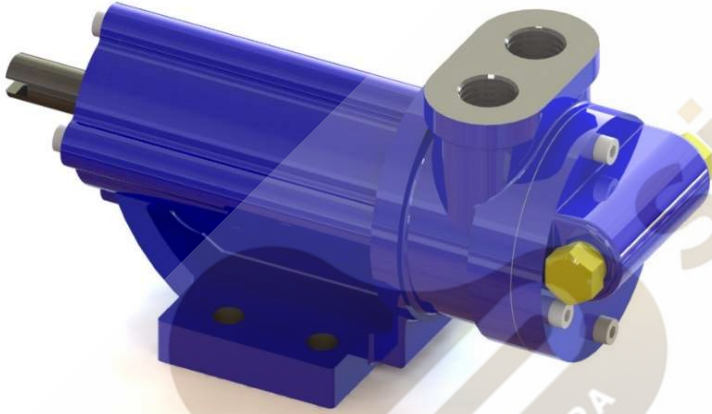
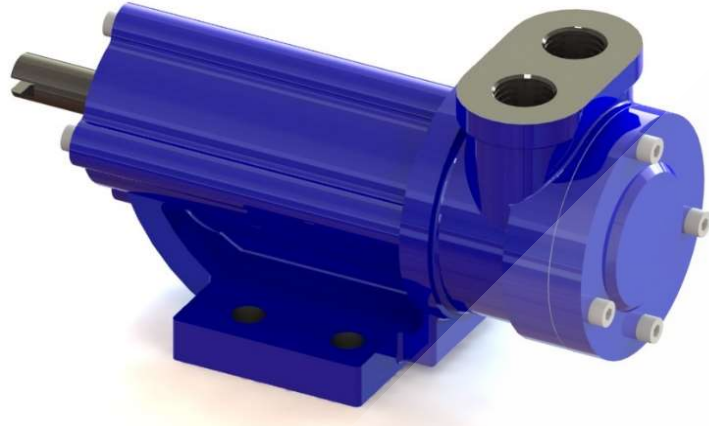


SPMK 3/8 V TİPİ İÇTEN EKŞANTRİK DİŞLİ POMPA

SPMK 3/8 V TYPE INTERNAL GEAR PUMP



SPMK 3/8 V	
Giriş/Çıkış / Port Size	3/8"
Kapasite / Capacity	6 m ³ /h
Max.Basınç / Max. Pressure	0,35 Bar
RPM	1450 devir/dak
Max. Sıcaklık / T_{max}	370 C°
Viskozite / Viscosity	38 ~ 2.000.000 SSU

SPMK 3/8 V TİPİ İÇTEN EKSANTRİK DİŞLİ POMPA

SPMK 3/8 V TYPE INTERNAL GEAR PUMP

1.1.Kullanım Alanları – Applications

Yaygın İçten Eksantrik Dişli Pompa Uygulamaları Ancak Bunlarla Sınırlı Değildir.

Common Internal Gear Pump Applications Include, But are Not Limited

Her Türlü Fuel Oil ve Madeni Yağ
Reçine ve Polimerler
Asfalt, Bitüm ve Katran
Kâğıt ve Boya Sanayinde; Boya, Mürekkepler ve Pigmentler
Gıda Sanayinde; Glikoz, Çikolata ve Fıstık Ezmesi gibi Gıda Ürünleri
İlaç, Kimya ve Deterjan Sanayinde
Alkoller ve Solventler
Melas
Küçük Çapta Kızgın Yağ Sirkülasyonlarında

All varieties of Fuel Oil and Lube Oil
Resins and Polymers
Asphalt, Bitumen and Tar
In Paper and Paint Industry; Paint, Inks and Pigments
Food Products Such as Corn Syrup, Chocolate, and Peanut Butter
In Pharmaceutical, Chemical and Detergent Industry
Alcohols and Solvents
Molasses
In Small-Scale Hot Oil Circulations

1.2.Malzeme Seçenekleri – Materials of Construction

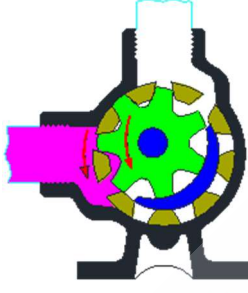
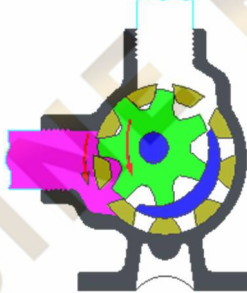
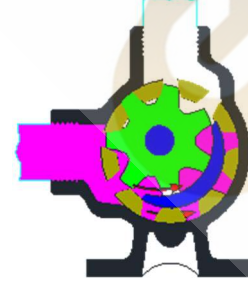
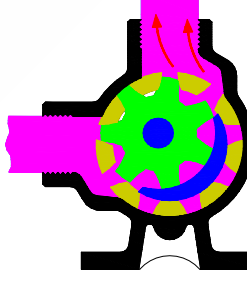
<i>Pompa Gövdesi, Kapaklar</i>	<i>Dişliler</i>	<i>Yataklar</i>	<i>Sızdırmazlık</i>
Dökme (pik) demir Sfero döküm Çelik döküm Paslanmaz AISI 304-316 döküm	Sfero döküm Çelik döküm Paslanmaz AISI 304-316 döküm	Sngbz-12 Karbon Grafit Silisyum Karbür Sert Metal Kaplama Rulman	Yumuşak Salmastra Mekanik Salmastra Keçeli Sistem Rotatherm Salmastra Kartex Mekanik Salmastra
<i>Pump Head, Casing and Bracket</i>	<i>Rotor and Idler</i>	<i>Bushing</i>	<i>Shaft Seal-Packing</i>
Ductile Iron GG-25 Ductile Iron GGG-40 Steel Stainless Steel AISI 304-316	Ductile Iron GGG-40 Steel Stainless Steel AISI 304-316	Sngbz-12 Bronze Carbon Graphite Silicon Carbide Hard Metal Coated Steel Bearing	Packing Mechanical Seal Lip Seal Rotatherm Seal Cartridge Type Mechanical Seal

SPMK 3/8 V TYPE INTERNAL GEAR PUMP

2.ÇALIŞMA PRENSİBİ-OPERATION PRINCIPLE

İçten eksantrik dişli pompalar pozitif deplasmanlı olup, iki adet hareketli parçadan oluşur. Pompa miline bağlı çevre dişlisi dönerken, avare dişlisine de hareket iletir ve avare dişlisi de döner. Bu dönme esnasında avare dişlisi ile çevre dişlisi hilal vasıtası ile birbirinden ayrılır ve vakum oluşur. Oluşan vakum sayesinde pompa belli bir miktarda sıvıyı içine çeker. Pompanın içine çekilen sıvı diş boşluklarında basma ağzına doğru hareket eder. Basma ağzında avare dişli ve çevre dişlisi iç içe girerek basınç oluşturur ve sıvının dışarı atılmasını sağlar. Pompa; pompa milinin her bir dönüşünde, hacmi kadar sıvıyı transfer eder. Dolayısı ile pompanın kapasitesi büyüklüğü ve devri ile doğru orantılıdır. İçten eksantrik dişli pompaların çalışma prensibi aşağıda şematik olarak gösterilmektedir.

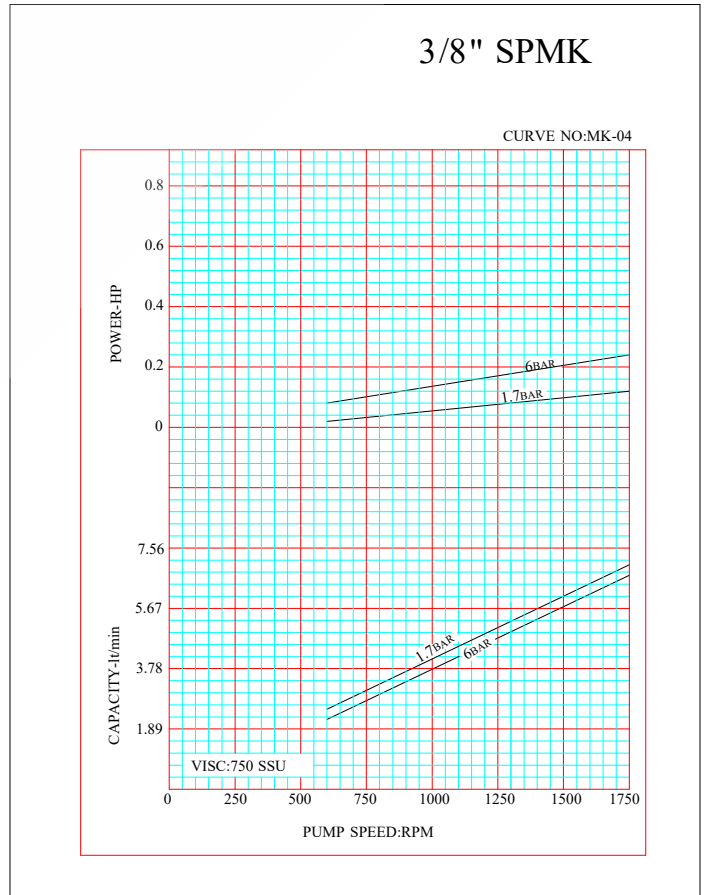
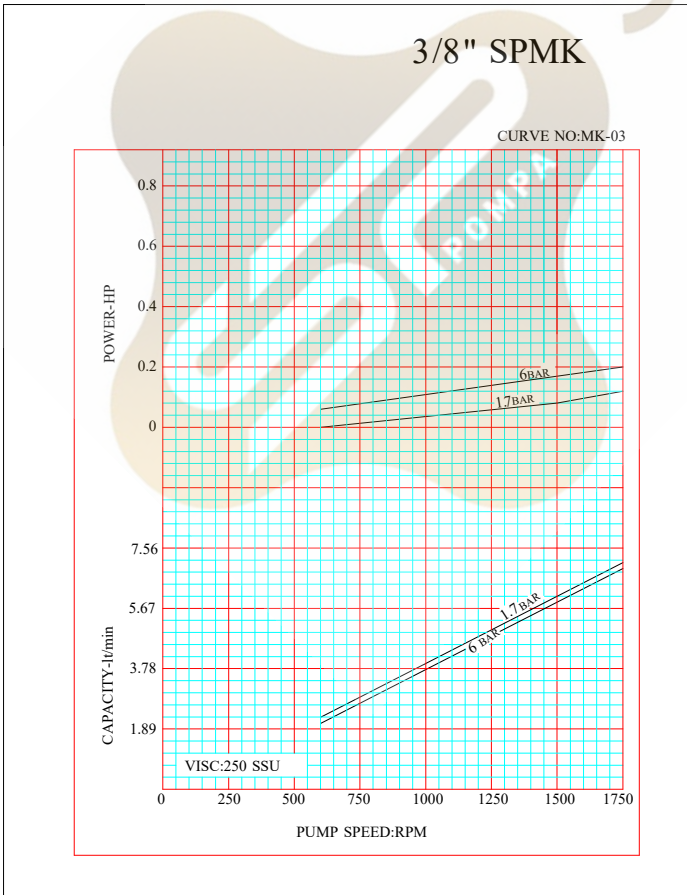
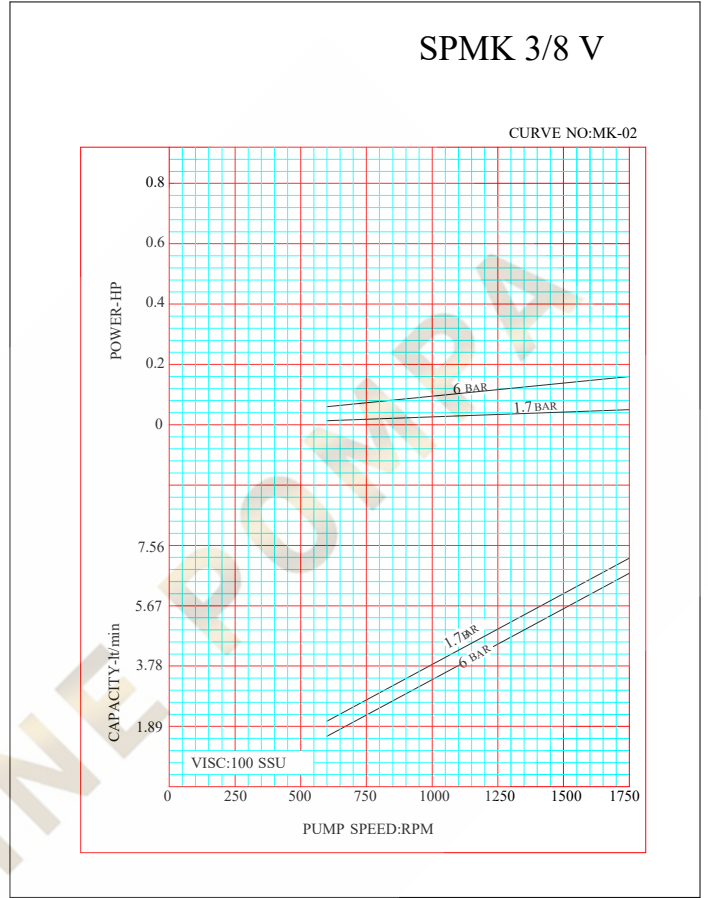
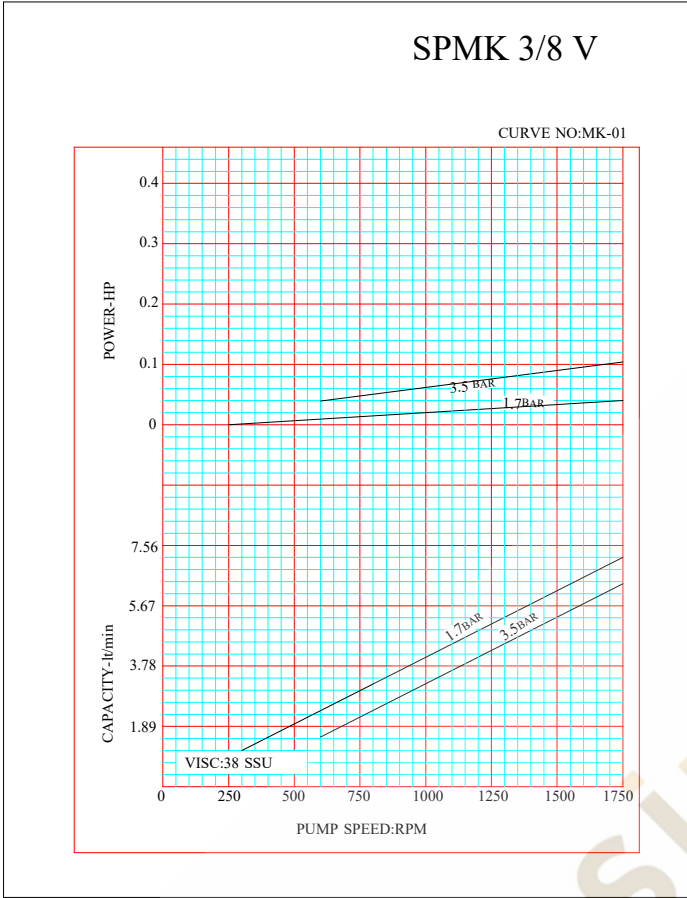
Internal gear pumps have positive displacements and consist of two moveable parts. When the ring gear which is coupled to pump shaft turns, it shall transmit the motion to the idler gear and the idler gear rotates. During this rotation period, idler gear and ring gear diverge each other by crescent and vacuum occurs. Pump sucks the constant amount of liquid by the virtue of vacuum. Therefore, this sucked fluid flows from gear teeth clearances to the delivery outlet. Idler gear and ring gear meshes each other at delivery mouth and generates pressure and provides to discharge the liquid outside. Pump transfers the liquid as much as its volume by every rotation of pump shaft. Henceforth capacity of pump is directly proportional to its size and revolution. Operating principle of internal eccentric gear pumps are shown herein below by figures.

 <p>1- Çevre dişli (rotor), motordan aldığı dairesel hareketle ok yönünde dönerken, iç avare dişli (yıldız), dönerek çevre dişliden ayrılır. Dişlilerin ayrılması ile çartaya çıkan boşluğa sıvı dolar.</p> <p>1- While ring gear (rotor) rotates in the direction of arrow by rotational motion taken from the motor, internal idler gear (star) diverges from the ring gear by rotation. The liquids fills in the empty space occurred by separation of the gears.</p>	 <p>2- Pompa kapağında bulunan yarım ay (hilal) ile dişliler birbirinden ayrılır ve dişli boşluklarıyla sıvı taşınır.</p> <p>2- Crescent which is placed at pump cover and gears diverges from each other and the liquid is carried through gear clearances.</p>
 <p>3- Çevre dişlisi ve avare dişlisi iç içe girerken sıvı basma kanalına atılır.</p> <p>3- While ring gear and idler gear meshes each other, the liquid is discharged to delivery channel.</p>	 <p>4- Basma kanalına atılan sıvı, tesisattan ilerler ve transfer işlemi gerçekleşmiş olur.</p> <p>4- The liquid discharged to the delivery channel moves through the installation and the transfer process becomes realized.</p>

SPMK 3/8 V TIPI İÇTEN EKSANTRİK DİŞLİ POMPA

SPMK 3/8 V TYPE INTERNAL GEAR PUMP

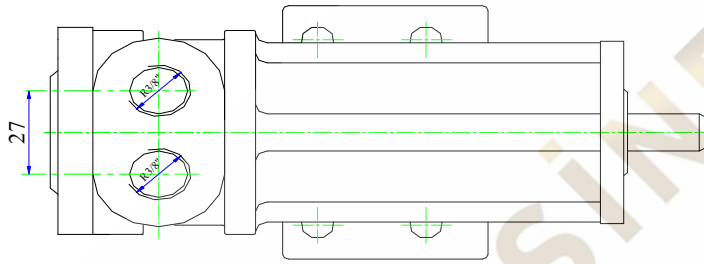
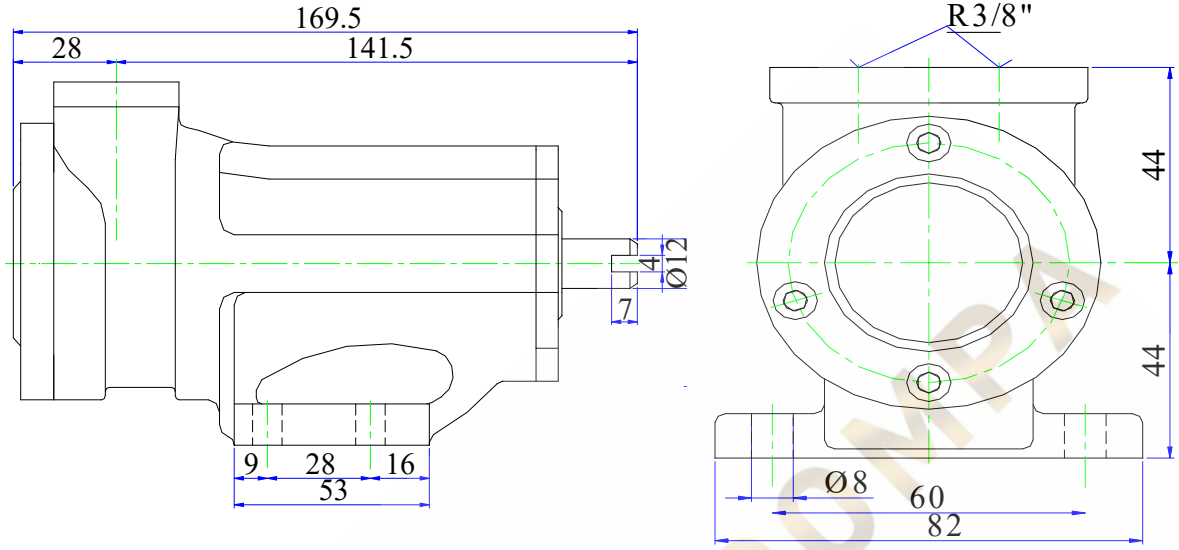
3.POMPAYA AİT KAPASİTE EĞRİLERİ-CAPACITY GRAPHS



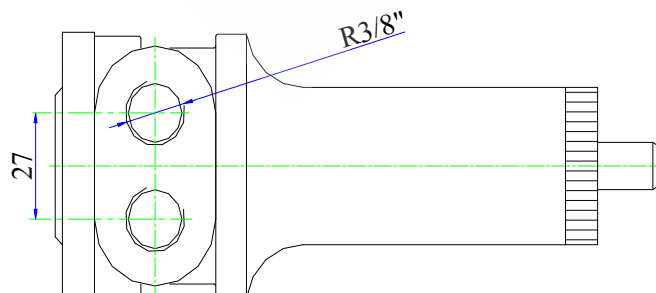
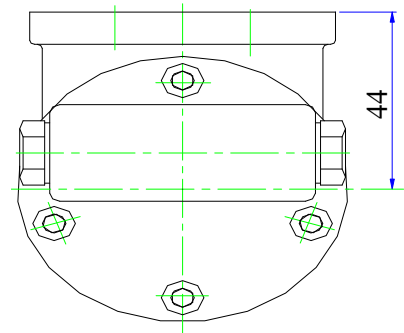
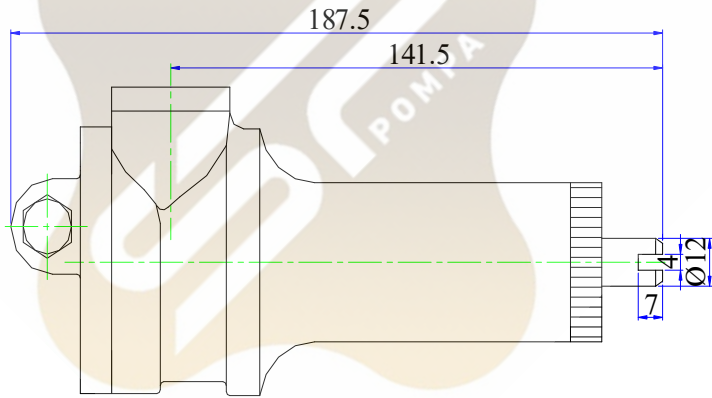
SPMK 3/8 V TIPI İÇTEN EKSANTRİK DİŞLİ POMPA

SPMK 3/8 V TYPE INTERNAL GEAR PUMP

4.BOYUT ÖLÇÜLER-PUMPDIMENSIONS



PUMP TYPE	MK
PORT SIZE	3/8"
MAX. PRESSURE	6 BAR
LITER/CYCLE	0,004
CAPACITY	0,35
RPM	1450

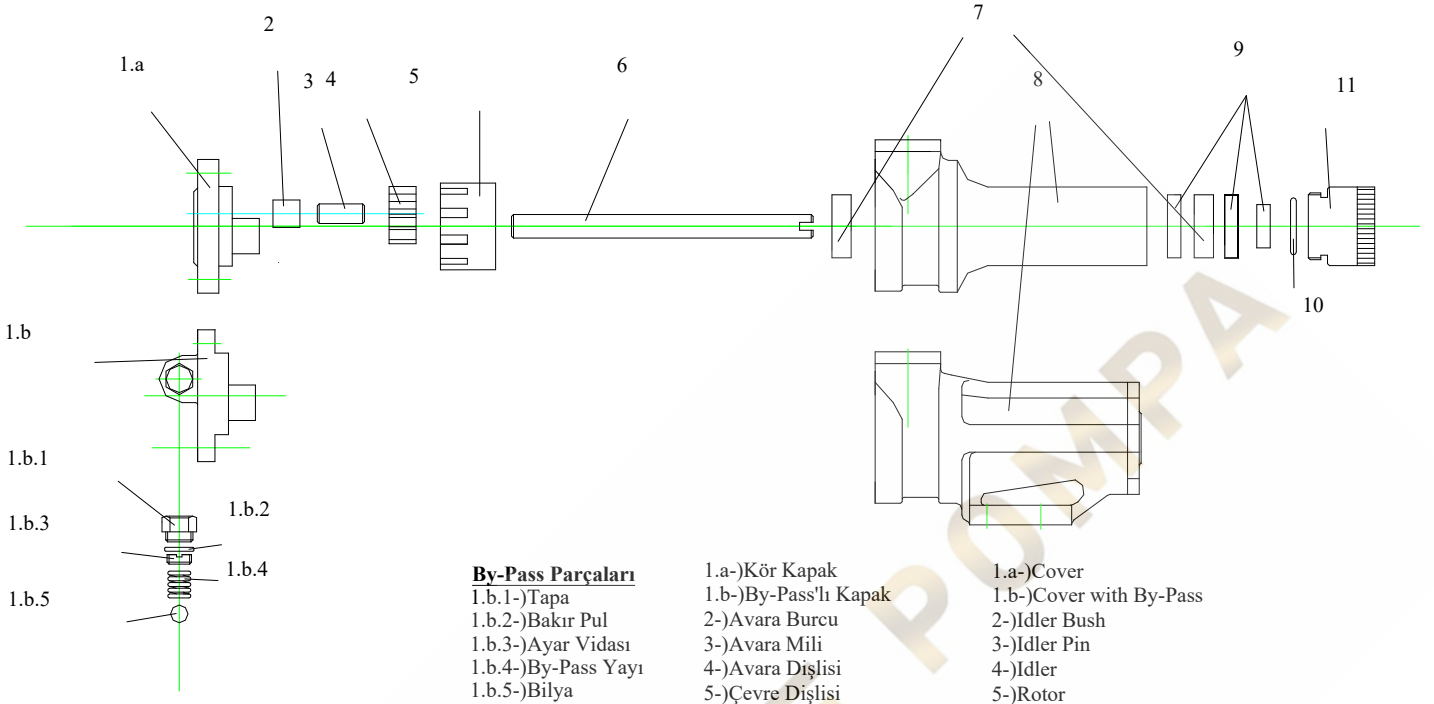


PUMP TYPE	M
PORT SIZE	3/8"
MAX. PRESSURE	6 BAR
LITER/CYCLE	0,004
CAPACITY	0,35
RPM	1450

SPMK 3/8 V TİPİ İÇTEN EKSANTRİK DİŞLİ POMPA

SPMK 3/8 V TYPE INTERNAL GEAR PUMP

5.YEDEK PARÇA LİSTESİ-SPARE PARTS LIST



By-Pass Parçaları

- 1.b.1-)Tapa
- 1.b.2-)Bakır Pul
- 1.b.3-)Ayar Vidası
- 1.b.4-)By-Pass Yay
- 1.b.5-)Bilya

Parts of By-Pass

- 1.b.1-)Plug
- 1.b.2-)Copper Gasket
- 1.b.3-)Adjusting Screw
- 1.b.4-)By-Pass Compressor
- 1.b.5-)Ball

- 1.a-)Kör Kapak
- 1.b-)By-Pass'lı Kapak
- 2-)Avara Burcu
- 3-)Avara Mili
- 4-)Avara Dişlisi
- 5-)Çevre Dişlisi
- 6-)Çevre Dişli Mili
- 7-)Rulman
- 8-)Gövde (Ayaklı- Ayaksız)
- 9-)Yağ keçesi
- 10-)O-Ring
- 11-)Rulman Kapağı

- 1.a-)Cover
- 1.b-)Cover with By-Pass
- 2-)Idler Bush
- 3-)Idler Pin
- 4-)Idler
- 5-)Rotor
- 6-)Shaft
- 7-)Bearing
- 8-)Body with Feet or without Feet
- 9-)Oil Seal
- 10-)O-Ring
- 11-)Cover