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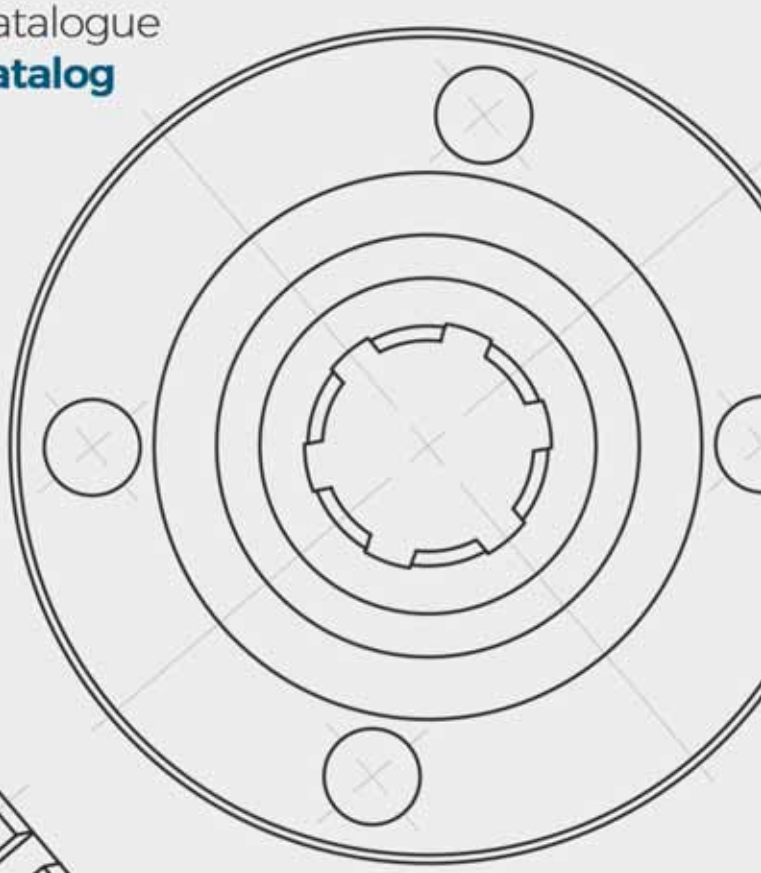

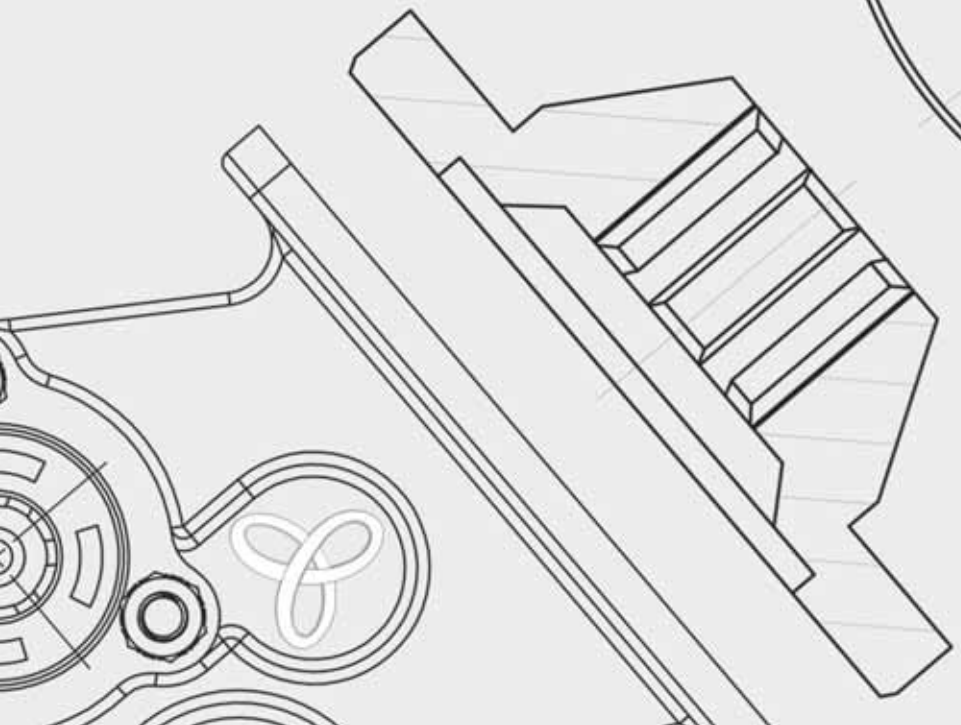

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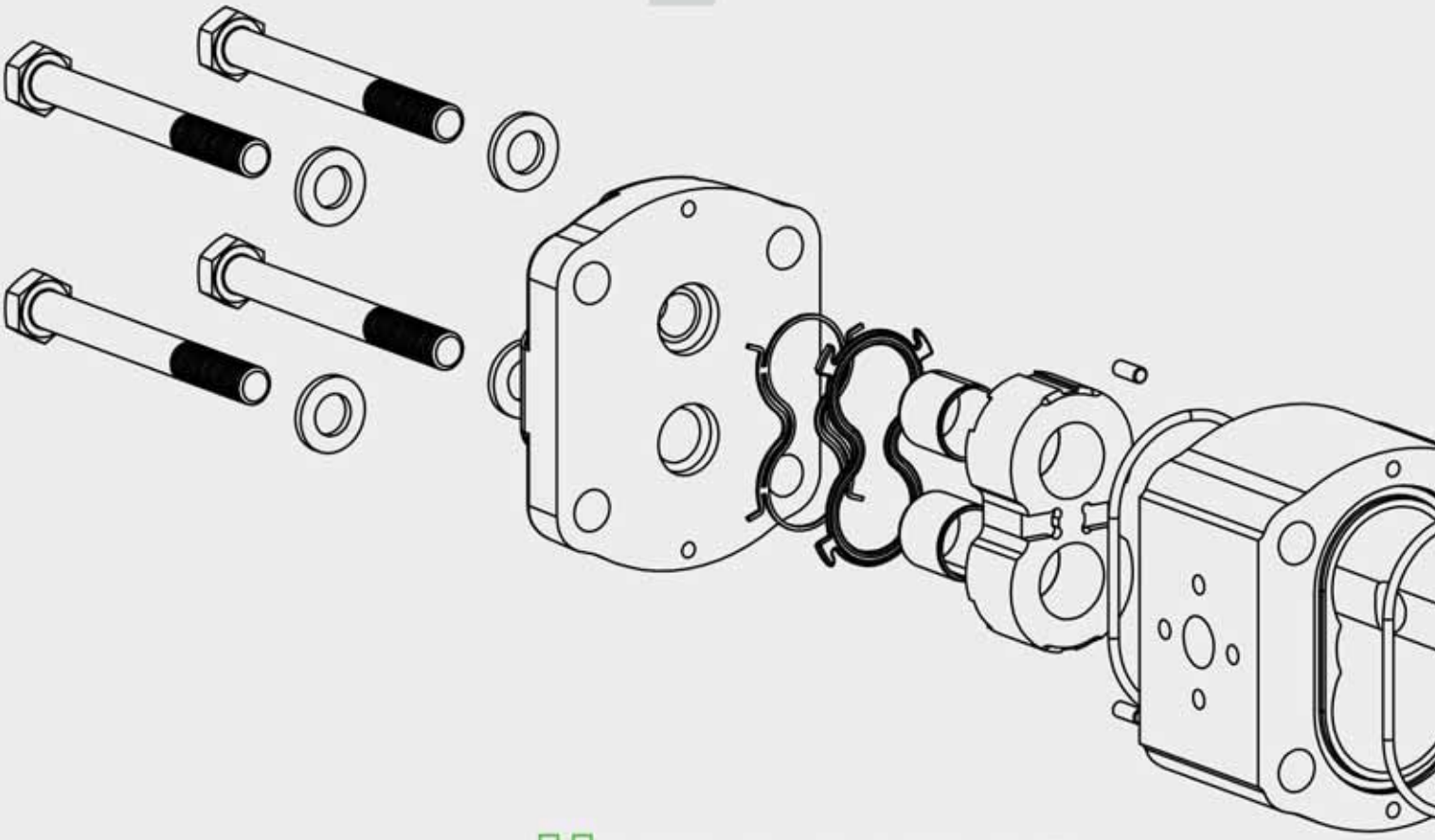
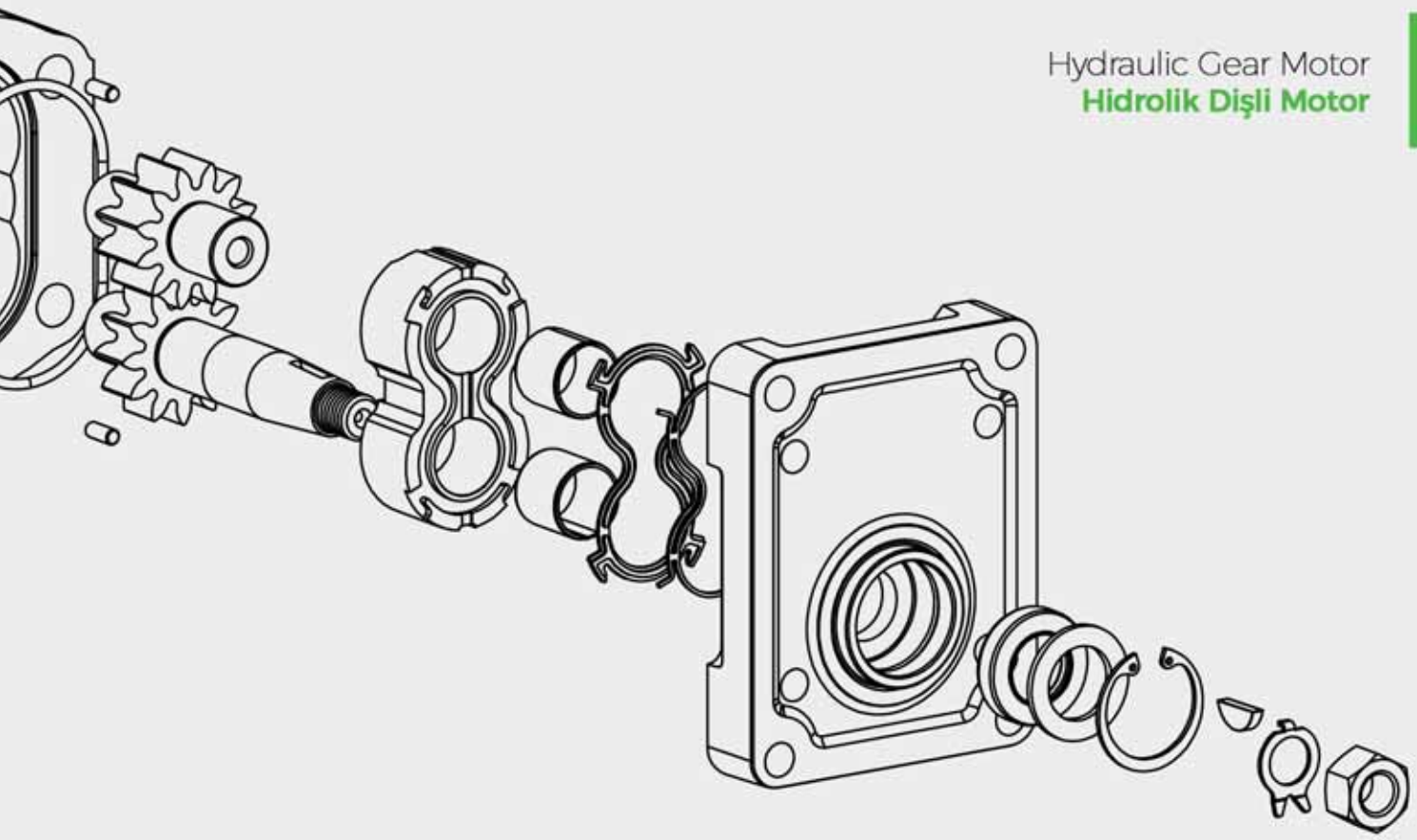


Hydraulic Gear Motor

blue ascend hydraulics

Hydraulic Gear Motor
Hidrolik Dişli Motor



1. GENEL BİLGİLER

Blue Ascend dişli motorları yüksek mukavemetli alüminyum alaşımlı gövde ekstrüzyon/döküm ve üç ana parçadan meydana gelmektedir.

Bu motorlar, yüksek performansı ve uzun çalışma ömründen dolayı modern hidrolik sistemlerde geniş bir şekilde kullanılmaktadır. Blue Ascend dişli motorları farklı iletim hacmi ve farklı dişli genişlikleri ile standart olarak bulunmaktadır. Daha fazla konfigürasyon varyantları için farklı flanş ve dişli kombinasyon seçenekleri mevcuttur.

2. KONSTRÜKSİYON

Dişli motorlar genel olarak alüminyum /döküm gövde, bir çift dişli, iki burç yatak, ön kapak ve arka kapaktan oluşur. Tahrik eden mil ön kapaktan geçerek şaft keçesi ile keçelendirilmiştir. Yatak kuvvetleri, özel yatak esnekliği ile temas hattı yerine, yüzey teması üretmek

için burç tarafından absorbe özelliği vardır. Ayrıca düşük hızlarda mükemmel direnç sağlar.Debi pulsasyonu ve gürültü seviyesi minimuma indirilmiştir.

Burç iç sızdırmazlık keçeler üzerinde basınca bağlı olarak kuvvetler elde edilir ve bu optimum verimliliği sağlar.

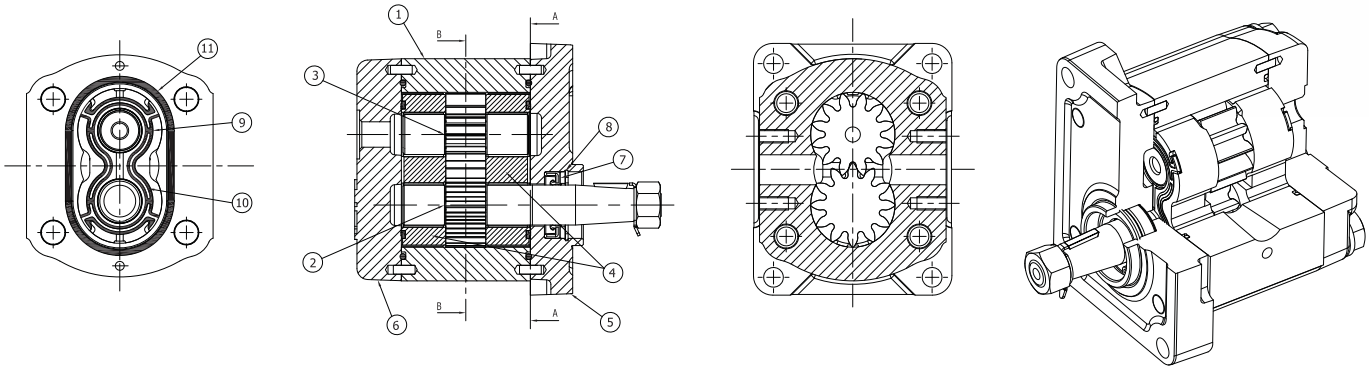
Aksi belirtilmedikçe, keçeleri yüksek çekme mukavemetine ve sıcaklığa dayanıklı nitril kauçuk (NBR) olmalıdır. İstenilmesi durumunda viton keçeler kullanılmalıdır.

1. GENERAL INFORMATION

Blue Ascend external gear motors are built in three main pieces with an in high resistance aluminium alloy extruded /cast iron body. These external gear motors are widely used in modern hydraulic systems due to their long service life and high performance. Blue Ascend external gear pumps are available as standard gear motors with different displacement and gear widths. Further configuration variants are given by different flanges, shafts, and multiple pump combinations.

2. CONSTRUCTION

The external gear motor consists of an aluminium/cast iron body, a pair of gears supported in bearing bushings and a front and a rear cover. The drive shaft protrudes from the front cover where it is sealed by the shaft seal ring. The bearing forces are absorbed by special bearing bushings with sufficient elasticity to produce surface contact instead of line contact. They also ensure excellent resistance to galling especially at low speed. Flow pulsation and noise emission decrease to a minimum level. The internal sealing is achieved by forces which are proportional to delivery pressure. Unless otherwise specified, the seals are in nitrilic compound (NBR) offering high mechanical strength and heat resistance. Viton seals are available on request.



1. Gövde / Body
2. Tahrik Eden Dişli / Drive Gear
3. Tahrik Edilen Dişli / Driven Gear
4. Burç / Bushing
5. Ön Kapak / Front Cover
6. Arka Kapak / Rear Cover
7. Şaft Keçesi / Shaft Seal
8. Destek Pulu / Backing Washer
9. Takviye Keçesi / Back Up Seals
10. Burç Kulak Keçesi / Bush Lobe Seals
11. Gövde Keçesi / Body Seals

3. MOTOR DÖNÜŞ YÖNÜ

Motorun ön tarafından bakıldığında ve tahrik eden dişli aşağıya gelecek şekilde motor dönüş yönü belirlenir.(şekillere bakınız).

Sağ dönüşlü motorların(C) tahrik eden dişli sağa(saat yönünde) dönecek, çıkış deliği sağda ve giriş deliği solda olacaktır.

Sol dönüşlü motorların(A) tahrik eden dişli sola (saat yönünün tersine) dönecek, çıkış deliği solda ve giriş deliği sağda olacaktır.

Çift yönlü motorlarda dönüş yönünü belirlemeye gerek yoktur. İki portta giriş ve çıkış portu olarak kullanılabilir.

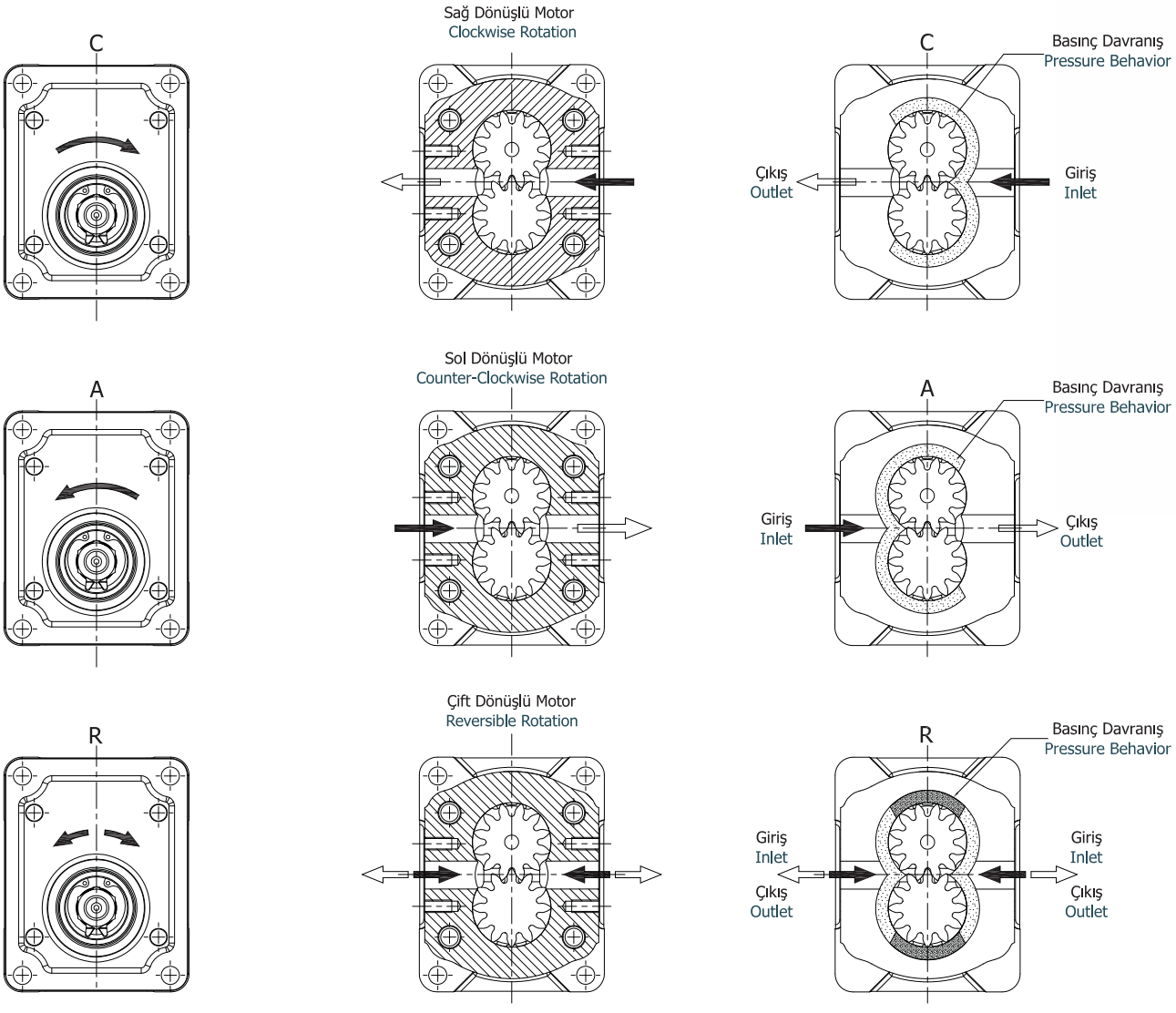
3. MOTOR DIRECTION OF ROTATIONS

The direction of rotation of a gear motor is identified by looking at the pump from the front coverside and with the drive gear turned down (see figures below).

Motors with clockwise rotation (C) have a drive gear which turn clockwise, with the suction port on the right and the pressure port on the left.

Motors with counter-clockwise rotation (A) have a drive gear which turns counter-clockwise, with the suction port on the left and the pressure port on the right.

There is no need to identify the direction of rotation of a reversible motor. Both ports can be used either as inlet and outlet port.



4. MOTORUN BAĞLANMASI

Motorlar, 2 veya 4 cıvata ve merkezleme çapı ile basit olarak ön kapaktan bağlanırlar. Merkezleme çapının oturacağı yuvanın kullanıcı tarafından yapılacak kısımda 1x45o pah kırılarak kaygan geçme toleranslarında işlenmesi, motorun yerine daha hassas geçmesini sağlar. En az titreşim için, rijit yapılan giriş çıkış bağlamaları yerine, hidrolik hortumlarla yapılacak bağlamalar tercih edilmelidir.

5. MOTOR GİRİŞ VE ÇIKIŞ

Motorlar pompalara göre ters çalışma prensibine sahiptir. Tahrik ters yönden uygulanırsa hidrolik motorlar pompaya dönüşebilir. Tek yönlü motorlar asimetrik burç sızdırmazlık keçesine sahiplerken, çift yönlü motorlar iki portunun da hem giriş hem de çıkış portu olarak kullanılmasına imkan sağlayan simetrik keçeye sahiptirler. Asimetrik keçe dizanylarından dolayı tek yönlü motorlarda isteğe göre dönüş yönü değişimi yapılamaz bundan dolayı iki yönde çalışma mümkün değildir.

Tek Yönlü Motorlar;

Düşük çıkış basıncı yağın kaçmasını önleyen şaft keçesine basınç uygulamaktadır ve şaft keçesini destekleyen segman da onu desteklemektedir. Kaçak yağ çıkış kısmından tahliye edilmektedir. Maksimum çıkış basıncı değeri şaft keçesi tarafından sınırlandırmıştır ve bu değer 3,5 barı aşmamalıdır.

Çift Yönlü Motorlar;

Sızdırmaz alan yağı tutan şaft alanına bağlıdır ve bu alanın basıncı, arka kapakta yer alan sızıntı hattı vasıtasıyla sınırlandırılmalıdır. Sızıntı hattında kullanılacak boru, sızıntı hattının basıncının 3,5 barı aşmayacak şekilde seçilmelidir. Ayrıca ilave dış sızıntı bağlantı hattından kaçınmak için iç sızıntılı motorlar da kullanılabilir. Bu motorlarda iç sızıntı içteki çek valflerle dışarıya verilmektedir.

4. MOTOR MOUNTING

The motors are easily mounted from the flange with the help 4 or 2 bolts and the spigot location. The counter bore to receive the mounting flange spigot should have a 1 mm chamfer at 45 on the motor side to ensure proper fitting. It is good practice to use flexible hose adjacent to the pump in both the suction and pressure lines to minimize vibration, which can be transmitted to the motor by rigid pipe runs.

5. MOTOR OUTLET AND INLET

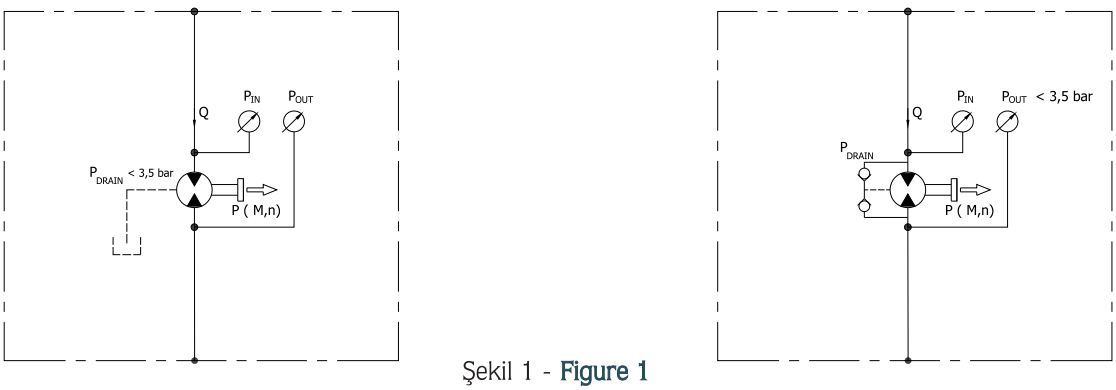
The motors has the inverted working principle with the pumps. Hydraulic motors can become a pump if reverse load occurs. Unidirectional motors has asymmetric balancing seals whereas reversible motors have symmetric balancing seals which allow both port to be; alternatively, as inlet high-pressure and outlet low-pressure port. Because of their asymmetric design, unidirectional motors are not interchangeable at will so reversible operation is not possible for them.

Unidirectional Motors;

The outlet low pressure side loads the back side of the oil retaining shaft seal, a dedicated steel ring for supporting it, is adopting. Leakage oil is discharged internally to the outlet side. The maximum outlet low-pressure value is limited by the shaft seal and must not exceed 3,5 bar.

Reversible Motors;

The sealed area is connected to the back of the oil retaining shaft area and its pressure must be limited connecting it to the tank, through a drain threaded port, which is placed on the motors rear cover. The drain hose must be chosen in order to avoid the pressure at the drain port does not exceed 3,5 bar. Motor with the internal drain are available in order to avoid the need for an additional leakage-oil connection. The internal leakage oil can be discharged via internal check valves.



Şekil 1 - Figure 1

6. FİLTRASYON

Birçok erken dişli motor arızalarının nedeni hidrolik sistemlerdeki kirlilik oranıdır. Bu gibi durumlarda garanti kirlilikten kaynaklanan aşınmaları kapsamaz. Etkin filtreleme sistemi kullanımı ve düzenli bakım programı uygulama hidrolik sistemlerde gereklidir. Her durumda filtreleme sistemi aşağıdaki tabloda yer alan müsade edilebilir kirlilik derecelerine eşit yada düşük kirlilik sağlamalıdır.

6. FILTRATION

The largest number of premature failures of gear motor is happening due to contamination in hydraulic system. In this case the guarantee does not cover the wear resulting from dirtiness in the system. In order to avoid these kinds of failures, it is essential to have an effective filter in the system and to carry out the regular maintenance schedule. In any case, the filtering system must constantly ensure an oil contamination class equal to or less than those shown in the table below.

Çalışma basıncı Operating pressure	> 170 bar	< 170 bar
Kirlilik sınıfı Contamination class NAS 1638	9	10
Kirlilik sınıfı Contamination class ISO 4406	18/15	19/16
Filtre Obtain with filter→ (Bx=75)	20	25

7. TAVSİYE EDİLEN YAĞ

Bütün hidrolik sistemlerde ISO/DIN ve SAE standartlarında belirtilen mineral esaslı hidrolik yağ kullanılması tavsiye edilir. Tavsiye edilen viskozite aralığı 20/120 (cSt) ve 700 (cSt)'ye kadar müsaade edilebilir.

8. ÇALIŞMA SICAKLIĞI

Bu motorlarda çalışma sıcaklığı;

* NBR keçeler için 0 C ile +80 C arasında devamlı ve -20 C ile +100 C aralıklı,
* Viton keçeler için 0 C ile +100 C arasında devamlı ve -20 C ile + 120 C arasında aralıklı olarak çalışırlar.

7. RECOMMENDED FLUIDS

We recommend using only mineral oil based hydraulic fluids that comply with the ISO/DIN or SAE standards. Recommended viscosity range is 20/120 (cSt) and permitted up to 700 (cSt).

8. OPERATION TEMPERATURE

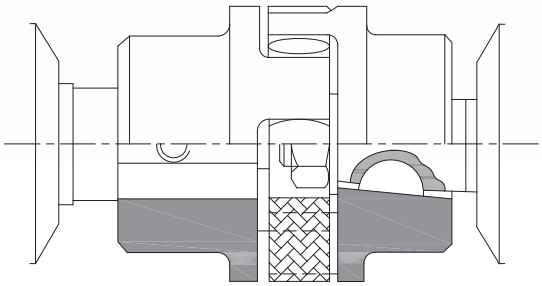
* Operation for NBR seals between 0 C and +80 C continuously, and between -20 C and +100 C intermittent,
* For viton seals between 0 C and + 100 C continuously and between -20 C and + 120 C intermittent.

9. TAHRİK ŞEKİLLERİ

Elastik kaplinler radyal ve eksenel yük taşımazlar. Eksenel ve radyal yönde minimum 0,25 mm boşluğu olan bir kaplin seçilmelidir. Üç parçalı elastik kaplinler tavsiye edilir (şekil 2).

9. DRIVE ARRANGEMENTS

The flexible coupling must not transfer any radial or axial forces to the pump. A coupling allowing a minimum of 0,25 mm radial and axial displacement must be chosen. Flexible compensating with three pieces flexible couplings are recommended (see fig 2).



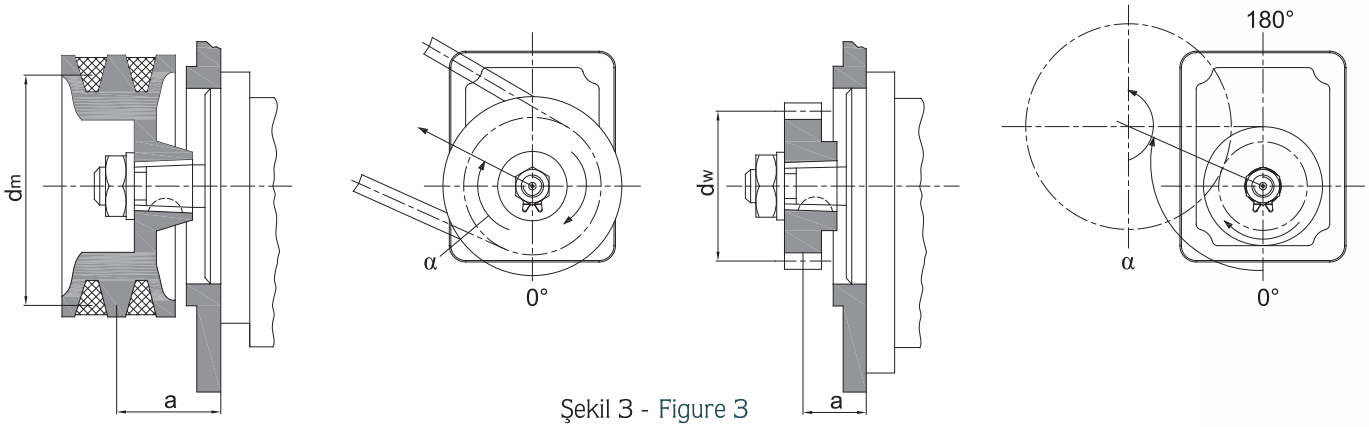
Şekil 2 - Figure 2

10. ÖN YATAKSIZ, KAYIŞ VE DİŞLİ İLE TAHRİK

V kayışı veya dış tahrik dişlisi ile motor tahriki önerildiği zaman aşağıdaki uygulama detayına bakınız (şekil 3).

10. V-BELTS AND GEAR WHEELS WITHOUT OUTBOARD BEARING

When proposing to use V-belt or gear drive, please see fig 3.



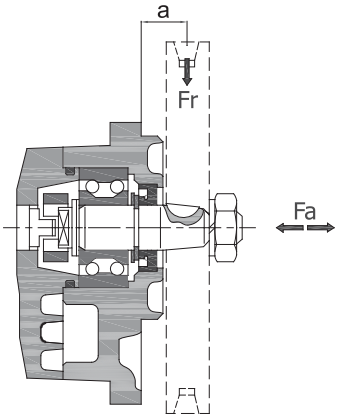
Şekil 3 - Figure 3

11. ÖN YATAK

Ön yataksız motorların V kayışı ve dış dişli ile tahrik edildiği zaman, çıkabilecek muhtemel problemler karşısında ön yatak kullanılmaktadır.

11. OUTBOARD BEARING

Outboard bearings eliminate possible problems when the motors are driven by V-belts gear wheels.



12. DİŞLİ MOTOR HESAPLARI

Motor dizayn hesaplarında aşağıdaki parametreler esas alınır.

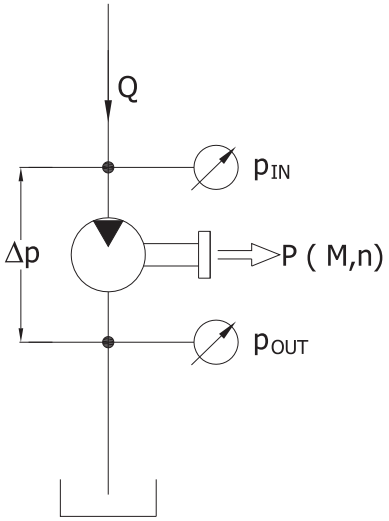
V(cm³ / dev)	: İletim Hacmi
Q(lt/dak)	: Debi
ΔP(bar)	: Basınç
M(Nm)	: Döndürme Torku
n(d/d)	: Hız
N(kw)	: Güç
ηv(%)	: Volumetrik Verim
ηm(%)	: Mekanik Verim
ηt(%)	: Toplam Verim

12. CALCULATION THE SPECIFICATION OF A GEAR MOTOR

The design calculation for motors are based on the following parameters.

V(cm³ / rev)	: Displacement
Q(l/min)	: Flow Range
ΔP(bar)	: Pressure
M(Nm)	: Drive Torque
n(rpm)	: Speed
N(kw)	: Power
ηv(%)	: Volumetric Efficiency
ηm(%)	: Mechanical Efficiency
ηt(%)	: Total Efficiency

FORMÜLLER
FORMULAS



$$Q=\frac{V.n}{1000.\eta v} \qquad N=\frac{Q.\Delta P.\eta t}{600}$$

$$M=\frac{V.\Delta P.\eta m}{20.\pi} \qquad \eta t=\eta m.\eta v$$

Tavsiye Edilen Verim
Recommended Efficiency

ηv = %95

ηm= %87 - %90

ηt = %82

GRUP 20 MOTORLARIN KODLAMA SİSTEMİ
ORDERING CODE OF GROUP 20 MOTORS

APM20 . 115 . R A B 02 E G O N

Motor Tipi / Motor Type

APM20	Aluminyum Gövdeli Düz Dişli Motor / Aluminium Body Gear Motor
DKM20	Döküm Gövdeli Düz Dişli Motor / Cast Iron Body Gear Motor

İletim Hacmi / Displacement cm³/dev (cm³/rev)

040 = 3,9 cm³/dev (cm³/rev)
060 = 5,9 cm³/dev (cm³/rev)
080 = 8,0 cm³/dev (cm³/rev)
095 = 9,4 cm³/dev (cm³/rev)
115 = 11,4 cm³/dev (cm³/rev)
140 = 13,9 cm³/dev (cm³/rev)
160 = 16,0 cm³/dev (cm³/rev)
190 = 19,2 cm³/dev (cm³/rev)
220 = 21,9 cm³/dev (cm³/rev)
250 = 24,8 cm³/dev (cm³/rev)
280 = 27,9 cm³/dev (cm³/rev)
320= 32,0 cm /dev (cm /rev)
340= 34,0 cm /dev (cm /rev)
380= 38,0 cm /dev (cm /rev)
400= 40,0 cm /dev (cm /rev)

Dönüş Yönü / Rotation

A = Sol dönüş / Counter-clockwise
C = Sağ dönüş / Clockwise
R = Çift dönüş / Reversible

Ön Yatak / Outboard Bearing

O	Var / Available
	Yok / Absent

Keçe / Seal

N	NBR
V	Viton

Sızıntı Hattı / Drain Line

G	G1/4"
U	7/16-20 UNF
M	M12x1,5

Arka Kapak / Rear Cover

S	Standart / Standard
E	Arkadan Dış Sızıntı Hattı / External Drain Rear Port
R1	Emniyet Valfi (10 - 90 Bar) / Relief Valve
R2	Emniyet Valfi (70 - 140 Bar) / Relief Valve
R3	Emniyet Valfi (120 - 190 Bar) / Relief Valve
D	Akış Bölücü Valf / Flow Divider Valve
H	Emniyet Valfli Akış Kontrol Valfi / Flow Control Valve With Relief Valve
L	Yük Duyarlı Valf / Load Sensing Valve
T	Çek Valf / Check Valve
P	Arkadan Giriş-Çıkış / Rear Inlet-Outlet
C	Basınç Kompansatörlü Akış Kontrol Valfi / Flow Control Valve Pressure Compensated

Ön Kapak / Front Cover

A	Dikdörtgen kapak / Square flange	Ø36,47 mm
B	2 Civatalı - Merkezleme / 2 Bolts - Centering	Ø50 mm
C	2 Civatalı - Merkezleme ve oringli / 2 Bolts - Centering with oring	Ø52 mm
D	2 Civatalı SAE ' A' / 2 Bolts SAE ' A'	Ø82,55 mm
E	2 Civatalı - Merkezleme / 2 Bolts - Centering	Ø50 mm
G	Dikdörtgen kapak / Square flange	Ø80 mm
H	Ön yataklı / Outboard bearing	Ø80 mm
K	2 Civatalı SAE ' B' / 2 Bolts SAE ' B'	Ø101,6 mm
M	2 Civatalı - Merkezleme / 2 Bolts - Centering	Ø52,34 mm
N	4 Civatalı - Merkezleme O-ringli / 4 Bolts - Centering O-ring	Ø52 mm

Tahrik şaftı / Drive Shaft

A	Konik - Kamalı / Tapered key shaft	1:5	B E G
B	Konik - Kamalı / Tapered key shaft	1:8	A
C	SAE spline şaft 9 diş / SAE spline shaft 9T		B D
E	Kesik şaftlı / Tang drive shaft		C H
F	SAE spline şaft 11 diş / SAE spline shaft 11T		D
G	Spline şaft DIN 5482 / Spline shaft (B17x14)		A B E G
H	Paralel şaft / Parallel shaft		B D G
K	Konik - Kamalı / Tapered key shaft	1:5	H
L	Konik - Kamalı / Tapered key shaft	1:5	G
M	SAE spline şaft J498 10 diş / SAE spline shaft 16/32 DP 10T		D
N	Konik - Kamalı / Tapered key shaft	1:8	M
T	Kesik şaftlı / Tang drive shaft		N

Giriş - Çıkış Delikleri / Inlet and Outlet Ports

01	Kare tip / Rectangular
02	Baklava tip / Diamond
03	Metrik dişli / ISO 6149 oring boss
04	UNF diş / UNF thread
05	Boru diş / Pipe thread
06	SAE Dikdörtgen Flanş Metrik diş / SAE Square Flange Thread Metric

- Kodlama Örneği ; APM20.115.RAB02EGN
  Code Example

Grup 20 motorlar 4 cc ^{3}/dev. 'den 40 cc ^{3}/rev. 'e kadar ki iletim hacmine sahip motorlardır. Kendi içinde APM20,DKM20 olarak 2 gruba ayrılır. Aşağıdaki Tablo da bu 2 grubun birbirinden farklı olan teknik özellikleri belirtilmiştir;
-APM20 (Aluminyum Gövdeli Düz Dişli Motorlar)
-DKM20 (Döküm Gövdeli Düz Dişli Motorlar)

Group 20 motors has a working capacity from 4 cc^3/rev to 40 cc^3/rev. It has 2 sub-groups in itself as APM20, DKM20.The differences between the 2 sub-groups technical specifications can be found on the below table.
-APM20 (Aluminium Body Gear Pumps)
-DKM20 (Aluminium Body Gear Pumps)

APM20 TEKNİK ÖZELLİKLER / APM20 TECHNICAL DATA

Motor Tipi Motor Type	İletim Hacmi Displacement cm^3/dev(cm^3/rev)	Maks. Basınç / Max. Pressure			Maks. Hız Max. Speed	Min. Hız Min. Speed
		P1	P2	P3		
		bar			d/d (rpm)	
APM20.040	3,9	250	280	300	3500	650
APM20.060	5,9	250	280	300	3500	650
APM20.080	8,0	250	280	300	3500	650
APM20.095	9,4	250	280	300	3500	600
APM20.115	11,4	250	280	300	3000	600
APM20.140	13,9	250	280	300	3000	600
APM20.160	16,0	250	280	300	3000	600
APM20.190	19,2	250	280	300	3000	600
APM20.220	21,9	210	240	260	2500	600
APM20.250	24,8	190	220	240	2500	600
APM20.280	27,9	170	220	220	2200	600
APM20.320	32,0	160	190	210	2000	500
APM20.340	34,0	150	180	200	2000	500
APM20.380	38,0	140	170	190	1750	500
APM20.400	40,0	130	170	190	1750	500

P1: Sürekli çalışma basıncı
Continuous pressure

P2 : Aralıklı çalışma basıncı
Intermittent pressure

P3 : Ani basınç
Peak pressure

DKM20 TEKNİK ÖZELLİKLER / DKM20 TECHNICAL DATA

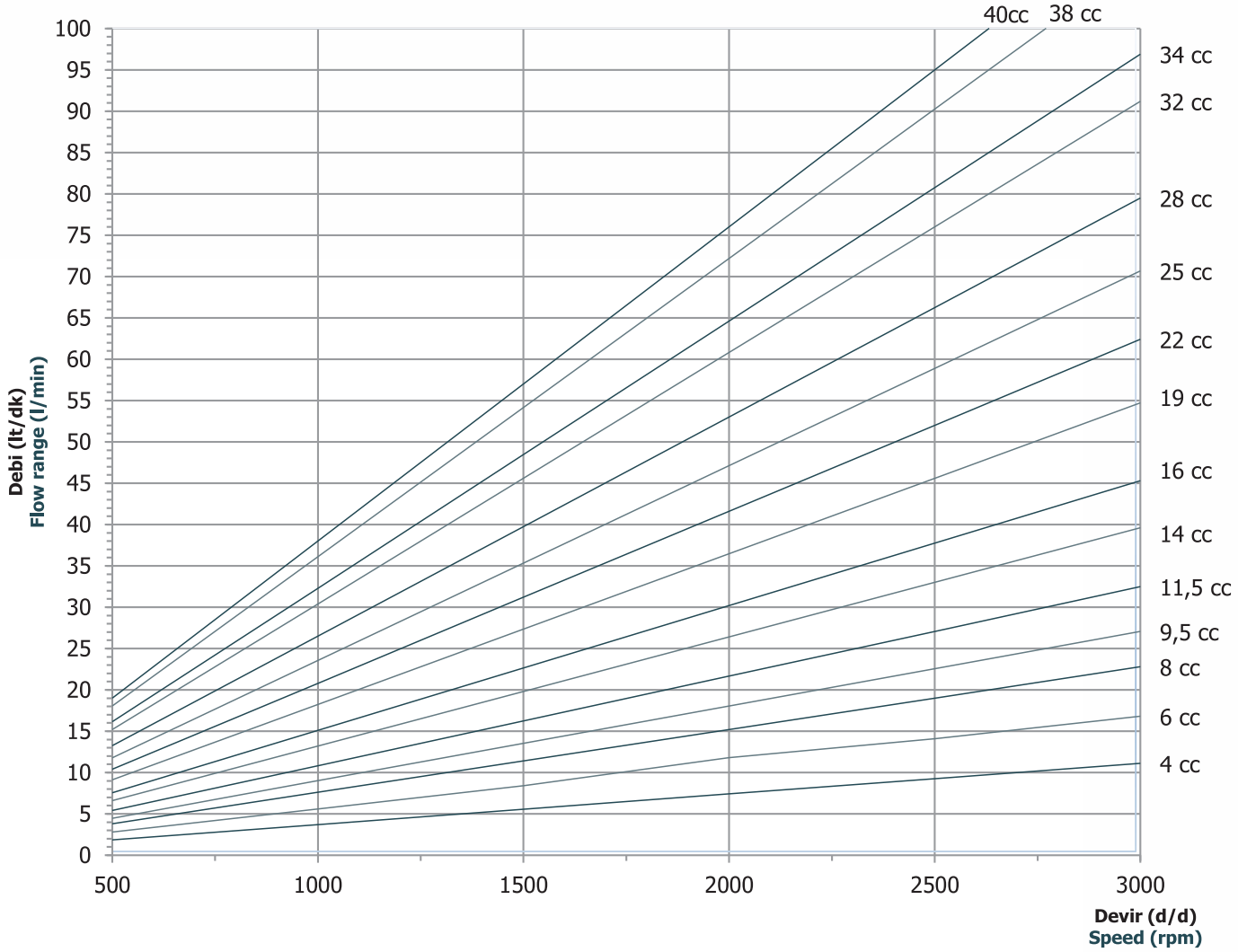
Motor Tipi Motor Type	İletim Hacmi Displacement cm^3/dev(cm^3/rev)	Maks. Basınç / Max. Pressure			Maks. Hız Max. Speed	Min. Hız Min. Speed
		P1	P2	P3		
		bar			d/d (rpm)	
DKM20.040	3,9	280	300	320	3500	650
DKM20.060	5,9	280	300	320	3500	650
DKM20.080	8,0	280	300	320	3500	650
DKM20.095	9,4	280	300	320	3500	600
DKM20.115	11,4	280	300	320	3000	600
DKM20.140	13,9	280	300	320	3000	600
DKM20.160	16,0	280	300	320	3000	600
DKM20.190	19,2	280	300	320	3000	600
DKM20.220	21,9	240	260	280	2500	600
DKM20.250	24,8	220	240	260	2500	600
DKM20.280	27,9	200	240	260	2200	600

P1: Sürekli çalışma basıncı
Continuous pressure

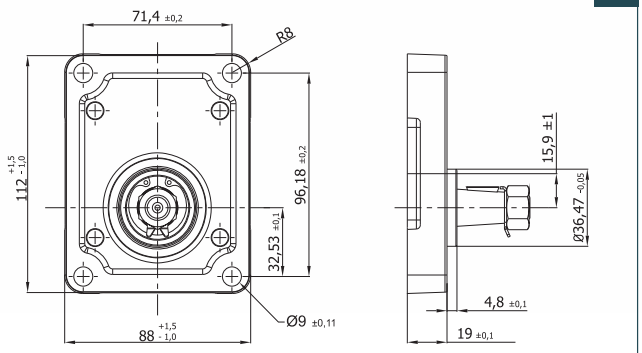
P2 : Aralıklı çalışma basıncı
Intermittent pressure

P3 : Ani basınç
Peak pressure

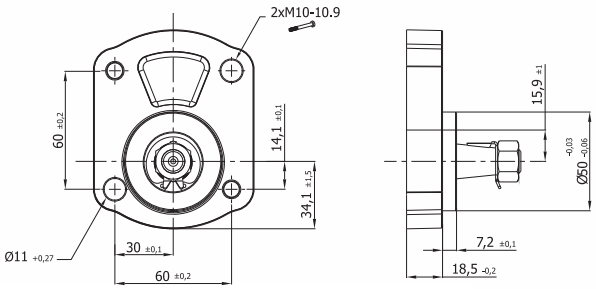
GRUP 20 MOTORLARIN DEBİ EĞRİLERİ / FLOW CURVES OF GROUP 20 MOTORS



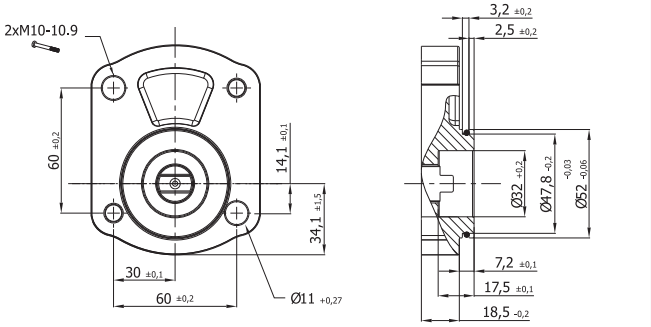
A


71,4 ±0,2
R8
112 +1,5 -1,0
96,18 ±0,2
32,53 ±0,1
Ø9 ±0,11
88 +1,5 -1,0
15,9 ±1
Ø36,47 -0,05
4,8 ±0,1
19 ±0,1

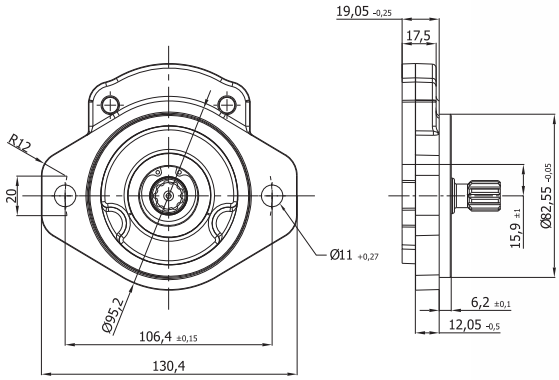
B


2xM10-10.9
60 ±0,2
14,1 ±0,1
34,1 ±1,5
Ø11 +0,27
30 ±0,1
60 ±0,2
15,9 ±1
Ø50 -0,03 -0,06
7,2 ±0,1
18,5 -0,2

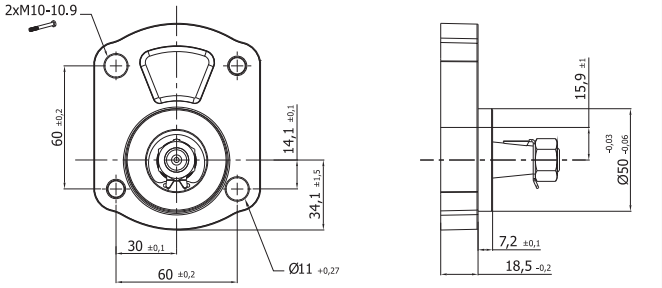
C


2xM10-10.9
60 ±0,2
14,1 ±0,1
34,1 ±1,5
30 ±0,1
60 ±0,2
Ø11 +0,27
3,2 ±0,2
2,5 ±0,2
Ø32 -0,2
Ø47,8 -0,2
Ø52 -0,03 -0,06
7,2 ±0,1
17,5 ±0,1
18,5 -0,2

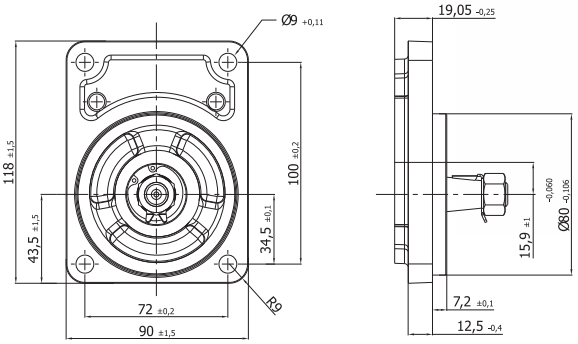
D


19,05 -0,25
17,5
R12
20
Ø11 +0,27
Ø95,2
106,4 ±0,15
130,4
15,9 ±1
Ø82,55 -0,05
6,2 ±0,1
12,05 -0,5

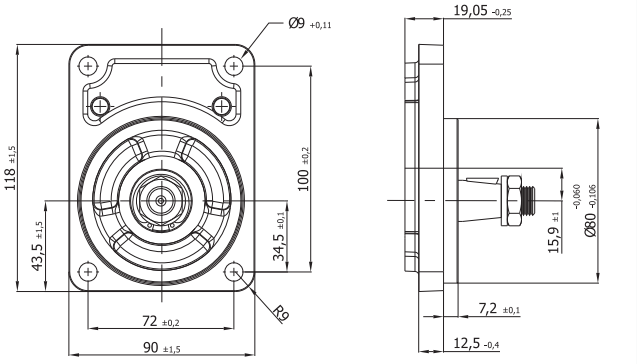
E


2xM10-10.9
60 ±0,2
14,1 ±0,1
34,1 ±1,5
30 ±0,1
60 ±0,2
Ø11 +0,27
15,9 ±1
Ø50 -0,03 -0,06
7,2 ±0,1
18,5 -0,2

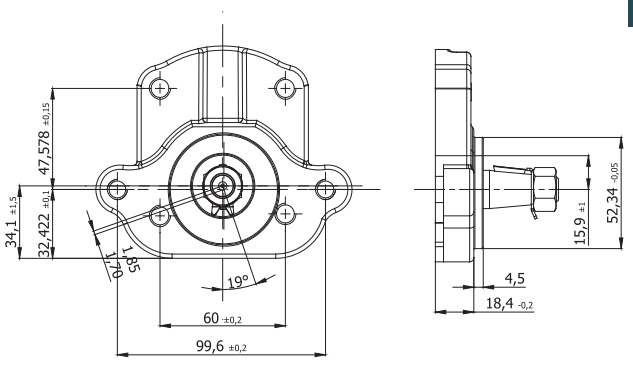
G


Ø9 +0,11
118 ±1,5
100 ±0,2
43,5 ±1,5
34,5 ±0,1
R9
72 ±0,2
90 ±1,5
19,05 -0,25
15,9 ±1
Ø80 -0,060 -0,106
7,2 ±0,1
12,5 -0,4

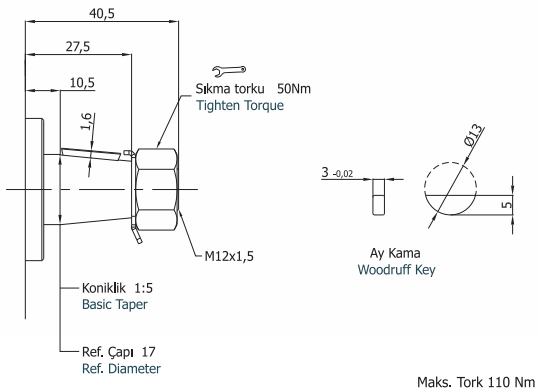
H


Ø9 +0,11
118 ±1,5
100 ±0,2
43,5 ±1,5
34,5 ±0,1
R9
72 ±0,2
90 ±1,5
19,05 -0,25
15,9 ±1
Ø80 -0,060 -0,106
7,2 ±0,1
12,5 -0,4

M

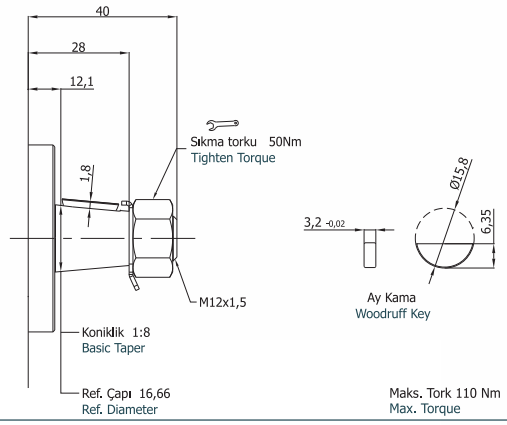

47,578 ±0,15
34,1 ±1,5
32,422 ±0,1
19°
60 ±0,2
99,6 ±0,2
15,9 ±1
52,34 -0,05
4,5
18,4 -0,2

A



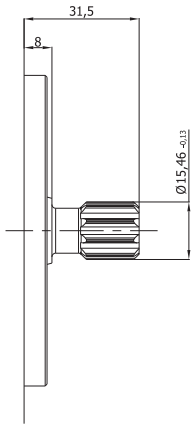
Maks. Tork 110 Nm
Max. Torque

B



Maks. Tork 110 Nm
Max. Torque

C

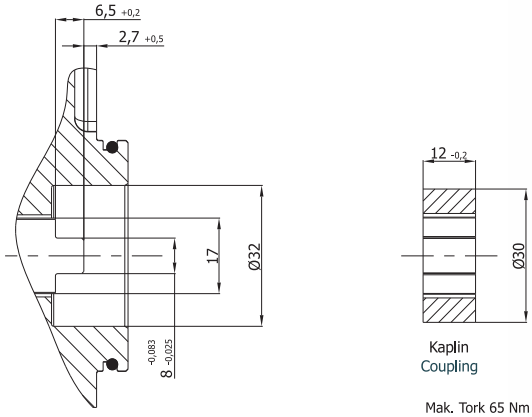


SAE 16-4 (A) 5/8" Spline
Evolvent Spline
Diş Dibi Düz, Yanaktan Alıştırmalı
9 Diş, 16/32 DP

Involute Spline
Flat Root Side Fit
9 Teeth, 16/32 DP

Maks. Tork 90 Nm
Max. Torque

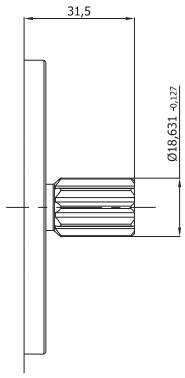
E



Kaplin
Coupling

Mak. Tork 65 Nm
Max. torque

F

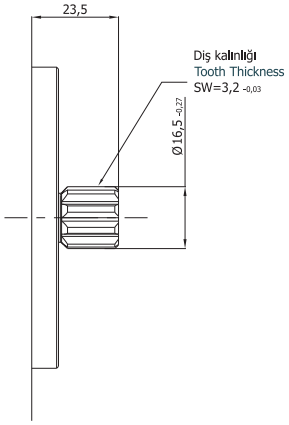


SAE J498 Spline
Evolvent Spline
Diş Dibi Düz, Yanaktan Alıştırmalı
11 Diş, 16/32 DP

Involute spline
Flat root side fit
11 Teeth, 16/32 DP

Maks. Tork 150 Nm
Max. Torque

G

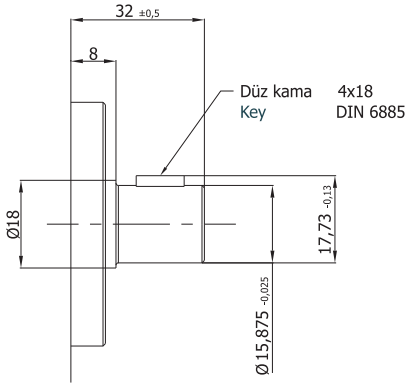


Evolvent Spline
DIN 5482 B17x14
9 Diş

Involute Spline
DIN 5482 B17x14
9 Teeth

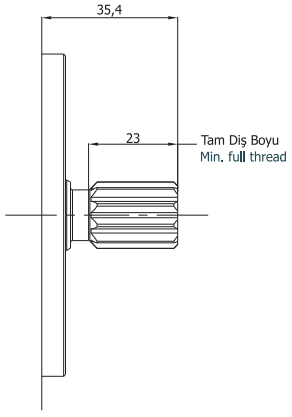
Maks. Tork 115 Nm
Max. Torque

H



Mak. Tork 55 Nm
Max. torque

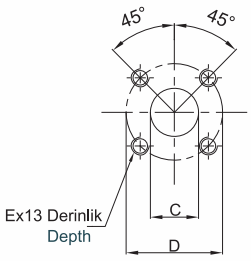
M



SAE J498 A Evolvent Spline
Diş Dibi Düz, Yanaktan Alıştırmalı
10 Diş, 16/32 DP

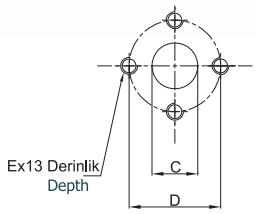
SAE J498 A Involute Spline
Flat Root Side Fit
10 Teeth, 16/32 DP

Maks. Tork 115 Nm
Max. Torque



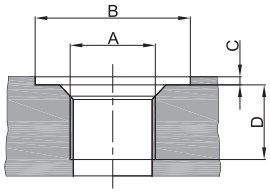
01 Kare Tipi Flanş / Rectangular Flange

Sipariş Kodu Ordering Code	İletim Hacmi Displacement cm³/dev (rev)	Emiş Tarafı Suction Side			Basınç Tarafı Pressure Side		
		C	D	E	c	d	e
	4	12	40	M6	12	35	M6
	6	13,5			13,5		
	8 – 25	20			15		
	28 – 40				20	40	
	4 – 16	15	35	M6	15	35	M6
	19 – 40	20	40		20	40	



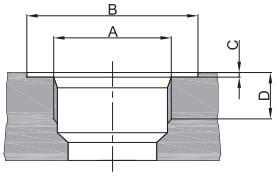
02 Baklava Tipi Flanş / Diamond Flange

Sipariş Kodu Ordering Code	İletim Hacmi Displacement cm³/dev (rev)	Emiş Tarafı Suction Side			Basınç Tarafı Pressure Side		
		C	D	E	c	d	e
	4	12	30,2	M6	12	30,2	M6
	6 – 8	13,5			13,5		
	9,5 – 25	20	40	M8			
	28 – 40				20	40	M8
	4 – 16	13,5	30,2	M6	13,5	30,2	M6
	19 – 40	20	40	M8	20	40	M8



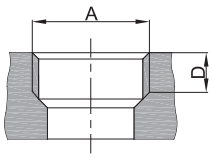
03 Metrik diş / Thread, Oring Boss Metric ISO 6149 With Seal Ring

Sipariş Kodu Ordering Code	İletim Hacmi Displacement cm³/dev (rev)	Emiş Tarafı Suction Side				Basınç Tarafı Pressure Side			
		A	B	C	D	A	B	C	D
	4 – 6	M18x1,5	30	0,5	16	M18x1,5	30	0,5	16
	8 – 16	M27x2	40		19	M22x1,5	35		19
	19 – 40	M33x2	45		22				
	4 – 16	M22x1,5	35	0,5	19	M22x1,5	35	0,5	19
	19 – 40	M26x1,5	40			M26x1,5	40		



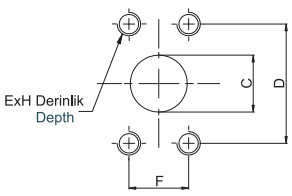
04 Diş / Thread (UNF-2B) SAE Oring Boss

Sipariş Kodu Ordering Code	İletim Hacmi Displacement cm³/dev (rev)	Emiş Tarafı Suction Side				Basınç Tarafı Pressure Side			
		A	B	C	D	A	B	C	D
	4 – 6	9/16-18 UNF-2B	25	0,5	13	9/16-18 UNF-2B	25	0,5	13
	8	7/8-14 UNF-2B	35		16	7/8-14 UNF-2B	35		16
	9,5 – 40	1 1/16-12 UNF-2B	45		19				
	4 – 16	7/8-14 UNF-2B	35	0,5	16	7/8-14 UNF-2B	35	0,5	16
	19 – 40	1 1/16-12 UNF-2B	45		19	1 1/16-12 UNF-2B	45		19



05 Boru diş / Pipe Thread ISO228/1

Sipariş Kodu Ordering Code	İletim Hacmi Displacement cm³/dev (rev)	Emiş Tarafı Suction Side		Basınç Tarafı Pressure Side	
		A	D	A	D
	4 – 16	G ¾	16	G ½	16
	19 – 40	G 1		G ¾	
	4 – 16	G ½	16	G ½	16
	19 – 40	G ¾		G ¾	16

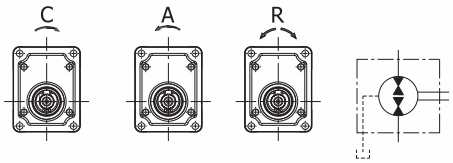


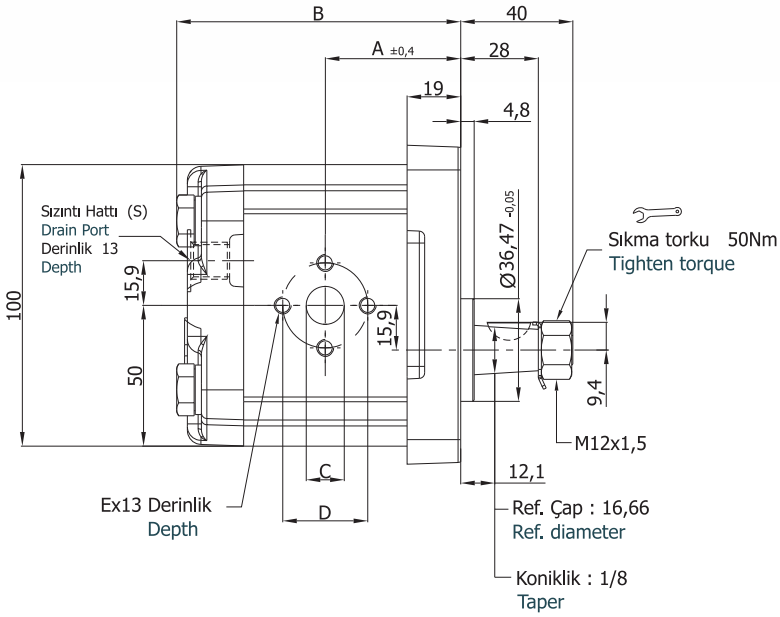
06 SAE Dikdörtgen Flanş Metrik Diş / SAE Square Flange Metric Thread

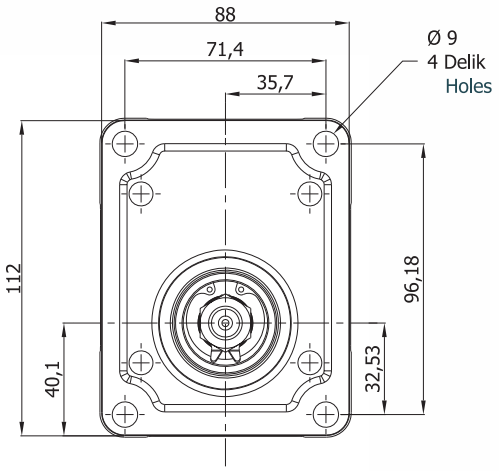
Sipariş Kodu Ordering Code	İletim Hacmi Displacement cm³/dev (rev)	Emiş Tarafı Suction Side					Basınç Tarafı Pressure Side				
		C	D	E	F	H	c	d	e	f	h
	4 - 11,5	12	38,1	M8	17,5	13	12	38,1	M8	17,5	13
	14 - 19	20	47,6	M10	22,2	16					
	22 - 40	26	52,4		26,2		20	47,6	M10	22,2	16
	4 - 11,5	12	38,1	M8	17,5	13	12	38,1	M8	17,5	13
	14 - 22	20	47,6	M10	22,2	16	20	47,6	M10	22,2	16
	25 - 40	26	52,4		26,2		26	52,4		26,2	

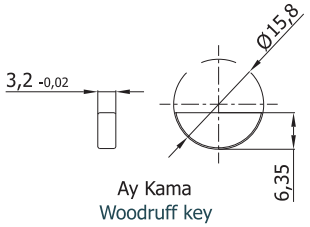
A Ön Kapak / Front Cover

B Şaft Tipi / Shaft Type





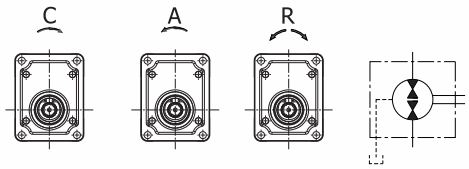


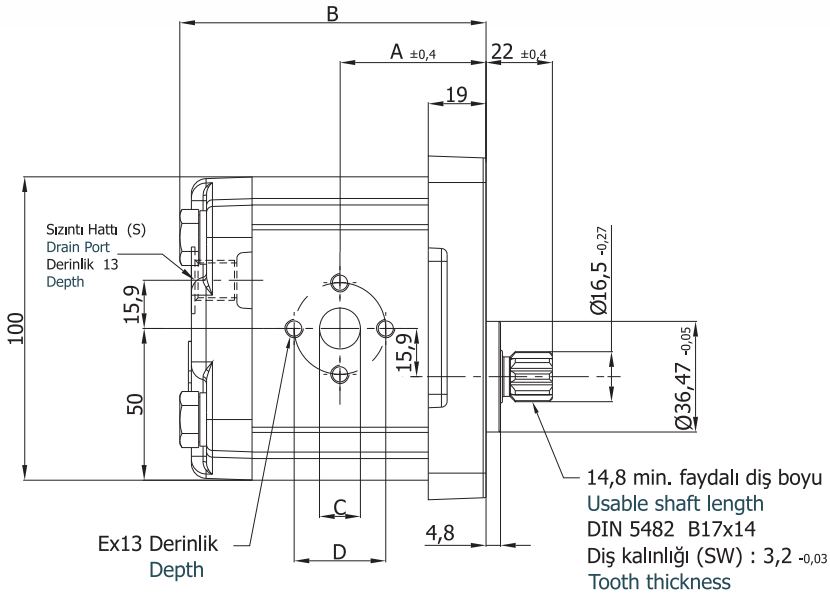


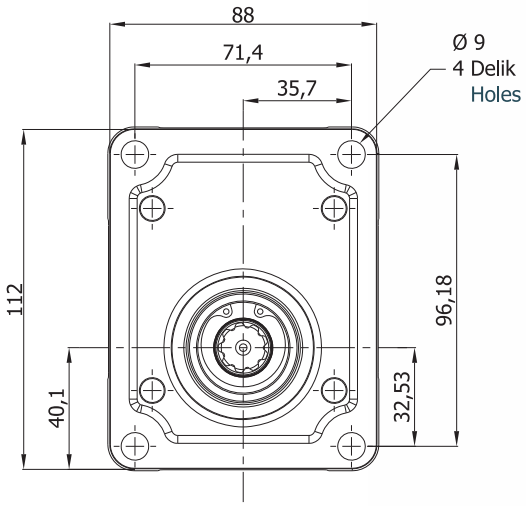
Motor Tipi / Motor Type	İletim Hacmi / Displacement cm³/dev(cm³/rev)	Maks. Basınç / Max. Pressure (bar)	Maks. Hız / Max. Speed d/d (rpm)	A ±0,4	B	Giriş/Çıkış – Inlet/Outlet			Sızıntı - Drain
						C	D	E	S
APM20.040.RAB02EGN	3,9	250	3500	42,2	89,3	13,5	30,2	M6	G1/4
APM20.060.RAB02EGN	5,9			43,8	92,4				
APM20.080.RAB02EGN	8,0			45,4	95,6				
APM20.095.RAB02EGN	9,4			46,5	97,9				
APM20.115.RAB02EGN	11,4		3000	48,2	101,0				
APM20.140.RAB02EGN	13,9			50,0	105,0				
APM20.160.RAB02EGN	16,0			51,7	108,1				
APM20.190.RAB02EGN	19,2			60,2	125,1	20	40	M8	
APM20.220.RAB02EGN	21,9	210	2500	62,3	129,5				
APM20.250.RAB02EGN	24,8	190		64,8	134,6				
APM20.280.RAB02EGN	27,9	170	2200	67,0	138,9				
APM20.320.RAB02EGN	32,0	160	2000	70,0	145,0				
APM20.340.RAB02EGN	34,0	150		71,5	148,0				
APM20.380.RAB02EGN	38,0	140	1750	74,8	154,5				
APM20.400.RAB02EGN	40,0	140		76,5	158,0				

A Ön Kapak
Front Cover

G Şaft Tipi
Shaft Type



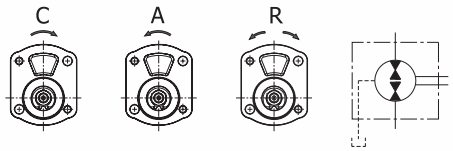


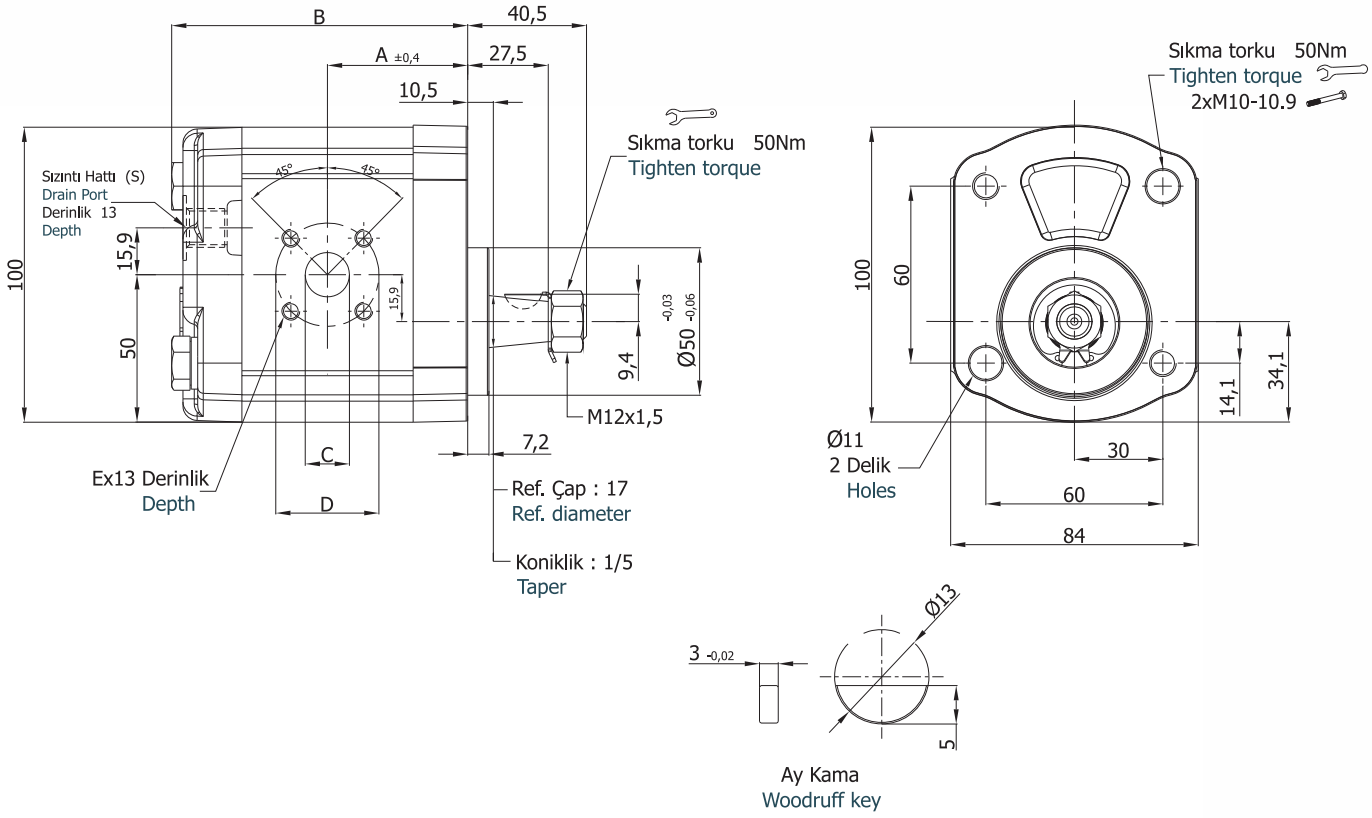


Motor Tipi Motor Type	İletim Hacmi Displacement $cm^3/dev(cm^3/rev)$	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş/Çıkış – Inlet/Outlet			Sızıntı - Drain
						C	D	E	S
APM20.040.RAG02EGN	3,9	250	3500	42,2	89,3	13,5	30,2	M6	G1/4
APM20.060.RAG02EGN	5,9			43,8	92,4				
APM20.080.RAG02EGN	8,0			45,4	95,6				
APM20.095.RAG02EGN	9,4			46,5	97,9				
APM20.115.RAG02EGN	11,4		3000	48,2	101,0				
APM20.140.RAG02EGN	13,9			50,0	105,0				
APM20.160.RAG02EGN	16,0			51,7	108,1				
APM20.190.RAG02EGN	19,2			60,2	125,1	20	40	M8	
APM20.220.RAG02EGN	21,9	210	2500	62,3	129,5				
APM20.250.RAG02EGN	24,8	190		64,8	134,6				
APM20.280.RAG02EGN	27,9	170	2200	67,0	138,9				
APM20.320.RAG02EGN	32,0	160	2000	70,0	145,0				
APM20.340.RAG02EGN	34,0	150		71,5	148,0				
APM20.380.RAG02EGN	38,0	140	1750	74,8	154,5				
APM20.400.RAG02EGN	40,0			76,5	158,0				

B Ön Kapak / Front Cover

A Şaft Tipi / Shaft Type

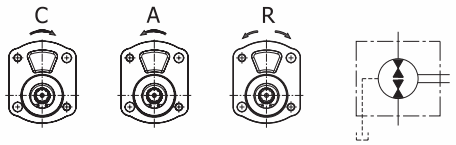


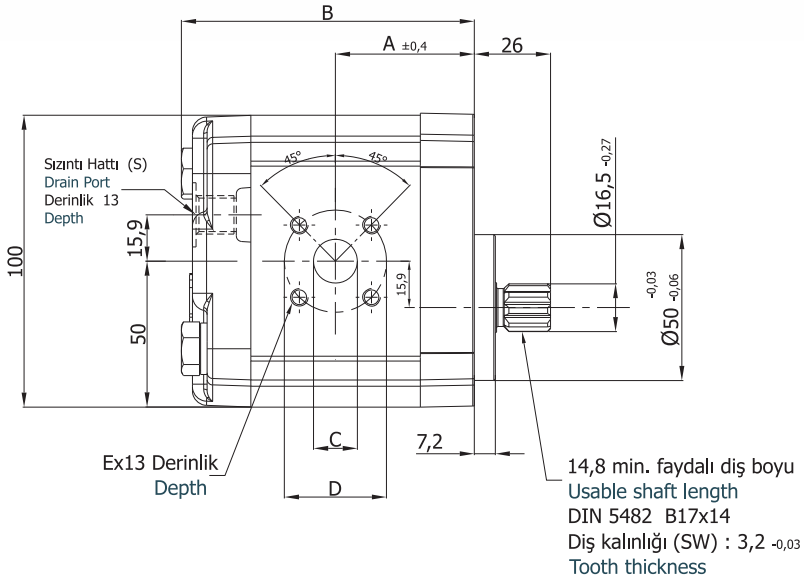


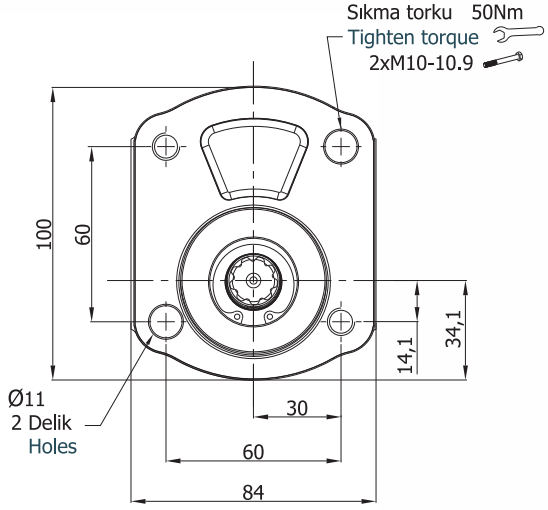
Motor Tipi / Motor Type	İletim Hacmi / Displacement cm³/dev(cm³/rev)	Maks. Basınç / Max. Pressure (bar)	Maks. Hız / Max. Speed d/d (rpm)	A ±0,4	B	Giriş/Çıkış – Inlet/Outlet			Sızıntı - Drain
						C	D	E	S
APM20.040.RBA01EMN	3,9	250	3500	41,6	88,7	15	35	M6	M12x1,5
APM20.060.RBA01EMN	5,9			43,2	91,8				
APM20.080.RBA01EMN	8,0			44,8	95,0				
APM20.095.RBA01EMN	9,4			45,9	97,3				
APM20.115.RBA01EMN	11,4		3000	47,6	100,4				
APM20.140.RBA01EMN	13,9			49,4	104,6				
APM20.160.RBA01EMN	16,0			51,1	107,5				
APM20.190.RBA01EMN	19,2			59,6	124,5	20	40		
APM20.220.RBA01EMN	21,9	210	2500	61,7	128,9				
APM20.250.RBA01EMN	24,8	190		64,2	134,0				
APM20.280.RBA01EMN	27,9	170	2200	66,4	138,3				
APM20.320.RBA01EMN	32,0	160	2000	70,0	144,4				
APM20.340.RBA01EMN	34,0	150		71,5	147,4				
APM20.380.RBA01EMN	38,0	140	1750	74,8	153,9				
APM20.400.RBA01EMN	40,0			76,5	157,4				

B Ön Kapak
Front Cover

G Şaft Tipi
Shaft Type



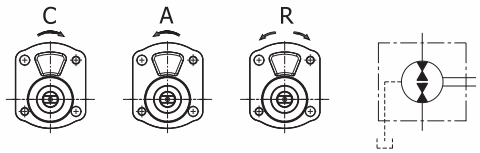


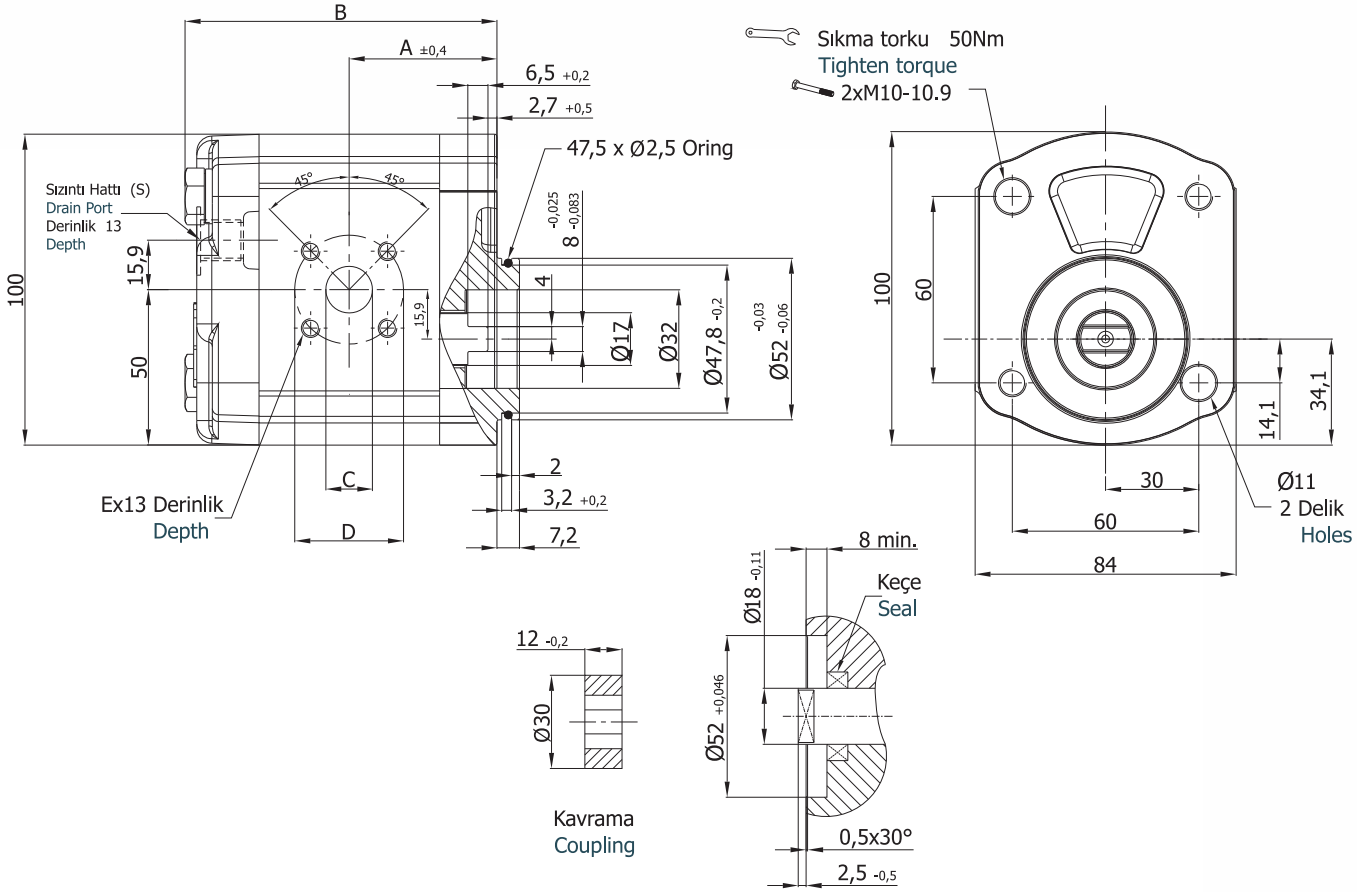


Motor Tipi Motor Type	İletim Hacmi Displacement $cm^3/dev(cm^3/rev)$	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş/Çıkış – Inlet/Outlet			Sızıntı - Drain
						C	D	E	S
APM20.040.RBG01EMN	3,9	250	3500	41,6	88,7	15	35	M6	M12x1,5
APM20.060.RBG01EMN	5,9			43,2	91,8				
APM20.080.RBG01EMN	8,0			44,8	95,0				
APM20.095.RBG01EMN	9,4			45,9	97,3				
APM20.115.RBG01EMN	11,4		3000	47,6	100,4				
APM20.140.RBG01EMN	13,9			49,4	104,6				
APM20.160.RBG01EMN	16,0			51,1	107,5				
APM20.190.RBG01EMN	19,2			59,6	124,5	20	40		
APM20.220.RBG01EMN	21,9	210	2500	61,7	128,9				
APM20.250.RBG01EMN	24,8	190		64,2	134,0				
APM20.280.RBG01EMN	27,9	170	2200	66,4	138,3				
APM20.320.RBG01EMN	32,0	160	2000	70,0	144,4				
APM20.340.RBG01EMN	34,0	150		71,5	147,4				
APM20.380.RBG01EMN	38,0	140	1750	74,8	153,9				
APM20.400.RBG01EMN	40,0			76,5	157,4				

C Ön Kapak / Front Cover

E Şaft Tipi / Shaft Type

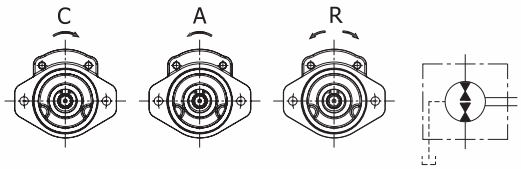


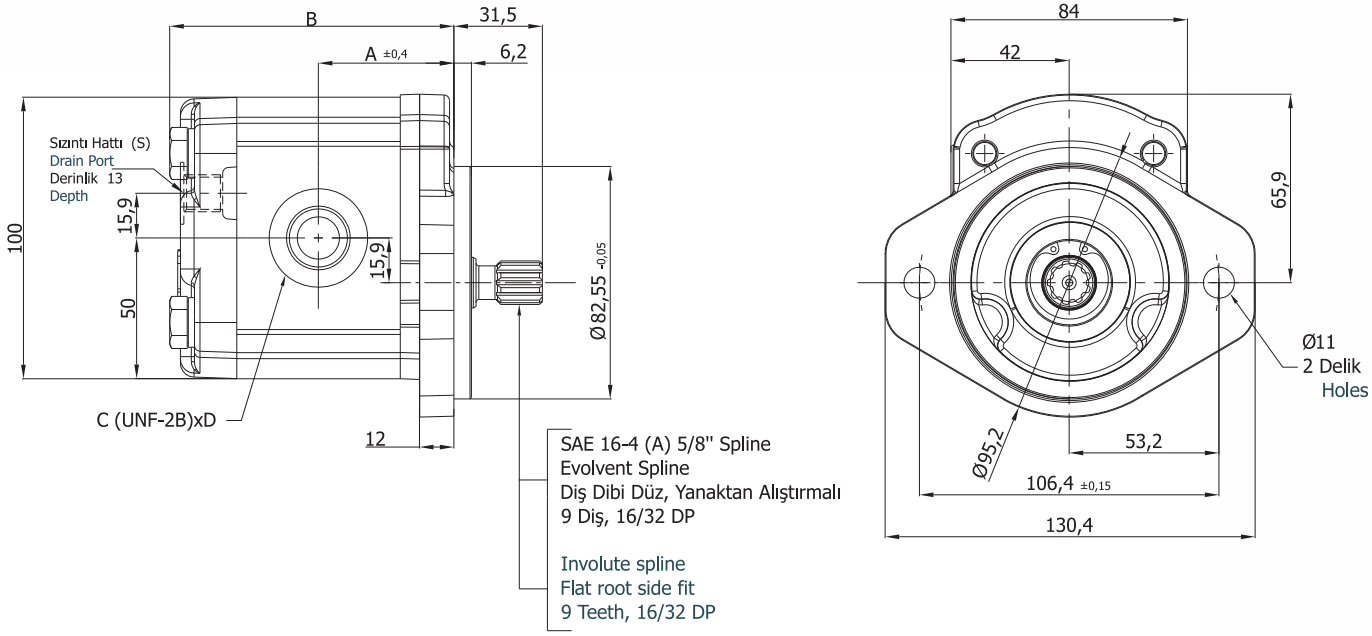


Motor Tipi / Motor Type	İletim Hacmi / Displacement cm³/dev(cm³/rev)	Maks. Basınç / Max. Pressure (bar)	Maks. Hız / Max. Speed d/d (rpm)	A ±0,4	B	Giriş/Çıkış – Inlet/Outlet			Sızıntı - Drain
						C	D	E	S
APM20.040.RCE01EMN	3,9	250	3500	41,6	88,7	15	35	M6	M12x1,5
APM20.060.RCE01EMN	5,9			43,2	91,8				
APM20.080.RCE01EMN	8,0			44,8	95,0				
APM20.095.RCE01EMN	9,4			45,9	97,3				
APM20.115.RCE01EMN	11,4		3000	47,6	100,4				
APM20.140.RCE01EMN	13,9			49,4	104,6				
APM20.160.RCE01EMN	16,0			51,1	107,5				
APM20.190.RCE01EMN	19,2			59,6	124,5	20	40		
APM20.220.RCE01EMN	21,9	210	2500	61,7	128,9				
APM20.250.RCE01EMN	24,8	190		64,2	134,0				
APM20.280.RCE01EMN	27,9	170	2200	66,4	138,3				
APM20.320.RCE01EMN	32,0	160	2000	70,0	144,4				
APM20.340.RCE01EMN	34,0	150		71,5	147,4				
APM20.380.RCE01EMN	38,0	140	1750	74,8	153,9				
APM20.400.RCE01EMN	40,0			76,5	157,4				

D Ön Kapak
Front Cover

C Şaft Tipi
Shaft Type

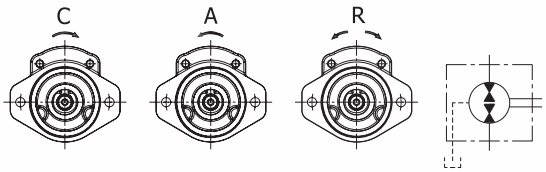


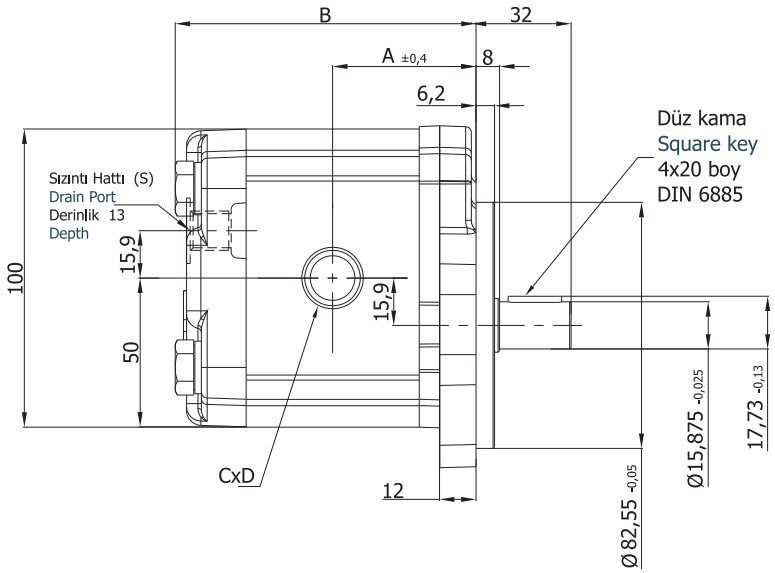


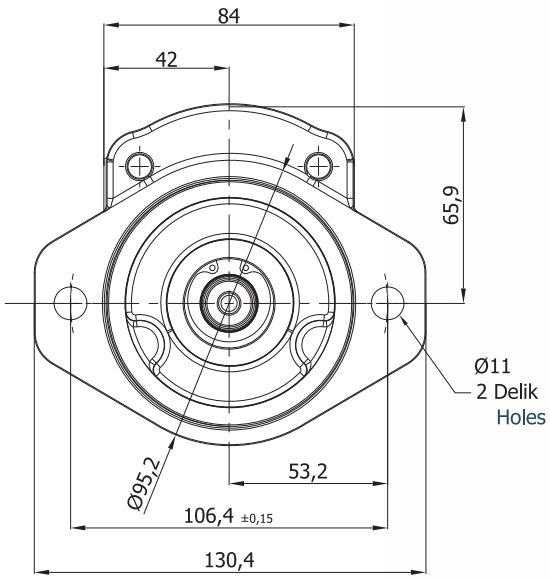
Motor Tipi Motor Type	İletim Hacmi Displacement $cm^3/dev(cm^3/rev)$	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş/Çıkış – Inlet/Outlet		Sızıntı - Drain
						C	D	S
APM20.040.RDC04EUN	3,9	250	3500	42,2	89,3	7/8-14 UNF	15	7/16-20 UNF
APM20.060.RDC04EUN	5,9			43,8	92,4			
APM20.080.RDC04EUN	8,0			45,4	95,6			
APM20.095.RDC04EUN	9,4			46,5	97,9			
APM20.115.RDC04EUN	11,4		3000	48,2	101,0			
APM20.140.RDC04EUN	13,9			50,0	105,0			
APM20.160.RDC04EUN	16,0			51,7	108,1			
APM20.190.RDC04EUN	19,2			60,2	125,1	1 1/16-12 UNF	20	
APM20.220.RDC04EUN	21,9	210	2500	62,3	129,5			
APM20.250.RDC04EUN	24,8	190		64,8	134,6			
APM20.280.RDC04EUN	27,9	170	2200	67,0	138,9			
APM20.320.RDC04EUN	32,0	160	2000	70,0	145,0			
APM20.340.RDC04EUN	34,0	150		71,5	148,0			
APM20.380.RDC04EUN	38,0	140	1750	74,8	154,5			
APM20.400.RDC04EUN	40,0			76,5	158,0			

D Ön Kapak / Front Cover

H Şaft Tipi / Shaft Type



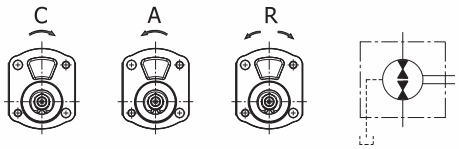


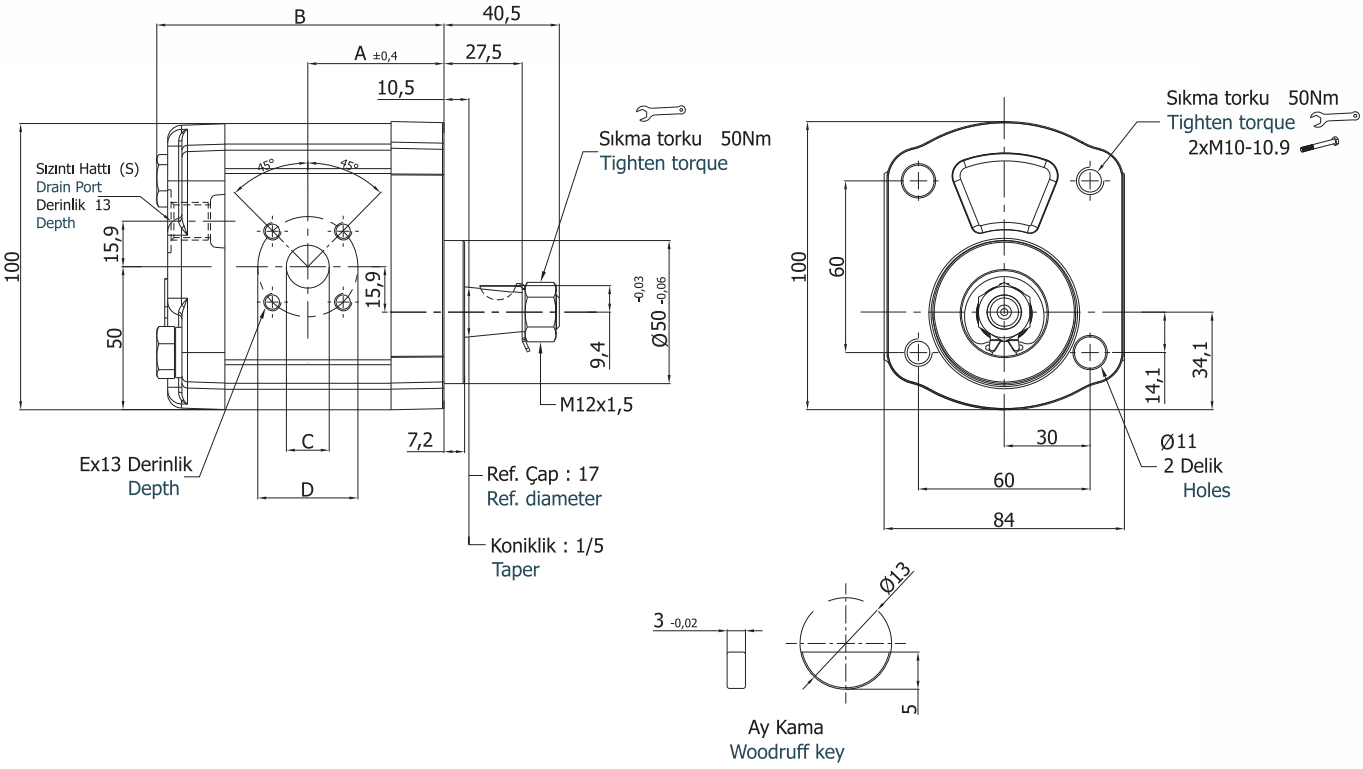


Motor Tipi Motor Type	İletim Hacmi Displacement $cm^3/dev(cm^3/rev)$	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş/Çıkış – Inlet/Outlet		Sızıntı - Drain
						C	D	S
APM20.040.RDH05EUN	3,9	250	3500	42,2	89,3	G1/2	15	7/16-20 UNF
APM20.060.RDH05EUN	5,9			43,8	92,4			
APM20.080.RDH05EUN	8,0			45,4	95,6			
APM20.095.RDH05EUN	9,4			46,5	97,9			
APM20.115.RDH05EUN	11,4		3000	48,2	101,0			
APM20.140.RDH05EUN	13,9			50,0	105,0			
APM20.160.RDH05EUN	16,0			51,7	108,1			
APM20.190.RDH05EUN	19,2			60,2	125,1	G3/4	20	
APM20.220.RDH05EUN	21,9	210	2500	62,3	129,5			
APM20.250.RDH05EUN	24,8	190		64,8	134,6			
APM20.280.RDH05EUN	27,9	170	2200	67,0	138,9			
APM20.320.RDH05EUN	32,0	160	2000	70,0	145,0			
APM20.340.RDH05EUN	34,0	150		71,5	148,0			
APM20.380.RDH05EUN	38,0	140	1750	74,8	154,5			
APM20.400.RDH05EUN	40,0			76,5	158,0			

E Ön Kapak / Front Cover

A Şaft Tipi / Shaft Type

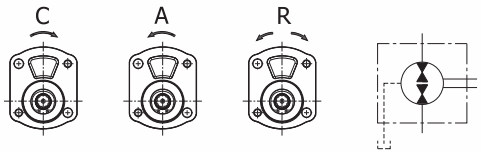


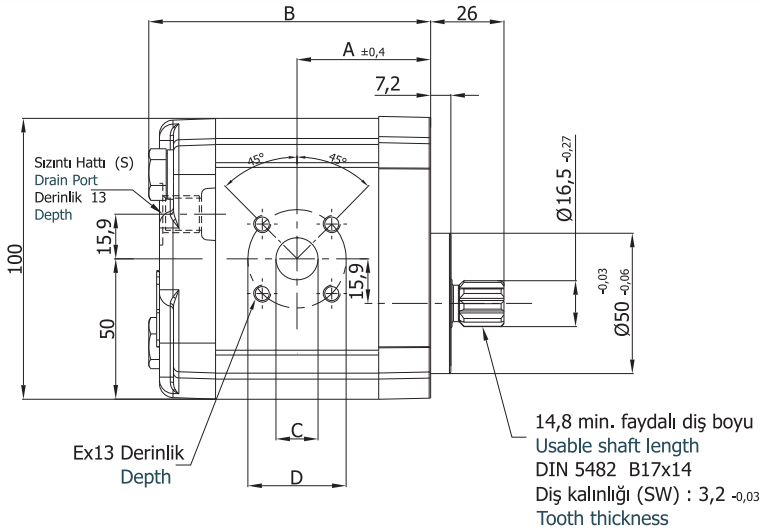


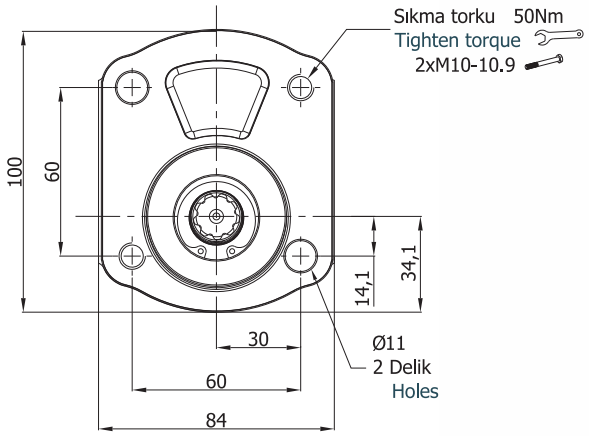
Motor Tipi Motor Type	İletim Hacmi Displacement $cm^3/dev(cm^3/rev)$	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş/Çıkış – Inlet/Outlet			Sızıntı - Drain
						C	D	E	S
APM20.040.REA01EGN	3,9	250	3500	41,6	88,7	15	35	M6	G1/4
APM20.060.REA01EGN	5,9			43,2	91,8				
APM20.080.REA01EGN	8,0			44,8	95,0				
APM20.095.REA01EGN	9,4			45,9	97,3				
APM20.115.REA01EGN	11,4		3000	47,6	100,4				
APM20.140.REA01EGN	13,9			49,4	104,6				
APM20.160.REA01EGN	16,0			51,1	107,5				
APM20.190.REA01EGN	19,2			59,6	124,5	20	40		
APM20.220.REA01EGN	21,9	210	2500	61,7	128,9				
APM20.250.REA01EGN	24,8	190		64,2	134,0				
APM20.280.REA01EGN	27,9	170	2200	66,4	138,3				
APM20.320.REA01EGN	32,0	160	2000	70,0	144,4				
APM20.340.REA01EGN	34,0	150		71,5	147,4				
APM20.380.REA01EGN	38,0	140	1750	74,8	153,9				
APM20.400.REA01EGN	40,0			76,5	157,4				

E Ön Kapak
Front Cover

G Şaft Tipi
Shaft Type



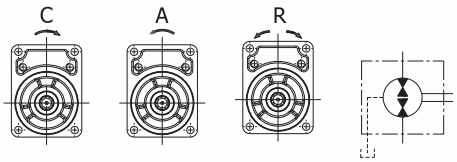


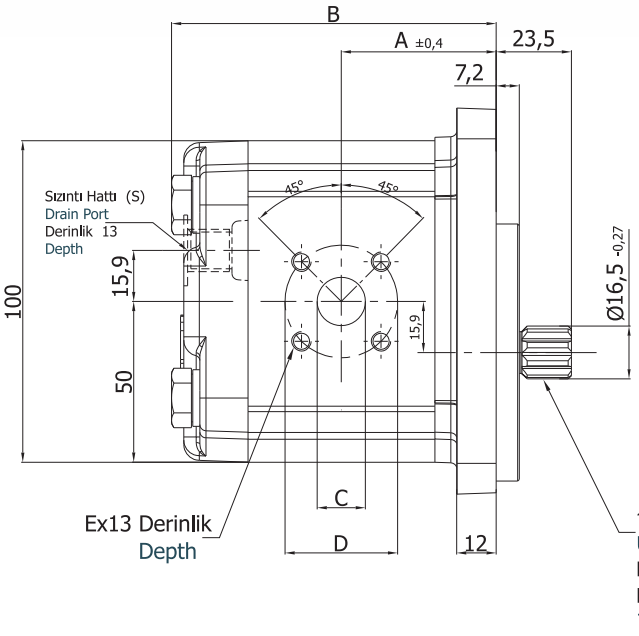


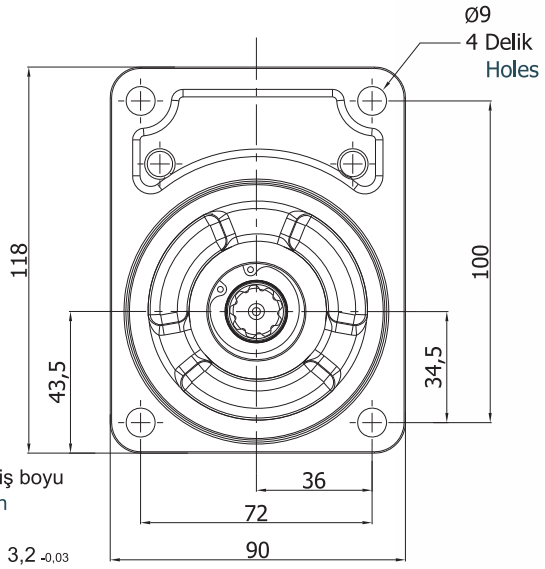
Motor Tipi Motor Type	İletim Hacmi Displacement $cm^3/dev(cm^3/rev)$	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş/Çıkış – Inlet/Outlet			Sızıntı - Drain
						C	D	E	S
APM20.040.REG01EGN	3,9	250	3500	41,6	88,7	15	35	M6	G1/4
APM20.060.REG01EGN	5,9			43,2	91,8				
APM20.080.REG01EGN	8,0			44,8	95,0				
APM20.095.REG01EGN	9,4			45,9	97,3				
APM20.115.REG01EGN	11,4		3000	47,6	100,4				
APM20.140.REG01EGN	13,9			49,4	104,6				
APM20.160.REG01EGN	16,0			51,1	107,5				
APM20.190.REG01EGN	19,2			59,6	124,5	20	40		
APM20.220.REG01EGN	21,9	210	2500	61,7	128,9				
APM20.250.REG01EGN	24,8	190		64,2	134,0				
APM20.280.REG01EGN	27,9	170	2200	66,4	138,3				
APM20.320.REG01EGN	32,0	160	2000	70,0	144,4				
APM20.340.REG01EGN	34,0	150		71,5	147,4				
APM20.380.REG01EGN	38,0	140	1750	74,8	153,9				
APM20.400.REG01EGN	40,0			76,5	157,4				

G Ön Kapak Front Cover

G Şaft Tipi Shaft Type



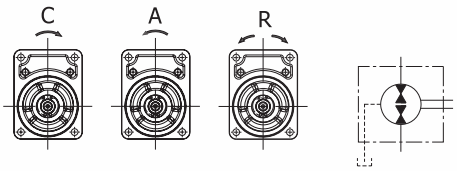


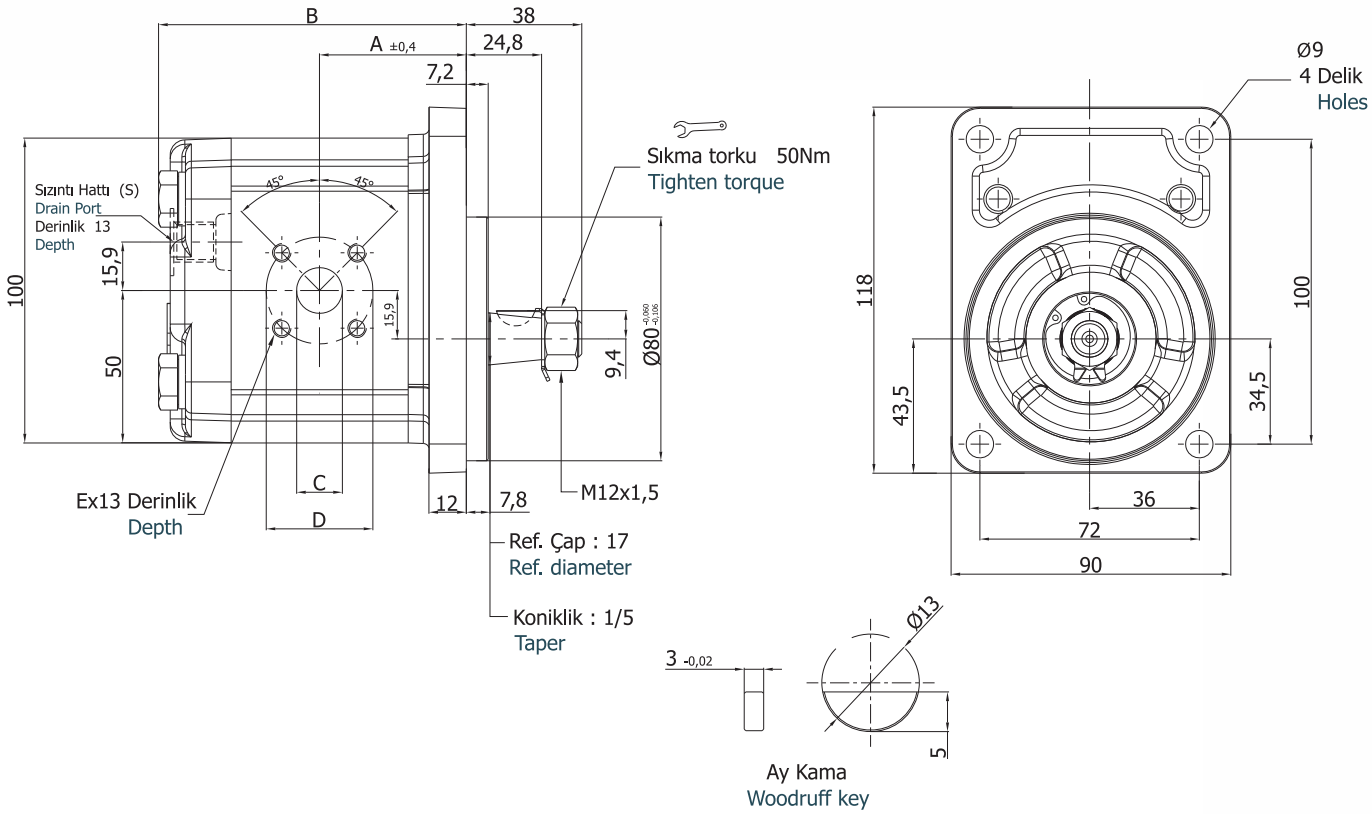


Motor Tipi Motor Type	İletim Hacmi Displacement $cm^3/dev(cm^3/rev)$	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş/Çıkış – Inlet/Outlet			Sızıntı - Drain
						C	D	E	S
APM20.040.RGG01EMN	3,9	250	3500	42,2	89,3	15	35	M6	M12x1,5
APM20.060.RGG01EMN	5,9			43,8	92,4				
APM20.080.RGG01EMN	8,0			45,4	95,6				
APM20.095.RGG01EMN	9,4			46,5	97,9				
APM20.115.RGG01EMN	11,4		3000	48,2	101,0				
APM20.140.RGG01EMN	13,9			50,0	105,0				
APM20.160.RGG01EMN	16,0			51,7	108,1				
APM20.190.RGG01EMN	19,2			60,2	125,1	20	40		
APM20.220.RGG01EMN	21,9	210	2500	62,3	129,5				
APM20.250.RGG01EMN	24,8	190		64,8	134,6				
APM20.280.RGG01EMN	27,9	170	2200	67,0	138,9				
APM20.320.RGG01EMN	32,0	160	2000	70,0	145,0				
APM20.340.RGG01EMN	34,0	150		71,5	148,0				
APM20.380.RGG01EMN	38,0	140	1750	74,8	154,5				
APM20.400.RGG01EMN	40,0			76,5	158,0				

G Ön Kapak / Front Cover

L Şaft Tipi / Shaft Type

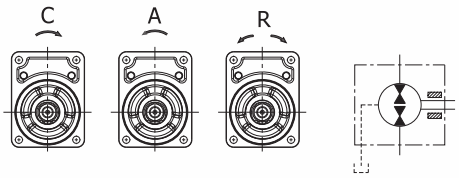


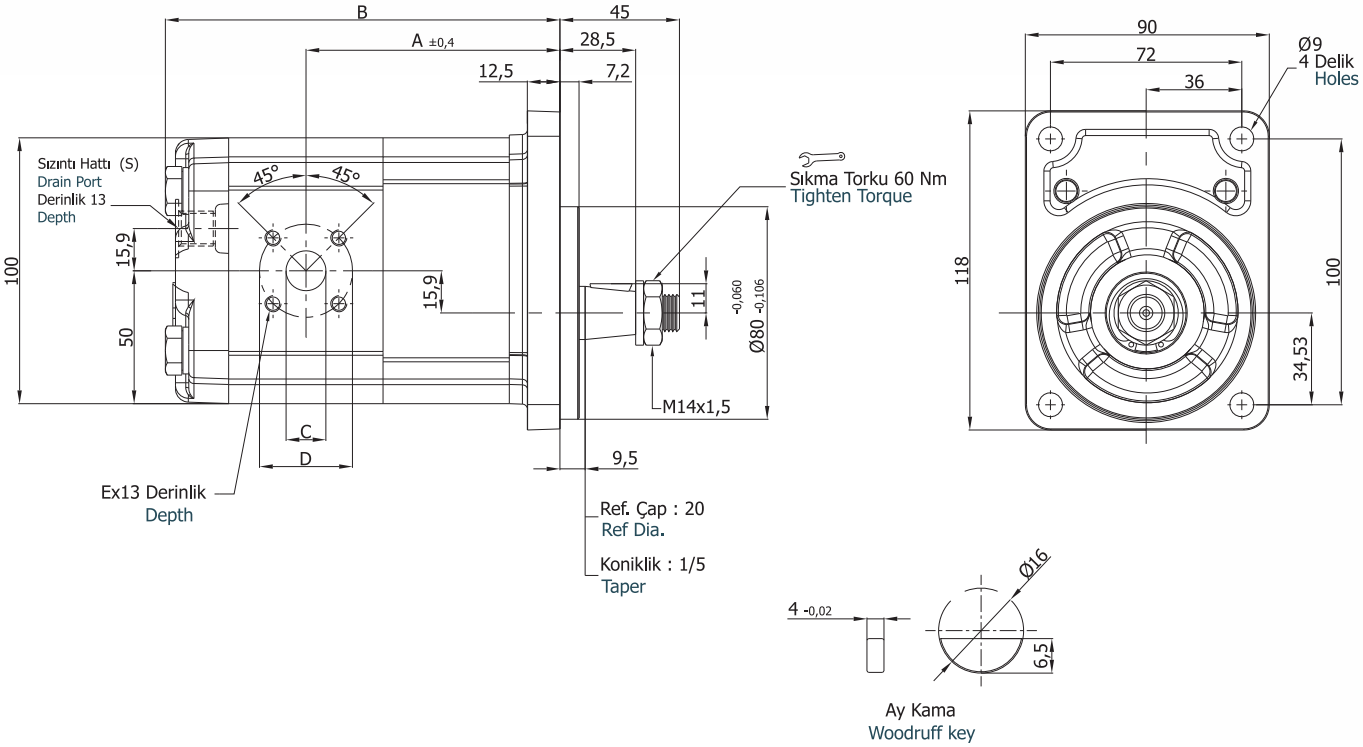


Motor Tipi Motor Type	İletim Hacmi Displacement $cm^3/dev(cm^3/rev)$	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş/Çıkış – Inlet/Outlet			Sızıntı - Drain
						C	D	E	S
APM20.040.RGL01EMN	3,9	250	3500	42,2	89,3	15	35	M6	M12x1,5
APM20.060.RGL01EMN	5,9			43,8	92,4				
APM20.080.RGL01EMN	8,0			45,4	95,6				
APM20.095.RGL01EMN	9,4			46,5	97,9				
APM20.115.RGL01EMN	11,4		3000	48,2	101,0				
APM20.140.RGL01EMN	13,9			50,0	105,0				
APM20.160.RGL01EMN	16,0			51,7	108,1				
APM20.190.RGL01EMN	19,2			60,2	125,1				
APM20.220.RGL01EMN	21,9	210	2500	62,3	129,5	20	40		
APM20.250.RGL01EMN	24,8	190		64,8	134,6				
APM20.280.RGL01EMN	27,9	170	2200	67,0	138,9				
APM20.320.RGL01EMN	32,0	160	2000	70,0	145,0				
APM20.340.RGL01EMN	34,0	150		71,5	148,0				
APM20.380.RGL01EMN	38,0	140	1750	74,8	154,5				
APM20.400.RGL01EMN	40,0			76,5	158,0				

H Ön Kapak
Front Cover

K Şaft Tipi
Shaft Type

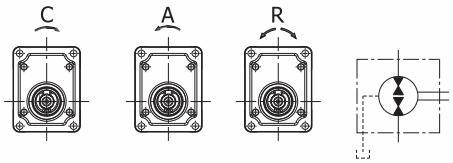


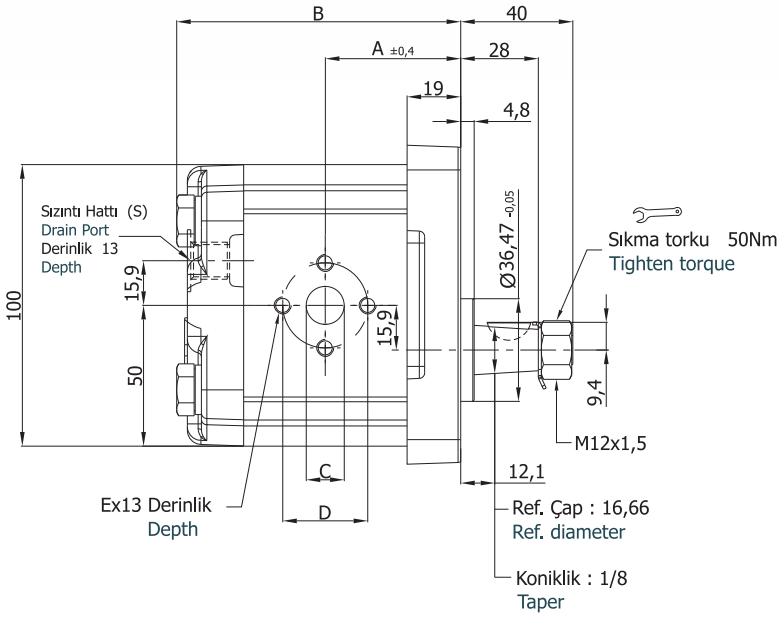


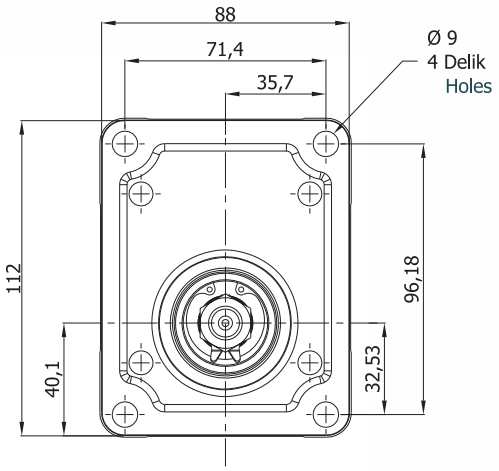
Motor Tipi Motor Type	İletim Hacmi Displacement $cm^3/dev(cm^3/rev)$	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş/Çıkış – Inlet/Outlet			Sızıntı - Drain
						C	D	E	S
APM20.040.RHK01EMON	3,9	250	3500	89,7	136,7	15	35	M6	M12x1,5
APM20.060.RHK01EMON	5,9			91,2	139,8				
APM20.080.RHK01EMON	8,0			92,8	142,9				
APM20.095.RHK01EMON	9,4			94,0	145,2				
APM20.115.RHK01EMON	11,4		3000	95,5	148,4				
APM20.140.RHK01EMON	13,9			97,5	152,3				
APM20.160.RHK01EMON	16,0	230		99,0	155,4				
APM20.190.RHK01EMON	19,2	190		107,5	172,4	20	40		
APM20.220.RHK01EMON	21,9	160	2500	109,7	176,8				
APM20.250.RHK01EMON	24,8	150		112,3	181,9				
APM20.280.RHK01EMON	27,9	130	2200	114,5	186,2				
APM20.320.RHK01EMON	32,0	160	2000	117,5	192,4				
APM20.340.RHK01EMON	34,0	150		119,0	195,4				
APM20.380.RHK01EMON	38,0	140	1750	122,3	201,9				
APM20.400.RHK01EMON	40,0			124,0	205,4				

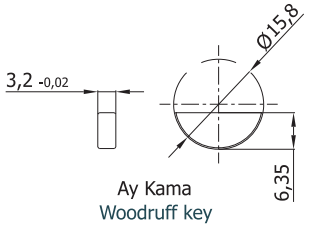
A Ön Kapak / Front Cover

B Şaft Tipi / Shaft Type





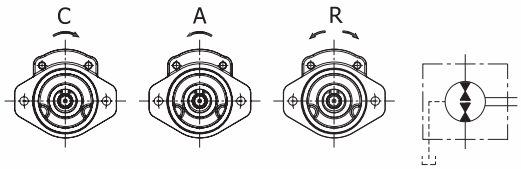


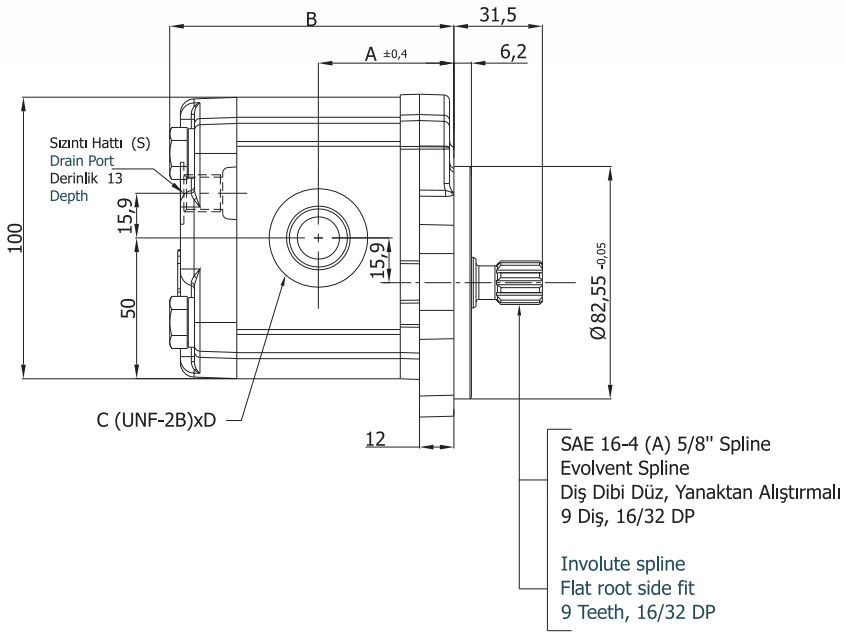


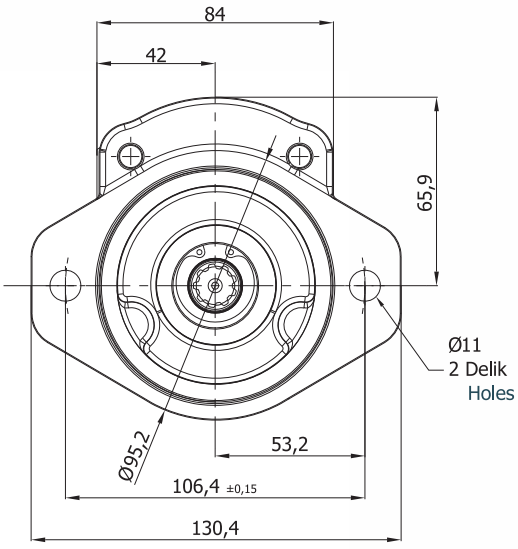
Motor Tipi / Motor Type	İletim Hacmi / Displacement cm³/dev(cm³/rev)	Maks. Basınç / Max. Pressure (bar)	Maks. Hız / Max. Speed d/d (rpm)	A ±0,4	B	Giriş/Çıkış – Inlet/Outlet			Sızıntı - Drain
						C	D	E	S
DKM20.040.RAB02EGN	3,9	280	3500	42,2	89,3	13,5	30,2	M6	G1/4
DKM20.060.RAB02EGN	5,9			43,8	92,4				
DKM20.080.RAB02EGN	8,0			45,4	95,6				
DKM20.095.RAB02EGN	9,4			46,5	97,9				
DKM20.115.RAB02EGN	11,4		3000	48,2	101,0				
DKM20.140.RAB02EGN	13,9			50,0	105,0				
DKM20.160.RAB02EGN	16,0			51,7	108,1				
DKM20.190.RAB02EGN	19,2			60,2	125,1	20	40	M8	
DKM20.220.RAB02EGN	21,9	240	2500	62,3	129,5				
DKM20.250.RAB02EGN	24,8	220		64,8	134,6				
DKM20.280.RAB02EGN	27,9	200	2200	67,0	138,9				

D Ön Kapak
Front Cover

C Şaft Tipi
Shaft Type



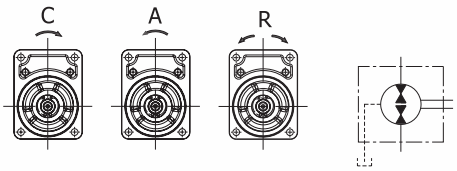


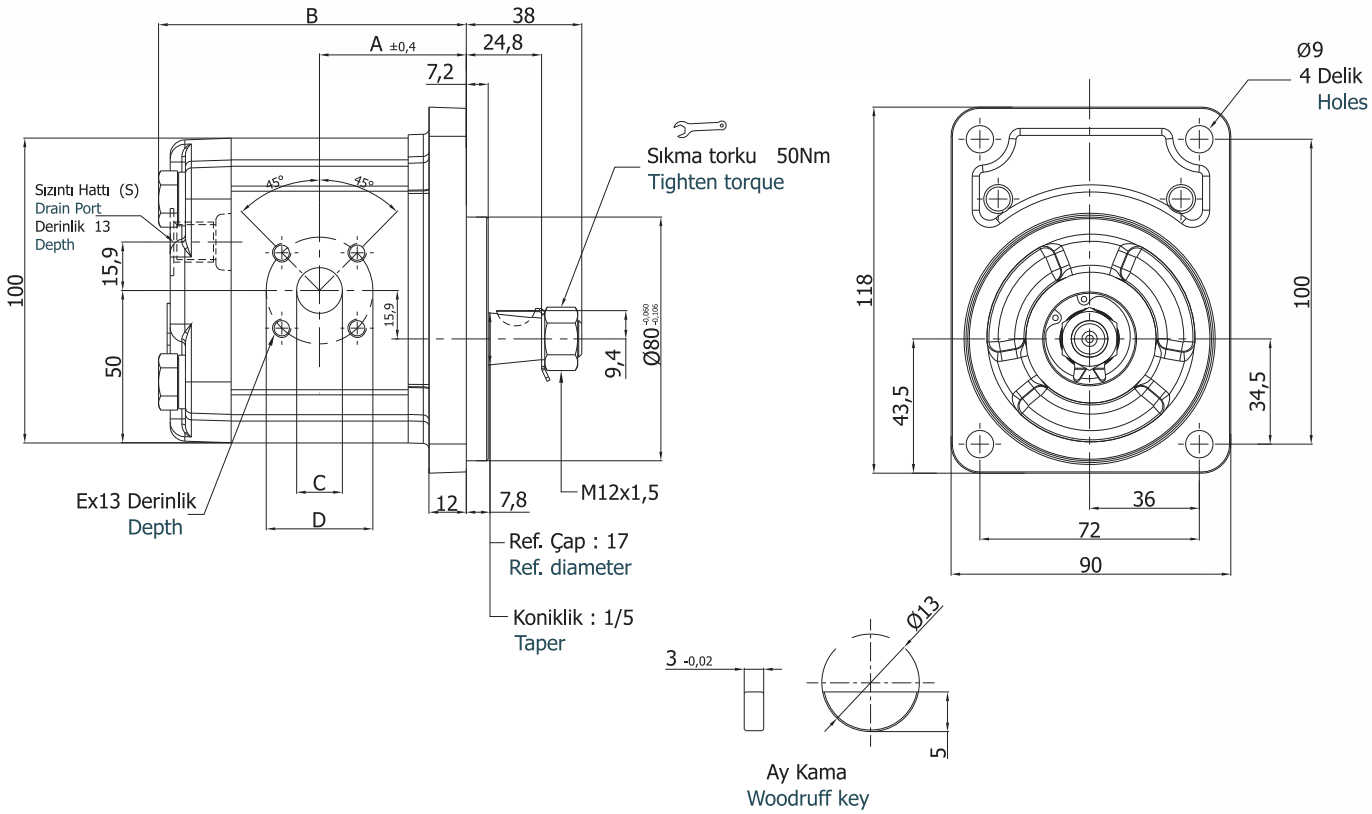


Motor Tipi Motor Type	İletim Hacmi Displacement $cm^3/dev(cm^3/rev)$	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş/Çıkış – Inlet/Outlet		Sızıntı - Drain
						C	D	S
DKM20.040.RDC04EUN	3,9	280	3500	42,2	89,3	7/8-14 UNF	15	7/16-20 UNF
DKM20.060.RDC04EUN	5,9			43,8	92,4			
DKM20.080.RDC04EUN	8,0			45,4	95,6			
DKM20.095.RDC04EUN	9,4			46,5	97,9			
DKM20.115.RDC04EUN	11,4		3000	48,2	101,0			
DKM20.140.RDC04EUN	13,9			50,0	105,0			
DKM20.160.RDC04EUN	16,0			51,7	108,1			
DKM20.190.RDC04EUN	19,2			60,2	125,1	1 1/16-12 UNF	20	
DKM20.220.RDC04EUN	21,9	240	2500	62,3	129,5			
DKM20.250.RDC04EUN	24,8	220		64,8	134,6			
DKM20.280.RDC04EUN	27,9	200	2200	67,0	138,9			

G Ön Kapak / Front Cover

L Şaft Tipi / Shaft Type

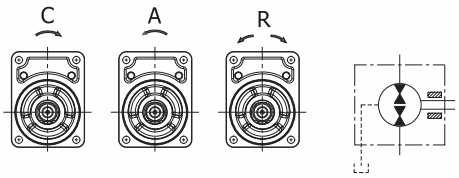


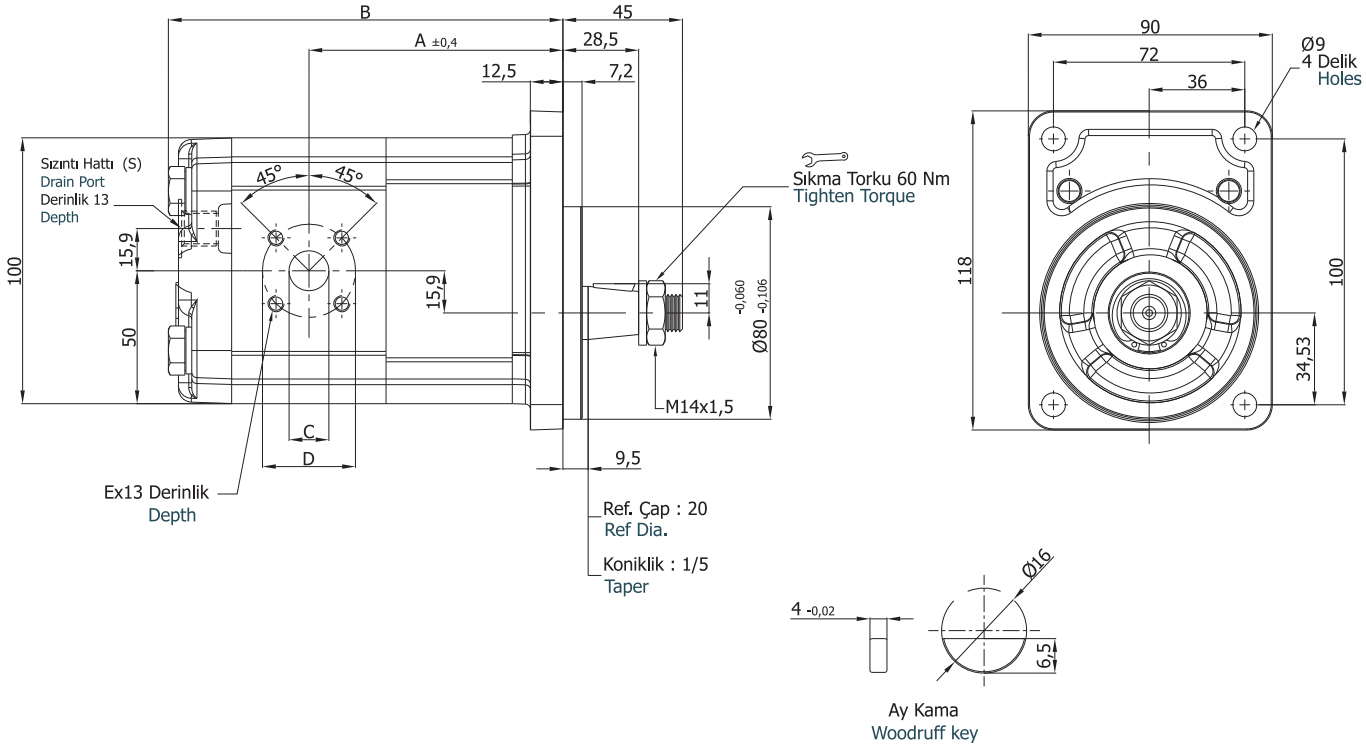


Motor Tipi Motor Type	İletim Hacmi Displacement $cm^3/dev(cm^3/rev)$	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş/Çıkış – Inlet/Outlet			Sızıntı - Drain
						C	D	E	S
DKM20.040.RGL01EMN	3,9	280	3500	42,2	89,3	15	35	M6	M12x1,5
DKM20.060.RGL01EMN	5,9			43,8	92,4				
DKM20.080.RGL01EMN	8,0			45,4	95,6				
DKM20.095.RGL01EMN	9,4			46,5	97,9				
DKM20.115.RGL01EMN	11,4		3000	48,2	101,0				
DKM20.140.RGL01EMN	13,9			50,0	105,0				
DKM20.160.RGL01EMN	16,0			51,7	108,1				
DKM20.190.RGL01EMN	19,2			60,2	125,1				
DKM20.220.RGL01EMN	21,9	240	2500	62,3	129,5				
DKM20.250.RGL01EMN	24,8	220		64,8	134,6				
DKM20.280.RGL01EMN	27,9	200	2200	67,0	138,9				

H Ön Kapak
Front Cover

K Şaft Tipi
Shaft Type





Motor Tipi Motor Type	İletim Hacmi Displacement $cm^3/dev(cm^3/rev)$	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş/Çıkış – Inlet/Outlet			Sızıntı - Drain
						C	D	E	S
DKM20.040.RHK01EMON	3,9	280	3500	89,7	136,7	15	35	M6	M12x1,5
DKM20.060.RHK01EMON	5,9			91,2	139,8				
DKM20.080.RHK01EMON	8,0			92,8	142,9				
DKM20.095.RHK01EMON	9,4			94,0	145,2				
DKM20.115.RHK01EMON	11,4		3000	95,5	148,4				
DKM20.140.RHK01EMON	13,9			97,5	152,3				
DKM20.160.RHK01EMON	16,0	260		99,0	155,4				
DKM20.190.RHK01EMON	19,2	220		107,5	172,4	20	40		
DKM20.220.RHK01EMON	21,9	190	2500	109,7	176,8				
DKM20.250.RHK01EMON	24,8	160		112,3	181,9				
DKM20.280.RHK01EMON	27,9		2200	114,5	186,2				

GRUP 30 MOTORLARIN KODLAMA SİSTEMİ
ORDERING CODE OF GROUP30 MOTORS

APM30 . 340 . R A B 02 E G O N

Motor Tipi / Motor Type

İletim Hacmi / Displacement cm³/dev (cm³/rev)

170 = 17 cm³/dev (cm³/rev)
220 = 22 cm³/dev (cm³/rev)
270 = 27 cm³/dev (cm³/rev)
320 = 32 cm³/dev (cm³/rev)
340 = 34 cm³/dev (cm³/rev)
380 = 38 cm³/dev (cm³/rev)
430 = 43 cm³/dev (cm³/rev)
470 = 47 cm³/dev (cm³/rev)
510 = 51 cm³/dev (cm³/rev)
560 = 56 cm³/dev (cm³/rev)
610 = 61 cm³/dev (cm³/rev)
730 = 73 cm³/dev (cm³/rev)
820 = 82 cm³/dev (cm³/rev)
900 = 90 cm³/dev (cm³/rev)
1000 = 100 cm³ /dev (cm³/rev)

Dönüş Yönü / Rotation

A = Sol dönüş / Counter-clockwise
C = Sağ dönüş / Clockwise
R = Çift dönüş / Reversible

Ön Yatak / Outboard Bearing

O	Var / Available
	Yok / Absent

Keçe / Seal

N	NBR
V	Viton

Sızıntı Hattı / Drain Line

G	G1/4"
U	7/16-20 UNF
M	M12x1,5

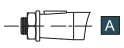
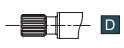
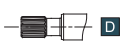
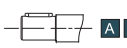
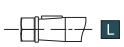
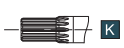
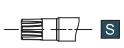
Arka Kapak / Rear Cover

S	Standart / Standard
E	Arkadan Giriş Çıkış / Rear Port
R1	Emniyet Valfi (10-90 Bar) / Relief Valve
R2	Emniyet Valfi (70-140 Bar) / Relief Valve
R3	Emniyet Valfi (120-190 Bar) / Relief Valve
D	Akış Bölücü Valf / Flow Divider Valve
H	Emniyet Valfli Akış Kontrol Valfi / Flow Control Valve With Relief Valve
L	Yük Duyarlı Valf / Load Sensing Valve
T	Çek Valf / Check Valve
P	Arkadan Giriş-Çıkış / Rear Inlet-Outlet
C	Basınç Kompansatörlü Akış Kontrol Valfi / Flow Control Valve Pressure Compensated

Ön Kapak / Front Cover

A	Dikdörtgen kapak / Square flange	Ø50,78 mm	
D	2 Civatalı SAEJ 744 101-2B / 2 Bolts SAEJ 744 101-2B	Ø101,6 mm	
G	Dikdörtgen kapak / Square flange	Ø105 mm	
H	2 Civatalı SAE ' A' / 2 Bolts SAE ' A'	Ø82,55 mm	
K	2 Civatalı SAE ' B' / 2 Bolts SAE ' B'	Ø101,6 mm	
L	Dikdörtgen kapak / Square flange	Ø60,3 mm	
S	3 Civatalı UNI Tipi / 3 Bolts UNI Type	Ø52 mm	
M	Dikdörtgen kapak / Square flange	Ø60 mm	
N	SAE 4 Civatalı / SAE 4 Bolts	Ø127 mm	

Tahrik şaftı / Drive Shaft

A	Konik - Kamalı / Tapered key shaft	1:5	 G
B	Konik - Kamalı / Tapered key shaft	1:8	 A
C	SAE spline şaft 13 diş / SAE spline shaft 13T		 D
D	SAE spline şaft 15 diş / SAE spline shaft 15T		 D
H	Paralel şaft / Parallel shaft		 A D
K	Konik - Kamalı / Tapered key shaft	1:8	 L
M	SAE spline şaft J498B 13 diş / SAE spline shaft J498B 13T		 K
P	Paralel şaft / Parallel shaft		 H
U	DIN 5463 spline şaft 6 diş / DIN 5463 spline shaft 6T		 S

Giriş - Çıkış Delikleri / Inlet and Outlet Ports

01		Kare tip / Rectangular
02		Baklava tip / Diamond
03		SAE Dikdörtgen Flanş Metrik diş / SAE Square Flange Thread Metric
04		UN-2B diş / UN-2B thread
05		Boru diş / Pipe thread
06		SAE Dikdörtgen Flanş UNC diş / SAE Square Flange Thread UNC

- Kodlama Örneği ; APM30.340.RAB02EGN
  Code Example

APM30 TEKNİK ÖZELLİKLER / APM30 TECHNICAL DATA

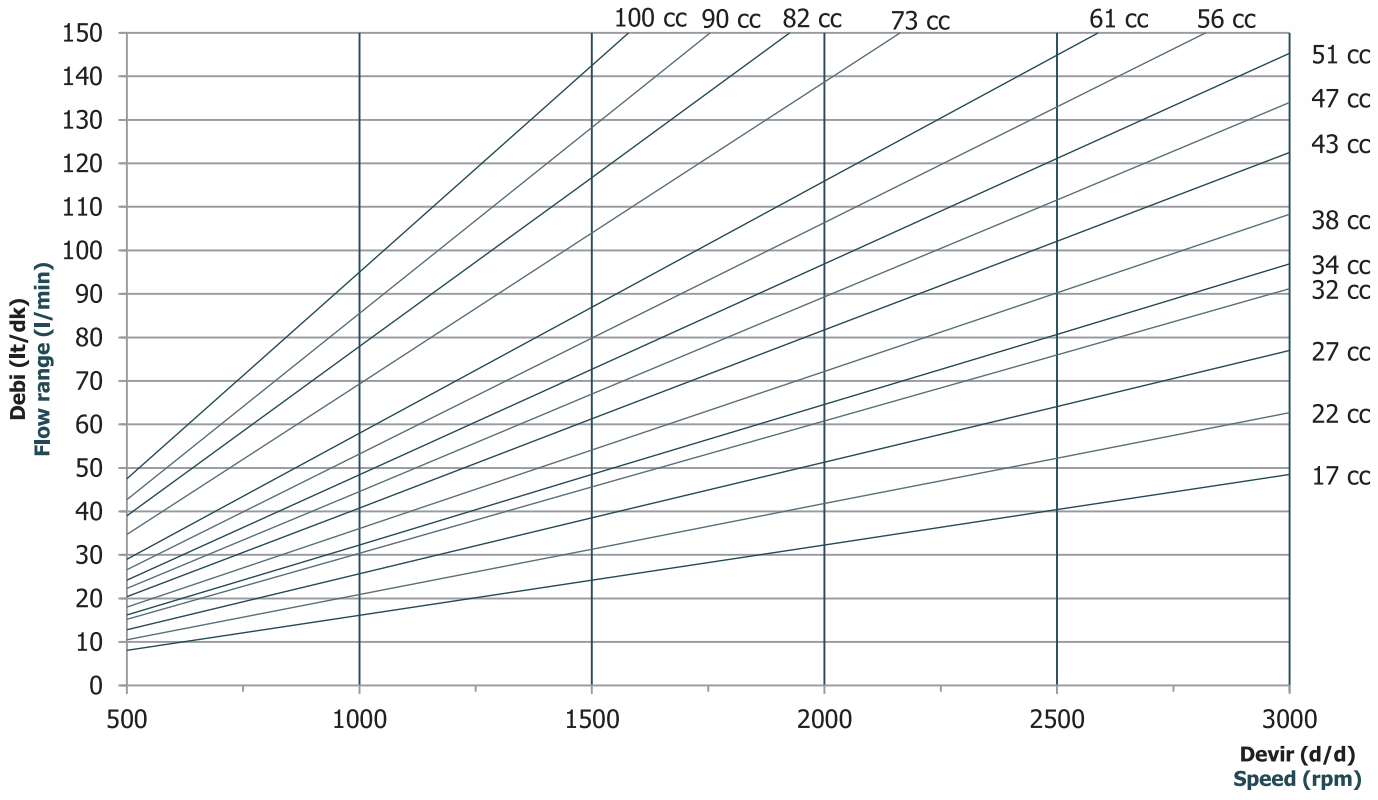
Motor Tipi Motor Type	İletim Hacmi Displacement $cm^3/dev(cm^3/rev)$	Maks. Basınç / Max. Pressure			Maks. Hız Max. Speed	Min. Hız Min. Speed
		P1	P2	P3		
		bar			d/d (rpm)	
APM30.170	17,0	250	270	290	3000	400
APM30.220	22,0	250	270	290	3000	400
APM30.270	27,0	250	270	290	3000	400
APM30.320	32,0	240	260	280	3000	400
APM30.340	34,0	240	260	280	3000	400
APM30.380	38,0	240	260	280	3000	400
APM30.430	43,0	230	250	270	3000	400
APM30.470	47,0	230	250	270	2500	400
APM30.510	51,0	210	230	250	2500	400
APM30.560	56,0	200	220	240	2500	400
APM30.610	61,0	180	200	220	2500	400
APM30.730	73,0	170	190	210	2500	400
APM30.820	82,0	160	180	200	2000	400
APM30.900	90,0	150	170	190	2000	400
APM30.1000	100,0	140	160	180	2000	400

P1: Sürekli çalışma basıncı
Continuous pressure

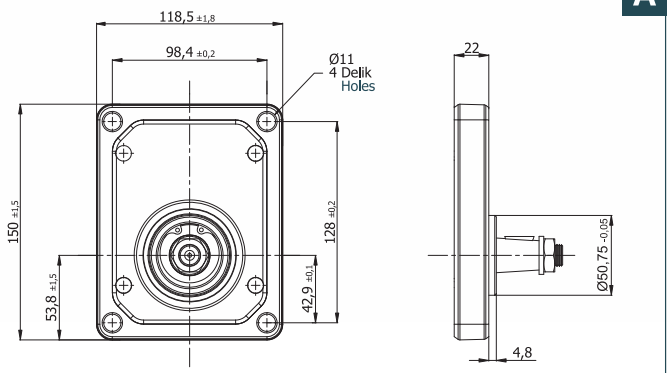
P2 : Aralıklı çalışma basıncı
Intermittent pressure

P3 : Ani basınç
Peak pressure

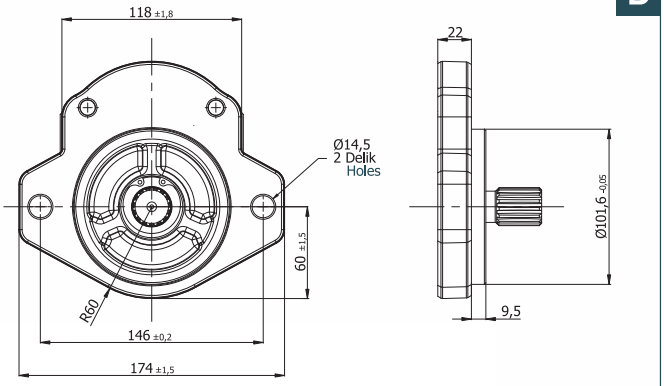
APM30 MOTORLARIN DEBİ EĞRİLERİ / FLOW CURVES OF APM30 MOTORS



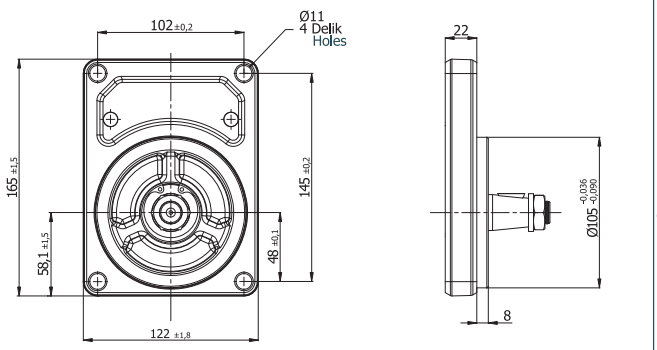
A


118,5 ±1,8
98,4 ±0,2
Ø11
4 Delik
Holes
150 ±1,5
128 ±0,2
53,8 ±1,5
42,9 ±0,1
22
Ø50,75 -0,05
4,8

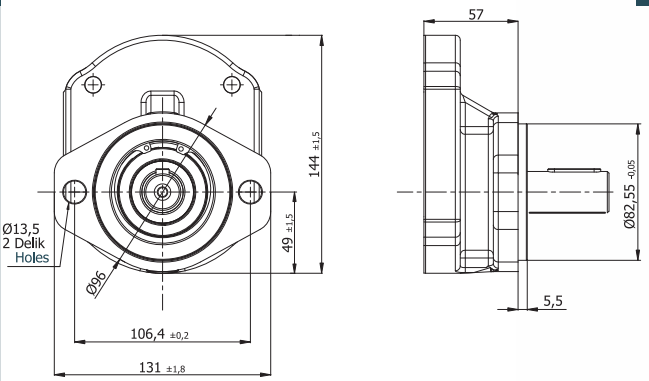
D


118 ±1,8
Ø14,5
2 Delik
Holes
60 ±1,5
R60
146 ±0,2
174 ±1,5
22
Ø101,6 -0,05
9,5

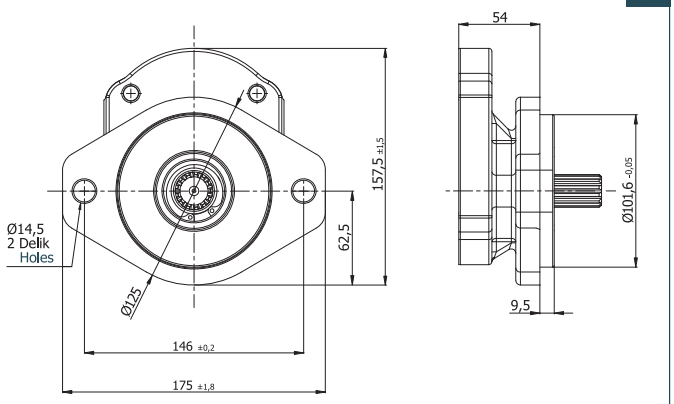
G


102 ±0,2
Ø11
4 Delik
Holes
165 ±1,5
145 ±0,2
58,1 ±1,5
48 ±0,1
122 ±1,8
22
Ø105 -0,036 -0,090
8

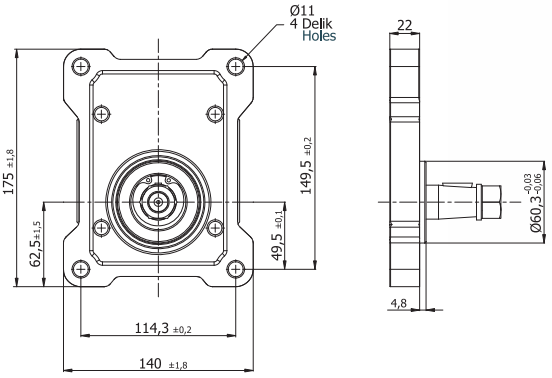
H


144 ±1,5
Ø13,5
2 Delik
Holes
49 ±1,5
Ø96
106,4 ±0,2
131 ±1,8
57
Ø82,55 -0,05
5,5

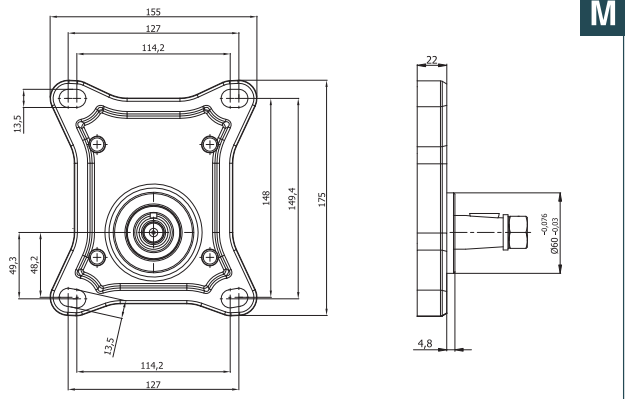
K


157,5 ±1,5
Ø14,5
2 Delik
Holes
62,5
Ø125
146 ±0,2
175 ±1,8
54
Ø101,6 -0,05
9,5

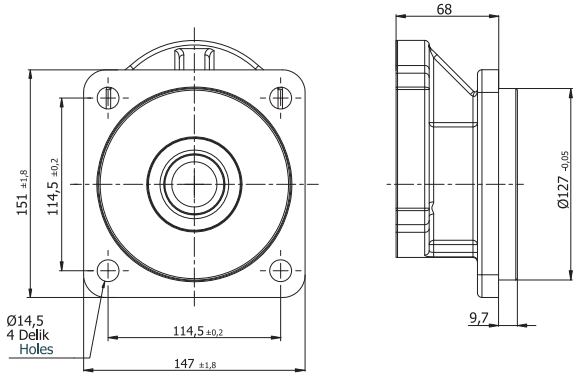
L


Ø11
4 Delik
Holes
175 ±1,8
149,5 ±0,2
62,5 ±1,5
49,5 ±0,1
114,3 ±0,2
140 ±1,8
22
Ø60,3 -0,03 -0,06
4,8

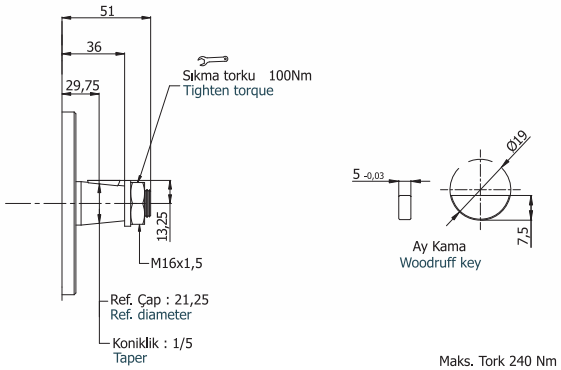
M


155
127
114,2
13,5
148
149,4
175
49,3
48,2
13,5
114,2
127
22
Ø60 -0,076 -0,03
4,8

N

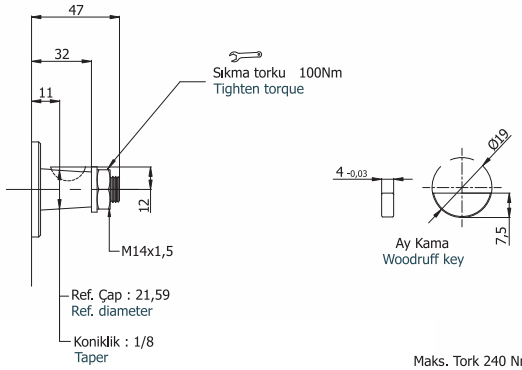

151 ±1,8
114,5 ±0,2
Ø14,5
4 Delik
Holes
114,5 ±0,2
147 ±1,8
68
Ø127 -0,05
9,7

A



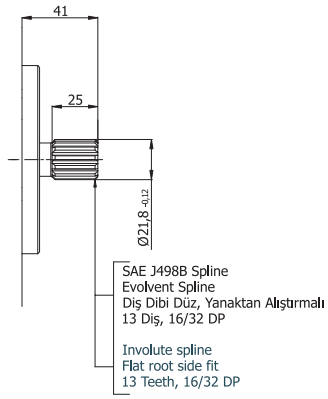
Maks. Tork 240 Nm
Max. Torque

B



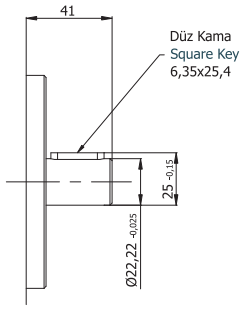
Maks. Tork 240 Nm
Max. Torque

C



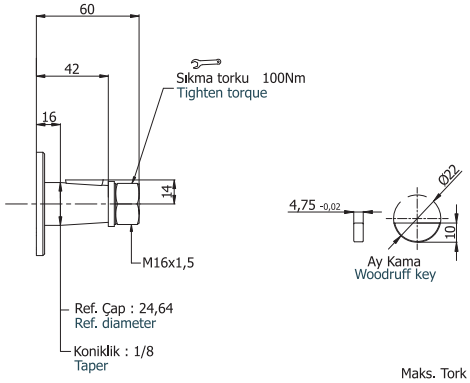
Maks. Tork 280 Nm
Max. Torque

H



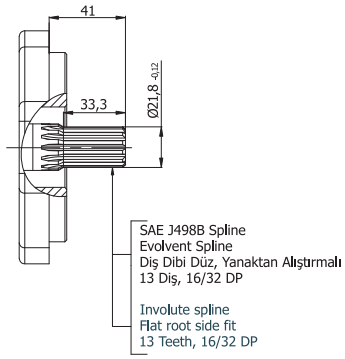
Maks. Tork 200 Nm
Max. Torque

K



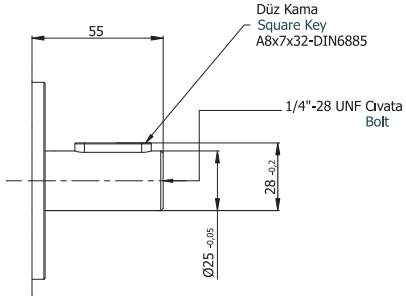
Maks. Tork 350 Nm
Max. Torque

M



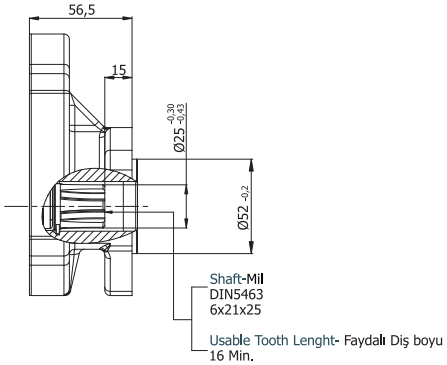
Maks. Tork 330 Nm
Max. Torque

P

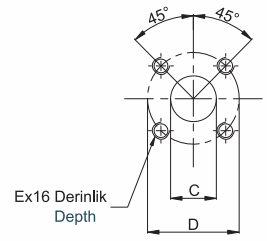


Maks. Tork 340 Nm
Max. Torque

U

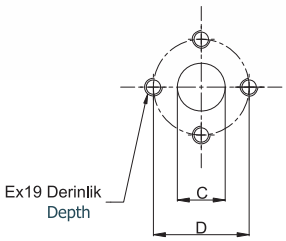


Maks. Tork 280 Nm
Max. Torque



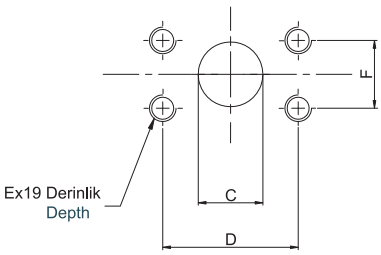
01 Kare Tipi Flanş / Rectangular Flange

Sipariş Kodu Ordering Code	İletim Hacmi Displacement cm³/dev (rev)	Emiş Tarafı Suction Side			Basınç Tarafı Pressure Side		
		C	D	E	c	d	e
	17 - 100	27	55	M8x16	19	55	M8x16
	17 - 32	19	55	M8x16	19	55	M8x16
	34 - 100	27			27		



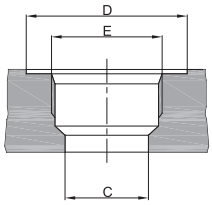
02 Baklava Tipi Flanş / Diamond Flange

Sipariş Kodu Ordering Code	İletim Hacmi Displacement cm³/dev (rev)	Emiş Tarafı Suction Side			Basınç Tarafı Pressure Side		
		C	D	E	c	d	e
	17 - 61	27	51	M10x19	19	40	M8x16
	73 - 100	33	62	M12x19	27	51	M10x19
	17 - 38	20	40	M8x16	20	40	M8x16
	43 - 90	27	51	M10x16	27	51	M10x16
	100	33	62	M12x19	33	62	M12x19



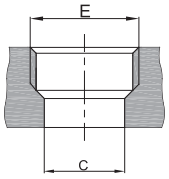
03 SAE Dikdörtgen Flanş Metrik Diş / SAE Square Flange Metric Thread

Sipariş Kodu Ordering Code	İletim Hacmi Displacement cm³/dev (rev)	Emiş Tarafı Suction Side				Basınç Tarafı Pressure Side			
		C	D	E	F	c	d	e	f
	17 - 22	19	47,6	M8x16	22,2	12,5	38,1	M8x16	17,5
	27 - 34	25,4	52,4	M10x19	26,2	19	47,6	M8x16	22,2
	38 - 51	30,5	58,7	M10x19	30,2	25,4	52,4	M10x19	26,2
	56 - 82	39,3	69,8	M12x19	35,7	30,5	58,7	M10x19	30,2
	90 - 100	51	77,8	M12x19	42,9	39,3	69,8	M12x19	35,7
	17 - 27	19	47,6	M10x19	22,2	19	47,6	M10x19	22,2
	32 - 43	25,4	52,4	M10x19	26,2	25,4	52,4	M10x19	26,2
	47 - 56	30,5	58,7	M10x19	30,2	30,5	58,7	M10x19	30,2
	61 - 100	39,3	69,8	M12x19	35,7	39,3	69,8	M12x19	35,7



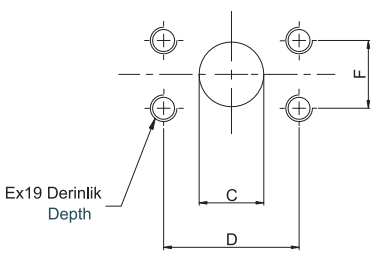
04 Diş / Thread (UN-2B) SAE Oring Boss

Sipariş Kodu Ordering Code	İletim Hacmi Displacement cm³/dev (rev)	Emiş Tarafı Suction Side			Basınç Tarafı Pressure Side		
		C	D	E	c	d	e
	17 - 34	30,5	49	1 5/16"-12 UN-2B	25	42	1 1/16"-12 UN-2B
	38 - 51	39	58	1 5/8"-12 UN-2B	30,5	49	1 5/16"-12 UN-2B
	56 - 100	45	65	1 7/8"-12 UN-2B	39	58	1 5/8"-12 UN-2B
	17 - 27	25	42	1 1/16"-12 UN-2B	25	42	1 1/16"-12 UN-2B
	32 - 47	30,5	49	1 5/16"-12 UN-2B	30,5	49	1 5/16"-12 UN-2B
	51 - 82	39	58	1 5/8"-12 UN-2B	39	58	1 5/8"-12 UN-2B
	90 - 100	45	65	1 7/8"-12 UN-2B	45	65	1 7/8"-12 UN-2B



05 Boru diş / Pipe Thread ISO228/1

Sipariş Kodu Ordering Code	İletim Hacmi Displacement cm³/dev (rev)	Emiş Tarafı Suction Side		Basınç Tarafı Pressure Side	
		C	E	c	e
	17 - 51	30,5	G 1"	30,5	G 1"
	56 - 73	39	G 1 1/4"		
	82 - 100	45	G 1 1/2"	39	G 1 1/4"
	17 - 61	30,5	G 1"	30,5	G 1"
	73 - 82	39	G 1 1/4"	39	G 1 1/4"
	90 - 100	45	G 1 1/2 "	45	G 1 1/2"

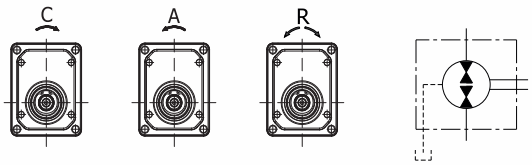


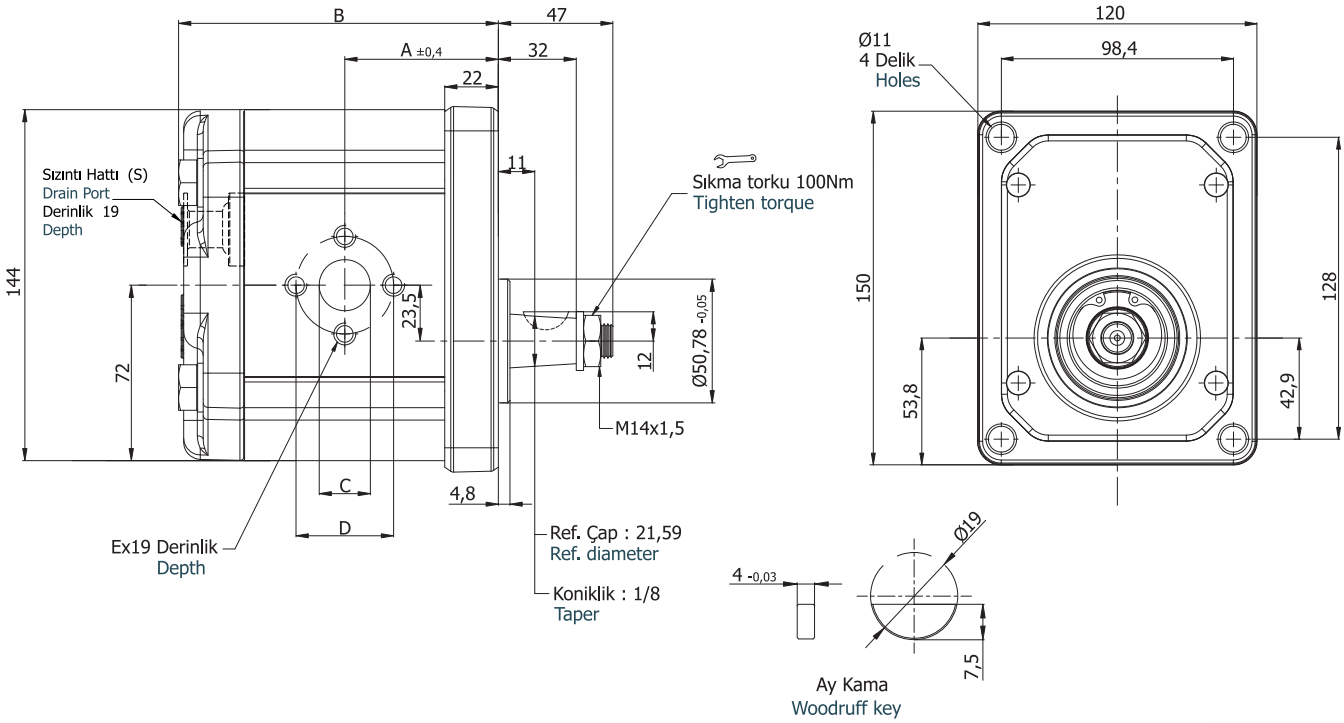
06 SAE Dikdörtgen Flanş UNC Diş / SAE Square Flange UNC Thread

Sipariş Kodu Ordering Code	İletim Hacmi Displacement cm³/dev (rev)	Emiş Tarafı Suction Side				Basınç Tarafı Pressure Side			
		C	D	E	F	c	d	e	f
	17 - 22	19	47,6	3/8-16 UNC-2B	22,2	12,5	38,1	5/16-18 UNC-2B	17,5
	27 - 34	25,4	52,4		26,2	19	52,4	3/8-16 UNC-2B	22,2
	38 - 51	30,5	58,7	7/16-14 UNC-2B	30,2	25,4	52,4		26,2
	56 - 82	39,3	69,8	1/2-13 UNC-2B	35,7	30,5	58,7	7/16-14 UNC-2B	30,2
	90 - 100	51	77,8		42,9	39,3	69,8	1/2-13 UNC-2B	35,7
	17 - 27	19	47,6	3/8-16 UNC-2B	22,2	19	47,6	3/8-16 UNC-2B	22,2
	32 - 43	25,4	52,4		26,2	25,4	52,4		26,2
	47 - 56	30,5	58,7	7/16-14 UNC-2B	30,2	30,5	58,7	7/16-14 UNC-2B	30,2
	90 - 100	39,3	69,8		35,7	39,3	69,8		35,7

A Ön Kapak / Front Cover

B Şaft Tipi / Shaft Type

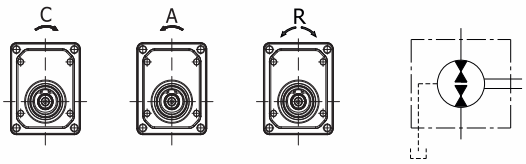


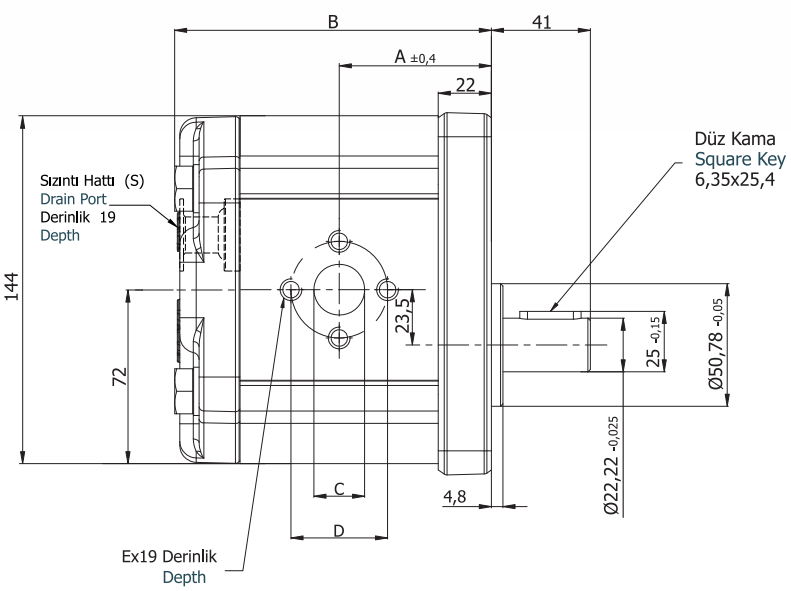


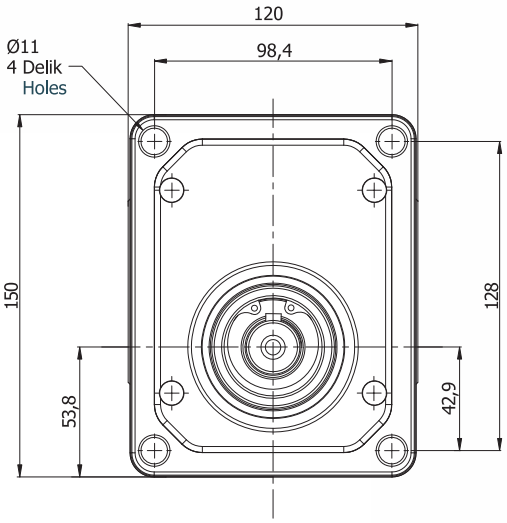
Motor Tipi Motor Type	İletim Hacmi Displacement $cm^3/dev(cm^3/rev)$	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş/Çıkış – İnlet/Outlet			Sızıntı - Drain
						C	D	E	S
APM30.170.RAB02EGN	17,0	250	3000	59,5	124,1	20	55	M8x16	G 3/8
APM30.220.RAB02EGN	22,0			61,5	128,1				
APM30.270.RAB02EGN	27,0			63,0	131,1				
APM30.320.RAB02EGN	32,0	240		64,5	134,1				
APM30.340.RAB02EGN	34,0			65,0	135,1				
APM30.380.RAB02EGN	38,0			66,5	138,1				
APM30.430.RAB02EGN	43,0	230		68,0	141,1	27			
APM30.470.RAB02EGN	47,0		2500	69,5	144,1				
APM30.510.RAB02EGN	51,0	210		70,5	146,1				
APM30.560.RAB02EGN	56,0	200		71,5	148,1				
APM30.610.RAB02EGN	61,0	180	1750	74,0	153,1				
APM30.730.RAB02EGN	73,0	170	1500	77,0	160,1				
APM30.820.RAB02EGN	82,0	160		80,0	166,1				
APM30.900.RAB02EGN	90,0	150		83,0	172,1				
APM30.1000.RAB02EGN	100,0	140		86,0	178,1	34			

A Ön Kapak
Front Cover

H Şaft Tipi
Shaft Type



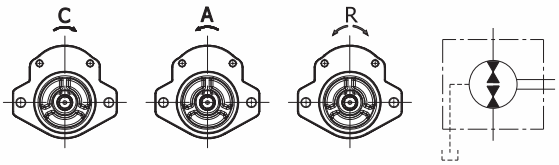


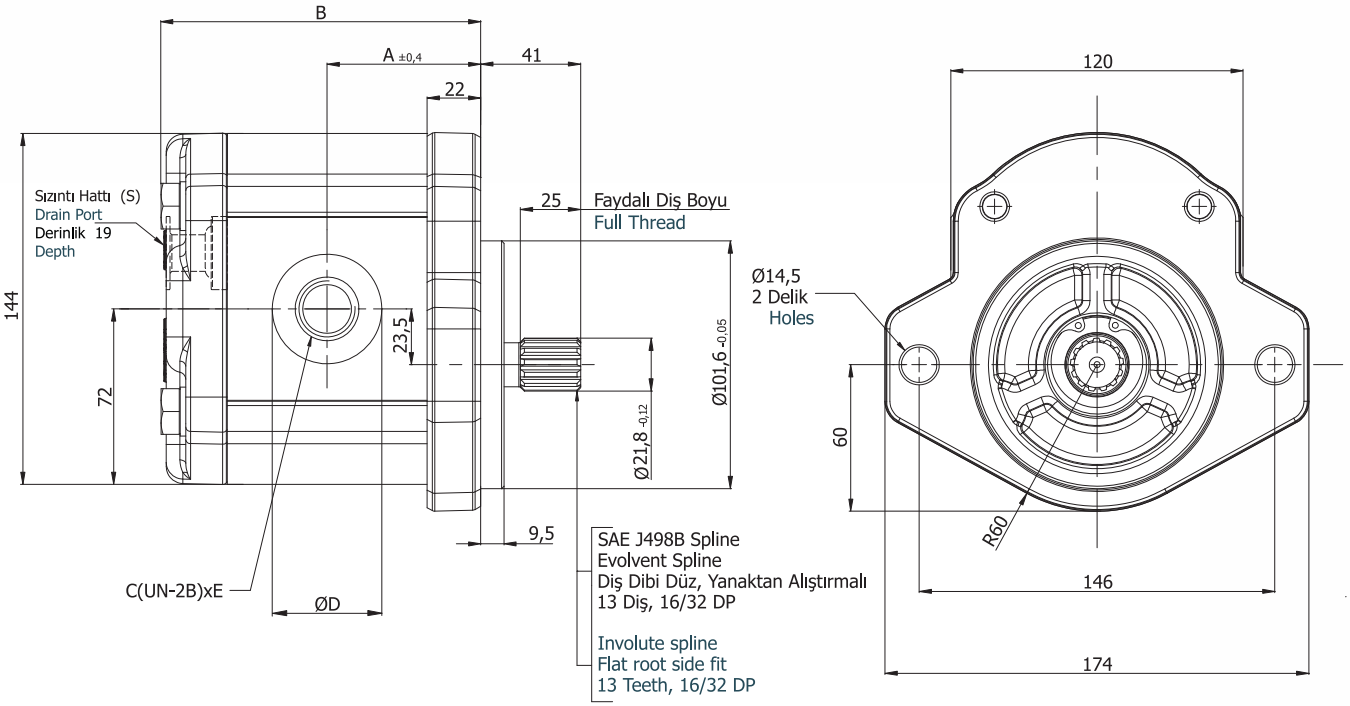


Motor Tipi Motor Type	İletim Hacmi Displacement $cm^3/dev(cm^3/rev)$	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş/Çıkış – Inlet/Outlet			Sızıntı - Drain
						C	D	E	S
APM30.170.RAH02EGN	17,0	250	3000	59,5	124,1	20	40	M8x16	G 3/8
APM30.220.RAH02EGN	22,0			61,5	128,1				
APM30.270.RAH02EGN	27,0			63,0	131,1				
APM30.320.RAH02EGN	32,0	240		64,5	134,1				
APM30.340.RAH02EGN	34,0			65,0	135,1				
APM30.380.RAH02EGN	38,0			66,5	138,1				
APM30.430.RAH02EGN	43,0	230		68,0	141,1	27	51	M8x16	
APM30.470.RAH02EGN	47,0		2500	69,5	144,1				
APM30.510.RAH02EGN	51,0	210		70,5	146,1				
APM30.560.RAH02EGN	56,0	200		71,5	148,1				
APM30.610.RAH02EGN	61,0	180	1750	74,0	153,1				
APM30.730.RAH02EGN	73,0	170	1500	77,0	160,1				
APM30.820.RAH02EGN	82,0	160		80,0	166,1				
APM30.900.RAH02EGN	90,0	150		83,0	172,1				
APM30.1000.RAH02EGN	100,0	140		86,0	178,1	33	62	M12x19	

D Ön Kapak Front Cover

C Şaft Tipi Shaft Type

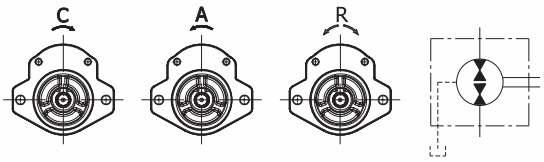


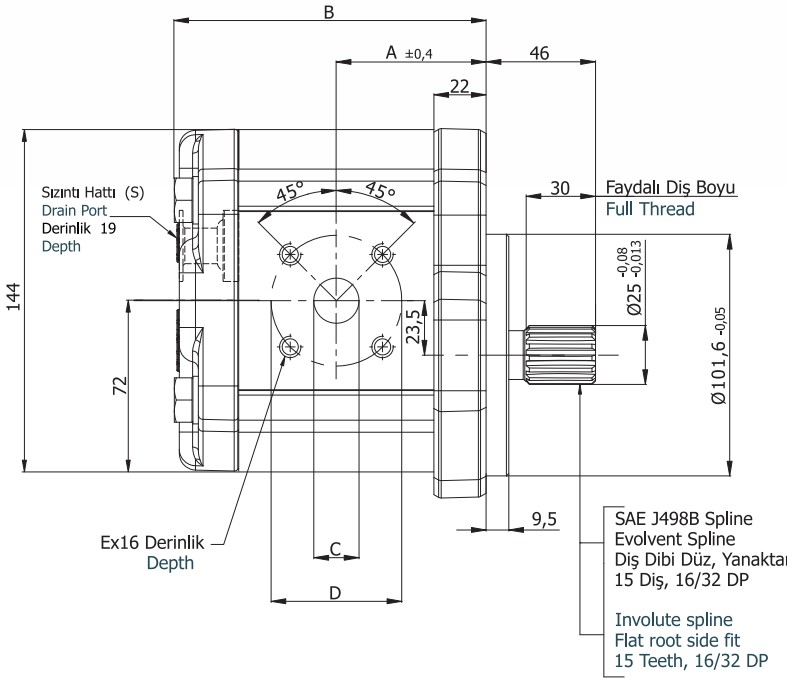


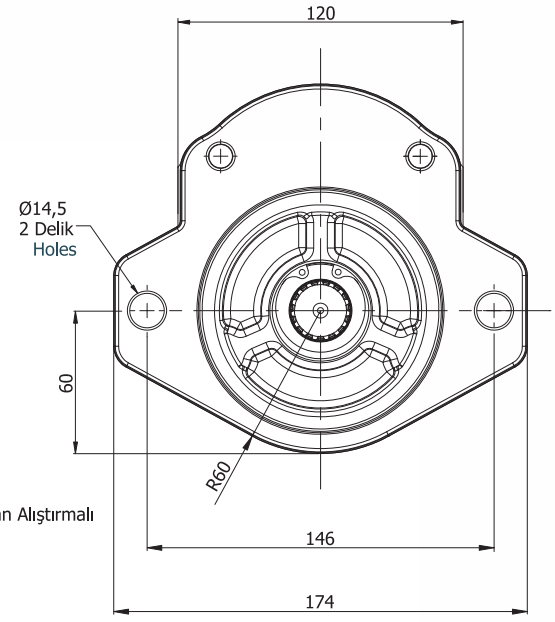
Motor Tipi Motor Type	İletim Hacmi Displacement $cm^3/dev(cm^3/rev)$	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş/Çıkış – İnlet/Outlet			Sızıntı - Drain
						C	D	E	S
APM30.170.RDC04EUN	17,0	250	3000	59,5	124,1	25	42	1 1/16"-12 UNF-2B	7/16-20 UNF
APM30.220.RDC04EUN	22,0			61,5	128,1				
APM30.270.RDC04EUN	27,0			63,0	131,1				
APM30.320.RDC04EUN	32,0	240		64,5	134,1	30,5	49	1 5/16"-12 UNF-2B	
APM30.340.RDC04EUN	34,0			65,0	135,1				
APM30.380.RDC04EUN	38,0			66,5	138,1				
APM30.430.RDC04EUN	43,0	230		68,0	141,1				
APM30.470.RDC04EUN	47,0		2500	69,5	144,1				
APM30.510.RDC04EUN	51,0	210		70,5	146,1	39	58	1 5/8"-12 UNF-2B	
APM30.560.RDC04EUN	56,0	200		71,5	148,1				
APM30.610.RDC04EUN	61,0	180	1750	74,0	153,1				
APM30.730.RDC04EUN	73,0	170	1500	77,0	160,1				
APM30.820.RDC04EUN	82,0	160		80,0	166,1				
APM30.900.RDC04EUN	90,0	150		83,0	172,1	45	65	1 7/8"-12 UNF-2B	
APM30.1000.RDC04EUN	100,0	140		86,0	178,1				

D Ön Kapak / Front Cover

D Şaft Tipi / Shaft Type



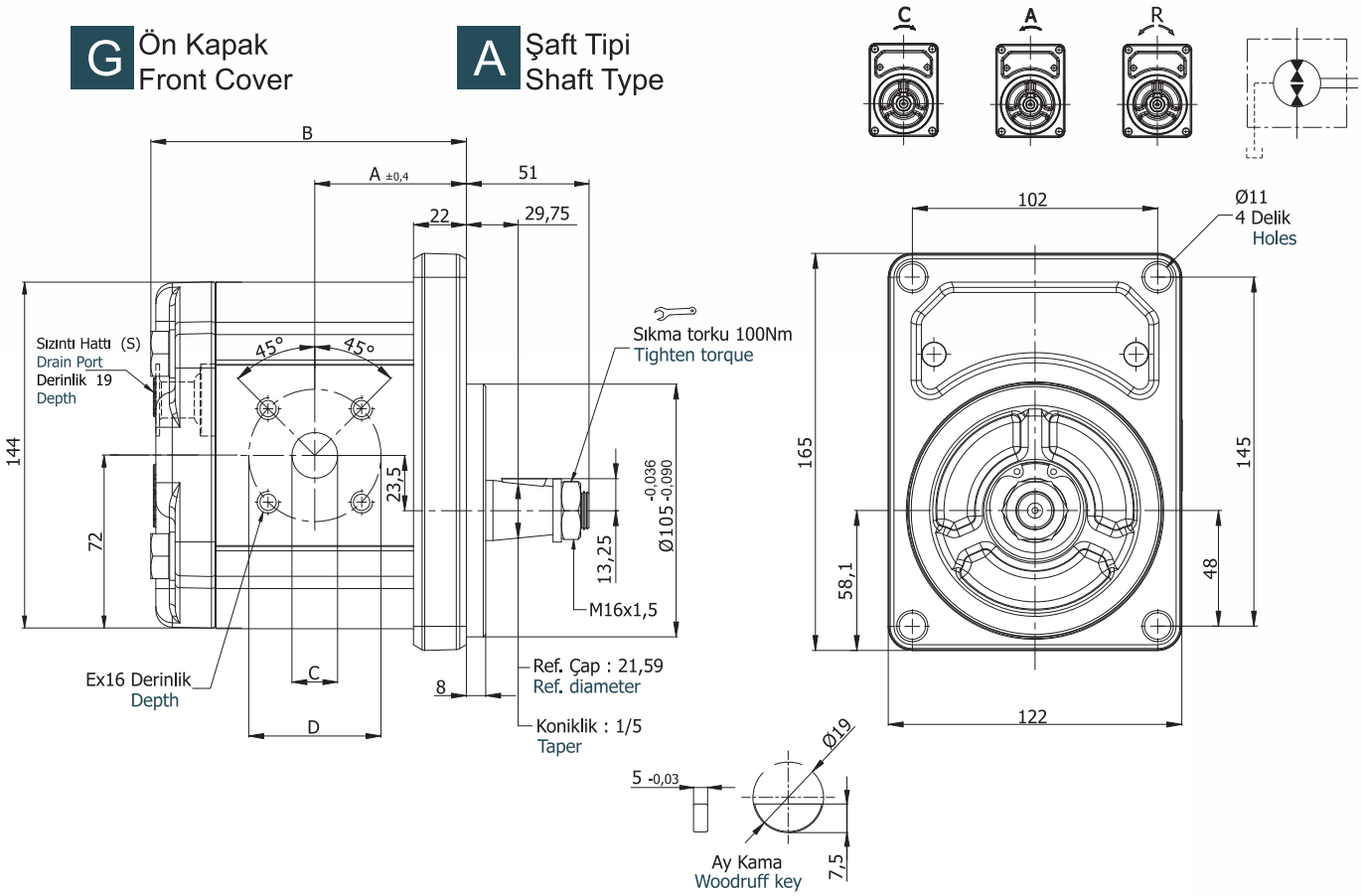




Motor Tipi Motor Type	İletim Hacmi Displacement $cm^3/dev(cm^3/rev)$	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş/Çıkış – Inlet/Outlet			Sızıntı - Drain
						C	D	E	S
APM30.170.RDD01EGN	17,0	250	3000	59,5	124,1	19	55	M8x16	G 3/8"
APM30.220.RDD01EGN	22,0			61,5	128,1				
APM30.270.RDD01EGN	27,0			63,0	131,1				
APM30.320.RDD01EGN	32,0	240		64,5	134,1	27			
APM30.340.RDD01EGN	34,0			65,0	135,1				
APM30.380.RDD01EGN	38,0			66,5	138,1				
APM30.430.RDD01EGN	43,0	230		68,0	141,1				
APM30.470.RDD01EGN	47,0		2500	69,5	144,1				
APM30.510.RDD01EGN	51,0	210		70,5	146,1				
APM30.560.RDD01EGN	56,0	200		71,5	148,1				
APM30.610.RDD01EGN	61,0	180	1750	74,0	153,1				
APM30.730.RDD01EGN	73,0	170	1500	77,0	160,1				
APM30.820.RDD01EGN	82,0	160		80,0	166,1				
APM30.900.RDD01EGN	90,0	150		83,0	172,1				
APM30.1000.RDD01EGN	100,0	140		86,0	178,1				

G Ön Kapak / Front Cover

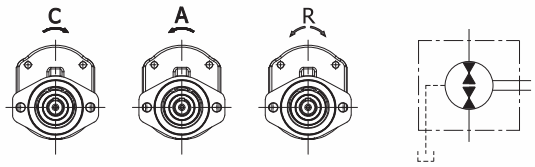
A Şaft Tipi / Shaft Type

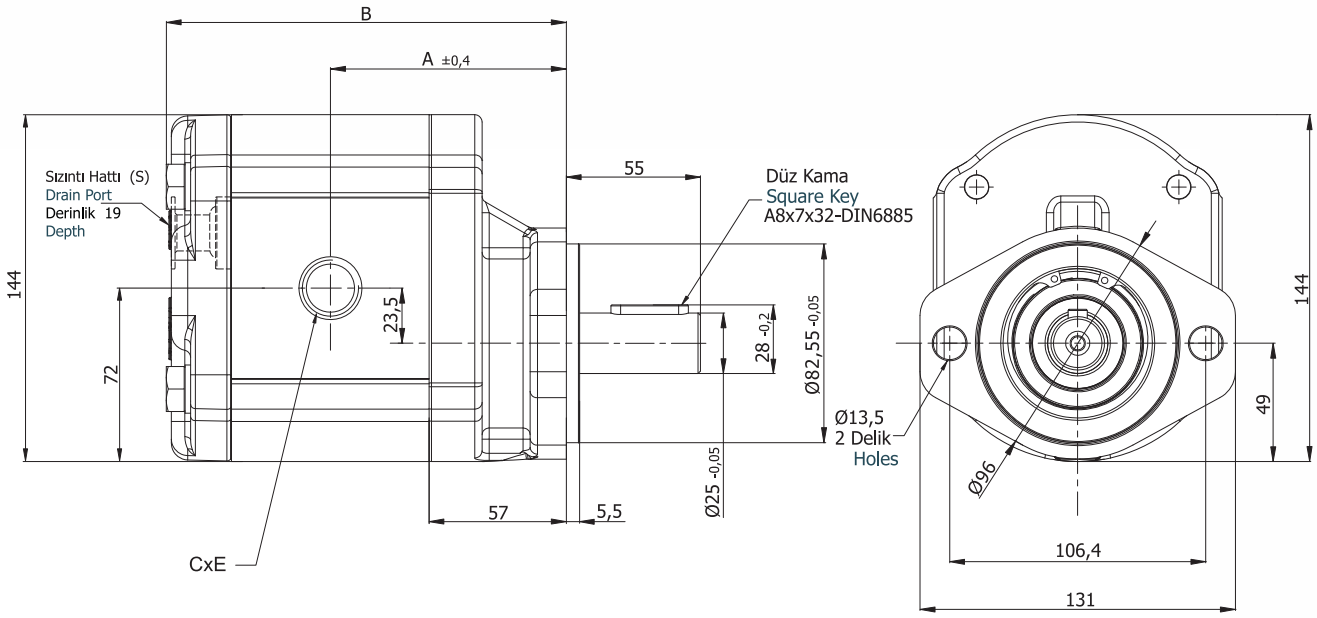


Motor Tipi Motor Type	İletim Hacmi Displacement $cm^3/dev(cm^3/rev)$	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş/Çıkış – Inlet/Outlet			Sızıntı - Drain
						C	D	E	S
APM30.170.RGA01EGN	17,0	250	3000	59,5	124,1	19	55	M8x16	G 3/8"
APM30.220.RGA01EGN	22,0			61,5	128,1				
APM30.270.RGA01EGN	27,0			63,0	131,1				
APM30.320.RGA01EGN	32,0	240		64,5	134,1	27			
APM30.340.RGA01EGN	34,0			65,0	135,1				
APM30.380.RGA01EGN	38,0			66,5	138,1				
APM30.430.RGA01EGN	43,0	230		68,0	141,1				
APM30.470.RGA01EGN	47,0		2500	69,5	144,1				
APM30.510.RGA01EGN	51,0	210		70,5	146,1				
APM30.560.RGA01EGN	56,0	200		71,5	148,1				
APM30.610.RGA01EGN	61,0	180	1750	74,0	153,1				
APM30.730.RGA01EGN	73,0	170	1500	77,0	160,1				
APM30.820.RGA01EGN	82,0	160		80,0	166,1				
APM30.900.RGA01EGN	90,0	150		83,0	172,1				
APM30.1000.RGA01EGN	100,0	140		86,0	178,1				

H Ön Kapak
Front Cover

P Şaft Tipi
Shaft Type

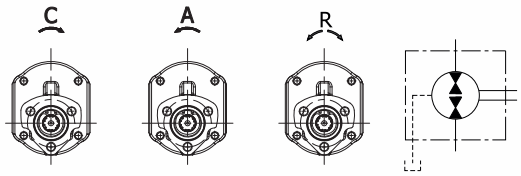


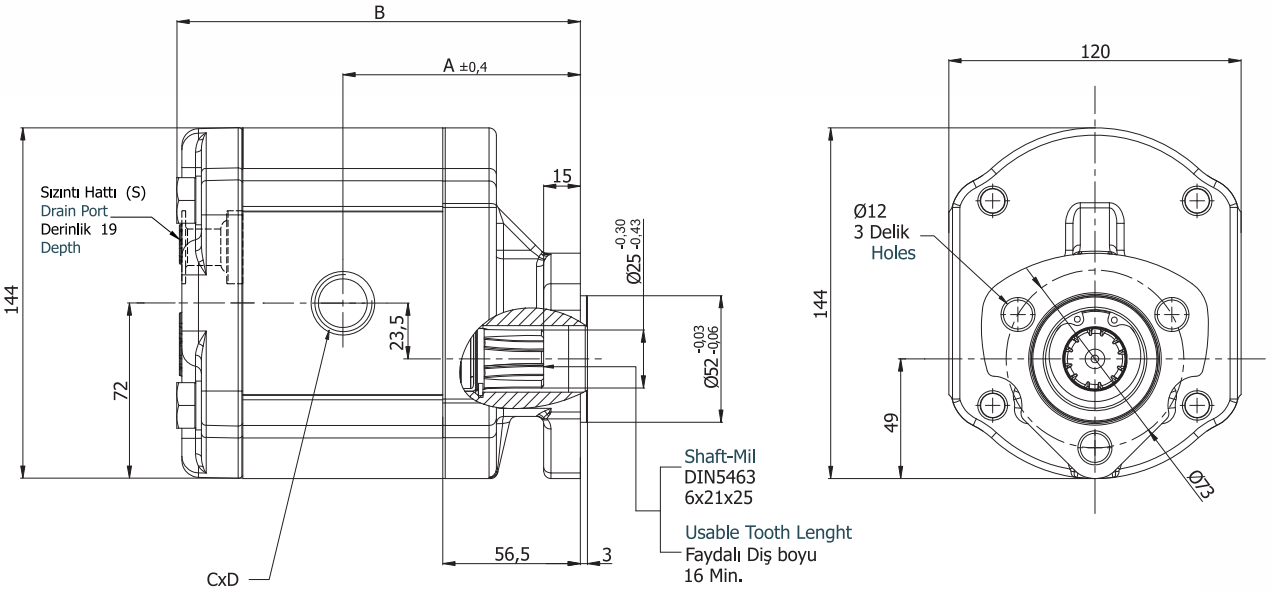


Motor Tipi Motor Type	İletim Hacmi Displacement $cm^3/dev(cm^3/rev)$	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş – Inlet		Sızıntı - Drain
						C	E	S
APM30.170.RHP05EGN	17,0	250	3000	94,5	159,1	30,5	G1"	G 3/8"
APM30.220.RHP05EGN	22,0			96,5	163,1			
APM30.270.RHP05EGN	27,0			98,0	166,1			
APM30.320.RHP05EGN	32,0	240		99,5	169,1			
APM30.340.RHP05EGN	34,0			100,0	170,1			
APM30.380.RHP05EGN	38,0			101,5	173,1			
APM30.430.RHP05EGN	43,0	230		103,0	176,1			
APM30.470.RHP05EGN	47,0		2500	104,5	179,1			
APM30.510.RHP05EGN	51,0	210		105,5	181,1			
APM30.560.RHP05EGN	56,0	200		106,5	183,1			
APM30.610.RHP05EGN	61,0	180	1750	109,0	188,1			
APM30.730.RHP05EGN	73,0	170	1500	112,0	195,1	39	G 1 1/4"	
APM30.820.RHP05EGN	82,0	160		115,0	201,1			
APM30.900.RHP05EGN	90,0	150		118,0	207,1	45	G 1 1/2"	
APM30.1000.RHP05EGN	100,0	140		121,0	213,1			

S Ön Kapak
Front Cover

U Şaft Tipi
Shaft Type





Motor Tipi Motor Type	İletim Hacmi Displacement $cm^3/dev(cm^3/rev)$	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş – Inlet		Sızıntı - Drain
						C	E	S
APM30.170.RSU05EGN	17,0	250	3000	94,0	158,6	30,5	G1"	G 3/8"
APM30.220.RSU05EGN	22,0			96,0	162,6			
APM30.270.RSU05EGN	27,0			97,5	165,6			
APM30.320.RSU05EGN	32,0	240		99,0	168,6			
APM30.340.RSU05EGN	34,0			99,5	169,6			
APM30.380.RSU05EGN	38,0			101,0	172,6			
APM30.430.RSU05EGN	43,0	230		102,5	175,6			
APM30.470.RSU05EGN	47,0		2500	104,0	178,6			
APM30.510.RSU05EGN	51,0	210		105,0	180,6			
APM30.560.RSU05EGN	56,0	200		106,0	182,6			
APM30.610.RSU05EGN	61,0	180	1750	108,5	187,6			
APM30.730.RSU05EGN	73,0	170	1500	111,5	194,6	39	G 1 1/4"	
APM30.820.RSU05EGN	82,0	160		114,5	200,6			
APM30.900.RSU05EGN	90,0	150		117,5	206,6	45	G 1 1/2"	
APM30.1000.RSU05EGN	100,0	140		120,5	212,6			

GPM30 MOTORLARIN KODLAMA SİSTEMİ
ORDERING CODE OF GPM30 MOTORS

GPM30 . 082 . R S T1 T N

Motor Tipi / Motor Type

İletim Hacmi / Displacement cm³/dev(cm³/rev)
017 = 17,2 cm³/dev(rev)
027 = 27,1 cm³/dev(rev)
034 = 34,4 cm³/dev(rev)
043 = 42,9 cm³/dev(rev)
051 = 51,2 cm³/dev(rev)
061 = 60,7 cm³/dev(rev)
073 = 73,0 cm³/dev(rev)
082 = 81,4 cm³/dev(rev)
100 = 99,7 cm³/dev(rev)

Dönüş Yönü / Rotation	
A	Sol Dönüş / Counter-clockwise
C	Sağ Dönüş / Clockwise
R	Çift Dönüş / Reversible

Ön Kapak / Front Cover		
S	3 Delikli Ø73 / 3 Holes Ø73	
R	4 Delikli Ø80 / 4 Holes Ø80	
P	6 Delikli Ø52 / 6 Holes Ø52	
D	2 Delikli Ø82,5 / 2 Holes Ø82,5	
A	Dikdörtgen Kapak Square Flange	Ø50,78

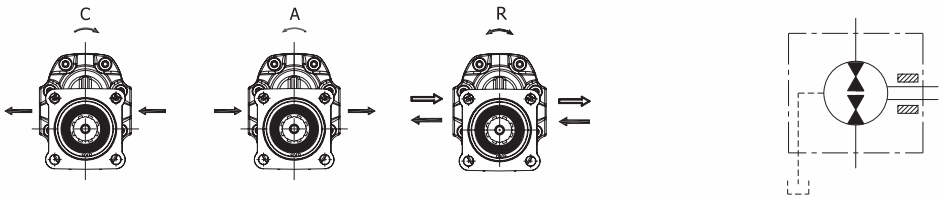
Şaft Tipi / Shaft Type	
T1	Çok Kamalı Mil Spline Shaft 6x24x25 DIN 5463
M1	Çok Kamalı Mil Spline Shaft 8x32x35 DIN 5462
S2	Çok Kamalı Mil Spline Shaft B6x30x35 DIN 9611 SAE 1 3/8"
S	Paralel Şaft Parallel Shaft A8x7x32 DIN 6885
B1	Konik - Kamalı Tapered key shaft 1:8

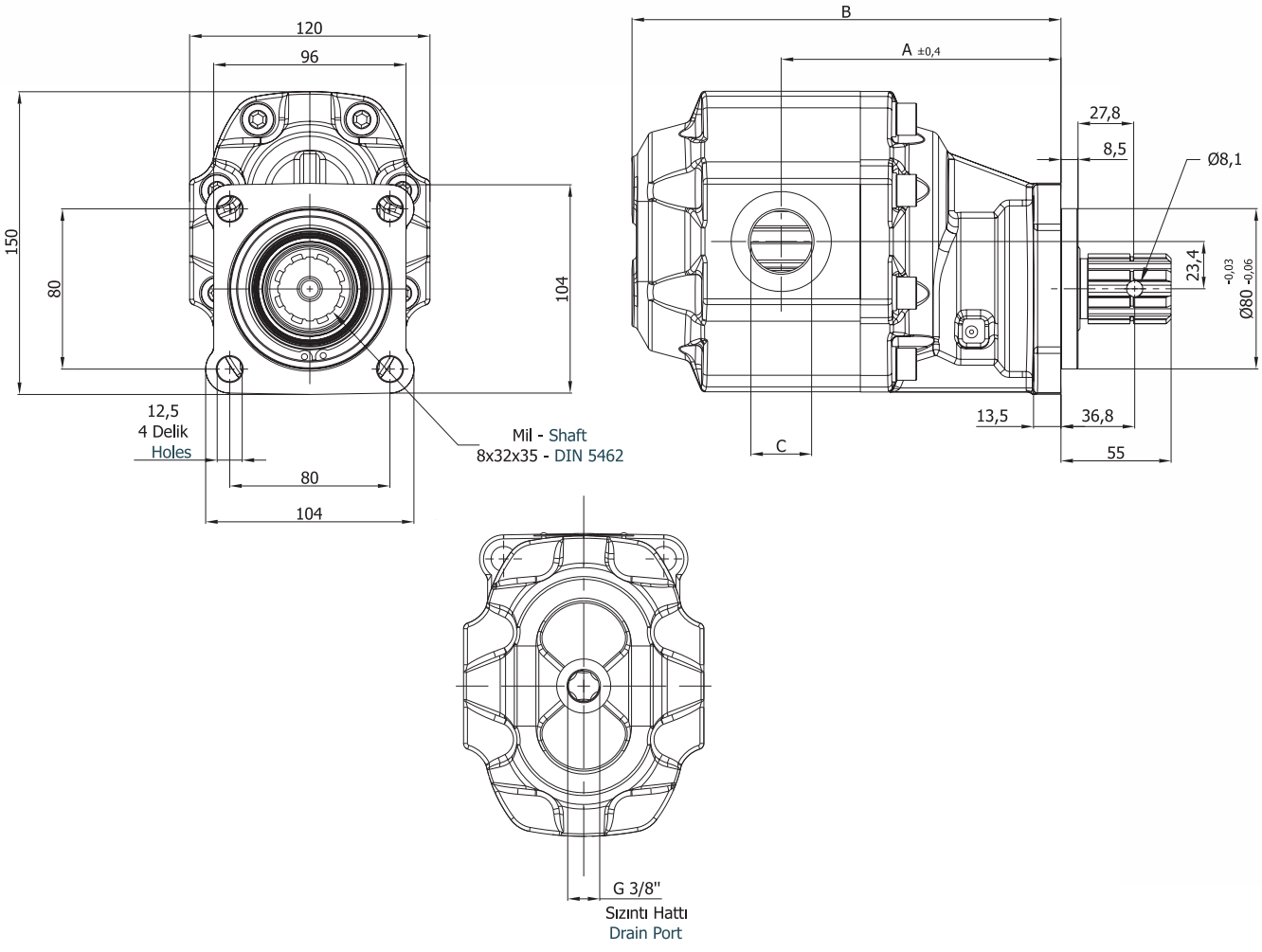
İç sızıntı Hattı / Internal Drain Port	
T	Var / Available
	Yok / Absent

Keçeler / Seals	
N	NBR
V	VITON

- Kodlama Örneği ; GPM30.082.RST1N
  Code Example

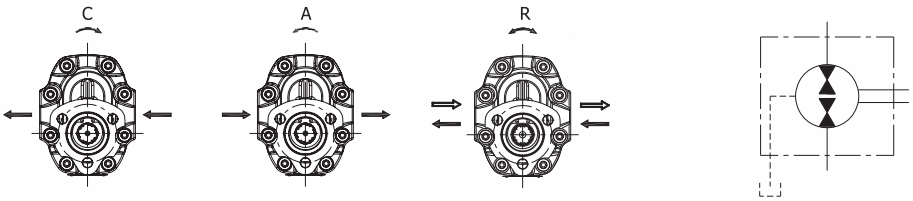
ISO TİPİ TYPE

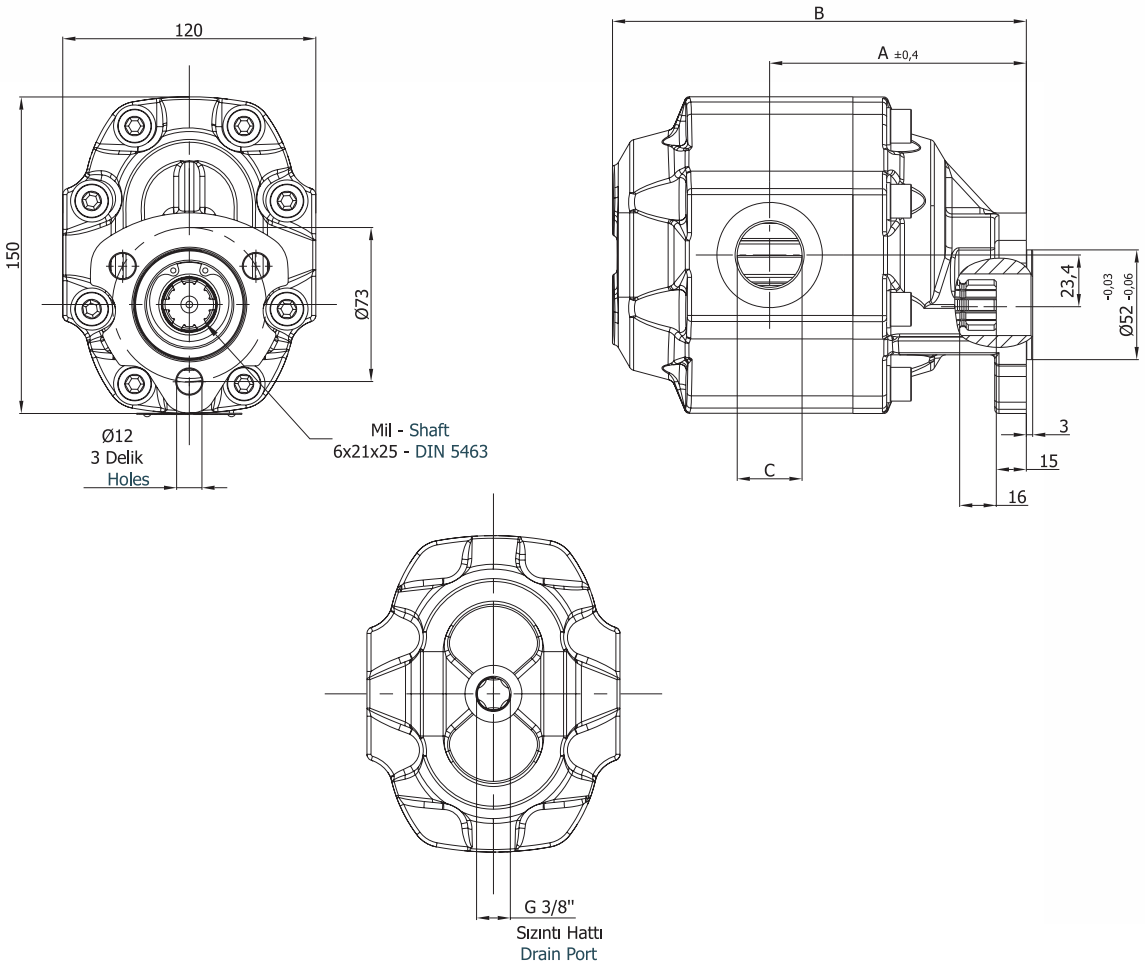




Motor Tipi Motor Type	İletim Hacmi Displacement $cm^3/dev(cm^3/rev)$	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A	B	Giriş – Inlet	Çıkış - Outlet
						C	c
GPM30.017.RRM1N	17,2	300	3000	119,0	172,6	G 1/2"	G 1/2"
GPM30.027.RRM1N	27,1	290		122,2	179,0	G 3/4"	G 3/4"
GPM30.034.RRM1N	34,4	280	2750	124,5	183,6		
GPM30.043.RRM1N	42,9	270	2500	127,4	189,4		
GPM30.051.RRM1N	51,2	240		129,5	193,5	G 1"	G 1"
GPM30.061.RRM1N	60,7	220	2000	133,2	201,0		
GPM30.073.RRM1N	73,0	200	1750	137,1	208,7		
GPM30.082.RRM1N	81,4	190		140,0	214,5	G 1-1/4"	G 1-1/4"
GPM30.100.RRM1N	99,7	180		145,8	226,1		

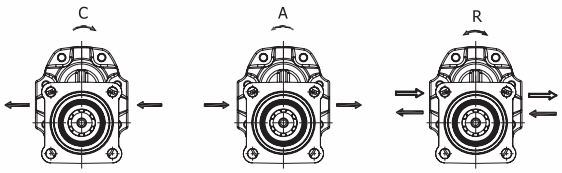
UNI TİPİ TYPE

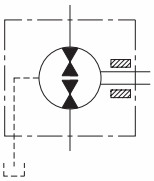


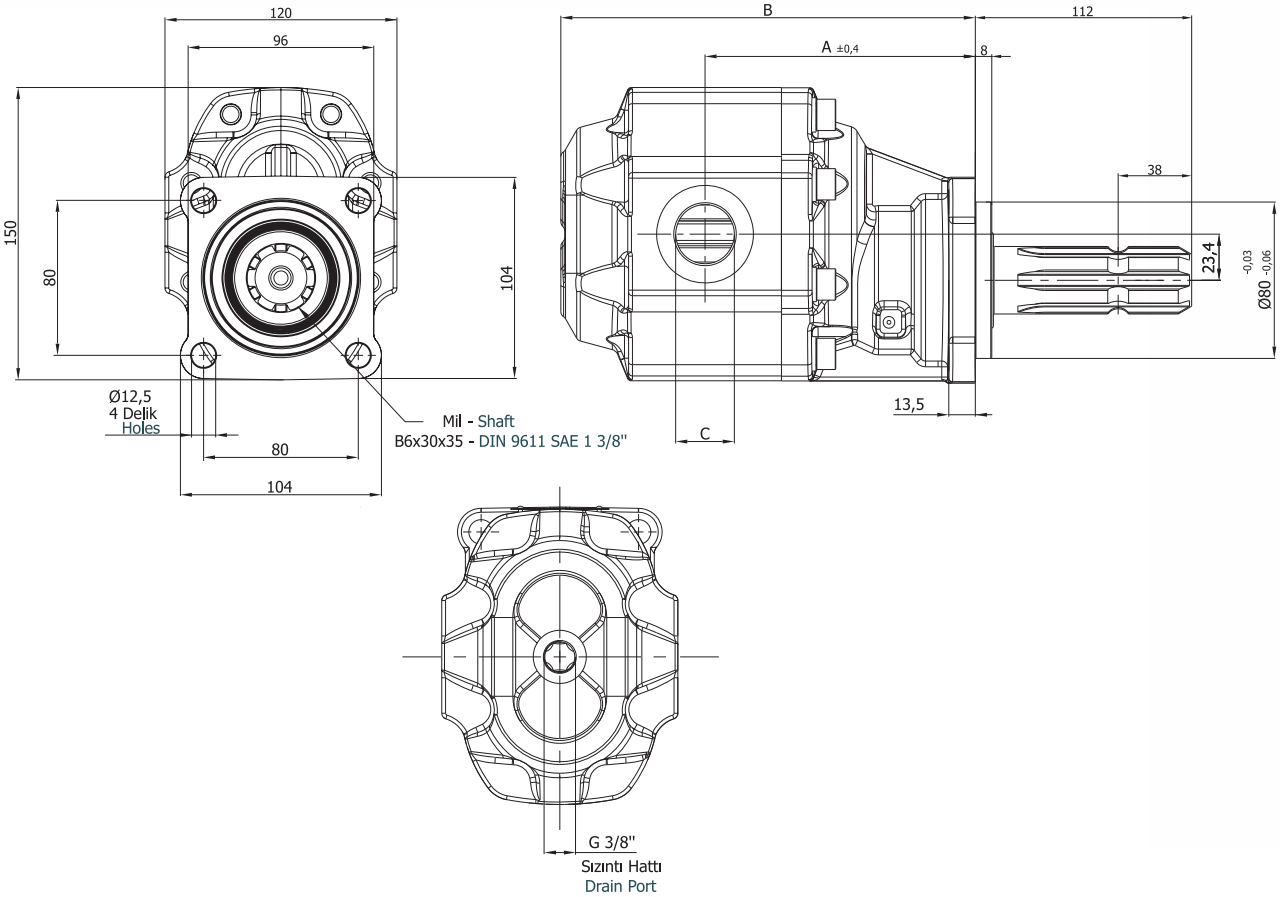


Motor Tipi Motor Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş – Inlet	Çıkış - Outlet
						C	c
GPM30.017.RST1N	17,2	300	3000	100,8	154,4	G 1/2"	G 1/2"
GPM30.027.RST1N	27,1	290		104,0	160,8	G 3/4"	G 3/4"
GPM30.034.RST1N	34,4	280	2750	106,3	165,4		
GPM30.043.RST1N	42,9	270	2500	109,2	171,2		
GPM30.051.RST1N	51,2	240		111,3	175,3	G 1"	G 1"
GPM30.061.RST1N	60,7	220	2000	115,0	182,8		
GPM30.073.RST1N	73,0	200	1750	118,9	190,5		
GPM30.082.RST1N	81,4	190		121,8	196,3	G 1-1/4"	G 1-1/4"
GPM30.100.RST1N	99,7	180		127,6	207,9		

SAE TİPİ TYPE

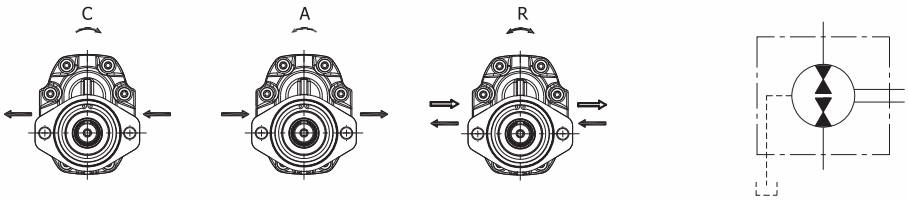


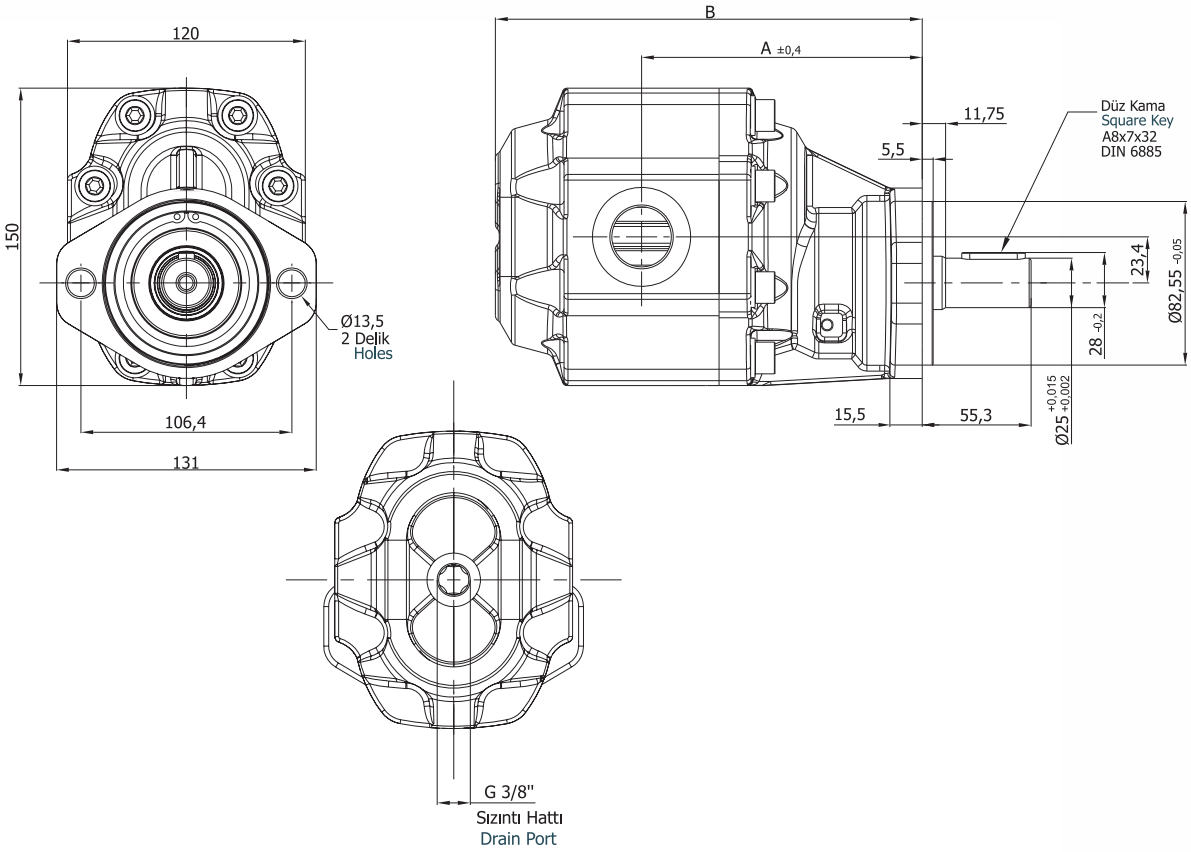




Motor Tipi Motor Type	İletim Hacmi Displacement cm³/dev (cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş – Inlet	Çıkış - Outlet
						C	c
GPM30.017.RRS2N	17,2	300	3000	119,0	172,6	G 1/2"	G 1/2"
GPM30.027.RRS2N	27,1	290		122,2	179,0	G 3/4"	G 3/4"
GPM30.034.RRS2N	34,4	280	2750	124,5	183,6		
GPM30.043.RRS2N	42,9	270	2500	127,4	189,4		
GPM30.051.RRS2N	51,2	240		129,5	193,5	G 1"	G 1"
GPM30.061.RRS2N	60,7	220	2000	133,2	201,0		
GPM30.073.RRS2N	73,0	200	1750	137,1	208,7		
GPM30.082.RRS2N	81,4	190		140,0	214,5	G 1-1/4"	G 1-1/4"
GPM30.100.RRS2N	99,7	180		145,8	226,1		

S TİPİ TYPE





Motor Tipi Motor Type	İletim Hacmi Displacement $cm^3/dev (cm^3/rev)$	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A	B	Giriş – Inlet	Çıkış - Outlet
						C	c
GPM30.017.RDSN	17,2	300	3000	121,0	174,6	G 1/2"	G 1/2"
GPM30.027.RDSN	27,1	290		104,0	181,0	G 3/4"	G 3/4"
GPM30.034.RDSN	34,4	280	2750	106,3	185,6		
GPM30.043.RDSN	42,9	270	2500	109,2	191,4		
GPM30.051.RDSN	51,2	240		111,3	195,5	G 1"	G 1"
GPM30.061.RDSN	60,7	220	2000	115,0	203,0		
GPM30.073.RDSN	73,0	200	1750	118,9	210,7		
GPM30.082.RDSN	81,4	190		121,8	216,5	G 1-1/4"	G 1-1/4"
GPM30.100.RDSN	99,7	180		127,6	228,1		

GPM40 MOTORLARIN KODLAMA SİSTEMİ
ORDERING CODE OF GPM40 MOTORS

GPM40 . 087 . R S T1 T N

Motor Tipi / Motor Type

İletim Hacmi / Displacement $cm^3/dev(cm^3/rev)$
063 = 63,8 cm^3/dev(rev)
073 = 72,2 cm^3/dev(rev)
087 = 86,1 cm^3/dev(rev)
109 = 107,3 cm^3/dev(rev)
133 = 131,6 cm^3/dev(rev)
151 = 148,3 cm^3/dev(rev)

Dönüş Yönü / Rotation	
A	Sol Dönüş / Counter-clockwise
C	Sağ Dönüş / Clockwise
R	Çift Dönüş / Reversible

Ön Kapak / Front Cover	
S	3 Delikli Ø73 / 3 Holes Ø73
R	4 Delikli Ø80 / 4 Holes Ø80

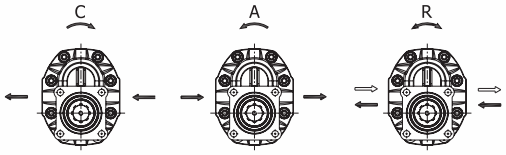
Şaft Tipi / Shaft Type	
T1	Çok Kamalı Mil Spline Shaft 6x21x25 DIN 5463
M1	Çok Kamalı Mil Spline Shaft 8x32x35 DIN 5462
S2	Çok Kamalı Mil Spline Shaft B6x30x35 DIN 9611 SAE 1 3/8"

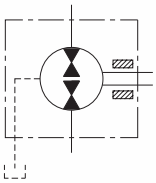
İç sızıntı Hattı / Internal Drain Port	
T	Var / Available
	Yok / Absent

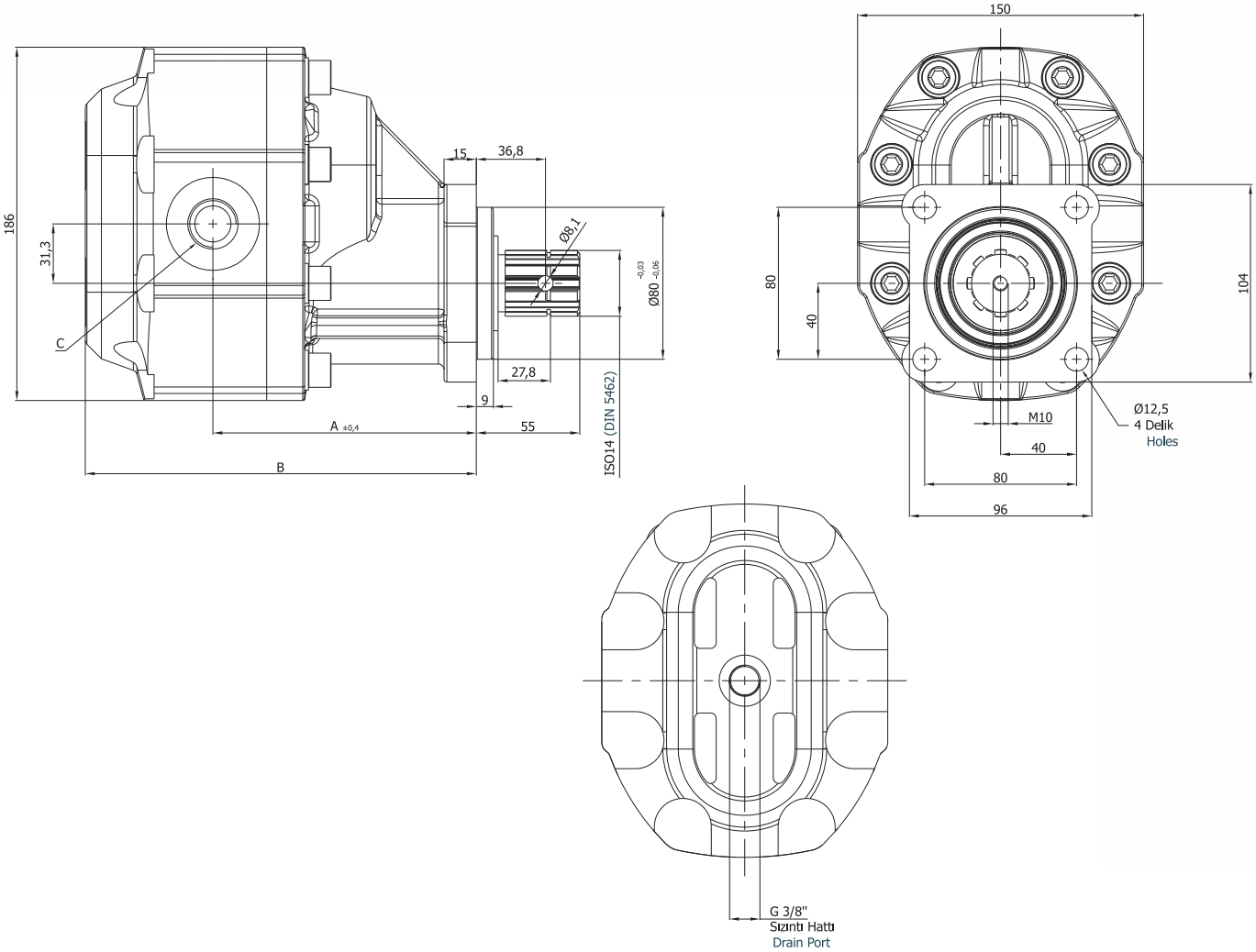
Keçeler / Seals	
N	NBR
V	VITON

- Kodlama Örneği ; GPM40.087.RST1N
  Code Example

ISO TİPİ TYPE

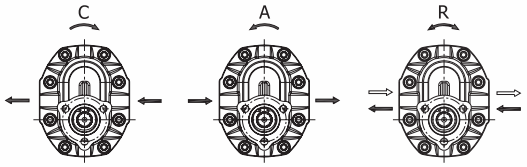


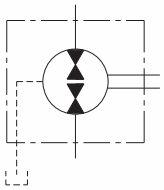


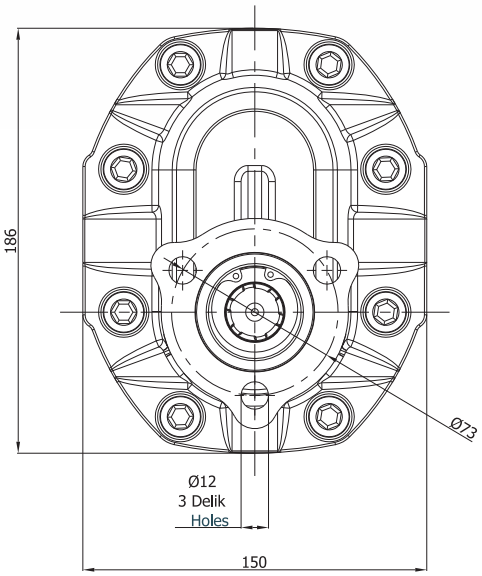


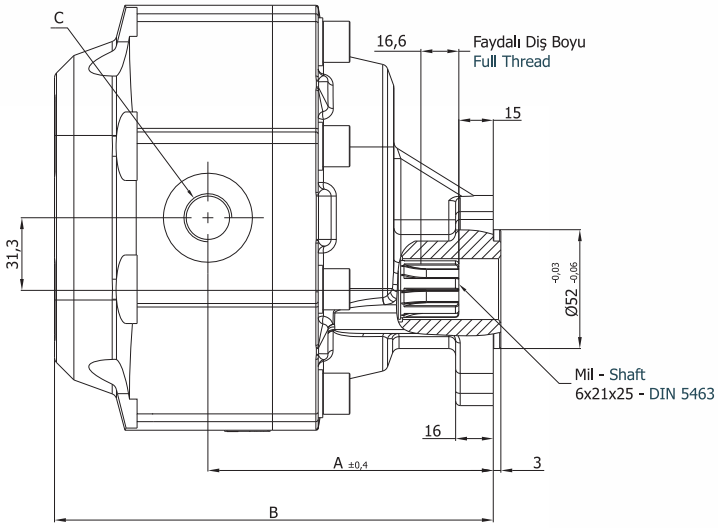
Motor Tipi Motor Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A	B	Giriş – Inlet	Çıkış - Outlet
						C	c
GPM40.063.RRM1N	63,8	280	2750	136,3	203,0	G 1"	G 1"
GPM40.073.RRM1N	72,2			137,3	204,6		
GPM40.087.RRM1N	86,1	260		141,0	209,6	G 1-1/4"	G 1-1/4"
GPM40.109.RRM1N	107,3	240		145,0	217,3		
GPM40.133.RRM1N	131,6	220	2500	148,0	225,9		
GPM40.151.RRM1N	148,3	180		153,3	232,3		

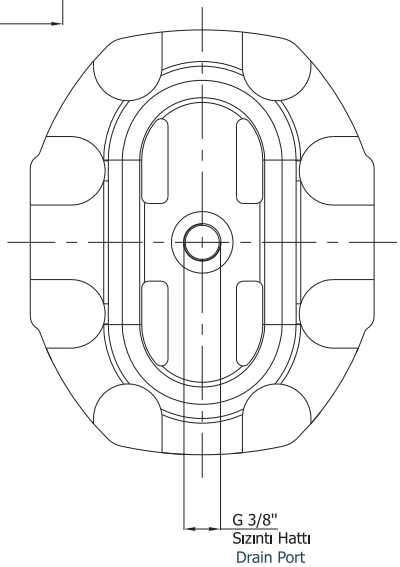
UNI TİPİ TYPE





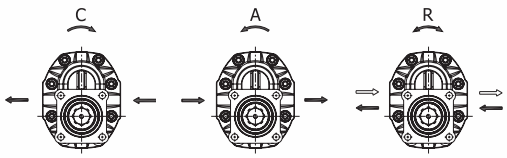


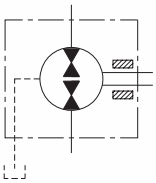


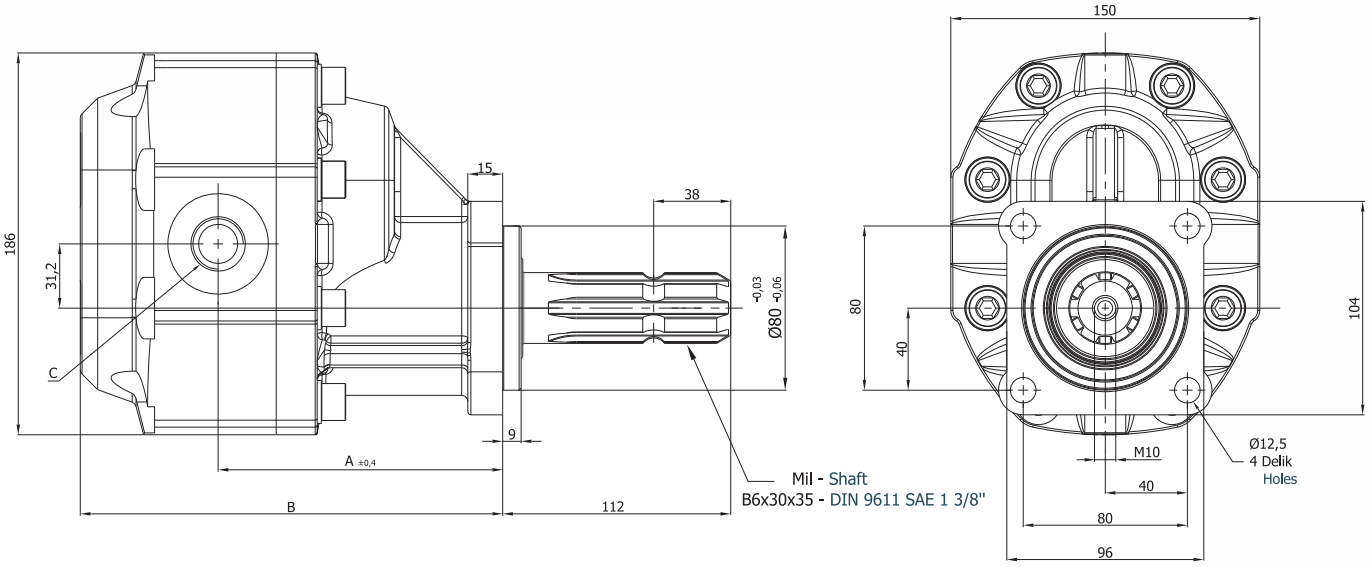


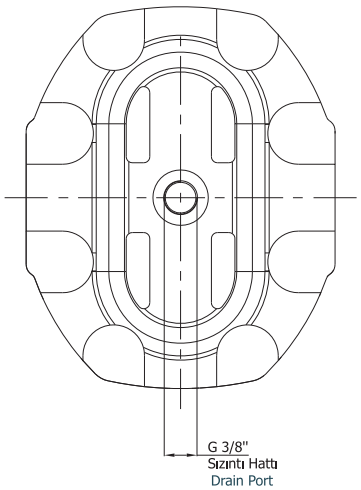
Motor Tipi Motor Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A	B	Giriş – Inlet	Çıkış - Outlet
						C	c
GPM40.063.RST1N	63,8	280	2750	124,0	190,7	G 1”	G 1”
GPM40.073.RST1N	72,2			125,0	192,3		
GPM40.087.RST1N	86,1	260		128,7	197,3	G 1-1/4”	G 1-1/4”
GPM40.109.RST1N	107,3	240		132,7	205,0		
GPM40.133.RST1N	131,6	220	2500	135,7	213,6		
GPM40.151.RST1N	148,3	180		141,0	220,0		

SAE TİPİ TYPE



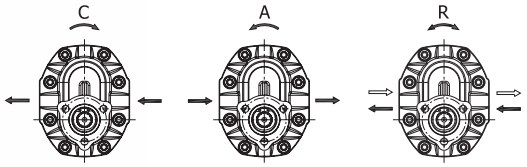


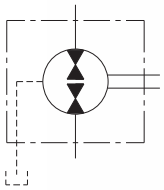


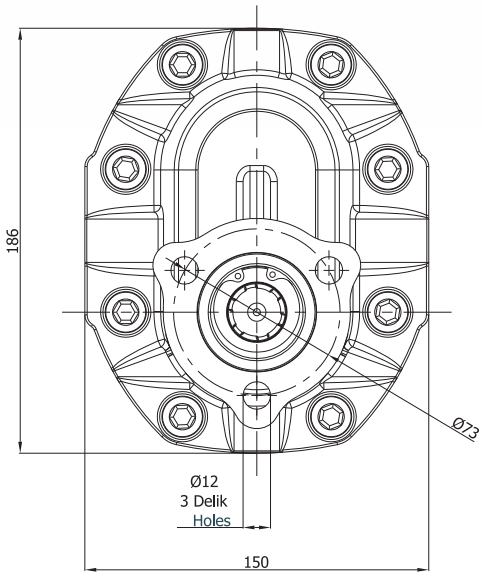


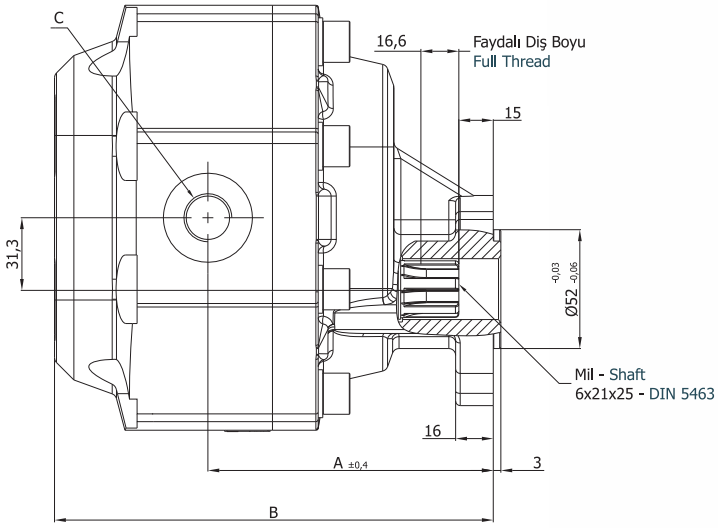
Motor Tipi Motor Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A	B	Giriş – Inlet	Çıkış - Outlet
						C	c
GPM40.063.RRS2N	63,8	280	2750	136,3	203,0	G 1”	G 1”
GPM40.073.RRS2N	72,2			137,3	204,6		
GPM40.087.RRS2N	86,1	260		141,0	209,6	G 1-1/4”	G 1-1/4”
GPM40.109.RRS2N	107,3	240		145,0	217,3		
GPM40.133.RRS2N	131,6	220	2500	148,0	225,9		
GPM40.151.RRS2N	148,3	180		153,3	232,3		

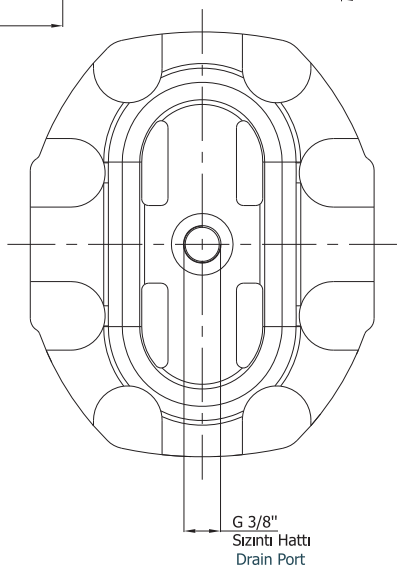
UNI TİPİ TYPE











Motor Tipi Motor Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A	B	Giriş – Inlet	Çıkış - Outlet
						C	c
GPM40.063.RST1N	63,8	280	2750	124,0	190,7	G 1”	G 1”
GPM40.073.RST1N	72,2			125,0	192,3		
GPM40.087.RST1N	86,1	260		128,7	197,3	G 1-1/4”	G 1-1/4”
GPM40.109.RST1N	107,3	240		132,7	205,0		
GPM40.133.RST1N	131,6	220	2500	135,7	213,6		
GPM40.151.RST1N	148,3	180		141,0	220,0		

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