLE / SİPARİŞ ÖRNEĞİ

Z50 A ES3 12VDC G
1 2 3 4 5



1.Body kit / Gövde kiti

Type / Tipi	Description/Tanım
Z50/ Z80	1 spool
02Z50/ 02Z80	2 spool
03Z50/ 03Z80	3 spool
04Z50/ 04Z80	4 spool
05Z50/ 05Z80	5 spool
06Z50/ 06Z80	6 spool

2.Spool options / Spol seçenekleri

Type/Tipi	Description / Tanımı
A	Double acting, 3 positions Çift etkili, 3 pozisyonlu with A and B closed in neutral position A ve B nötr pozisyonda kapalıyken
D	Double acting, 3 positions Çift etkili, 3 pozisyonlu with A and B open to Tank in neutral position A ve B nötr pozisyonda Tanka açılıyor

3.Control kit / Kontrol kiti

Type / tipi	Description / Tanımı
Es1	Single acting P-A with spring return in neutral position Tek etkili P-A nötr pozisyona yay dönüşü
Es2	Single acting P-B with spring return in neutral position Tek etkili P-B nötr pozisyona yay dönüşü
ES3	Double acting P-(B) with spring return in neutral position Tek etkili P-(B) nötr pozisyona yay dönüşü

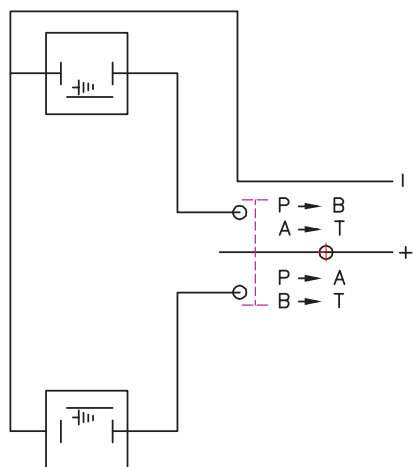
4.Coils

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

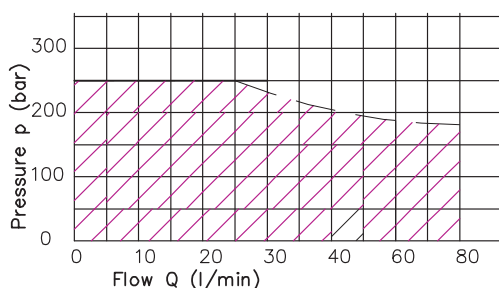
5.Threads

G	P.T - G1/2; A,B - G3/8 (Z50)
G	P, A, B-G1/2; T-G3/4 (Z80)

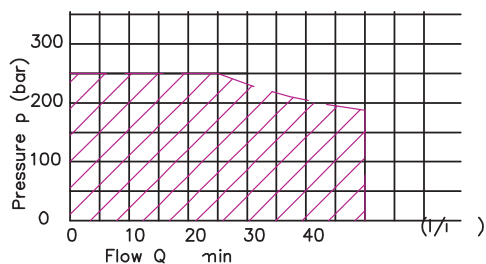
Electric wiring sheme



Operating diagram - Z80

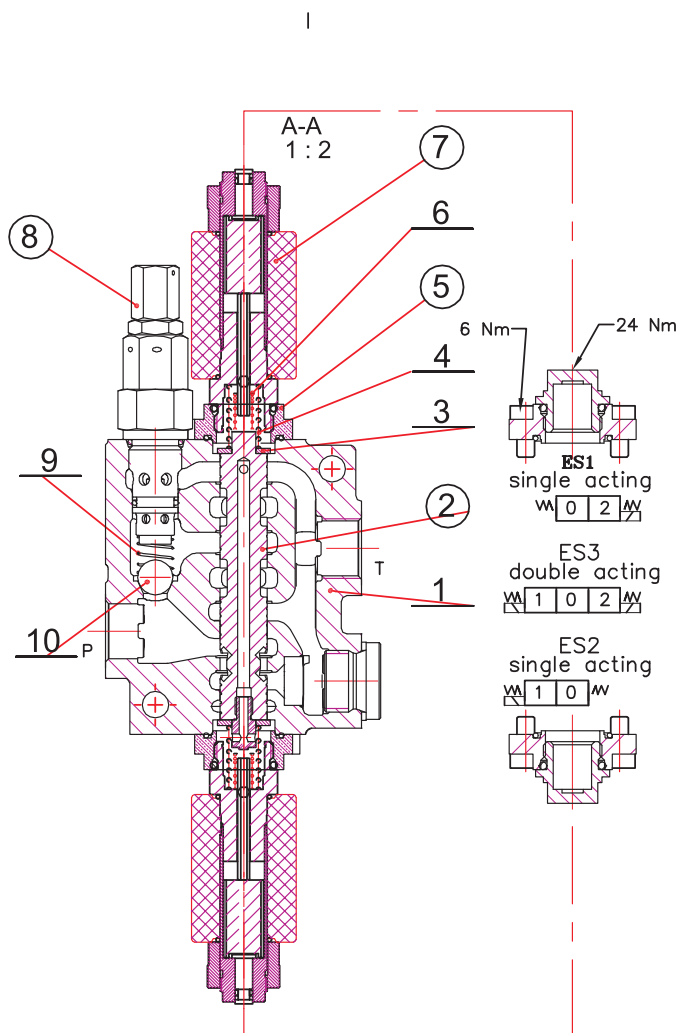


Operating diagram - Z50



Directional control valve Z50 / Z80 kumanda kolları

ES ... Solenoid direct control
ES ... Selenoid kontrollü kumanda kolu



ES1
single acting
W 0 2 W

ES3
double acting
W 1 0 2 W

ES2
single acting
W 1 0 W

Operating features
Çalışma Özellikleri

Control -Z50

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

Control - Z80

Internal leakage A(B) → T
(p=120 bar, Viscosity=32 mm²/s : max 40 ccm/min)
Fluid temperature - -20°C(short time) ... 80°C
Max. back pressure on outlet port T - 25 bar (360psi)

Coil

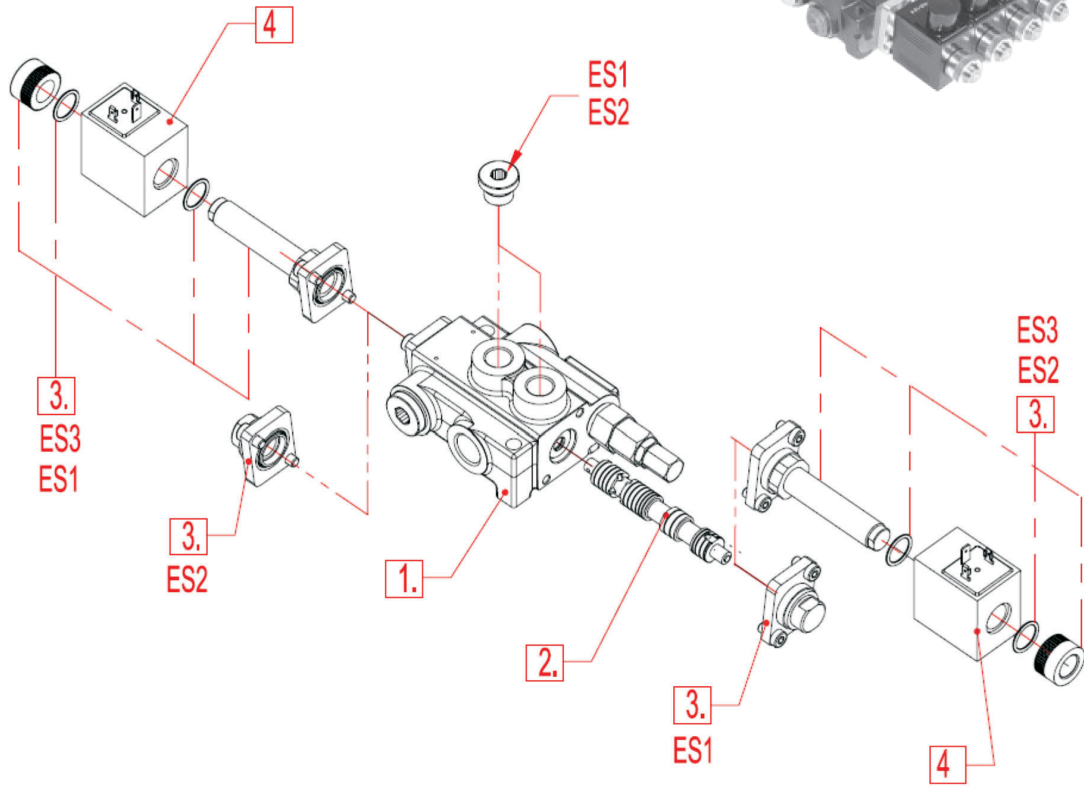
Nominal voltage tolerance ±10%
Power rating 37 W
Coil insulation class H
Duty cycle 100%
Connector ISO 4400
Emergency manual override

Solenoid direct control with spring return to neutral position.
Normal konumuna yay geri dönüşlü selenoid valf
Needs special spools and special body Z50 / Z80
Özel spullar

ES...SOLENOID DIRECT CONTROL
ES...SELENOİDLİ KUMANDA KONTOL

ORDERING EXAMPLE / SİPARİŞ ÖRNEĞİ

Z50 A ES3 12VDC G
1 2 3 4 5



1.Body kit / Gövde kiti

Type / Tipi	Description/Tanım
Z50/ Z80	1 spool
02Z50/ 02Z80	2 spool
03Z50/ 03Z80	3 spool
04Z50/ 04Z80	4 spool
05Z50/ 05Z80	5 spool
06Z50/ 06Z80	6 spool

2.Spool options / Spol seçenekleri

Type/Tipi	Description / Tanımı
A	Double acting, 3 positions Çift etkili, 3 pozisyonlu with A and B closed in neutral position A ve B nötr pozisyonda kapalıyken
D	Double acting, 3 positions Çift etkili, 3 pozisyonlu with A and B open to Tank in neutral position A ve B nötr pozisyonda Tanka açılıyor

3.Control kit / Kontrol kiti

Type / tipi	Description / Tanımı
Es1	Single acting P-A with spring return in neutral position Tek etkili P-A nötr pozisyona yay dönüşü
Es2	Single acting P-B with spring return in neutral position Tek etkili P-B nötr pozisyona yay dönüşü
ES3	Double acting P-(B) with spring return in neutral position Tek etkili P-(B) nötr pozisyona yay dönüşü

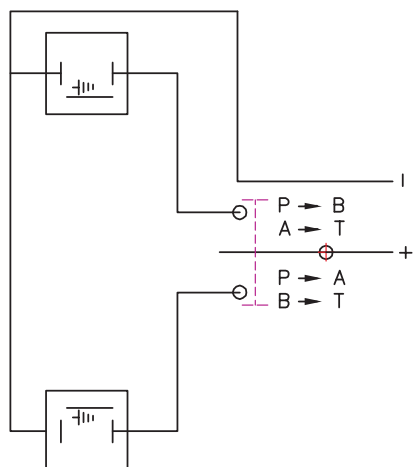
4.Coils

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

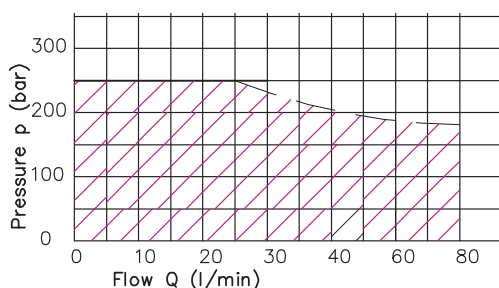
5.Threads

G	P.T - G1/2; A,B - G3/8 (Z50)
G	P, A, B-G1/2; T-G3/4 (Z80)

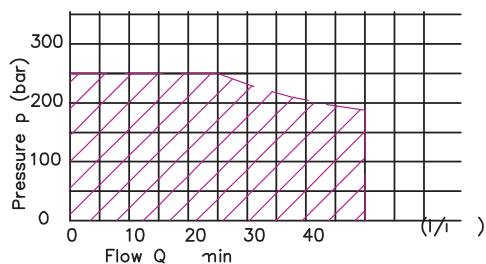
Electric wiring sheme



Operating diagram - Z80

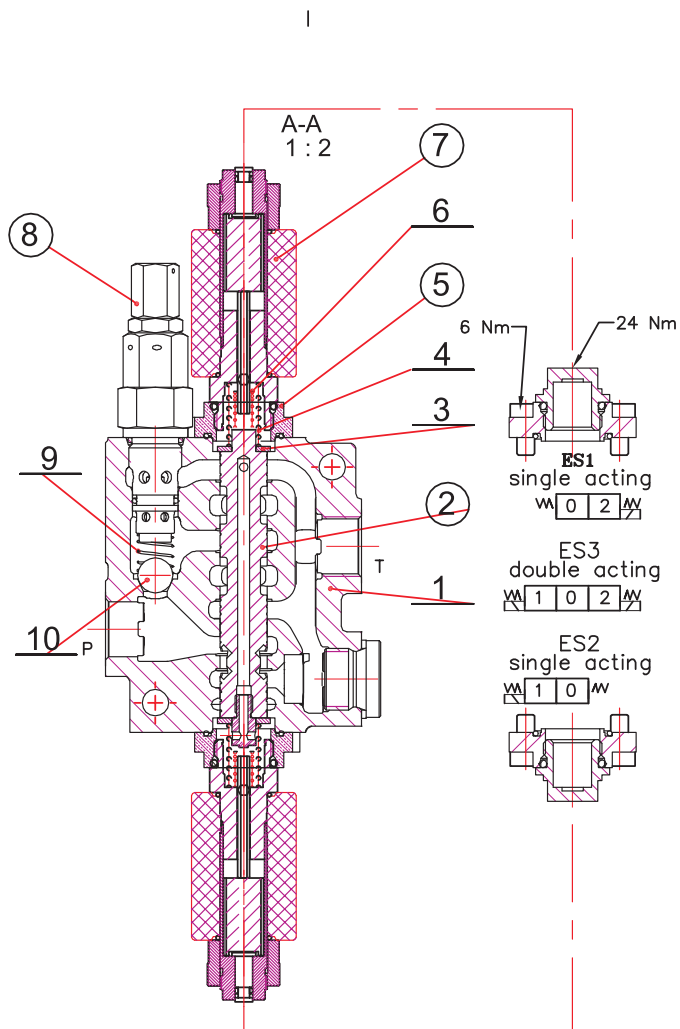


Operating diagram - Z50



Directional control valve Z50 / Z80 kumanda kolları

ES ... Solenoid direct control
ES ... Selenoid kontrollü kumanda kolu



Operating features
Çalışma Özellikleri

Control -Z50

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

Control - Z80

Internal leakage A(B) → T
(p=120 bar, Viscosity=32 mm²/s : max 40 ccm/min)
Fluid temperature - -20°C(short time) ... 80°C
Max. back pressure on outlet port T - 25 bar (360psi)

Coil

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