

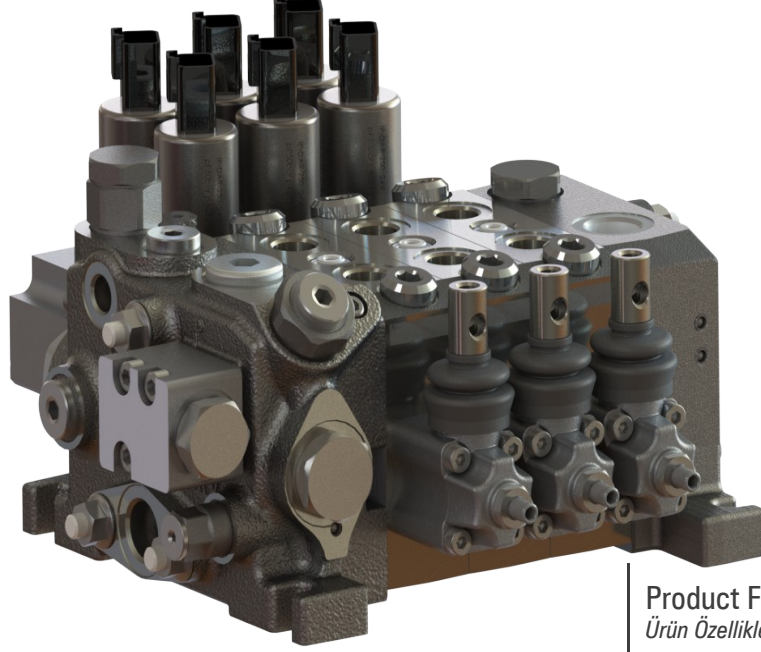
CNC LS50

Load Sense Sectional Directional Control Valve

Load Sense Dilimli Hidrolik Yön Kontrol Kumandası



MOBILE AND INDUSTRIAL HYDRAULIC



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General Specifications

Genel Özellikler

Product Features

LS50 is closed center load sensing directional control valve with flow up to 60 l/min and work port pressure up to 315 bar. The valve designed for high performance and flexibility as an extension to S50 product family and option to combine with SPV120 and SPX80 valves.

Accessories

Valve is equipped with an adjustable main relief valve
Load hold check valves
Prepared for unloading valve
Inlet versions for fixed and variable displacement pumps
Auxiliary Valves
Wide range of spool options
Interchangeable Ø13 mm Spools
Carry-over and closed center option

Controls

Mechanical, Pneumatic, Electro-Pneumatic, Hydraulic, Electro-Hydraulic On-Off, Electro-Hydraulic Proportional, Mechanical Joystick and Remote Cable Control

Özellikler

S50 ürün ailesine ait Load Sensing LS50 kontrol kumandası 60lt/dk ve 315 bar çalışma basıncına kadar maksimum performansı gösteren kapalı merkez kontrol kumandasıdır.

Aksesuarlar

Ayarlanabilir Ana Emniyet Valfi
Her Dilimde Yük Tutma Valfleri
Unloading Valf opsiyonu
Sabit ve değişken debili pompalar için basınç kapağı opsiyonları
Yardımcı Valfler
Çeşitli Sürgü Tipleri
Değiştirilebilir Ø13 mm Sürgüler
Carry-over ve Kapalı Merkez İmkanı

Kontrol

Manuel, Pnömatik, Elektro-Pnömatik, Hidrolik, Elektro-Hidrolik On-Of, Elektro-Hidrolik Oransal, Mekanik Joystik, Halat Kontrol

Standard Material Specifications Standard Malzeme Özellikleri

High Resistance Cast Iron Body *Döküm Gövde*
Hard Chromium Plated Interchangeable Spools *Sertleştirilmiş Krom Kaplama Sürgüler*
Steel spring caps *Çelik Yay Kapakları*
Aluminium Lever Caps *Alüminyum Sap Kapakları*
NBR Seals *NBR Sızdırmazlık Elemanları*

Working Conditions Çalışma Şartları

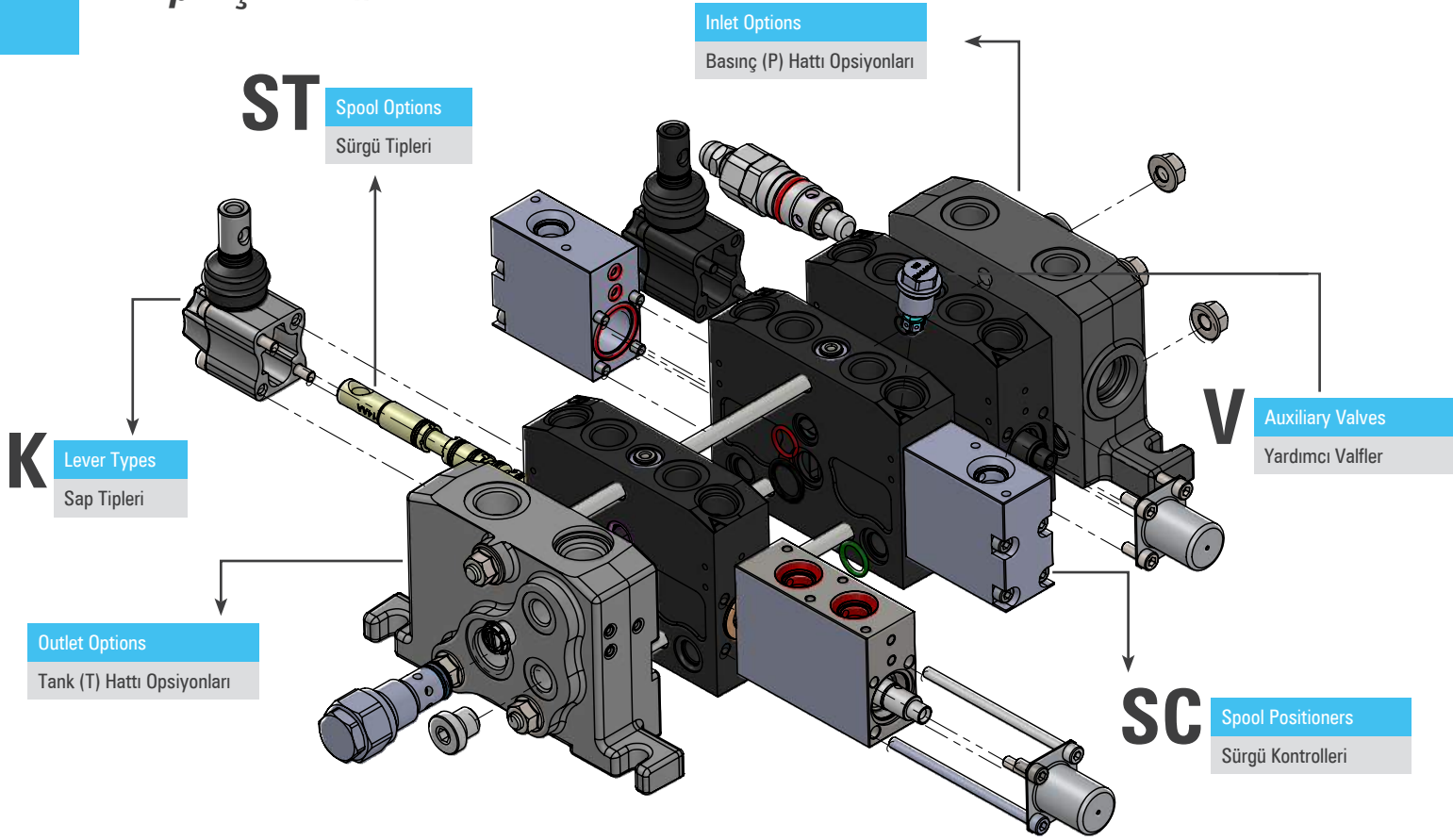
Recommended Oil Viscosity Range <i>Önerilen Yağ Viskozite Aralığı</i>	10 cSt to 75 cSt
Recommended Oil Filtering <i>Önerilen Yağ Filtrasyonu</i>	β 10 ≥ 75
Recommended Fluid Temperature Range <i>Önerilen Çalışma Sıcaklığı (°C)</i>	-20 to +80
Environmental Temperature Range <i>Önerilen Ortam Sıcaklığı (°C)</i>	-35 to +60
Maximum Contamination Level <i>Maksimum Kirlilik Seviyesi</i>	Class 10 (NAS 1638) 19/16 (ISO 4406)

Technical Specifications Teknik Özellikler

Flow Rate <i>Debi</i>	Max. Flow @ Work port <i>A/B Portundan alınacak maksimum debi</i> Max. Flow @ Inlet <i>P Portundan alınacak maksimum debi</i>	60 lpm 80 lpm	16 US gpm 21 US gpm
Number of Spools <i>Dilim Sayısı</i>		1 - 12	
Maximum Working Pressure <i>Maksimum Çalışma Basıncı</i>		315 bar 250 bar in Series Circuit	4650 psi 3600 psi in Series Circuit
Maximum Back Pressure <i>Maksimum Tank Hattı Basıncı</i>		30 bar	430 psi
Internal Leakage <i>İç Kaçak Değeri</i>		Max. 15 cc (100 Bar; 32 cSt, 40°C)	Max. 0,92 in3/m (1450 psi; 32 cSt, 104°F)

Order Coding

Sipariş Kodlama



CNC S52 - ILSL - 014(180) - F - B01 / A SC1 ST23(40) V13 K1 / A SC34 ST23(15) V7 / B - H

1

2

3

4

1

Valve Type Valf Tipi

S50 Valve Series Valf Serisi
2 Number of Spools Sürgü Sayısı

2

Inlet Options Pompa (P) Hattı Opsiyonları

ILSL Side of Inlet Section Basmaç Kapağı Yönü
014 Configuration of Inlet Section Basmaç Kapağı Konfigürasyonu
180 Pressure Setting Basmaç Değeri
F Pump Type Pompa Tipi
B01 Inlet Position and Port Thread Basmaç Kapağı Konfigürasyonu

3

Working Section Dilim

A Port Thread Port ölçüleri
SC1 Spool Positioners Sürgü Kontrol
ST23(40) Spool Options Sürgü Tipleri
V13 Auxiliary Valves Yardımcı Valfler
K1 Lever Types Sap Tipleri

4

Outlet Options Tank (T) Hattı Opsiyonları

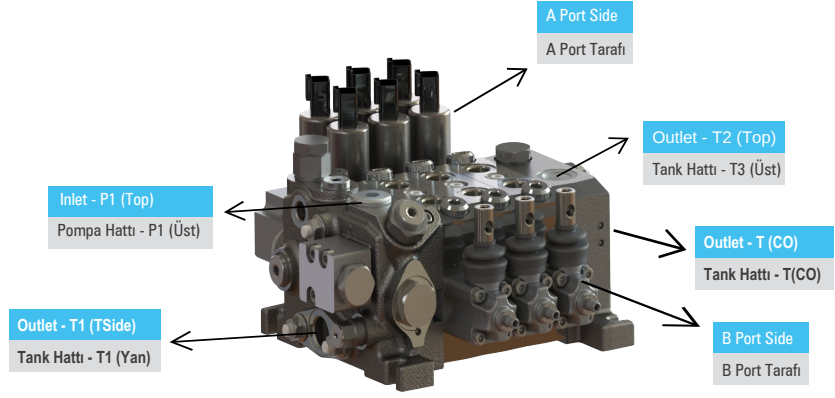
B Port Thread Port ölçüleri
H Outlet Options Tank Hattı Opsiyonları

This part must be coded separately for each working section. If adjacent sections are identical then code the first section and put number of identical sections with a cross.
Example for 3 identical sections; CNC S53-ILSL-0014(180)- F- B01/ ASC1 ST23(40) V13 K1 / 2XA SC34 ST23(40) V7 / B - H

Bu bölümdeki kodlama her dilim için ayrı ayrı yapılmalıdır. Eğer birbirini takip eden ve aynı konfigürasyona sahip dilim isteniyorsa, aynı dilimler, dilim sayısı başa getirilip yanına çarpı konacak şekilde kodlanabilir. Örnek Kodlama ; CNC S53-ILSL-014(180)- F- B01/ ASC1 ST23(40) V13 K1 / 2XA SC34 ST23(40) V7 / B - H

Dimensional Data

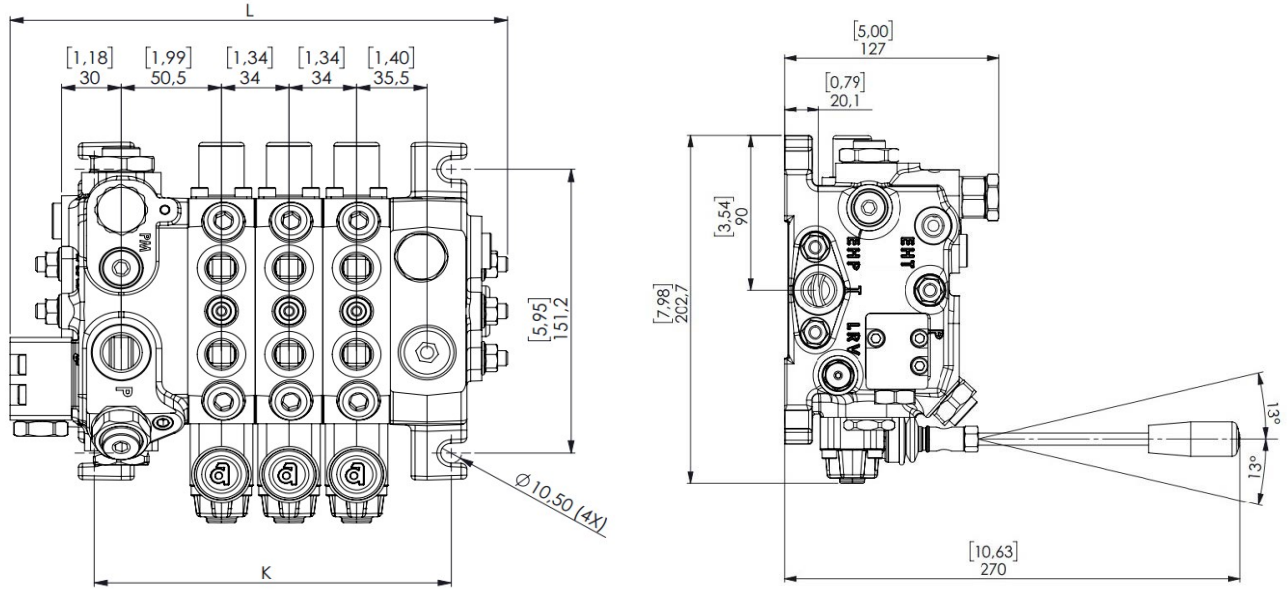
Ölçüsel Bilgi



Standard & Optional Threads Standart ve Opsiyonel Ölçüler

Thread Paso Tipi	Code Kod	P1 - P2 - T1	A/B	T2	T(CO)
BSP(Standard)	A	G 1/2"	G 3/8"	G 1/2"	G 1/2"
UN-UNF	L	3/4 - 16 (SAE 8)	3/4 - 16 (SAE 8)	7/8 - 14 (SAE 10)	G 1/2"
	M	7/8 - 14 (SAE 10)	3/4 - 16 (SAE 8)	7/8 - 14 (SAE 10)	G 1/2"
METRIC	U	M22x1,5	M18x1,5	M22x1,5	G 1/2"

BSP threads are standard threads. Its necessary to code the port thread in inlet, working and outlet section. Example coding; S51-ILSL-0014(180)- F- B01/ A SC34 ST23 V7 / B - H
Valflerimiz standart olarak BSP Diş üretilmektedir. Talep edilen port ölçüleri basınç kapağında, her dilimin başında ve dönüş kapağında kodlanır. Örnek Kodlama; S51-ILSL-014(180)- F- B01/ A SC34 ST23 V7 / B - H



Dimensions & Weight Ölçüler ve Ağırlık

Type / Tip	K		L		Weight Ağırlık	
	mm	inc	mm	inc	kg	lb
CNC LS51	111,7	4.40	182,5	7.18	10.80	23.80
CNC LS52	145,7	5.74	216,5	8.52	13.00	28.65
CNC LS53	179,7	7.07	250,5	9.86	15.20	33.50
CNC LS54	213,7	8.41	284,5	11.20	17.40	38.35
CNC LS55	247,7	9.75	318,5	12.54	19.60	43.20
CNC LS56	281,7	11.09	352,5	13.88	21.80	47.80
CNC LS57	315,7	12.43	386,5	15.21	24.00	52.85
CNC LS58	349,7	13.77	420,5	16.55	26.20	57.65
CNC LS59	383,7	15.11	454,5	17.89	28.40	65.50

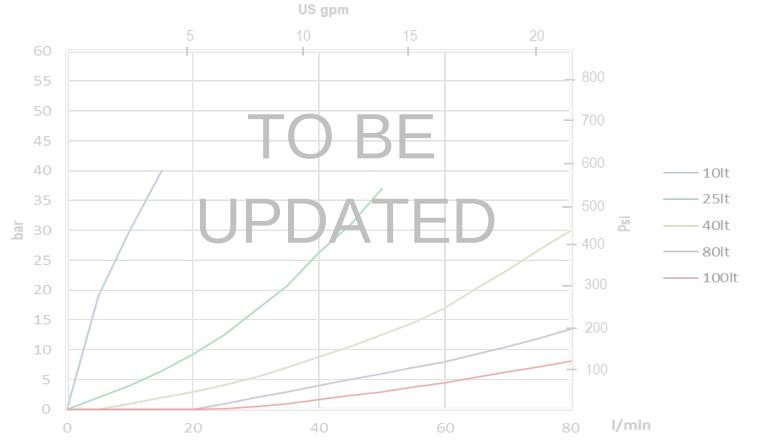
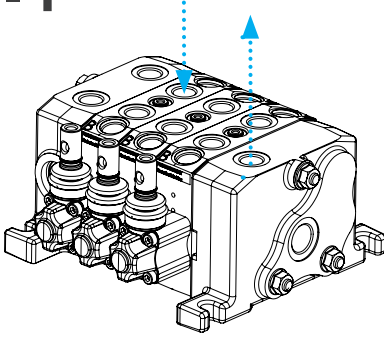
Given weights are for standard configurations.
Ağırlıklar standart konfigürasyon için verilmiştir.

Performance Data

Performans Eğrileri

Pressure Drop Curves Basınç Kayıp Eğrileri

A/B - T



Measured with spool type ST1 and 32 cSt hydraulic oil @ 40°C.
ST1 sürgü ve 32 cSt hidrolik yağ ile 40°C'de ölçülmüştür.

Hydraulic Specifications

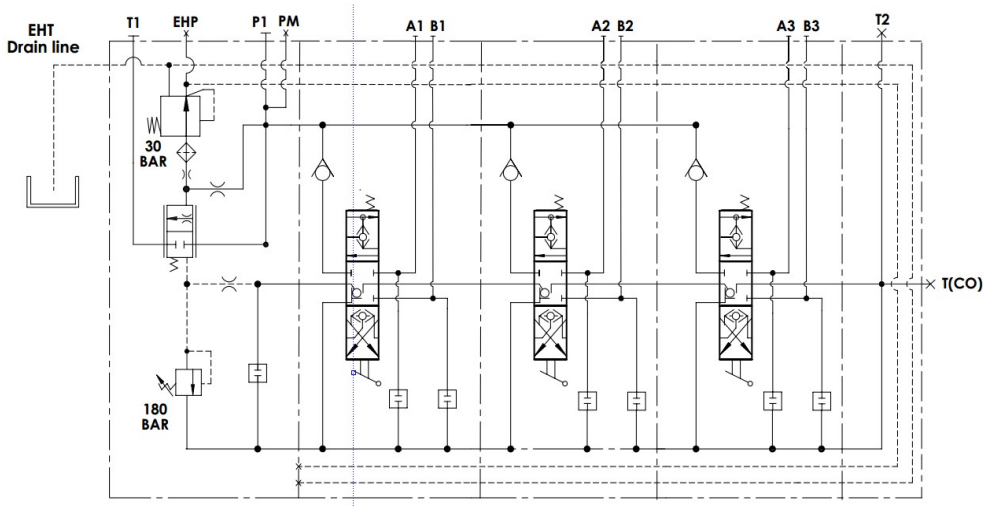
Hidrolik Devre

Parallel Circuit *Paralel Devre*

Standard configuration; Parallel circuit with upper inlet and outlet.

Code / Kod

**NO
CODE**

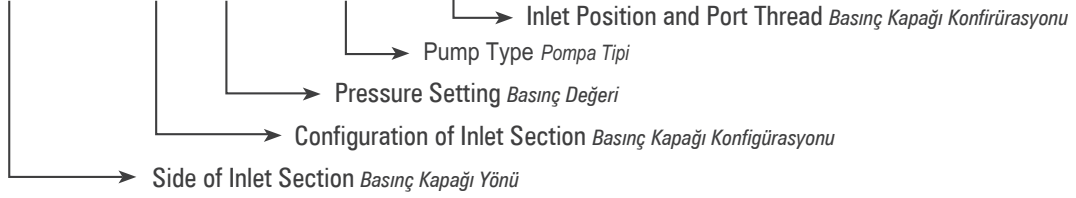


Parallel circuit is standard configuration.
No need for coding.
Standart üretimimiz paralel devredir.
Ek bir kodlamaya gerek yoktur.

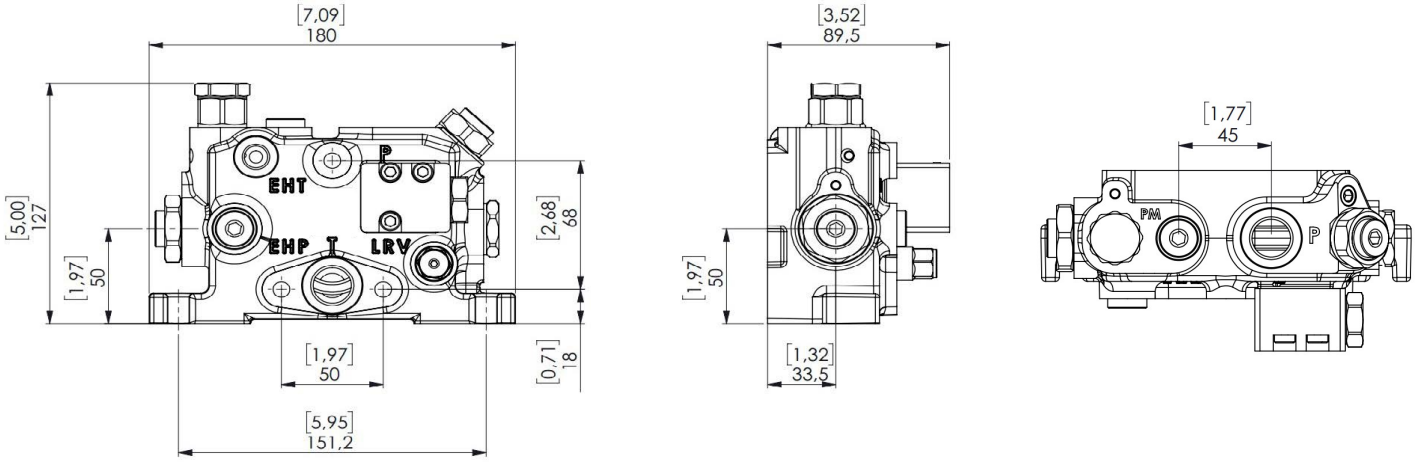
Inlet Option

Basınç (P) Hattı Opsiyonları

CNC S51-ILSL - 014(180) - F - B01 / A SC1 ST23(40) V13 K1 / B - H



Inlet Cover Basınç Kapağı



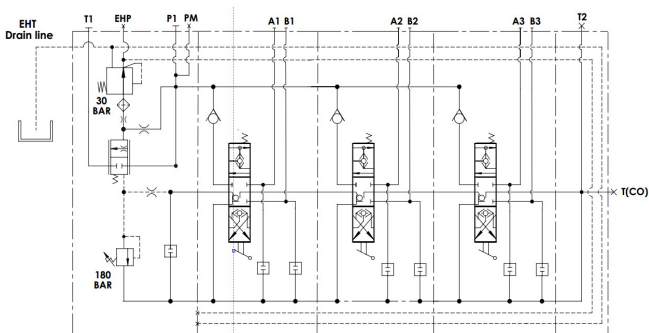
Side of Inlet Section Basınç Kapağı Yönü

Valve with left inlet Sol Basınç Kapağı

Code / Kod

ILSL

Example coding Örnek kodlama
ILSL - 014(180) - F - B01



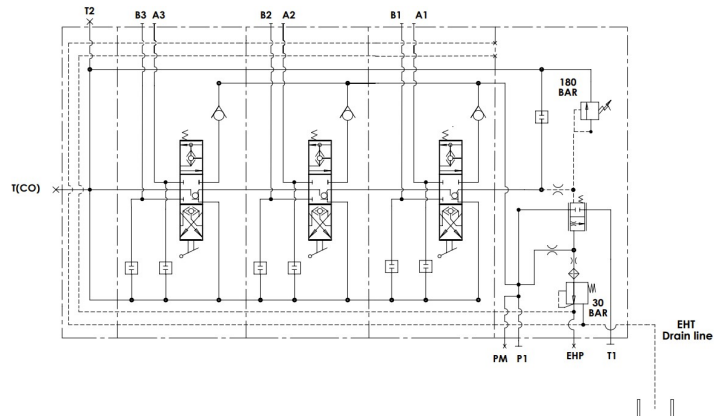
Left inlet is standard configuration unless otherwise indicated.
Aksi belirtilmedikçe sol basınç kapağı standart olarak kullanılır.

Valve with right inlet Sağ Basınç Kapağı

Code / Kod

ILSR

Example coding Örnek kodlama
ILSR - 014(180) - F - B01



Configuration of Inlet Section

Basınç Kapağı Konfigürasyonu

CNC S51 - ILSL - 014(180) - F - B01 / A SC1 ST23(40) V13 K1 / B -H

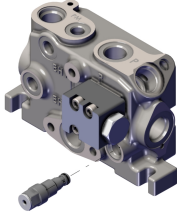
Pump Type Pompa Tipi

Configuration of Inlet Section Basınç Kapağı Konfigürasyonu

014

Direct Acting Main Relief Valve

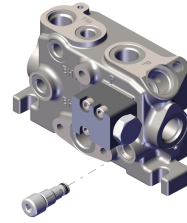
Ana Emniyet Valfi ile



015

Main Relief Valve Blanking Plug

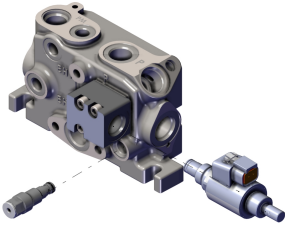
Ana Emniyet Valfi Kör Tapa ile



016

Direct Acting Main Relief Valve
& Unloading Valve

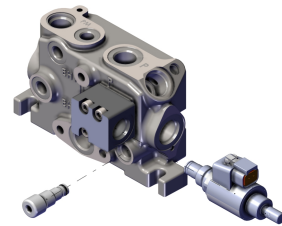
Ana Emniyet Valfi & Unloading Valf ile



017

Direct Acting Main Relief Valve
& Unloading Valve

Ana Emniyet Valfi Kör, Unloading Valf ile



Please indicate the necessary pressure setting value. MRV is preset to 180 Bar at 15 lpm unless otherwise specified.
Lütfen ayarlanmasını istediğiniz basınç değerini bildiriniz. Ürünler standart olarak 15 lt/dk'da 180 Bara ayarlanır.

Pump Type Pompa Tipi

ILSL - 014(180) - F

for fixed displacement pumps

sabit debili pompa için F ile kodlayınız

- B01

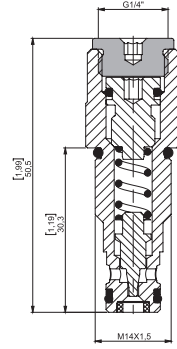
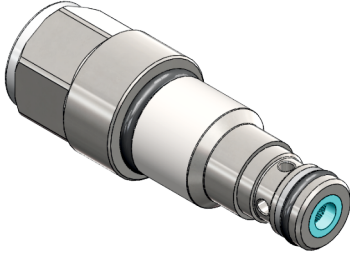
ILSL - 014(180) - V

for variable displacement pumps

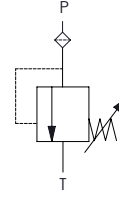
değişken debili pompa için V ile kodlayınız

- B01

Main Relief Valve Ana Emniyet Valfi



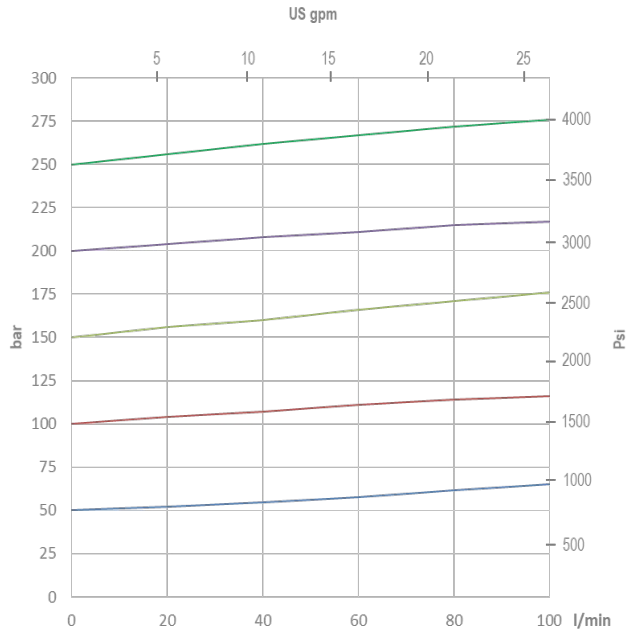
Symbol



Weight

0,05 kgs / 0,11 lbs

Main Relief Valve Performance Data Ana Emniyet Valfi Performans Eğrisi



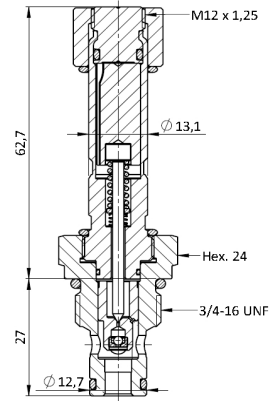
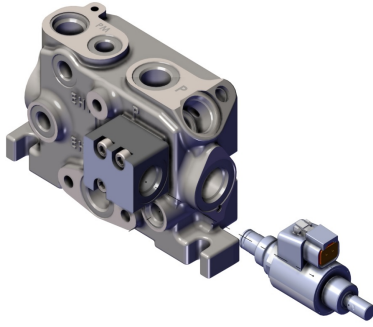
Measured with 32 cSt hydraulic oil @ 40°C and neglected tank line pressure.
32 cSt hidrolik yağ ile 40°C'de, tank hattı basıncı ihmal edilerek ölçülmüştür.

Inlet Position and Thread Type Basınç Kapağı Konfigürasyonu

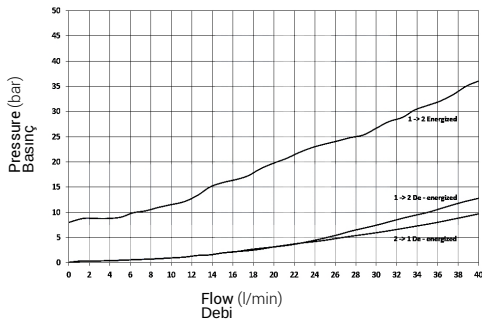
Code Kod	Port Threads Paso Tipi P1, P2, T3	Connection Port Bağlantı Portu	Steel Plug Kör Tapa	Load Sense Connection Load Sense Bağlantısı
B01	G 1/2"	P1	P2, T1	-
B02	G 1/2"	P1	T1	LS(G 1/4")
B03	G 1/2"	P2	P1, T1	-

Unloading Valves

Aşırı Yük (Unloading) Emniyet Valfi



Technical Data Teknik Bilgi

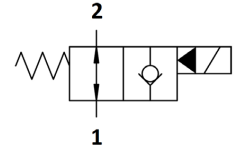


Description

Solenoid operated, 2-way 2-positions, normally open, piloted poppet type, screw-in cartridge valve. When the coil is de-energized, the valve allows flow bidirectionally from 2 to 1, and from 1 to 2. When the coil is energized the valve closes, blocking flow from 2 to 1. In this mode, flow from 1 to 2 is allowed once the pressure overcomes the force of the solenoid. The rigid design using a 1-piece body contributes to minimize the effect of eccentricities in cavity and provides great reliability. Low pressure drop thanks to optimized flow path.

Açıklama

Aşırı yük (unloading) valfi, elektrik kontrollü, 2/2, normalde açık, emniyet valfidir. 1. konumda bobin çalışmazken, 2'den 1'e ve 1'den 2'ye çift yönlü akış sağlar. Bobine enerji verildiğinde valf 2'den 1'e akışı kapatır ve bu pozisyonda basınç solenoid valfin gücünü aştığında emniyet amaçlı yalnızca 1'den 2'ye akış sağlar.



Coils Bobin Bilgileri

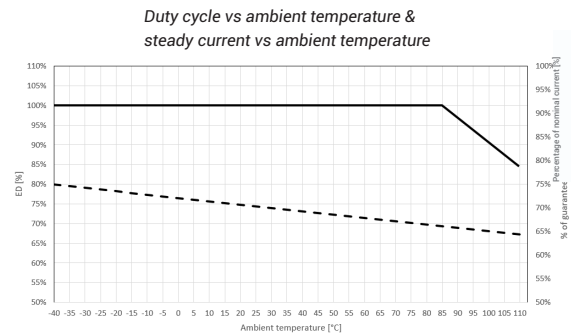
Technical Data Teknik Bilgi

Power	20,5W
Various voltage options available	12VDC / 24VDC
Coil insulation class	H (180°C)
Wire insulation class	H (180°C)
ED	100%
Supply power tolerance	±10% (DC); +10%, -5% (AC)
Connector	Deutsch type
Ambient temperature range	-40°C, +80°C
IP coil with connector	see page 424-425
IP coil	69K

Performance Data Performans Eğrileri

Note: The above values had been realized with a ventilated climatic chamber. Values over 80°C are iphotetical.

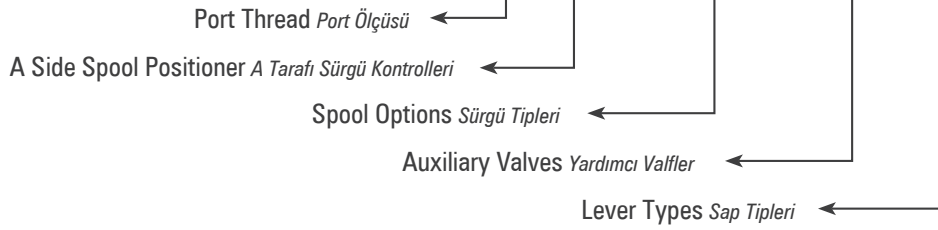
— ED with Vdc + 10%
 - - - Steady current guaranteed with Vdc -10%



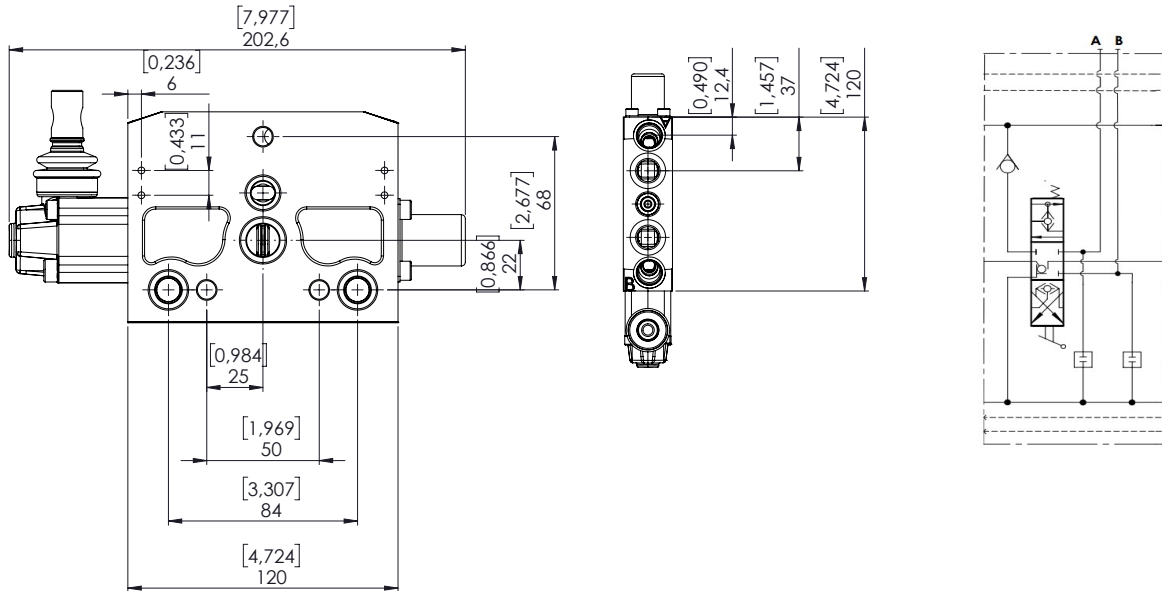
Working Section

Dilim

CNC S51 - ILSL - 014(180) - F - B01 / **A SC1 ST23(40) V13 K1** / B- H



Working section with port relief cavity Antişok portları işlenmiş dilim



Spool Positioners

Sürgü Kontrolleri

CNC S51 - ILSL - 014(180) - F - B01 / A **SC1** ST23 V13 K1 / B - H

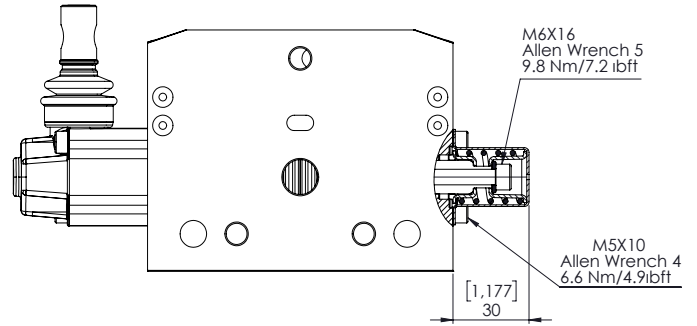
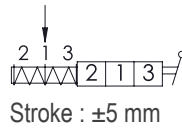
→ Spool Positioners Sürgü Kontrolleri

Spool Positioners with Spring Return *Yay DönüŖlü Sürgü Kontrolleri*

SC1

3 Positions Spring Return

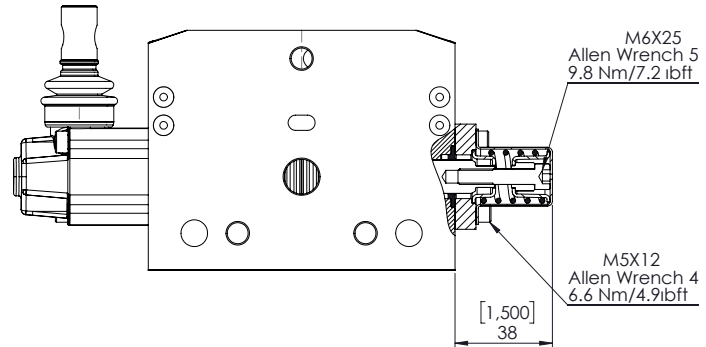
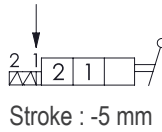
3 Pozisyon Yaylı



SC5

2 Positions Spring Return

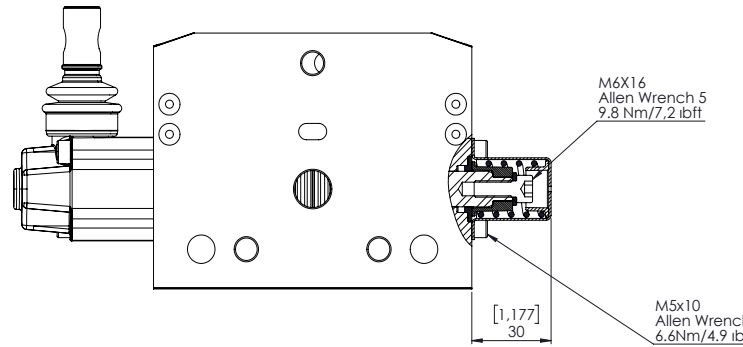
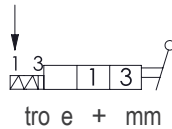
2 Pozisyon Yaylı



SC6

2 Positions Spring Return

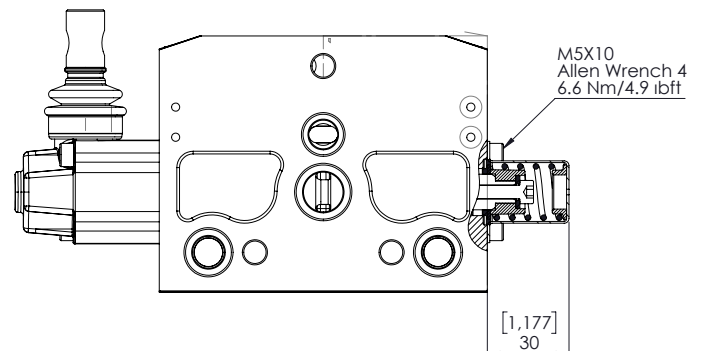
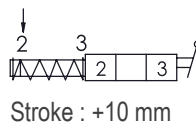
2 Pozisyon Yaylı



SC11

2 Positions Spring Return in
3rd Position

2 Pozisyon, 3. Pozisyona Yaylı



Spool Positioners

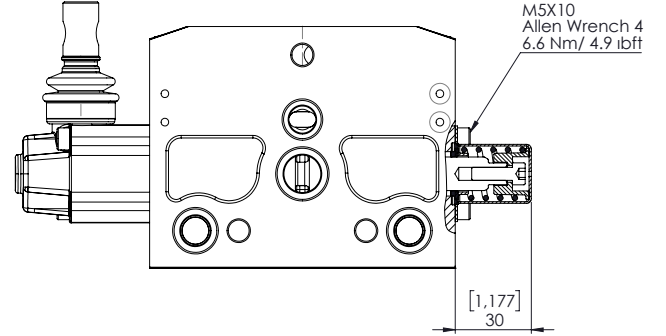
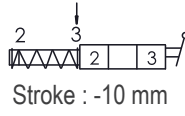
Sürgü Kontrolleri

Spool Positioners with Spring Return *Yay Dönüslü Sürgü Kontrolleri*

SC12

2 Positions Spring Return in 2nd Position

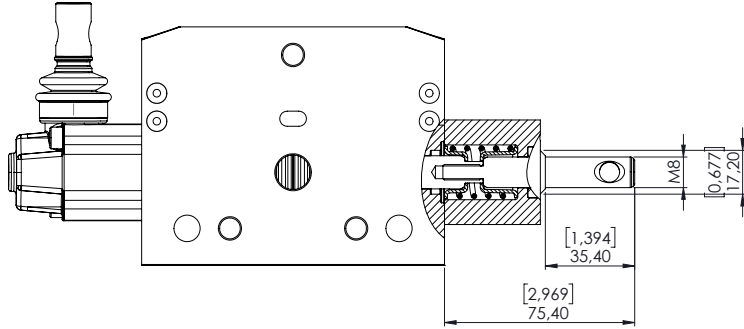
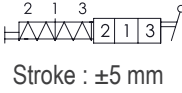
2 Pozisyon, 2. Pozisyona Yaylı



SC25

3 Position Spring Return with male M8 pin extension for dual control

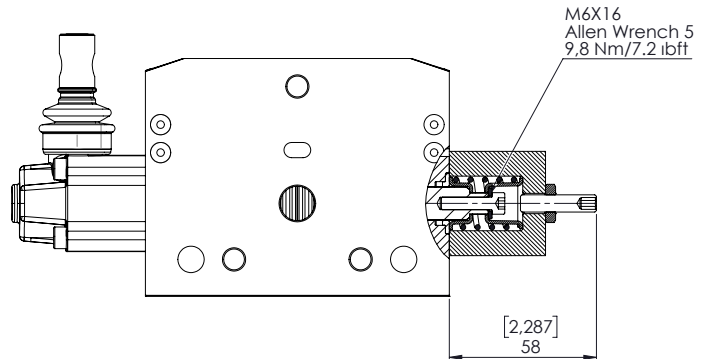
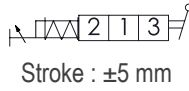
3 Pozisyon Yaylı, M8 Erkek Uzatmalı



SC33

2 Positions Spring Return in 2nd Position

2 Pozisyon, 2. Pozisyona Yaylı



Spool Positioners

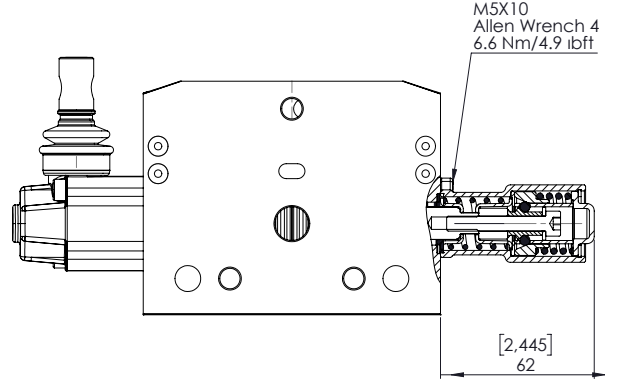
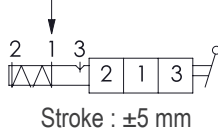
Sürgü Kontrolleri

Spool Positioners with Detent *Detantlı Sürgü Kontrolleri*

SC2

3 Position Spring Return,
Detent in Pos. 3

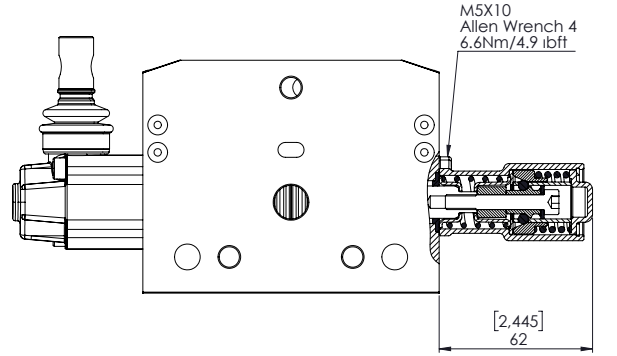
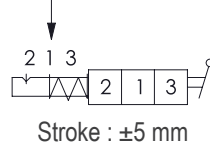
3 Pozisyon Yaylı, 3.Pozisyon
Detantlı



SC3

3 Position Spring Return,
Detent in Pos. 2

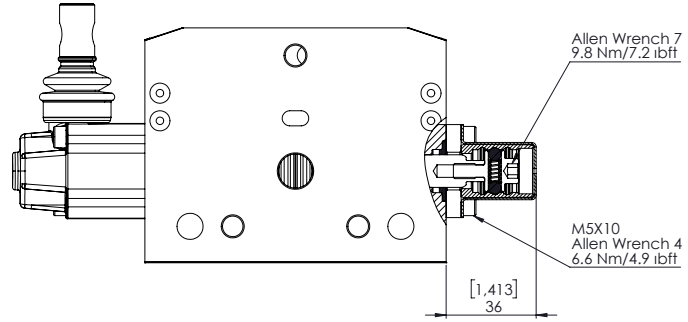
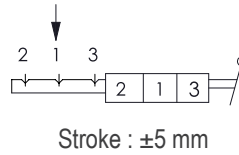
o o a l 2. o o
eta tl



SC4

3 Position Detent in All
Positions

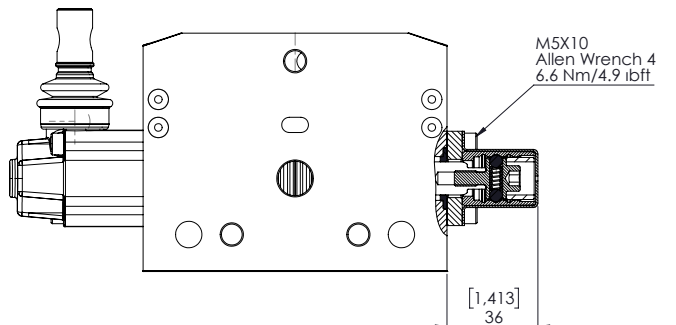
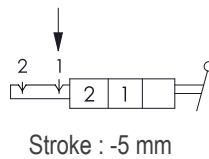
o o Tümü Detantlı



SC7

2 Position Detent

2 Pozisyon, Detantlı



Spool Positioners

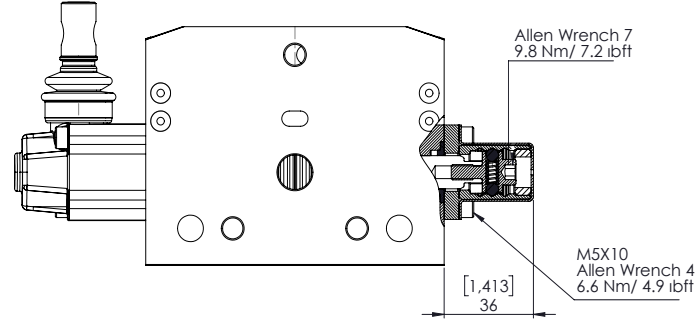
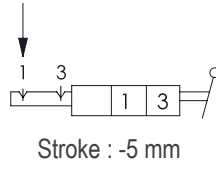
Sürgü Kontrolleri

Spool Positioners with Detent *Detantlı Sürgü Kontrolleri*

SC8

2 Position Detent
Detent in Pos. 1,3

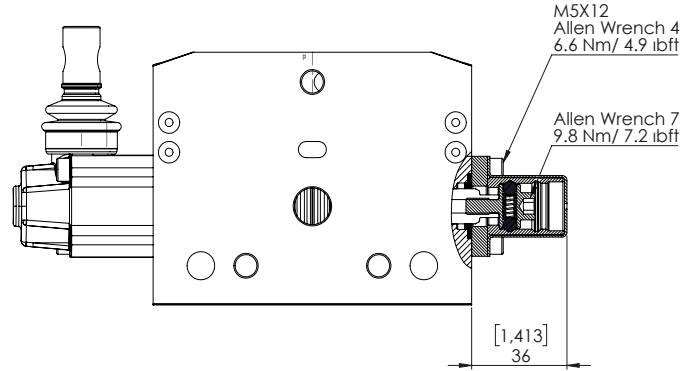
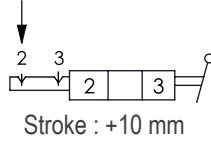
2 Pozisyon, Detantlı



SC13

2 Position Detent
Detent in Pos. 2,3

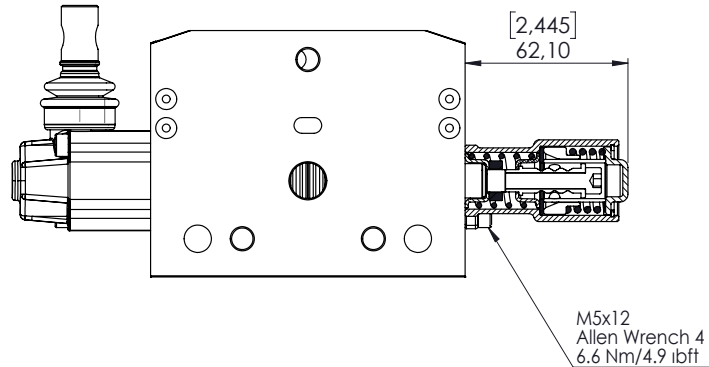
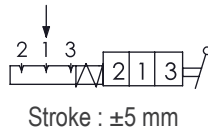
2 Pozisyon, Detantlı



SC28

3 Position Detent in All
Positions

o o Tümü Detantlı



Spool Positioners

Sürgü Kontrolleri

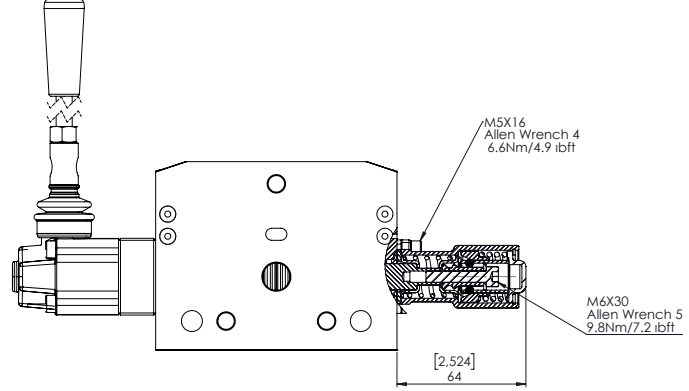
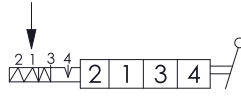
4 Position Spool Positioners 4 Pozisyon Sürgü Kontrolleri

SC9

4 Position Spring Return,
Detent in 4th Pos.

4 Pozisyon Yaylı, 4.Pozisyon
Detantlı

Used with Spool ST9B
ST9B Sürgü ile kullanılır

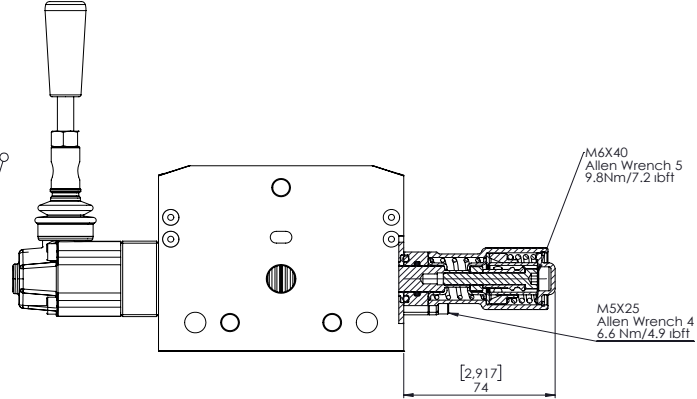
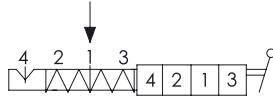


SC23

4 Position Spring Return,
Detent in 4th Pos.

4 Pozisyon Yaylı, 4.Pozisyon
Detantlı

Used with Spool ST9A
ST9A Sürgü ile kullanılır

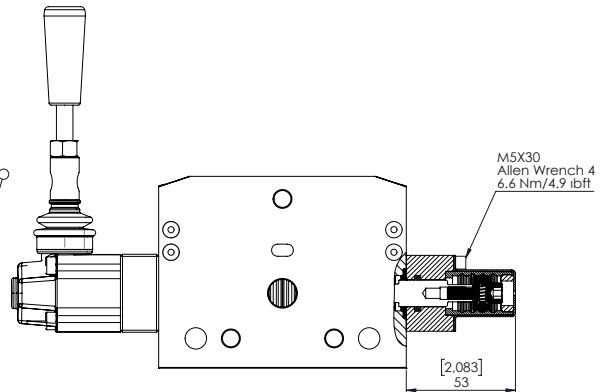
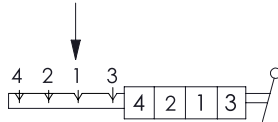


SC10

4 Position Detent in All
Positions

4 Pozisyon Tüm Pozisyonlar
Detantlı

Used with Spool ST9A
ST9A Sürgü ile kullanılır



Spool Positioners

Sürgü Kontrolleri

SC15

On-Off Pneumatic Control

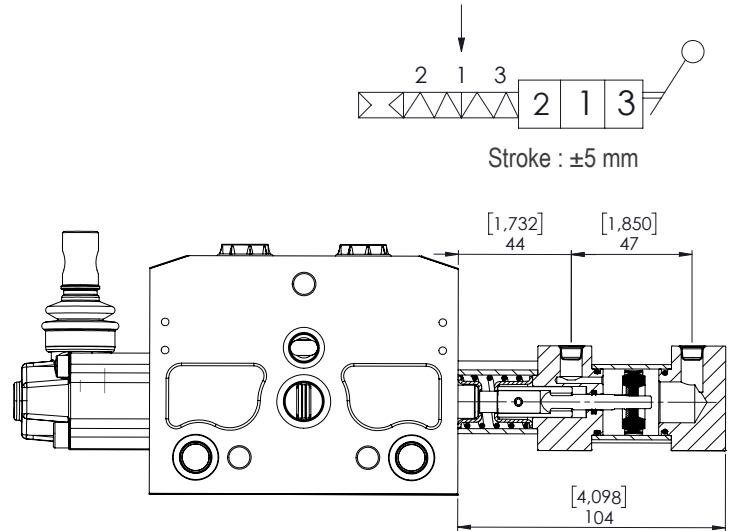
On-Off Pnömatik Kontrol

Pilot Pressure
Pilot Basıncı

Min. 6 Bar / 85 PSI
Max. 12 Bar / 170 PSI

Stroke (mm)
Strok (mm)

±5 mm



SC16

On-Off Hydraulic Control

On-Off Hidrolik Kontrol

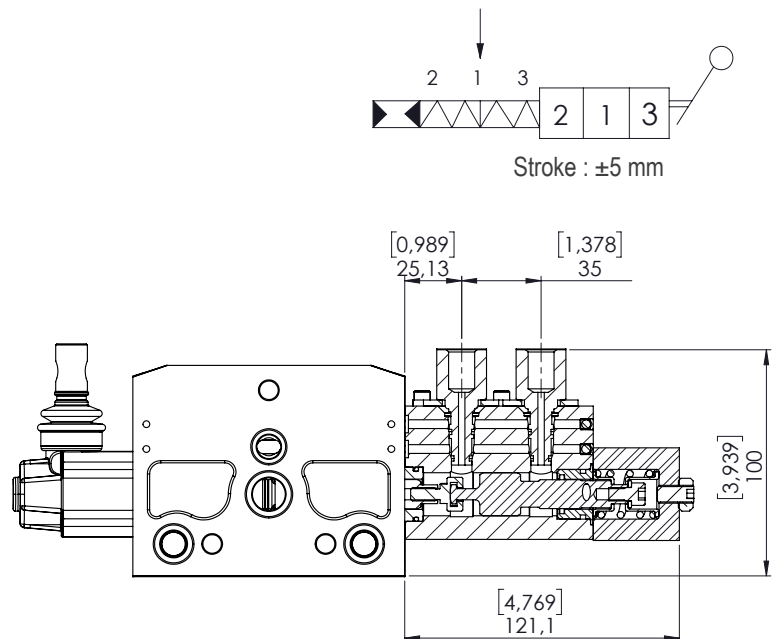
Operation Characteristics

Pilot Pressure
Pilot Basıncı

Min. 6 Bar / 85 PSI
Max. 50 Bar / 720 PSI

Stroke (mm)
Strok (mm)

±5 mm



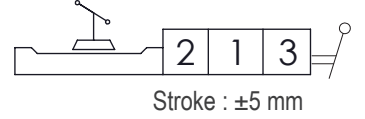
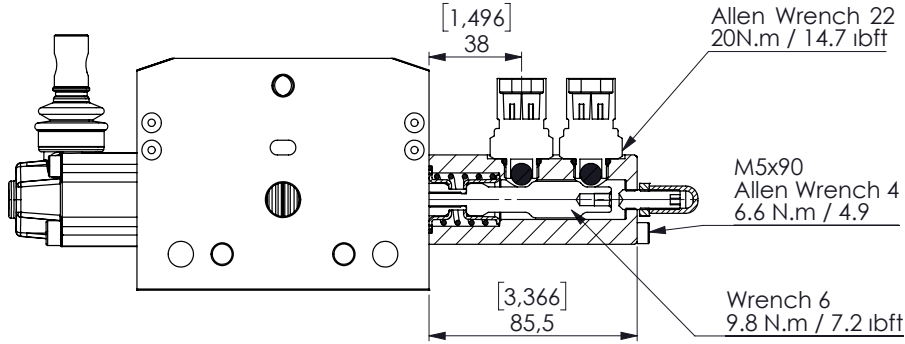
Spool Positioners

Sürgü Kontrolleri

SC18

3 Positions, Microswitch Operation in both positions (NC)

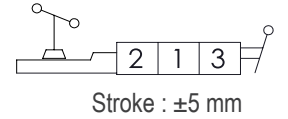
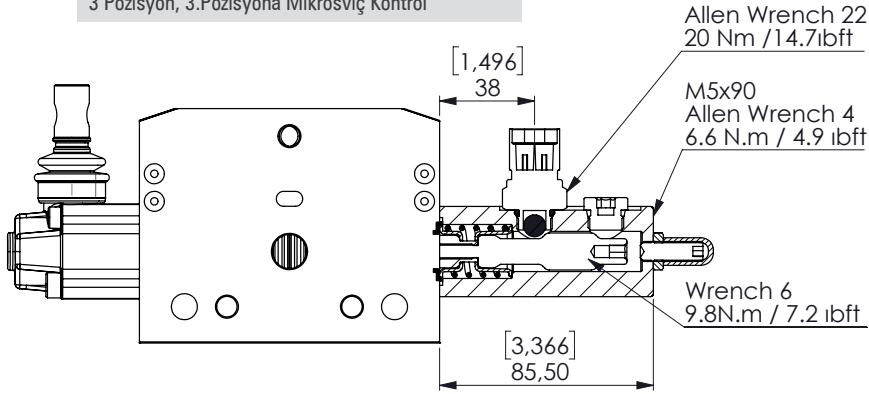
3 Pozisyon, Çift Taraflı Mikrosviç Kontrol (NK)



SC18A

3 Positions, Microswitch Operation in 3rd Position

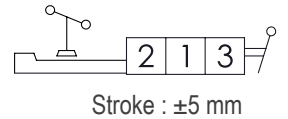
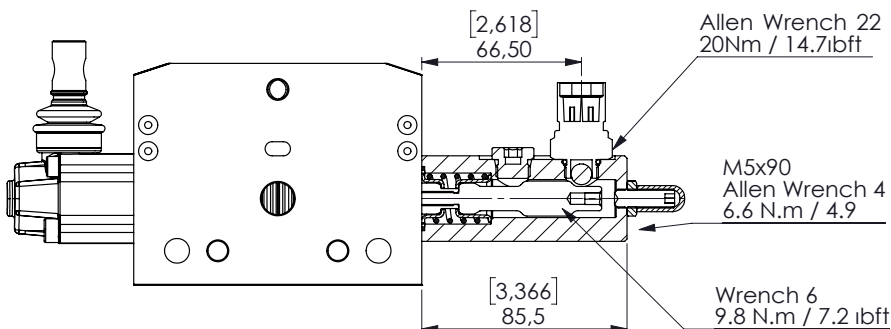
3 Pozisyon, 3.Pozisyona Mikrosviç Kontrol



SC18B

3 Positions, Microswitch Operation in 2nd Position

3 Pozisyon, 2.Pozisyona Mikrosviç Kontrol



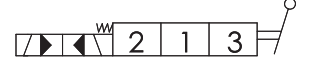
Spool Positioners

Sürgü Kontrolleri

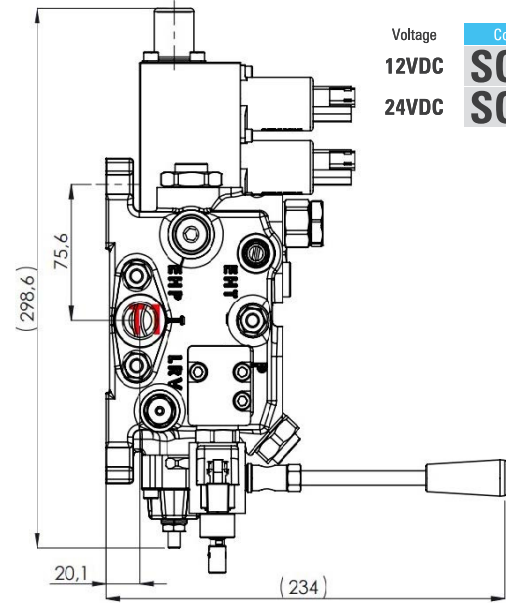
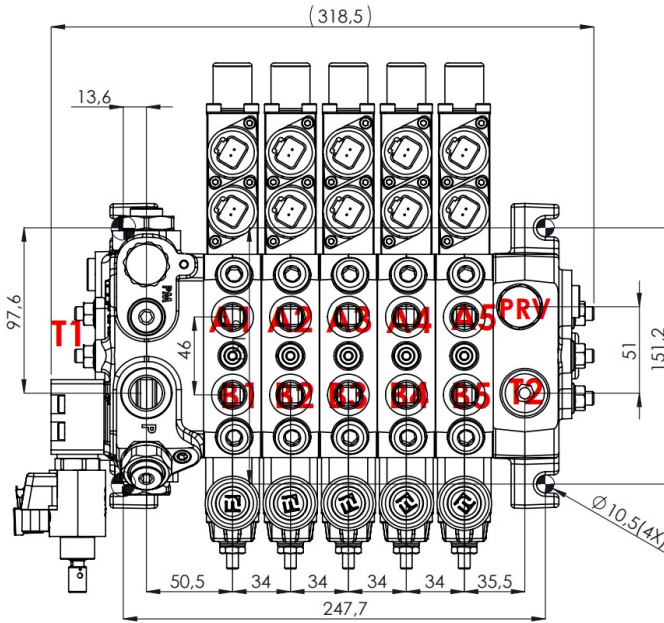
SC17

On-Off Electro-Hydraulic Control

On-Off Elektro-Hidrolik Kontrol



Stroke : ± 5 mm



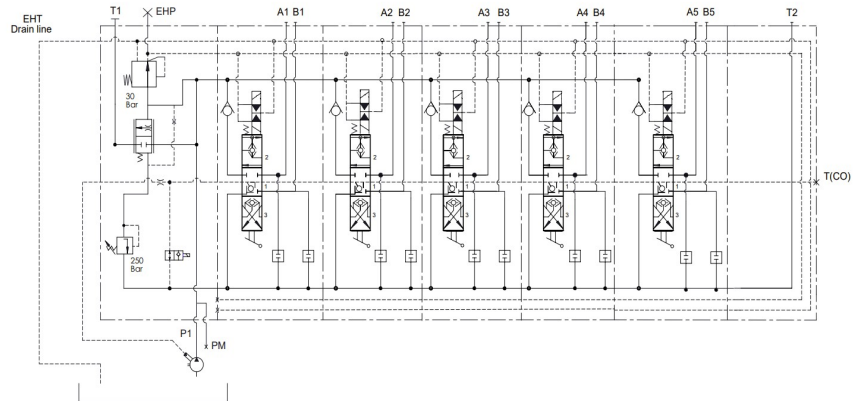
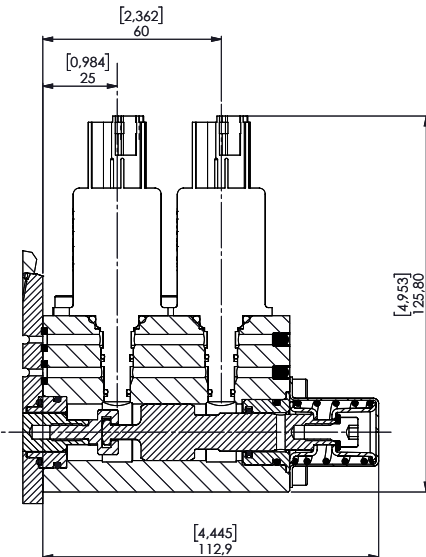
Voltage
12VDC
24VDC

Code / Kod
SC172
SC174

Working sections for electro-hydraulic actuators has special machining. *Elektro-hidrolik kontrollerde özel dilim kullanılmaktadır.*

Standard Connection and Hydraulic Circuit

Standart Bağlantı ve Hidrolik Devre



Spool Positioners

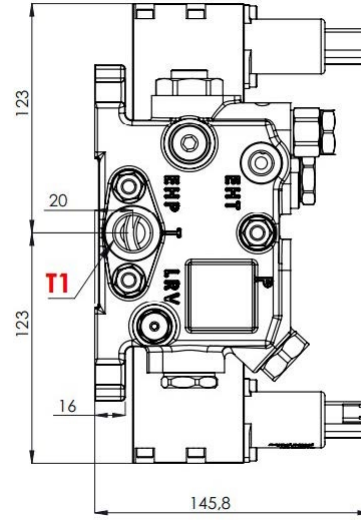
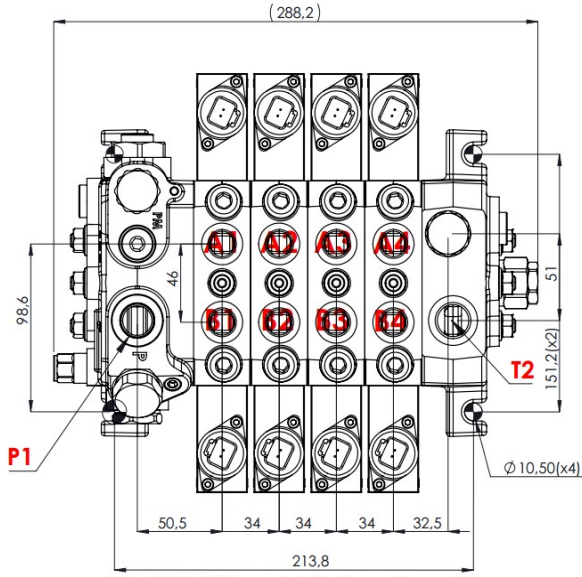
Sürgü Kontrolleri

SC38

On/Off Elektro-Hidrolik Kontrol

2 1 3

Stroke : ±5 mm

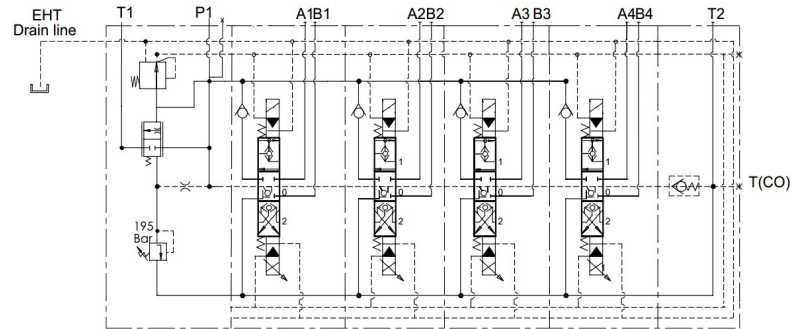
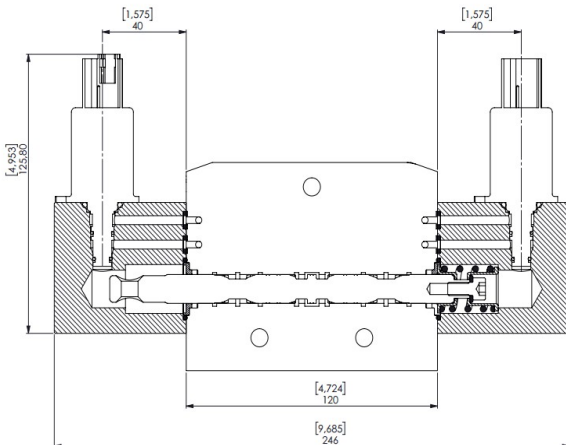


Voltage	Code / Kod
12VDC	SC382
24VDC	SC384

Working sections for electro-hydraulic actuators has special machining. *Elektro-hidrolik kontrollerde özel dilim kullanılmaktadır.*

Standard Connection and Hydraulic Circuit

Standart Bağlantı ve Hidrolik Devre



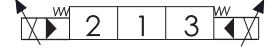
Spool Positioners

Sürgü Kontrolleri

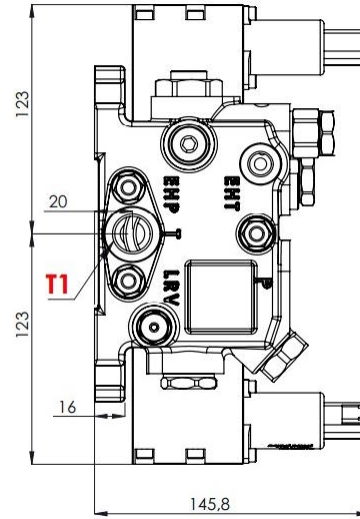
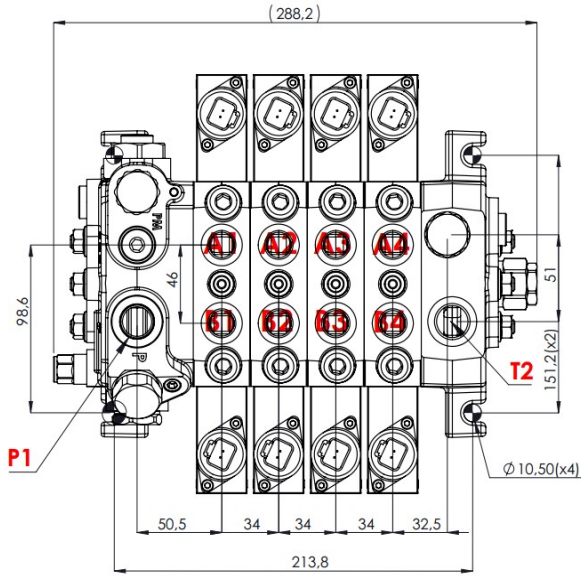
SC43

Proportional Electro-Hydraulic Control

Oransal Elektro-Hidrolik Kontrol



Stroke : ± 5 mm

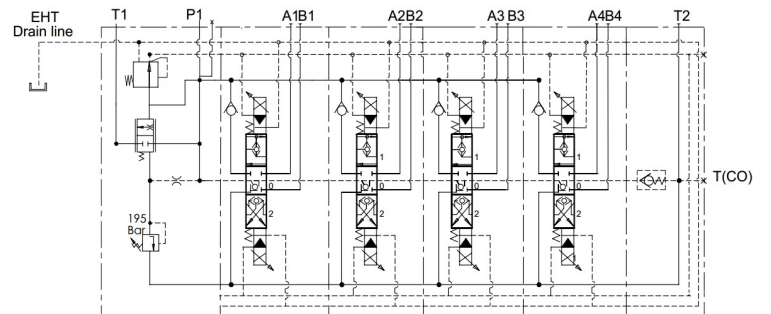
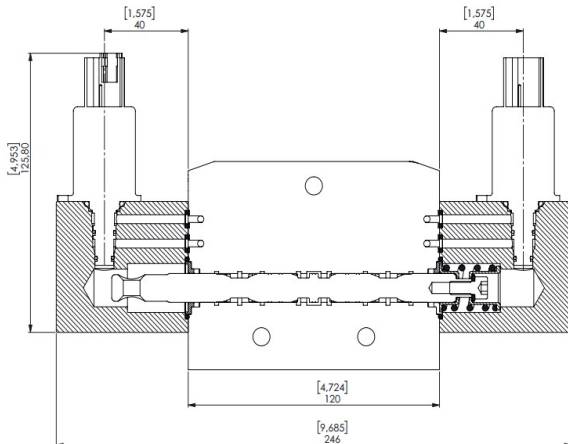


Voltage	Code / Kod
12VDC	SC432
24VDC	SC434

Working sections for electro-hydraulic actuators has special machining. *Elektro-hidrolik kontrollerde özel dilim kullanılmaktadır.*

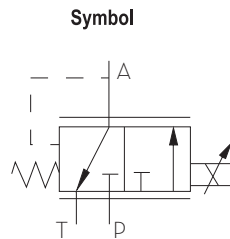
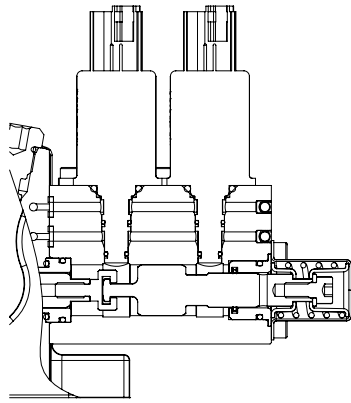
Standard Connection and Hydraulic Circuit

Standart Bağlantı ve Hidrolik Devre

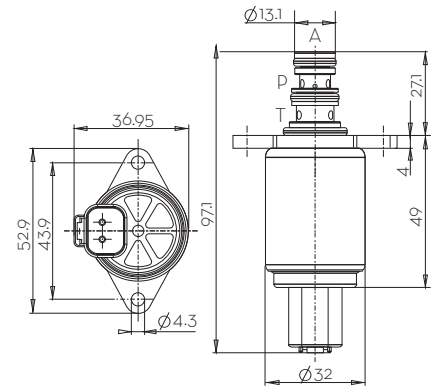


Coil Characteristics

Bobin Özellikleri



Dimensions with Deutsch Connector
(All dimensions in mm)



Hydraulic Data

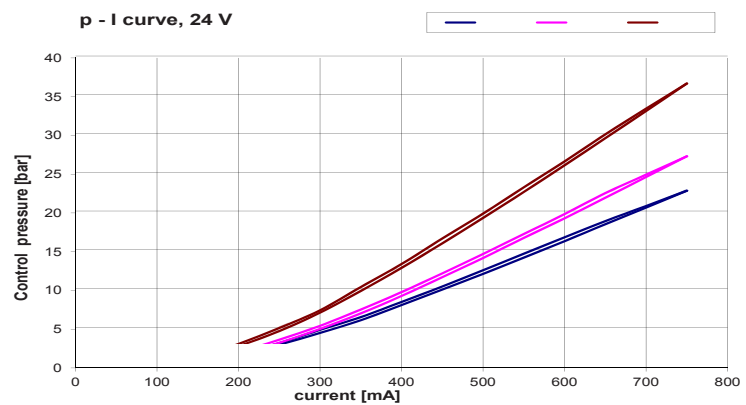
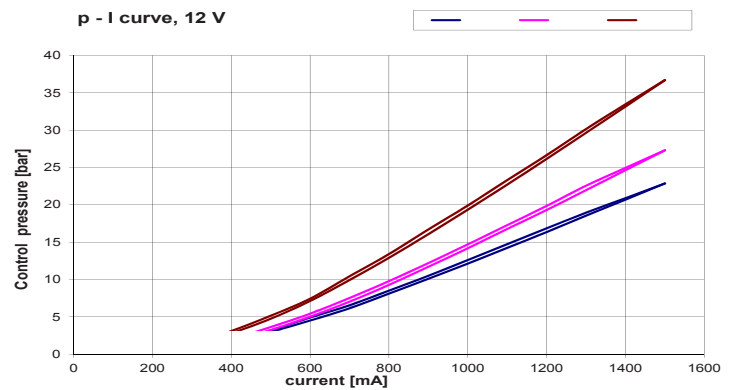
Max Pressure (P, T)	pP = 50 bar, pT = 30 bar
Hysteresis (w/ PWM)	< 0.4 bar (pA=20) < 0.5 bar (pA=25) < 0.7 bar (pA=32)
Filter Screen	125 μ m
Contamination Level	Min Filtration: 20/18/15 According to ISO 4406
Fluid	Mineral Oil According to DIN 51524
Temperature Range Fluid	-40 to +105°C

Electrical Data

Norm. Voltage	12 V	24 V
Current	1500 mA	750 mA
Resistance	5.3 $\Omega \pm 5\%$	21.2 $\Omega \pm 5\%$
Type of Control	Current Control PWM 100 Hz Recommended	
Connector	AMP Junior Timer Deutsch Connector DT04-2P	
Protection Class	Up to IP6K6 / IPX9K	

Current vs. Pressure

Less than 2% Hysterisis



Spool Options

Sürgü Tipleri

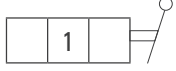
CNC S51 - ILSL - 014(180) - F - B01 / A SC1 **ST23(40)** V13 K1 / B - H

Flow Rate *Debi*
Spool Options
Sürgü Tipleri

Spool Positions *Sürgü Pozisyonları*

1st Position
1. Pozisyon

Spool Neutral Position
Nötr



2nd Position
2. Pozisyon

Spool In Position
Mil İçerde



B -> T
P -> A

3rd Position
3. Pozisyon

Spool Out Position
Mil Dışarda



A -> T
P -> B

4th Position
4. Pozisyon

4th Pos. Spool Out
4. Pozisyon Mil Dışarda



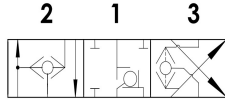
4th Pos. Spool In
4. Pozisyon Mil İçerde



ST23

3 Position, Double Acting Spool,
A&B Closed in Neutral

3 Pozisyon, Kapalı Merkez



Flow Requirements

Farklı Debilere Özel Sürgüler

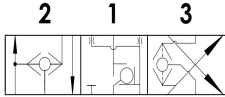
Choice of spool is important to meet the requirements of the application in terms of control ability and performance. LS50 has many spool options regarding the function and flow requirements. Spool options are highly customizable. Please contact our Sales Department for special demands.

Uygulama ve debiye özel sürgüler kontrol yeteneği ve yüksek performans için büyük önem taşır. Farklı debi opsiyonları ve özel talepleriniz için Satış Departmanımızla bağlantıya geçiniz.

ST23D

3 Position, Double Acting Spool,
A&B Partially Open to Tank in Neutral

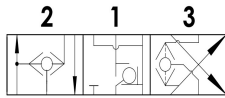
3 Pozisyon, A&B Tanka Kısıklı Açık



ST23FO

3 Position, Double Acting Spool,
A&B Open to Tank in Neutral

3 Pozisyon, A&B Tanka Açık



Flow Rate Options

Sürgüler için Debi Çeşitleri

5 l/min	1,3 US gpm
10 l/min	2,6 US gpm
15 l/min	4,0 US gpm
20 l/min	5,2 US gpm
30 l/min	7,9 US gpm
40 l/min	10,5 US gpm
60 l/min	15,8 US gpm

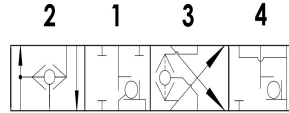
Please indicate the demanded flow rate of the spool on the coding after the type of spool. Unless otherwise specified 40 l/min (10,5 US gpm) spool is the standard spool.

Sürgü tipi kodlamasını takiben talep edilen sürgü debisinin belirtilmesi gerekmektedir. Sürgü debisi belirtilmediği durumda 40 l/dk sürgü standart sürgü olarak kullanılır.

ST23FF

4 Position, Double Acting,
Float on 4th Position

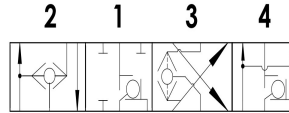
4 Pozisyon, 4. Pozisyonunda Float



ST23RG

4 Position, Double Acting,
Regenerative on 4th Position

4 Pozisyon, 4. Pozisyonunda Rejeneratif



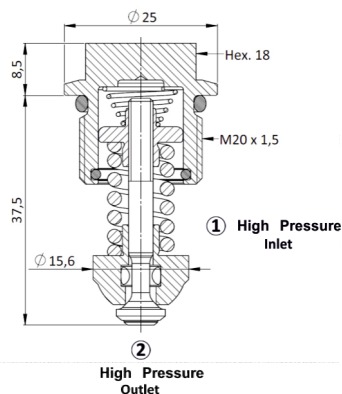
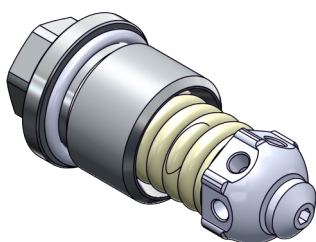
Auxiliary Valves

Yardımcı Valfler

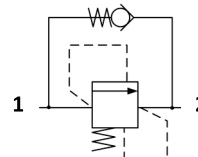
CNC S51 - ILSL - 014(180) - F - B01 / A SC1 ST23(40) **V13** K1 / B - H

Auxiliary Valves
Yardımcı Valfler

Antishock & Anticavitation Valve



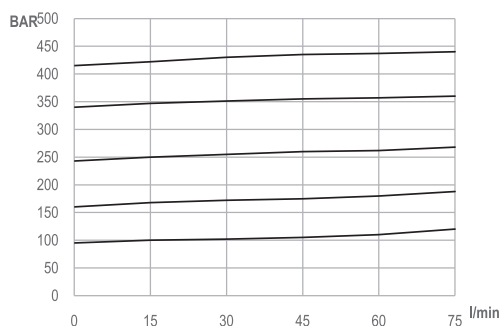
Symbol



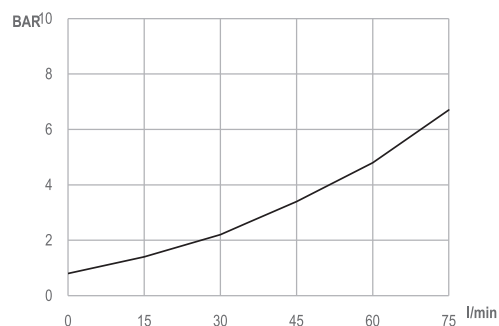
Weight

0,05 kgs / 0,11 lbs

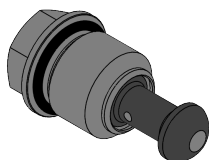
Relief Valve Function



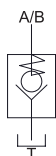
Anticavitation Function



Anticavitation Valve



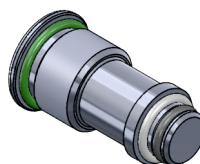
Symbol



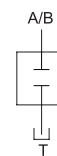
Weight

0,05 kgs / 0,11 lbs

Shock Valve Cavity Plug



Symbol



Weight

0,04 kgs / 0,08 lbs

Auxiliary Valves Coding

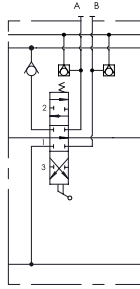
Yardımcı Valfler Kodlama

CNC S51 - ILSL - 014(180) - F - B01 / A SC1 ST23(40) **V13** 1 / B - H

Auxiliary Valves
Yardımcı Valfler

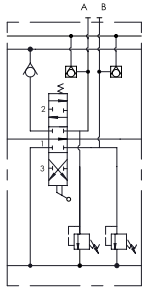
V4

Anticavitation valves on A & B ports
A & B portlarında antikavitasyon valfi



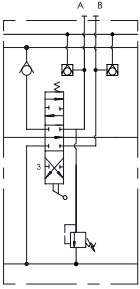
V7

Antishock & anticavitation valves on A & B ports
A & B portlarında antişok & antikavitasyon valfi



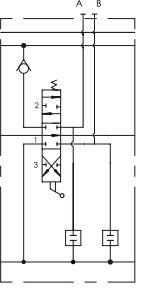
V12

Antishock & anticavitation valve on port A & anticavitation valve on port B
A portunda antişok & antikavitasyon valfi & B portunda antikavitasyon valfi



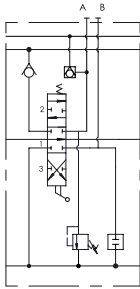
V13

Port relief cavity plug on A & B ports
A & B portlarında kör tapa



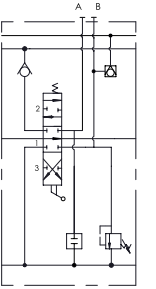
V19

Antishock & anticavitation valve on port A & port relief cavity plug on port B
A portunda antişok & antikavitasyon valfi & B portunda kör tapa



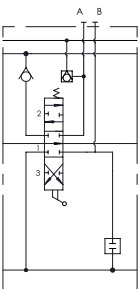
V20

Port relief cavity plug on port A & antishock & anticavitation valve on port B
A portunda kör tapa & B portunda antişok & antikavitasyon valfi



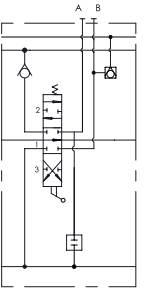
V21

Anticavitation valve on port A & port relief cavity plug on port B
A portunda antikavitasyon valfi & B portunda kör tapa



V22

Port relief cavity plug on port A & anticavitation valve on port B
A portunda kör tapa & B portunda antikavitasyon valfi



Lever Types

Sap Tipleri

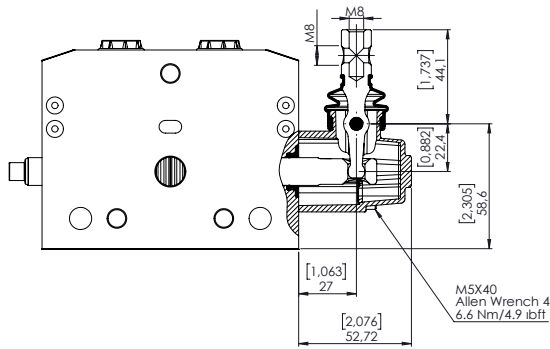
CNC S51 - ILSL - 014(180) - F - B01 / A SC1 ST23(40) V13 **K1** / B - H

Lever Types
Sap Tipleri

NO
CODE

Standard Lever Kit
Standart Sap Kapağı

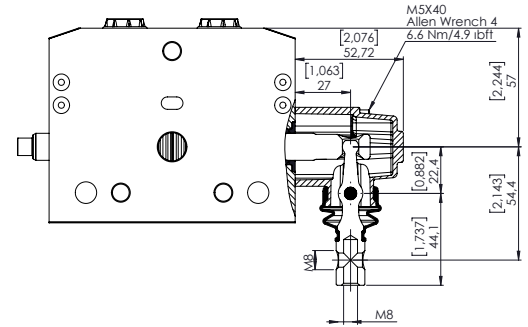
2 1 3



K1

Reverse Lever Kit
Ters montaj Sap Kapağı

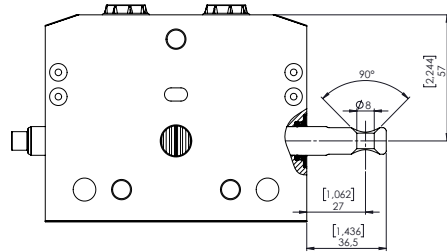
2 1 3



K2

No Lever
Sap Kapaksız

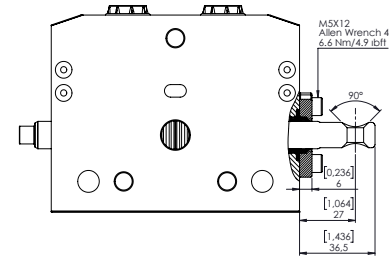
2 1 3



K3

Dust Proof Plate Kit
Toz Kapaklı

2 1 3



K4

Safety Lever
Güvenlik Kolu

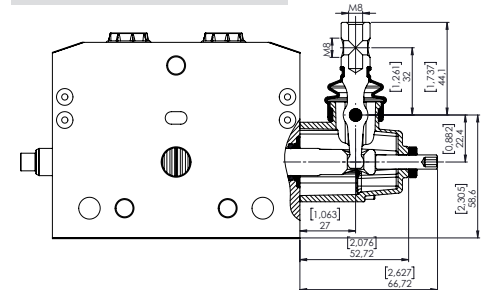
2 1 3

PLEASE
CONTACT TO
SALES
DEPARTMENT

K5

Lever Cap with Spool Limiter
Sürgü Strok Kısıtlayıcı

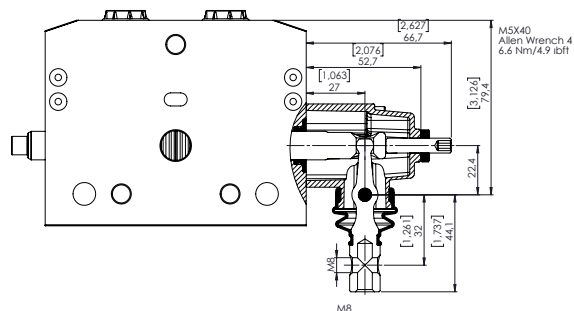
2 1 3



K6

Rev. Lever Cap with Spool Limiter
Ters Montaj Sürgü Strok Kısıtlayıcı

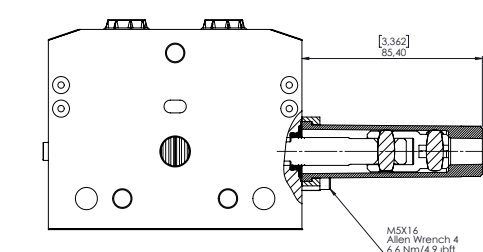
2 1 3



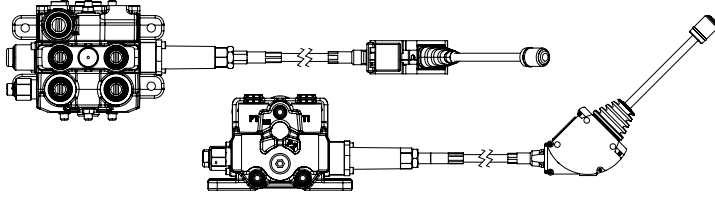
KT

Cable Connection Kit
Kablo Bağlantı Kiti

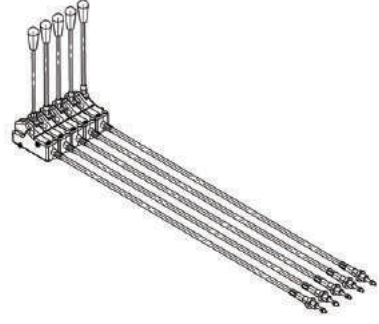
2 1 3



Lever Cable Remote Control *Halat Kontrol*



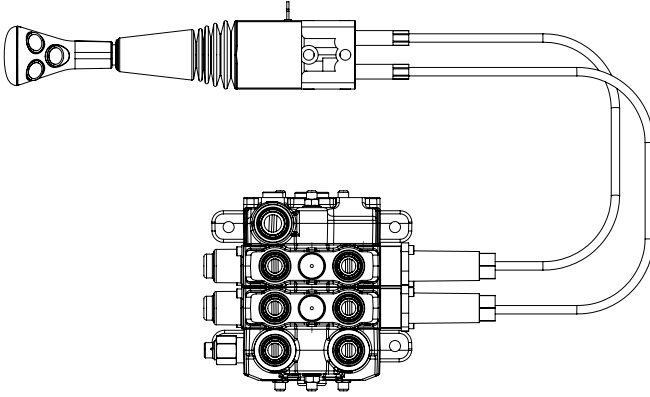
Cable remote control for Group of Levers *Halat Kontrol Grubu*



Lever cable remote control and cable remote control for group of levers are a modular system offering unlimited number of levers together through screws, also with many different configurations and cables lengths. Assembled on the valve only on request and extra charge. Please contact our sales department for details.

Halat kontrol ve halat kontrol grubu için farklı uzunlukları mevcuttur. Halat Kontrol grubu ise talebe göre çeşitli dilim sayıları için ve çeşitli uzunluklarda temin edilir. Kontrol grubu birbirine saplaamlarla bağlanmaktadır. Lütfen detaylı bilgi için satış departmanımızla bağlantıya geçiniz.

Remote Joystick Control *Joystik Halat Kontrol*



Remote joystick control is available with several options. Please indicate the cable length demanded and contact our sales department for further demands.

Joystik halat kontrol farklı çeşit ve uzunluklarda mevcuttur. Lütfen satış departmanımızla bağlantıya geçiniz.

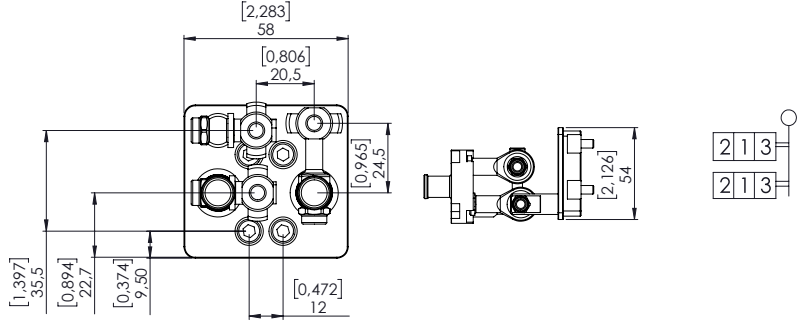
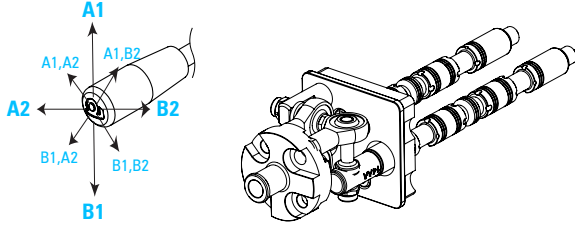
Joystick Control

Joystik Kontrol

K7

Manual Joystick with pivot on top left

Manuel Joystik Kontrol (Pivot Sol Üst)

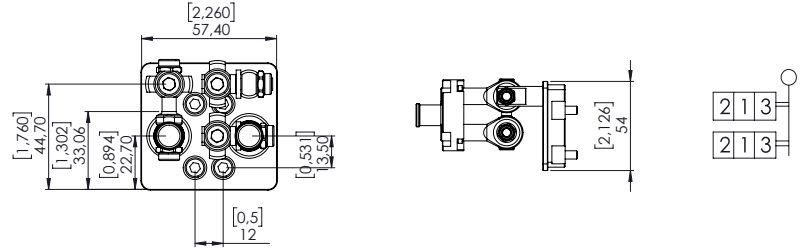
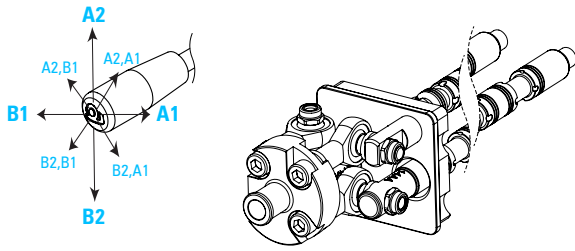


K7 is standard configuration unless otherwise specified.
Aksi belirtilmedikçe K7 standart konfigürasyondur.

K7B

Manual Joystick with pivot on top right

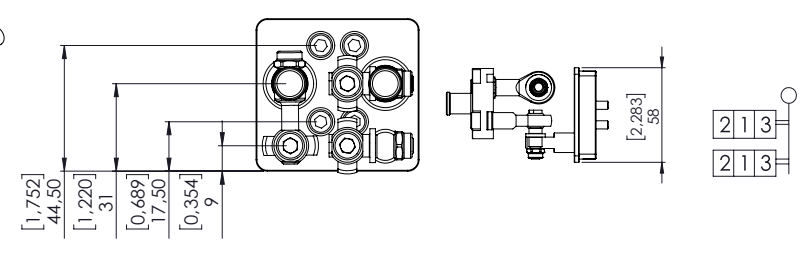
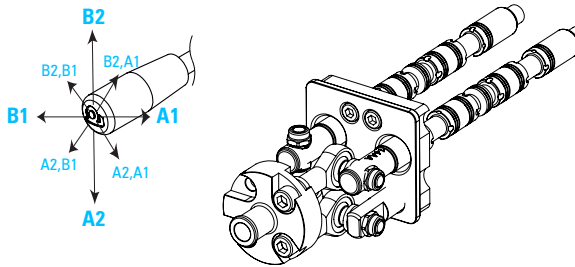
Manuel Joystik Kontrol (Pivot Sağ Üst)



K7C

Manual Joystick with pivot on bottom right

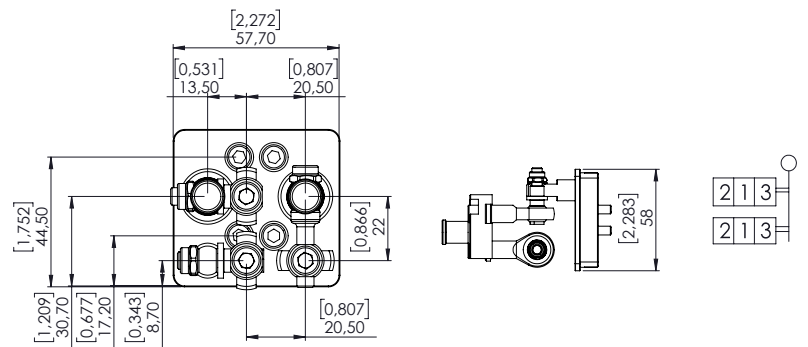
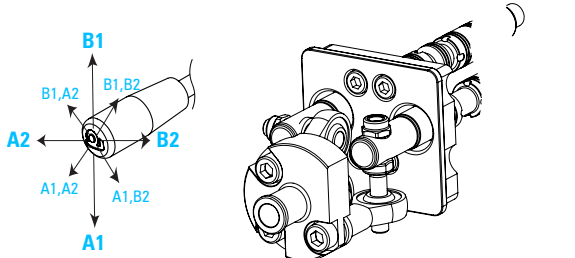
Manuel Joystik Kontrol (Pivot Sağ Alt)



K7D

Manual Joystick with pivot on bottom left

Manuel Joystik Kontrol (Pivot Sol Alt)



Outlet Options

Tank (T) Hattı Opsiyonları

CNC S51 - ILSL - 014(180) - F - B01 / A SC1 ST23(40) V13 K1 **B - H**

Outlet Options
Tank (T) Hattı Opsiyonları

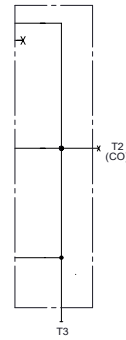
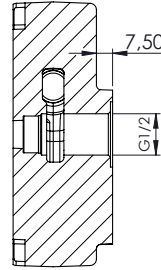
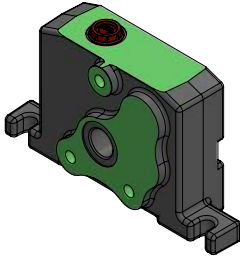
Standard Open Center Upper Outlet (T3 open, T2 plugged)

Standart Açık Merkez (T3 açık, T2 kör)

Demanded port thread of the outlet section need to be coded here.

Tank hattı için talep edilen port ölçüsü burada kodlanmalıdır.

Ex; S51-ILSL-014(180)-F-B01/ASC1ST23V13K1/B-H



Port Thread
G 1/2"

Order Code
B

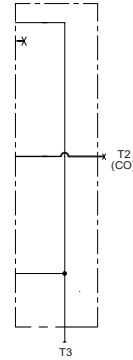
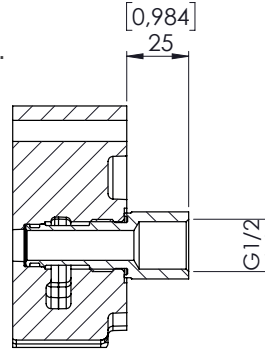
Please contact our sales department for other outlet options.
Özel talepleriniz için lütfen Satış Departmanımızla bağlantıya geçin.

Outlet with Carry-Over

Carry-Over

When Carry-Over is used for series connection with another valve, T3 or T1 of the first valve must be connected to the tank.

Carry-over kullanıldığında, 1.valfin tank hattı (T3 veya T1) mutlaka tanka bağlanmalıdır.

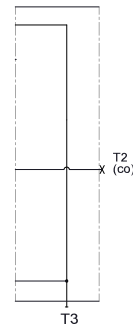
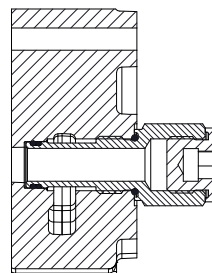
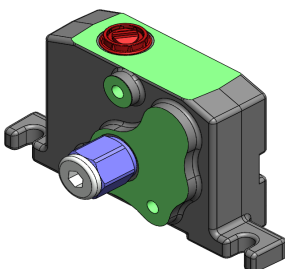


Port Thread
G 1/2"

Order Code
B-H

Outlet with Closed Center Plug

Kapalı Merkez



Port Thread
G 1/2"

Order Code
B-K