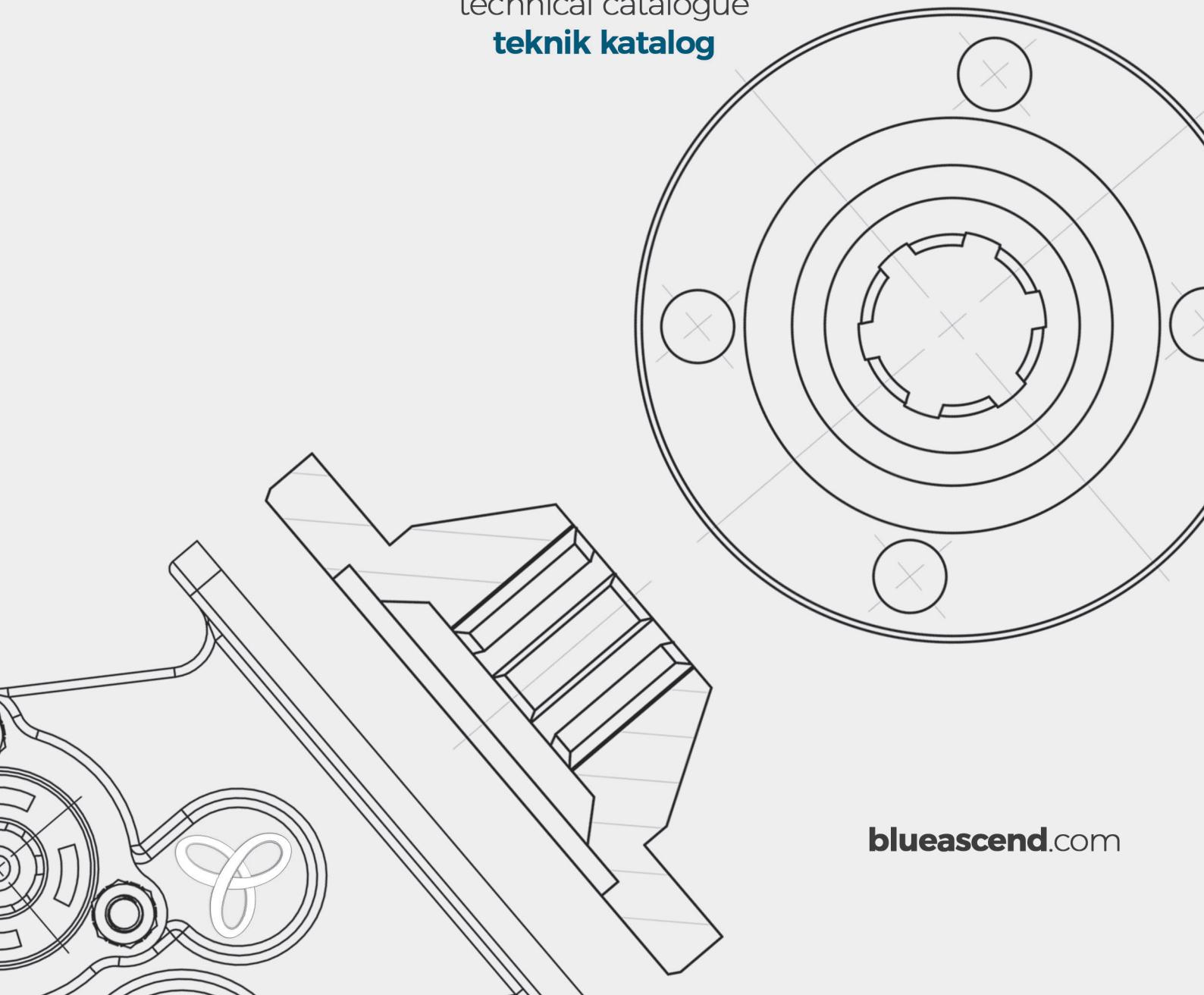




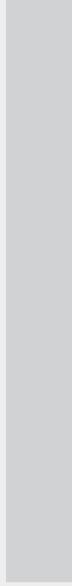
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07

Hydraulic Gear Pumps
Hidrolik Dişli Pompalar



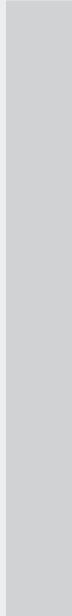
124

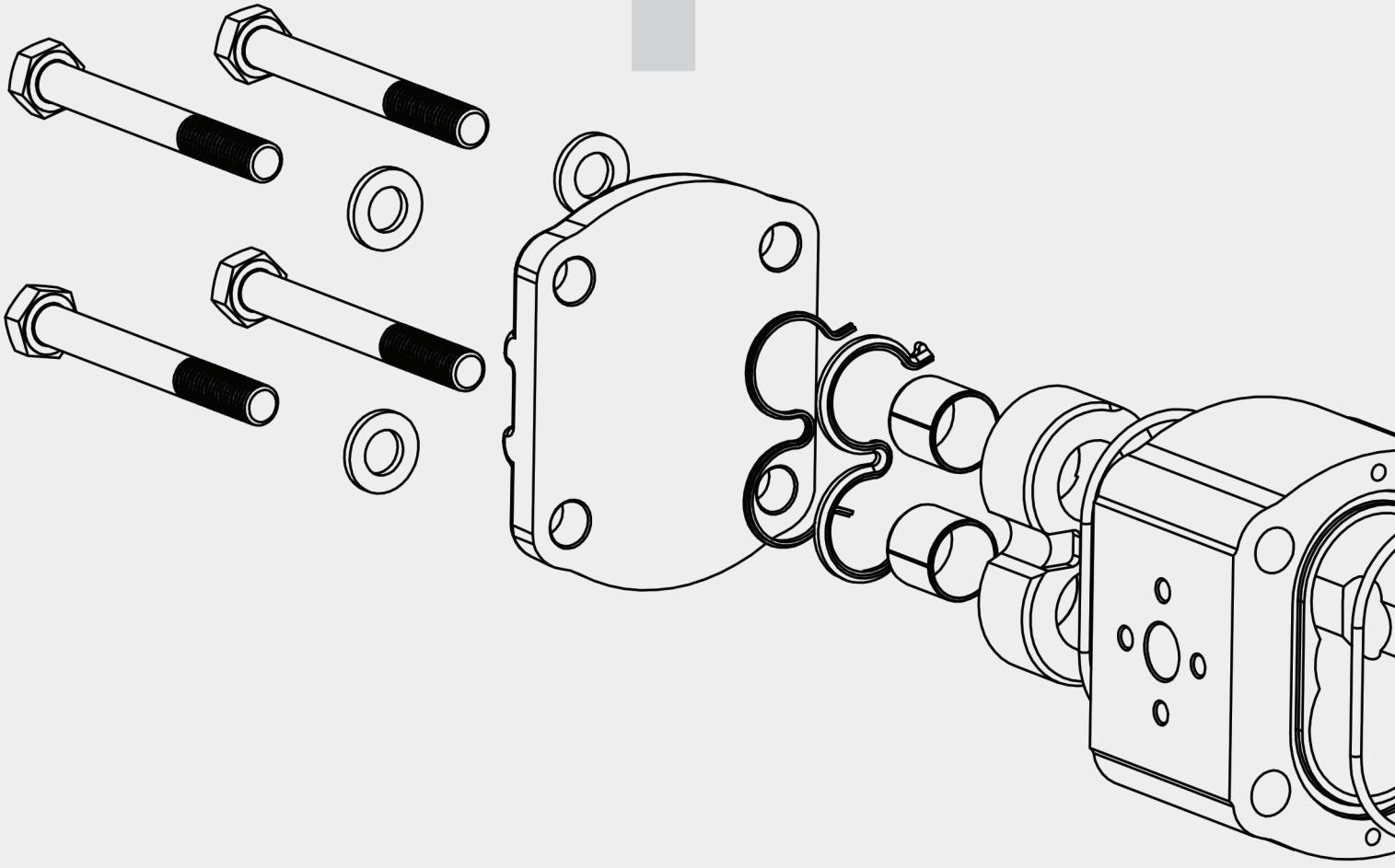
Hydraulic Gear Motors
Hidrolik Dişli Motorlar



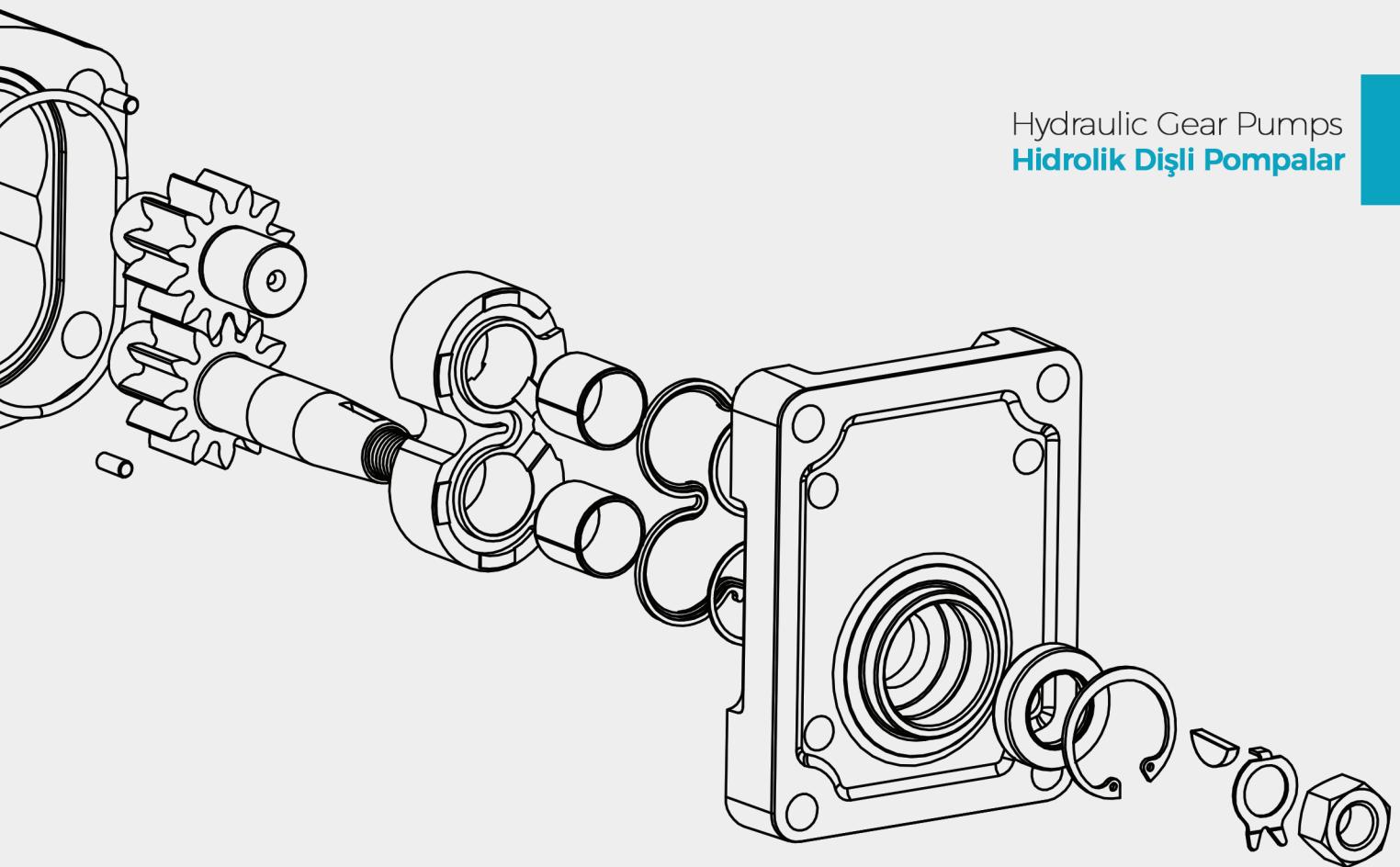
176

Hydraulic Gear Flow Dividers
Hidrolik Dişli Akış Bölücüler





HYDRAULIC GEAR PUMPS



Hydraulic Gear Pumps
Hidrolik Dişli Pompalar

A technical line drawing illustrating the internal components of a hydraulic gear pump. The assembly includes a pump housing with a flange, a drive shaft with a gear, a bearing housing, a bearing, a pressure relief valve, and various seals and O-rings. The drawing is presented in a perspective view, showing the flow path from the input shaft through the gears and bearings to the output port.

POMPALAR PUMPS

07-14

Pompa Genel Bilgiler
Pump General Information

67-101

Grup 30 Pompalar
{AP30, APH30, DKP30, DPH30}
Group 30 Pumps
{AP30, APH30, DKP30, DPH30}

15-23

Grup 10 Pompalar {AP10}
Group 10 Pumps {AP10}

24-66

Grup 20 Pompalar
{AP20, APH20, DKP20, DPH20}
Group 20 Pumps
{AP20, APH20, DKP20, DPH20}

MOTORLAR MOTORS

126-131

Motor Genel Bilgiler
Motor General Information

132-153

Grup 20 Motorlar
{APM20, DKM20}
Group 20 Motors
{APM20, DKM20}

154-165

Grup 30 Motorlar
{APM30, DKM30}
Group 30 Motors
{APM20, DKM20}

166-170

Grup GPM30 Motorlar
Group GPM30 Motors

171-175

Grup GPM40 Motorlar
Group GPM40Motors

AKIŞ BÖLÜCÜLERİ FLOW DIVIDERS

178-179

Akış Bölücü Genel Bilgiler
Flow Dividers General Information

180-181

Grup 10 Akış Bölütürler {AFD10}
Group 10 Flow Dividers

182-183

Grup 20 Akış Bölütürler
{AFD20}
Group 20 Flow Dividers

1. GENEL BİLGİLER

Blue Ascend dişli pompaları yüksek mukavemetli alüminyum alasımlı gövde ekstrüzyon/döküm ve üç ana parçadan meydana getirmektedir.

Bu pompalar, yüksek performansı ve uzun çalışma ömrü ve düşük satın almadan dolayı modern hidrolik sistemlerde geniş bir şekilde kullanılmaktır ve farklı iletişim hacmi ve farklı dişli genişlikleri ile standart pompa grubunda yer almaktadır. Daha fazla konfigürasyon varyantları için farklı flanş ve dişliler ve çoklu pompa kombinasyonları mümkün olacaktır.

2. KONSTRÜKSİYON

Dişli pompalar 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 keçeleri üzerinde basınçla bağlı olarak kuvvetler elde edilir ve bu optimum verimliliği sağlar.

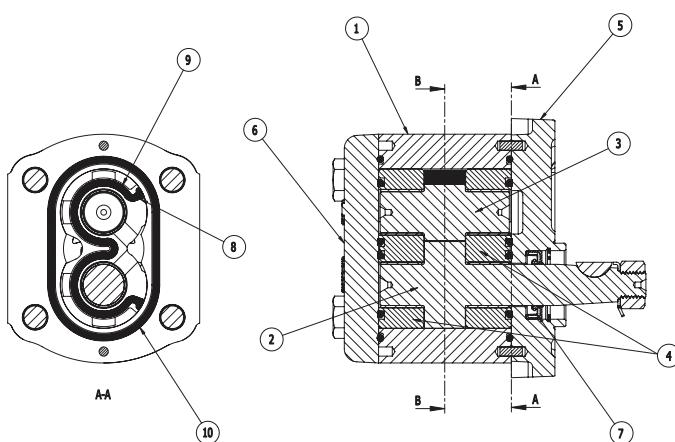
Aksi belirtildiğinde, keçeler yüksek çekme mukavemetine ve sıcaklığı dayaklı nitril kauçuk (NBR) olacaktır. İstenilmesi durumunda viton keçeler kullanılacaktır.

1. GENERAL INFORMATION

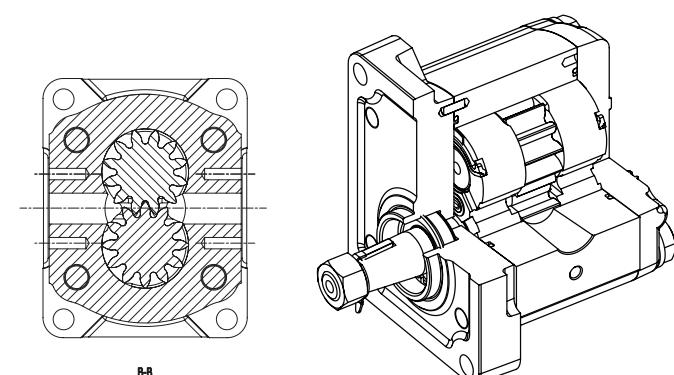
Blue Ascend external gear pumps are built in three main pieces with an in high resistance aluminium alloy extruded /cast iron body. These external gear pumps are widely used in modern hydraulic systems due to their long service life and high performance. Blue Ascend external gear pumps are available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

2. CONSTRUCTION

The external gear pump 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. Takviye Keçesi /Back Up Seals
9. Burç Kulak Keçesi /Bush Lobe Seals
10. Göße Keçesi / Body Seals

3. POMPA DÖNÜŞ YÖNÜ

Pompanın ön tarafından bakıldığından ve tahrik eden dişli aşağıya gelecek şekilde pompa dönüş yönü belirlenir.(şekillere bakınız).

Sağ dönüşlü pompaların(C) tahrik eden dişli sağa (saat yönünde) dönecek, emiş deliği sağda ve basınç deliği solda olacaktır.

Sol dönüşlü pompaların(A) tahrik eden dişli sola (saat yönünün tersine) dönecek, emiş deliği solda ve basınç deliği sağda olacaktır.

Resimlerde görüldüğü gibi yağ, emiş deliği tarafından alınarak dişliler vasıtısı ile çıkış portuna transfer edilmektedir.

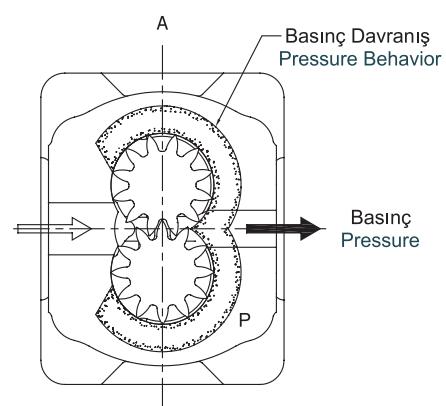
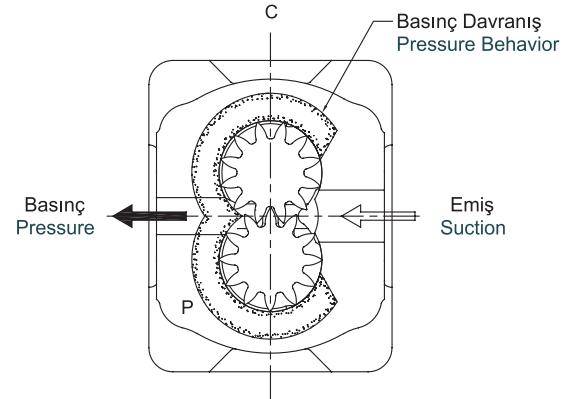
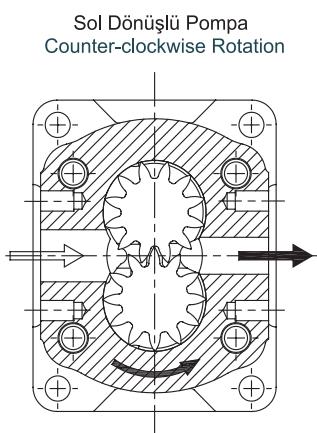
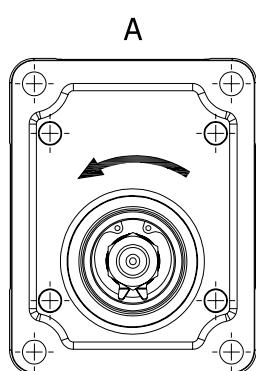
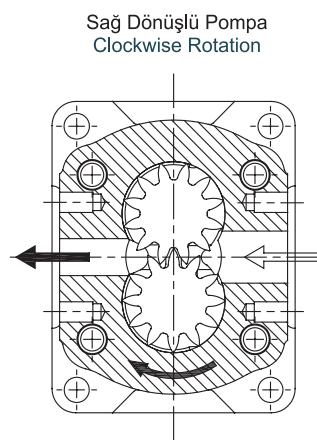
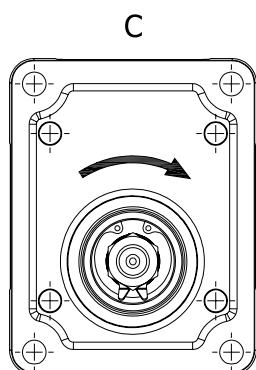
3. PUMP DIRECTION OF ROTATIONS

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

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

Pumps 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.

The figure also shows the pressure flow inside the pumps as the oil is transferred from the suction port to the pressure port by the gears.



4. POMPANIN BAĞLANMASI

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

5. POMPANIN EMİŞİ

İşletme şartlarında basınç düşümünü önlemek için uygun boyutta filtre kullanılması tavsiye edilir. Emiş basıncı (absolute) 0,75 (bar) dan küçük olmalıdır. Tavsiye edilen pompa yaşı emiş hızı $V = 0,6/1,2$ m/s olmalıdır.

6. POMPANIN ÇIKIŞI

Pompa çıkış hattı çalışma basıncını sınırlayan bir emniyet valfi ile korunmalıdır. Çıkış boru büyütüğü, akış hızı, gürültü, aşırı basınç düşmeleri ve ısınmayı minimize edecek şekilde belirlenmelidir. Akış hızı, normal olarak 5m/s 'in altında kabul edilebilir.

4. PUMP MOUNTING

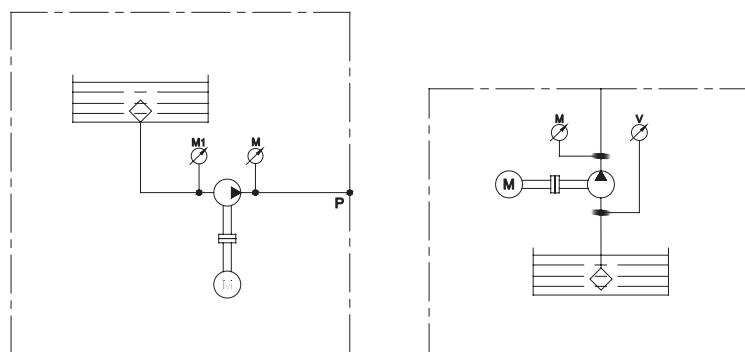
The pumps are easily mounted from the flange with the help 4 or 2 bolts and the spigot location. The counter bore to receive the mounting flange spigot should have a 1 mm chamfer at 45 on the pump side to ensure proper fitting. It is good practice to use flexible hose adjacent to the pump in both the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

5. PUMP SUCTION

It is also advisable to choose a filter of a suitable size to minimize any pressure drop and to take measures to prevent gradual clogging over time. The suction port pressure must be lower than 0,75 bar. The diameter of the suction pipe should ensure that the oil speed within the range from $V = 0,6$ to $1,2$ m/s.

6. PUMP OUTLET

The pump outlet line should normally be protected by a relief valve to limit the working pressure. The outlet pipe sizes should be chosen so it's minimizing flow velocity, avoiding system noise, minimizing excess pressure drops and overheating. The flow rate under 5 m/s is normally acceptable.



Şekil 1 - Figure 1

Bir dişli pompanın ömrü yağ içindeki yabancı maddelerin varlığına bağlıdır. Bu nedenle pompa ve sistemin ömrünü uzun kılmak iyi bir filtreleme ile mümkündür. Her durumda filtreleme sistemi yağ kirliliğini aşağıdaki tabloda verilen değerlere eşit veya altında tutmasını sağlamalıdır.

A short service life of a gear pump is normally due to the presence of impurities in the oil. That is the reason an effective filter in the system to carry out regular maintenance get the system life longer. In any case, the filtering system must constantly ensure an oil contamination class equal to or less than those shown in the following table.

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 pompalarda 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.

9. KAVİTASYON

Modern hidrolik sistemlerde kullanılan yağın büyük çoğunluğunda hacimsel olarak yaklaşık %10 oranında çözünmüş halde hava vardır. Sistem içinde belirli vakum şartlarında bu hava yağıdan ayrılır ve hava kabarcıkları oluşturur. Bu hava cepleri belirli basınçlarda parçalanarak temasta olduğu malzemeyi aşındırarak zarar verir. Yukarıdaki açıklamalardan da anlaşılacağı üzere yağdaki hava oranı ne kadar büyükse yapacağı aşınma da o derece büyük olacaktır. Yağdaki aşırı hava oranının en büyük sebebi özellikle pompa girişindeki hava emişini doğuran kaçaklar ve uygun olmayan boru büyülükleri, köşeli bağlantılar, ani kesit değişmeleri gibi hususların oluşturduğu akış hattı dirençleridir

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. CAVITATION

Hydraulic oil used in the majority of systems contains about 10% dissolved air by volume. This air under certain conditions of vacuum within the systems is released from the oil and will cause air bubbles.

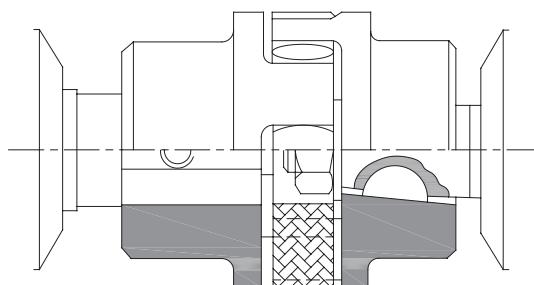
These air pockets collapse if then subjected to pressure and this collapse creates erosion of the adjacent metal. It is obvious from the above that the greater the air content within the oil is then the more severe will be the resultant erosion created. The main causes of over aeration of the oil are air leaks particularly on the inlet side of the pump, and flow line restrictions such as inadequate pipe size, elbow fittings and sudden changes in flow line cross sectional area.

10. TAHİRİK ŞEKİLLERİ

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

10. DRIVE ARRANGEMENTS

The flexible coupling does not transfer any radial or axial force to the pump. A coupling with a minimum clearance of 0,25 mm in the axial and radial direction should be chosen. A three pieces flexible couplings are recommended see fig 2.



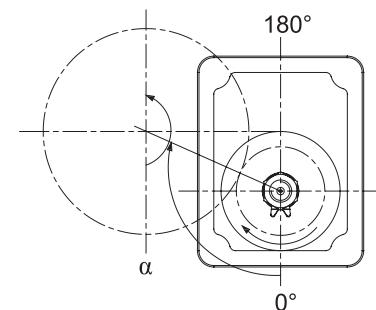
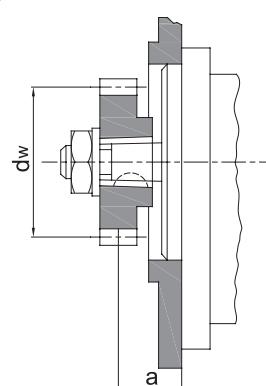
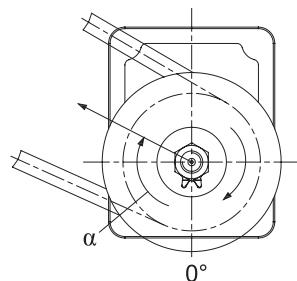
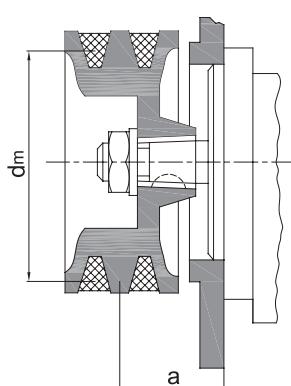
Şekil 2 - Figure 2

11. ÖN YATAKSIZ, KAYIŞ VE DİŞLİ İLE TAHİRİK

V kayışı veya dış tahrirk dişli ile pompa tahriri önerildiği zaman aşağıdaki uygulama detayına bakınız (şekil 3).

11. V-BELTS AND GEAR WHEELS WITHOUT OUTBOARD BEARING

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



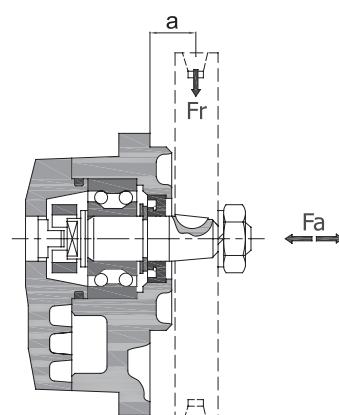
Şekil 3 - Figure 3

12. ÖN YATAK

Ön yataksız pompalar, V kayışı ve dış dişli ile tahrirk edildiği zaman, çicablecek muhtemel problemler karşısında ön yatak kullanılmaktadır.

12. OUTBOARD BEARING

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

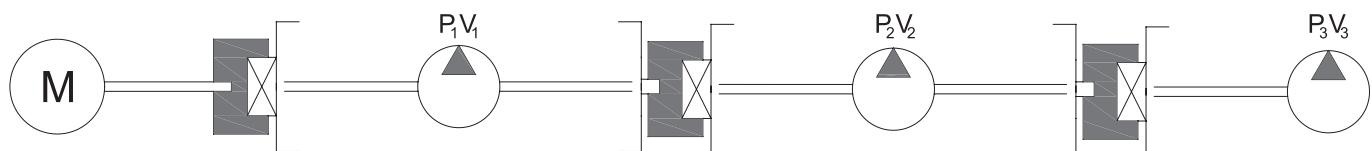
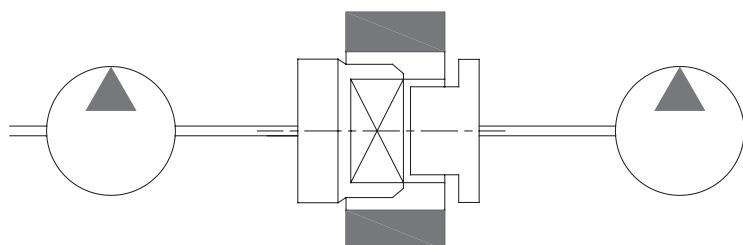


13. ÇOKLU TAHRİK EDEN DİŞLİ POMPALAR

Tahrik eden dişli milleri uzatılarak dişli pompaların ikili veya üçlü pompa kombinasyonlarını yapmak mümkündür. Tahrik kaplini, pompaların iki dişli arasına yerleştirilmektedir. Pompa emiş portları birbirinden ayrı olduğu gibi, ortak emiş yapmak da mümkündür. Basınç, tahrık eden dişli şaft mukavemetine göre sınırlanmıştır. Uygun değerler resimler üzerinde verilmiştir. Eğer öndeği pompanın tahrık eden dişli kesikli şaftlı ise ön yatak kullanılmalıdır. Pompların basınç sınırlaması aşağıdaki formüle göre olacaktır.

13. MULTIPLE GEAR PUMPS

Gear pumps are well-suited to tandem or triple combination of pumps in which the drive shaft of the first pump is extended to drive a second pump and sometimes third pump in the same manner. A coupling is fitted between each pair of pumps. The pressures are restricted by the strength of the drive shaft. Appropriate data is given in the dimensional drawings below. If the first stage of the pumps driven gear is getting the power through a tang drive shaft and outboard bearing must be used. The pressure limitations will be according to the table below.



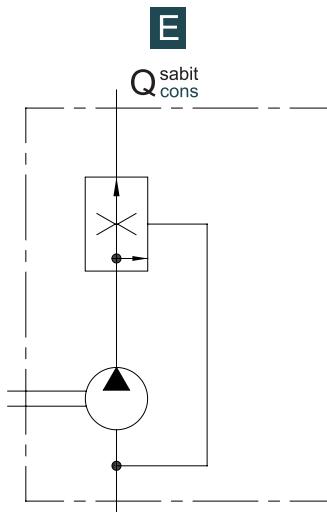
$$M_{max} = \frac{P_1 \cdot V_1}{2 \cdot \pi \eta m} + \frac{P_2 \cdot V_2}{2 \cdot \pi \eta m} + \frac{P_3 \cdot V_3}{2 \cdot \pi \eta m}$$

14. VALFLİ POMPALAR

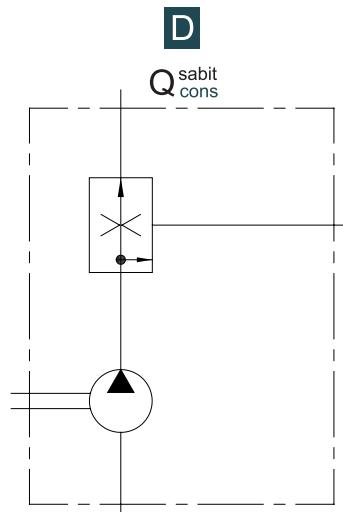
Hidrolik direksiyon veya diğer uygulama sistemlerinde pompaların arka kapağına akış kontrol valfi, akış bölücü valf, yük duyarlı valf veya emniyet valfini uygulamak mümkündür. Akış kontrol ve akış bölücü valflerde, pompanın her devrinde debi sabit olacaktır. Fazla debi kapağın içinde tekrar emiş tarafına geçmeyecektir veya başka bir ekipmanda kullanılmak üzere valfin dışına alınabilecektir.

14. GEAR PUMPS WITH INTEGRAL VALVES

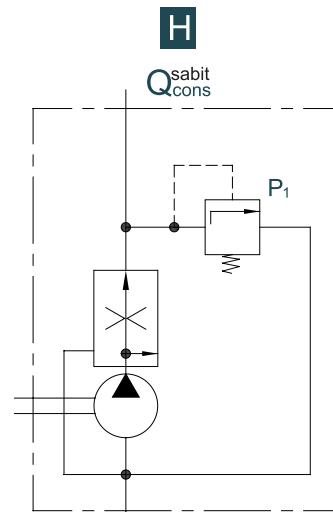
It is possible to apply a flow control valve, flow divider valve, load sensing valve or relief valve in the rear cover of the gear pump. On the flow control valves and the flow divider valves, the flow rate must be fixed at all speed of the pumps. The excess flow is either returned internally to the suction port or distributed externally to other items.



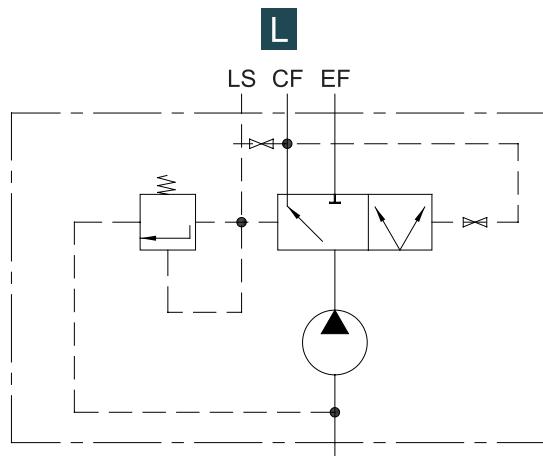
Akış Kontrol Valfi
Flow Control Valve



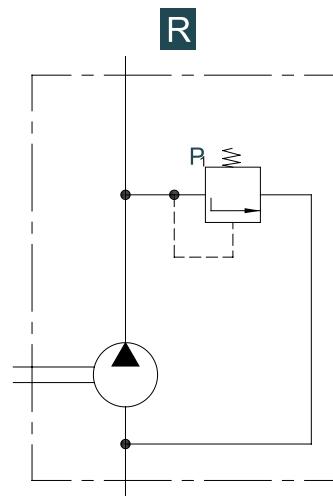
Akış Bölücü Valfi
Flow Divider Valve



Emniyet Valfli Akış Kontrol Valfi
Flow Control Valve With Relief Valve



Yük Duyarlı Valfi
Load Sensing Valve



Emniyet Valfi
Relief Valve

15. POMPA HESAPLARI

Pompa dizayn hesaplarında aşağıdaki parametreler esas alınır.

$V(\text{cm}^3 / \text{dev})$: İletim Hacmi

$Q(\text{l/dak})$: Debi

$P(\text{bar})$: Basınç

$M(\text{Nm})$: Döndürme Torku

$n(d/d)$: Hız

$N(\text{kw})$: Güç

$\eta_v(\%)$: Volumetrik Verim

$\eta_m(\%)$: Mekanik Verim

$\eta_t(\%)$: Toplam Verim

15. CALCULATION THE SPECIFICATION OF A GEAR PUMP

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

$V(\text{cm}^3 / \text{rev})$: Displacement

$Q(\text{l/min})$: Flow Range

$P(\text{bar})$: Pressure

$M(\text{Nm})$: Drive Torque

$n(\text{rpm})$: Speed

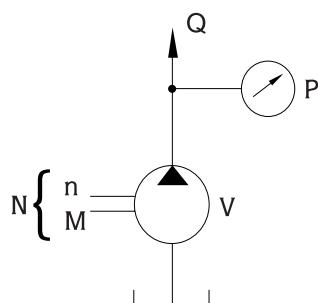
$N(\text{kw})$: Power

$\eta_v(\%)$: Volumetric Efficiency

$\eta_m(\%)$: Mechanical Efficiency

$\eta_t(\%)$: Total Efficiency

FORMÜLLER FORMULAS



$$Q = \frac{V \cdot n}{1000} \cdot \eta_v$$

$$N = \frac{Q \cdot P}{600 \cdot \eta_t}$$

$$\eta_t = \eta_m \cdot \eta_v$$

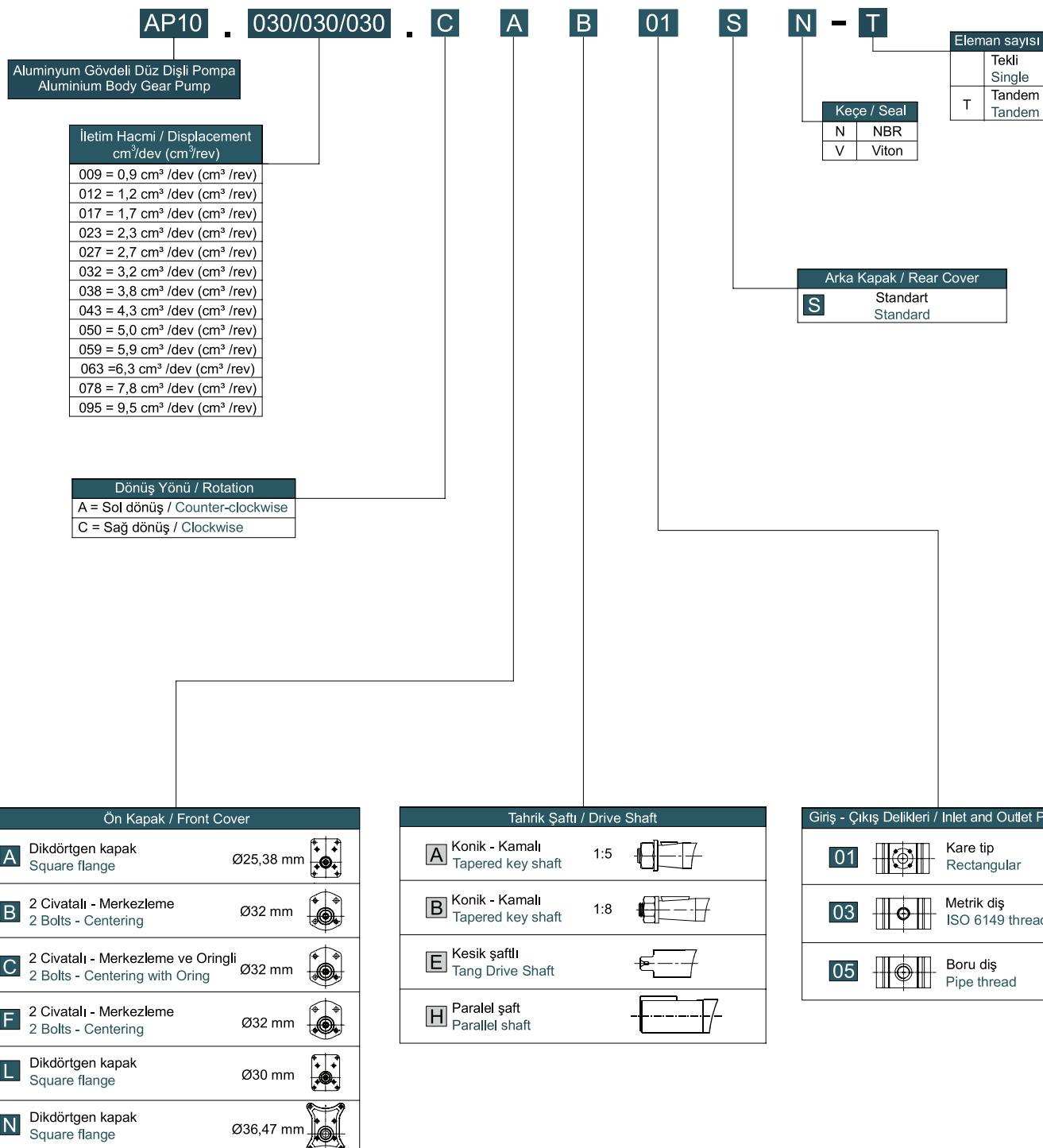
Tavsiye Edilen Verim
Recommended Efficiency

$$\eta_v = \%95$$

$$\eta_m = \%87 - \%90$$

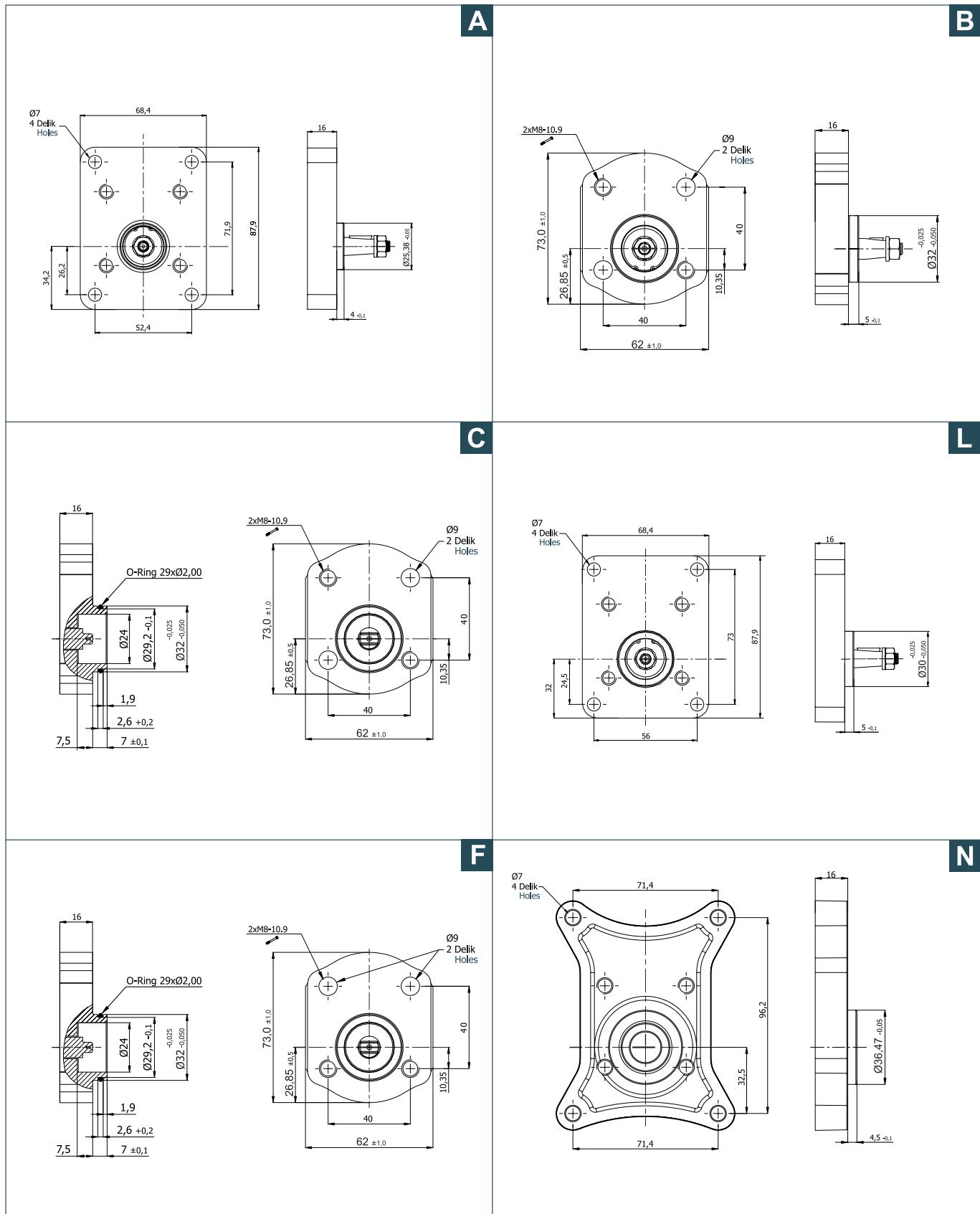
$$\eta_t = \%82$$

AP10 POMPALARIN KODLAMA SİSTEMİ ORDERING CODE OF AP10 PUMPS

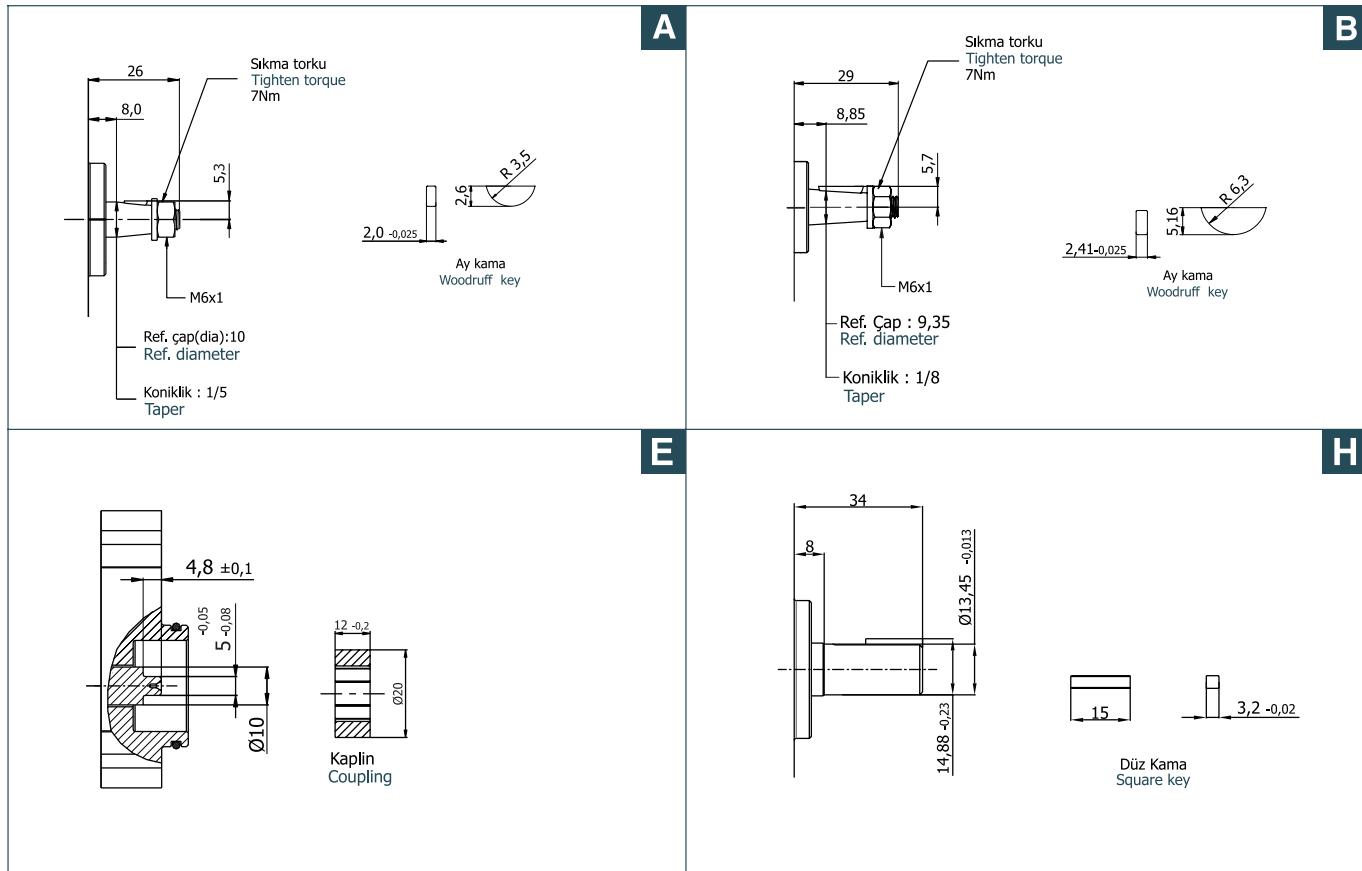


- Kodlama Örneği (Tekli) ; AP10.030.CAB01SN
Code Example (Single)

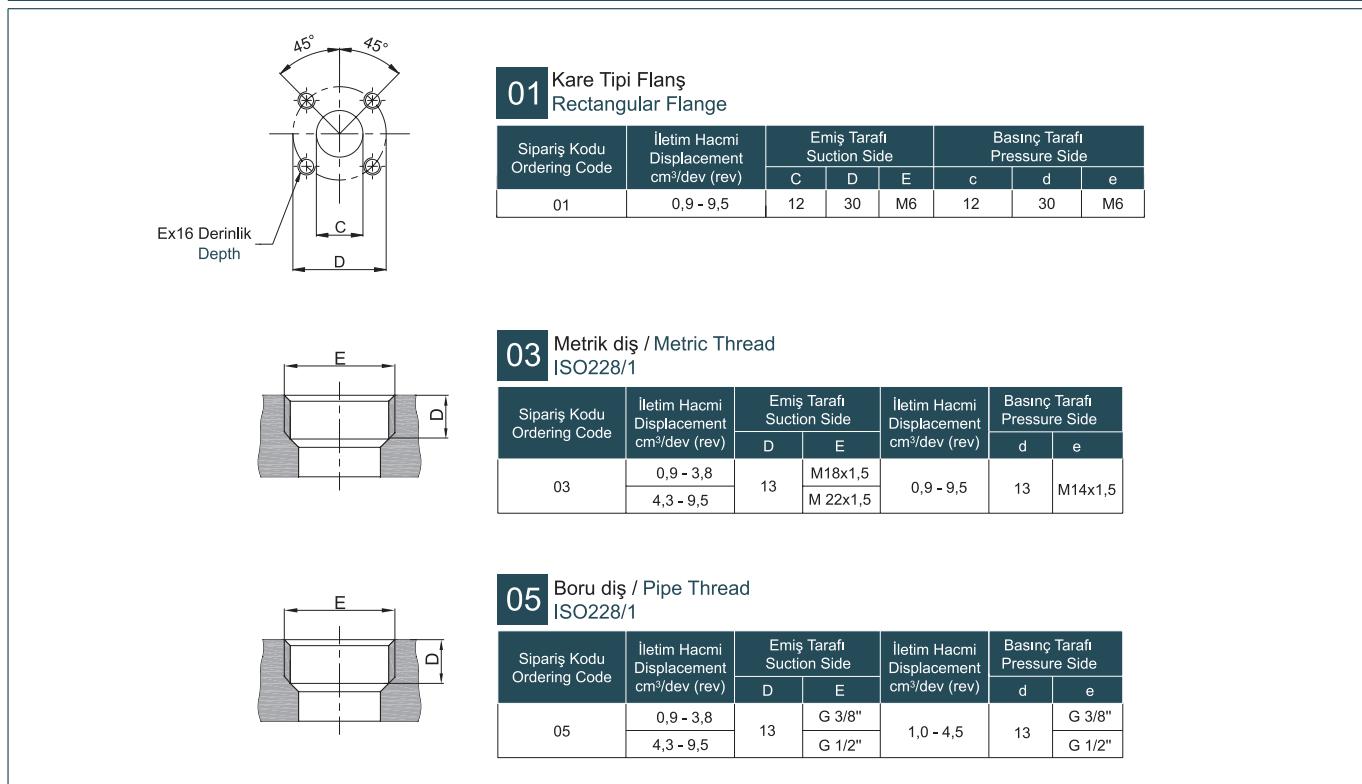
- Kodlama Örneği (Tandem) ; AP10.030/030/030.CAB01SN-T
Code Example (Tandem)



GRUP 10 ŞAFT TİPLERİ / GROUP 10 SHAFT TYPES



GRUP 10 GÖVDE DELİK TİPLERİ / GROUP 10 BODY HOLE TYPES



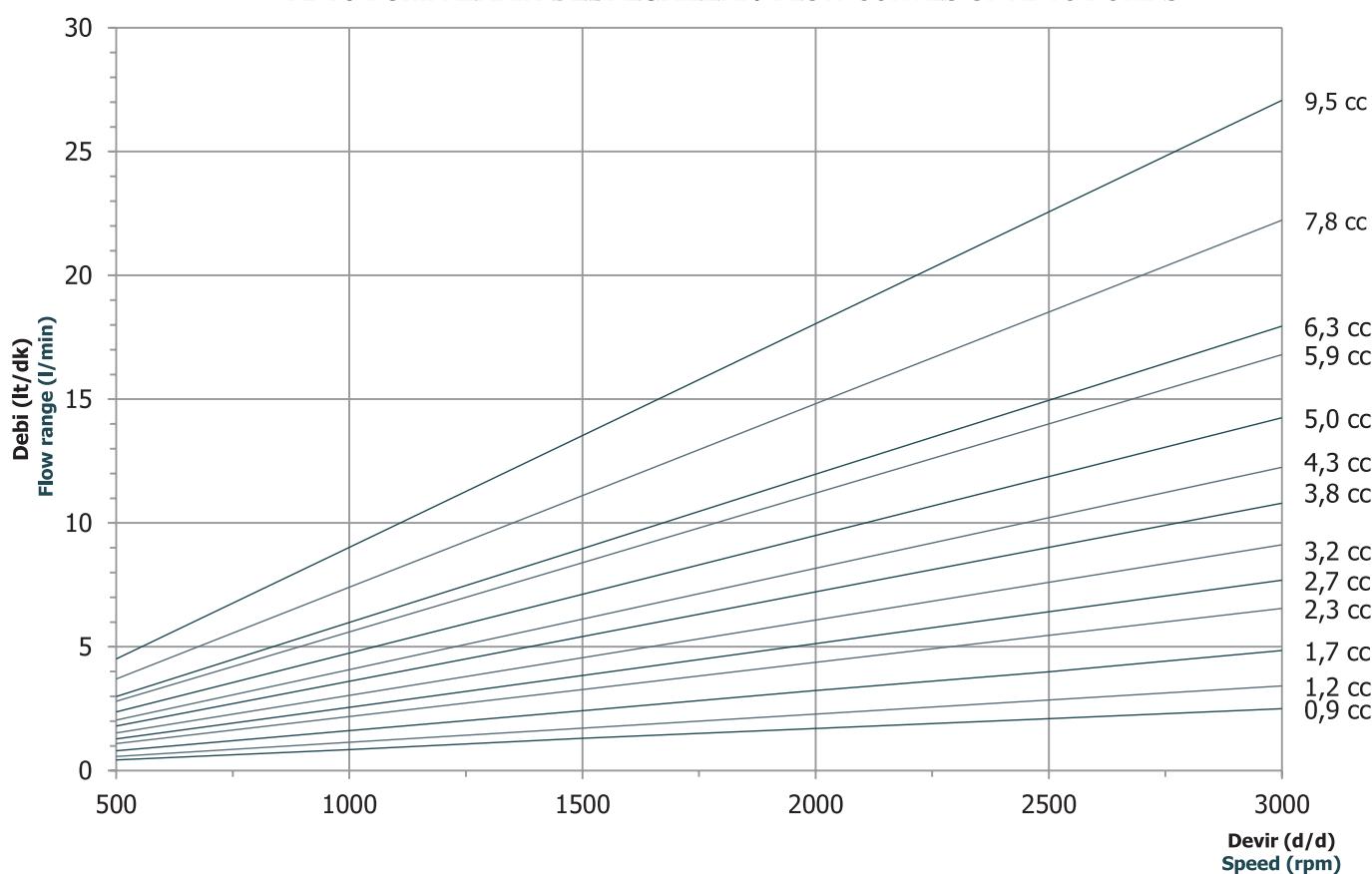
AP10 TEKNİK ÖZELLİKLERİ / AP10 TECHNICAL DATA

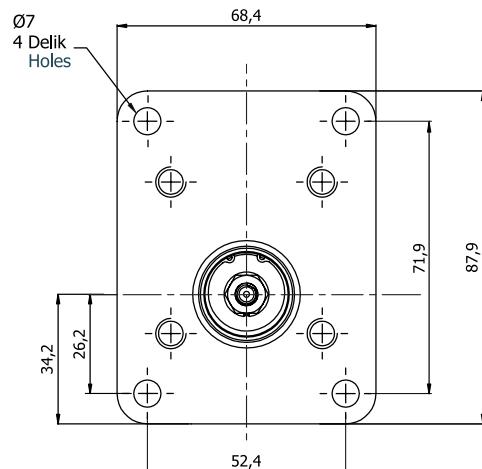
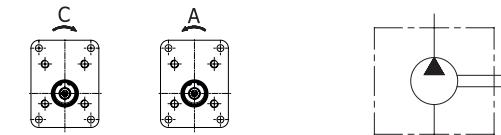
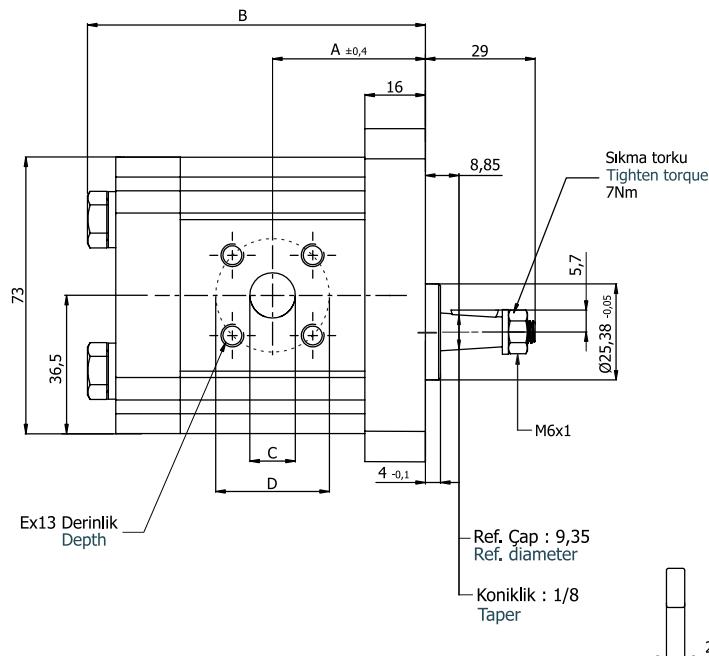
Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç / Max. Pressure			Maks. Hız Max. Speed	Min. Hız Min. Speed
		P1	P2	P3		
		bar			d/d (rpm)	
AP10.009	0,9	220	240	250	4000	650
AP10.012	1,2	220	240	250	4000	650
AP10.017	1,7	220	240	250	4000	650
AP10.023	2,3	220	240	250	4000	650
AP10.027	2,7	220	240	250	4000	650
AP10.032	3,2	220	240	250	4000	650
AP10.038	3,8	220	240	250	3500	650
AP10.043	4,3	220	240	250	3500	650
AP10.050	5,0	220	240	250	3500	650
AP10.059	5,9	220	240	250	3500	650
AP10.063	6,3	220	240	250	3500	650
AP10.078	7,8	210	230	240	3500	650
AP10.095	9,5	200	220	230	3500	650

P1: Sürekli çalışma basıncı
Continuous pressure

P2 : Aralıklı çalışma basıncı¹
Intermittent pressure

P3 : Ani basınç
Peak pressure

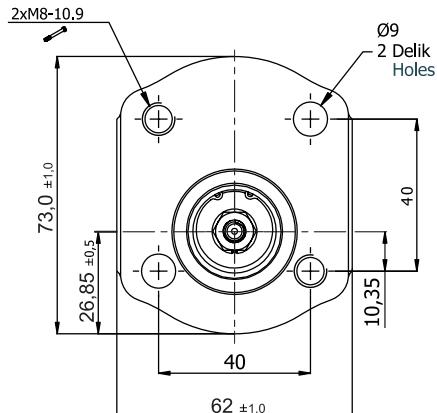
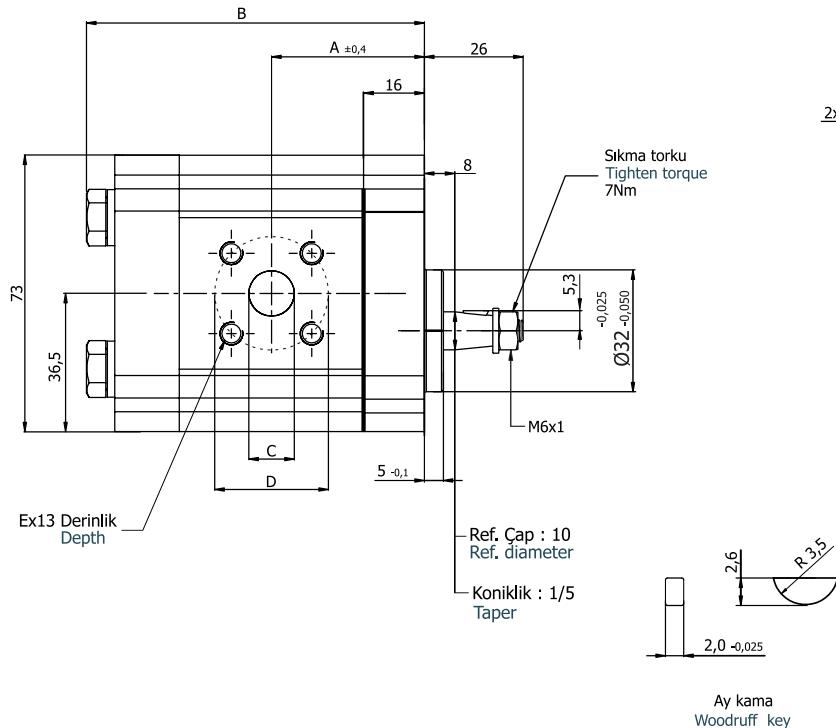
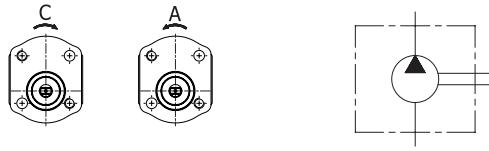
AP10 POMPALARIN DEBİ EĞRİLERİ / FLOW CURVES OF AP10 PUMPS


A Ön Kapak
Front Cover**B** Şaft Tipi
Shaft Type

Pompa Tipi Pump 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	D	E	c	d	e	
AP10.009.A/CAB01SN	0,9	220	4000	34,9	78,1	12	30	M6	12	30	M6	
AP10.012.A/CAB01SN	1,2			35,5	79,3							
AP10.017.A/CAB01SN	1,7			36,5	81,3							
AP10.023.A/CAB01SN	2,3			37,5	83,3							
AP10.027.A/CAB01SN	2,7			38,5	85,3							
AP10.032.A/CAB01SN	3,2			39,3	86,8							
AP10.038.A/CAB01SN	3,8	3500		40,5	89,3							
AP10.043.A/CAB01SN	4,3			41,5	91,3							
AP10.050.A/CAB01SN	5,0			43,0	94,3							
AP10.059.A/CAB01SN	5,9			44,8	97,8							
AP10.063.A/CAB01SN	6,3			45,5	99,3							
AP10.078.A/CAB01SN	7,8	210	48,5	105,3								
AP10.095.A/CAB01SN	9,5	200		52,0	112,3							

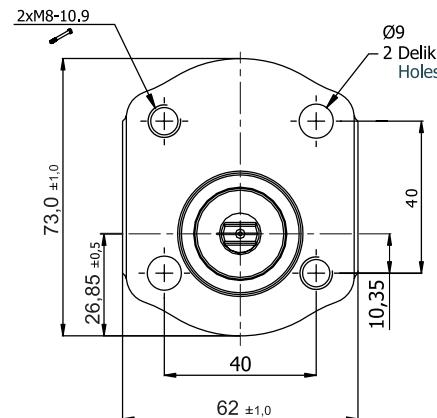
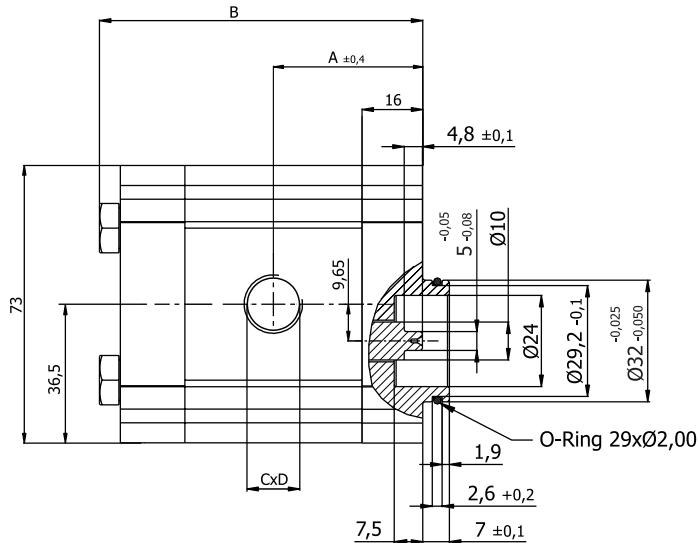
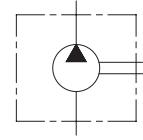
B Ön Kapak
Front Cover

A Şaft Tipi Shaft Type



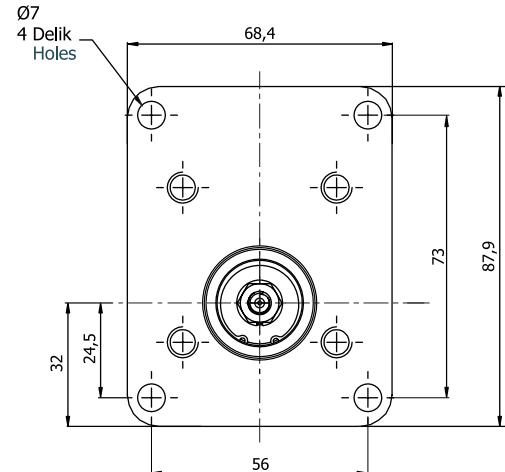
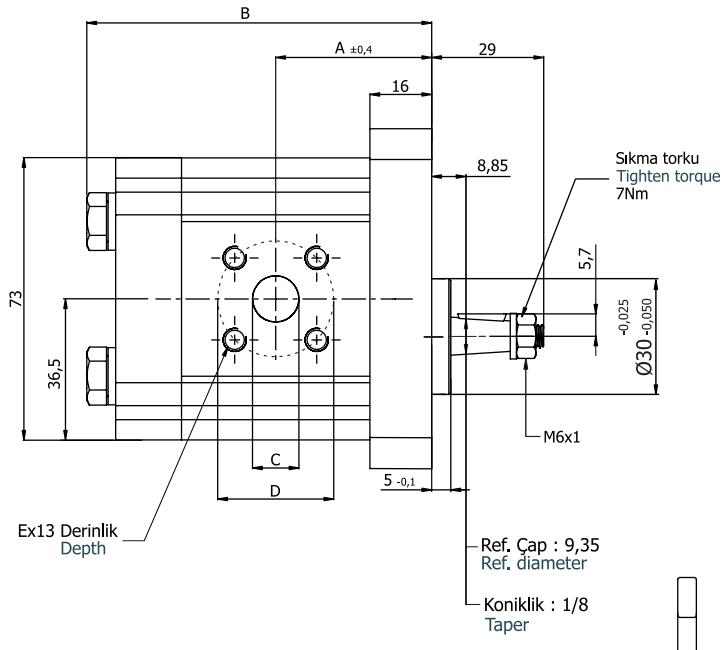
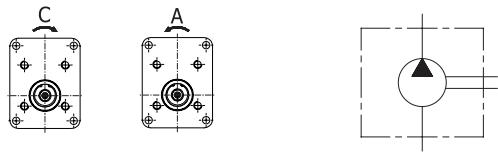
C Ön Kapak
Front Cover

E Şaft Tipi Shaft Type



Pompa Tipi Pump 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	D	c	d
AP10.009.A/CCE05SN	0,9	220	4000	34,9	78,1	G 3/8 "	G 3/8 "	13	13
AP10.012.A/CCE05SN	1,2			35,5	79,3				
AP10.017.A/CCE05SN	1,7			36,5	81,3				
AP10.023.A/CCE05SN	2,3			37,5	83,3				
AP10.027.A/CCE05SN	2,7			38,5	85,3				
AP10.032.A/CCE05SN	3,2			39,3	86,8				
AP10.038.A/CCE05SN	3,8		3500	40,5	89,3				
AP10.043.A/CCE05SN	4,3			41,5	91,3	G 1/2 "	G 1/2 "		
AP10.050.A/CCE05SN	5,0			43,0	94,3				
AP10.059.A/CCE05SN	5,9			44,8	97,8				
AP10.063.A/CCE05SN	6,3			45,5	99,3				
AP10.078.A/CCE05SN	7,8	210	200	48,5	105,3				
AP10.095.A/CCE05SN	9,5	200		52,0	112,3				

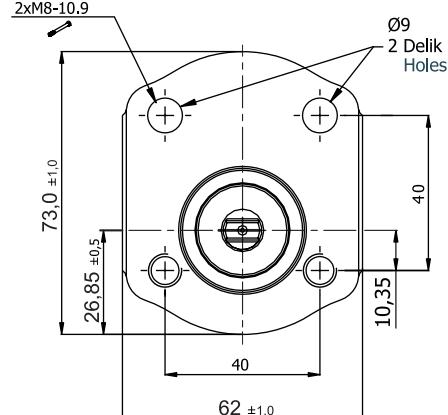
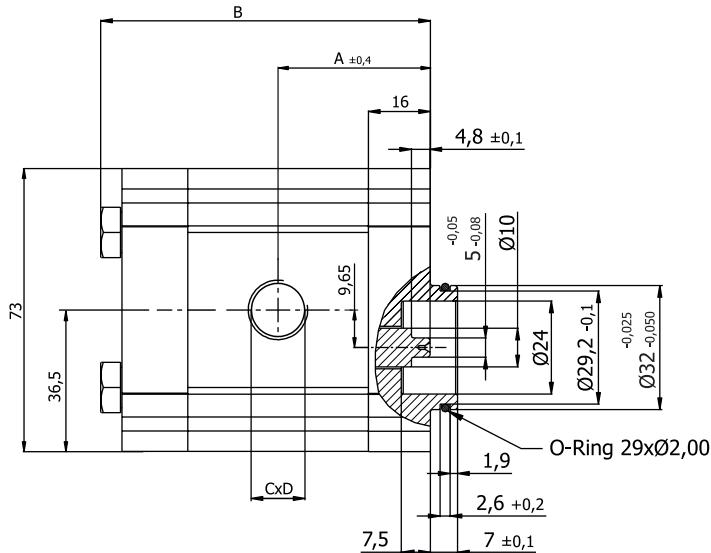
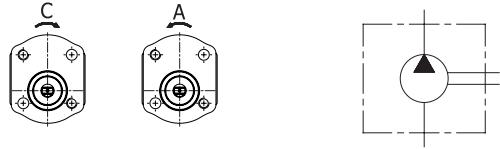
L Ön Kapak
Front Cover

B Şaft Tipi
Shaft Type

Ay kama
Woodruff key

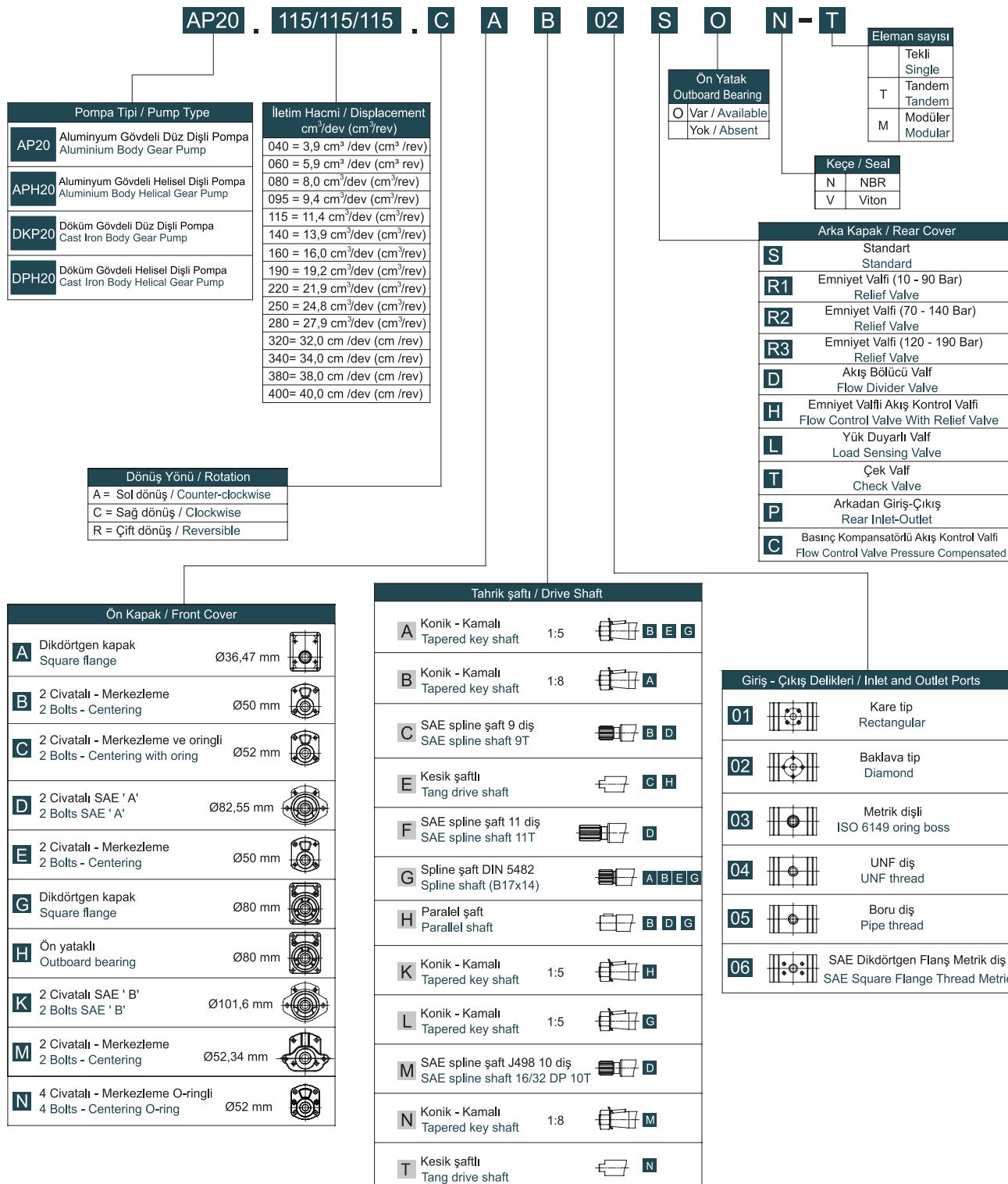
Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş - Inlet		Çıkış - Outlet	
						C	D	c	d
AP10.009.A/CLB03SN	0,9	220	4000	34,9	78,1	M18x1,5	13	M14x1,5	13
AP10.012.A/CLB03SN	1,2			35,5	79,3				
AP10.017.A/CLB03SN	1,7			36,5	81,3				
AP10.023.A/CLB03SN	2,3			37,5	83,3				
AP10.027.A/CLB03SN	2,7			38,5	85,3				
AP10.032.A/CLB03SN	3,2			39,3	86,8				
AP10.038.A/CLB03SN	3,8			40,5	89,3				
AP10.043.A/CLB03SN	4,3	210	3500	41,5	91,3	M22x1,5	13	M14x1,5	13
AP10.050.A/CLB03SN	5,0			43,0	94,3				
AP10.059.A/CLB03SN	5,9			44,8	97,8				
AP10.063.A/CLB03SN	6,3			45,5	99,3				
AP10.078.A/CLB03SN	7,8			48,5	105,3				
AP10.095.A/CLB03SN	9,5	200		52,0	112,3				

F Ön Kapak Front Cover

E Şaft Tipi Shaft Type



Pompa Tipi Pump 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		Çıkış - Outlet	
						C	D	c	d
AP10.009.A/CFE05SN	0,9	220	4000	34,9	78,1	G 3/8 "	13	G 3/8 "	13
AP10.012.A/CFE05SN	1,2			35,5	79,3				
AP10.017.A/CFE05SN	1,7			36,5	81,3				
AP10.023.A/CFE05SN	2,3			37,5	83,3				
AP10.027.A/CFE05SN	2,7			38,5	85,3				
AP10.032.A/CFE05SN	3,2			39,3	86,8				
AP10.038.A/CFE05SN	3,8		3500	40,5	89,3				
AP10.043.A/CFE05SN	4,3			41,5	91,3				
AP10.050.A/CFE05SN	5,0			43,0	94,3				
AP10.059.A/CFE05SN	5,9			44,8	97,8	G 1/2 "	13	G 1/2 "	13
AP10.063.A/CFE05SN	6,3			45,5	99,3				
AP10.078.A/CFE05SN	7,8	210		48,5	105,3				
AP10.095.A/CFE05SN	9,5	200		52,0	112,3				

GRUP 20 POMPALARIN KODLAMA SİSTEMİ
ORDERING CODE OF GROUP 20 PUMPS

- Kodlama Örneği (Tekli) ; AP20.115.CAB02SN
Code Example (Single)

- Kodlama Örneği (Tandem) ; AP20.115/115/115.CAB02SN-T
Code Example (Tandem)

- Kodlama Örneği (Modüler) ; AP20.115/115/115.CAB02SN-M
Code Example (Modular)

Grup 20 pompalar 4 cc³/dev. 'den 40 cc³/rev. 'e kadar ki iletim hacmine sahip pompalardır.

Kendi içinde AP20 , APH20 , DKP20 , DPH20 olarak 4 gruba ayrılır. Aşağıdaki Tablo da bu 4 grubun birbirinden farklı olan teknik özellikleri belirtilmiştir;

- AP20 (Aluminyum Gövdeli Düz Dişli Pompalar)
- APH20 (Aluminyum Gövdeli Helisel Dişli Pompalar)
- DKP20 (Döküm Gövdeli Düz Dişli Pompalar)
- DPH20 (Döküm Gövdeli Helisel Dişli Pompalar)

Group 20 pumps has a working capacity from 4 cc³/rev to 40 cc³/rev.

It has 4 sub-groups in itself as AP20, APH20, DKP20 and DPH20. The differences between the 4 sub-groups technical specifications can be found on the below table.

- AP20 (Aluminium Body Gear Pumps)
- APH20 (Aluminium Body Helical Gear Pumps)
- DKP20 (Cast Iron Body Gear Pumps)
- DPH20 (Cast Iron Body Helical Gear Pumps)

AP20 TEKNİK ÖZELLİKLER / AP20 TECHNICAL DATA

Pompa Tipi Pump 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)	
AP20.040	3,9	250	280	300	3500	650
AP20.060	5,9	250	280	300	3500	650
AP20.080	8,0	250	280	300	3500	650
AP20.095	9,4	250	280	300	3500	600
AP20.115	11,4	250	280	300	3000	600
AP20.140	13,9	250	280	300	3000	600
AP20.160	16,0	250	280	300	3000	600
AP20.190	19,2	250	280	300	3000	600
AP20.220	21,9	210	240	260	2500	600
AP20.250	24,8	190	220	240	2500	600
AP20.280	27,9	170	220	220	2200	600
AP20.320	32,0	160	190	210	2000	500
AP20.340	34,0	150	180	200	2000	500
AP20.380	38,0	140	170	190	1750	500
AP20.400	40,0	130	170	190	1750	500

P1: Sürekli çalışma basıncı
Continuous pressure

P2 : Aralıklı çalışma basıncı¹
Intermittent pressure

P3 : Ani basınç
Peak pressure

APH20 TEKNİK ÖZELLİKLER / APH20 TECHNICAL DATA

Pompa Tipi Pump 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)	
APH20.040	3,9	250	280	300	3500	650
APH20.060	5,9	250	280	300	3500	650
APH20.080	8,0	250	280	300	3500	650
APH20.095	9,4	250	280	300	3500	600
APH20.115	11,4	250	280	300	3000	600
APH20.140	13,9	250	280	300	3000	600
APH20.160	16,0	250	280	300	3000	600
APH20.190	19,2	250	280	300	3000	600
APH20.220	21,9	210	240	260	2500	600
APH20.250	24,8	190	220	240	2500	600
APH20.280	27,9	170	220	220	2200	600
APH20.320	32,0	160	190	210	2000	500
APH20.340	34,0	150	180	200	2000	500
APH20.380	38,0	140	170	190	1750	500
APH20.400	40,0	130	170	190	1750	500

P1: Sürekli çalışma basıncı
Continuous pressure

P2 : Aralıklı çalışma basıncı¹
Intermittent pressure

P3 : Ani basınç
Peak pressure

DKP20 TEKNİK ÖZELLİKLER / DKP20 TECHNICAL DATA

Pompa Tipi Pump Type	İletim Hacmi Displacement cm ³ /dev(cm ³ /rev)	Maks. Basınç / Max. Pressure			Maks. Hız Max. Speed d/d (rpm)	Min. Hız Min. Speed
		P1	P2	P3		
		bar				
DKP20.040	3,9	280	300	320	3500	650
DKP20.060	5,9	280	300	320	3500	650
DKP20.080	8,0	280	300	320	3500	650
DKP20.095	9,4	280	300	320	3500	600
DKP20.115	11,4	280	300	320	3000	600
DKP20.140	13,9	280	300	320	3000	600
DKP20.160	16,0	280	300	320	3000	600
DKP20.190	19,2	280	300	320	3000	600
DKP20.220	21,9	240	260	280	2500	600
DKP20.250	24,8	220	240	260	2500	600
DKP20.280	27,9	200	240	260	2200	600

P1: Sürekli çalışma basıncı
Continuous pressure

P2 : Aralıklı çalışma basıncı
Intermittent pressure

P3 : Ani basınç
Peak pressure

DPH20 TEKNİK ÖZELLİKLER / DPH20 TECHNICAL DATA

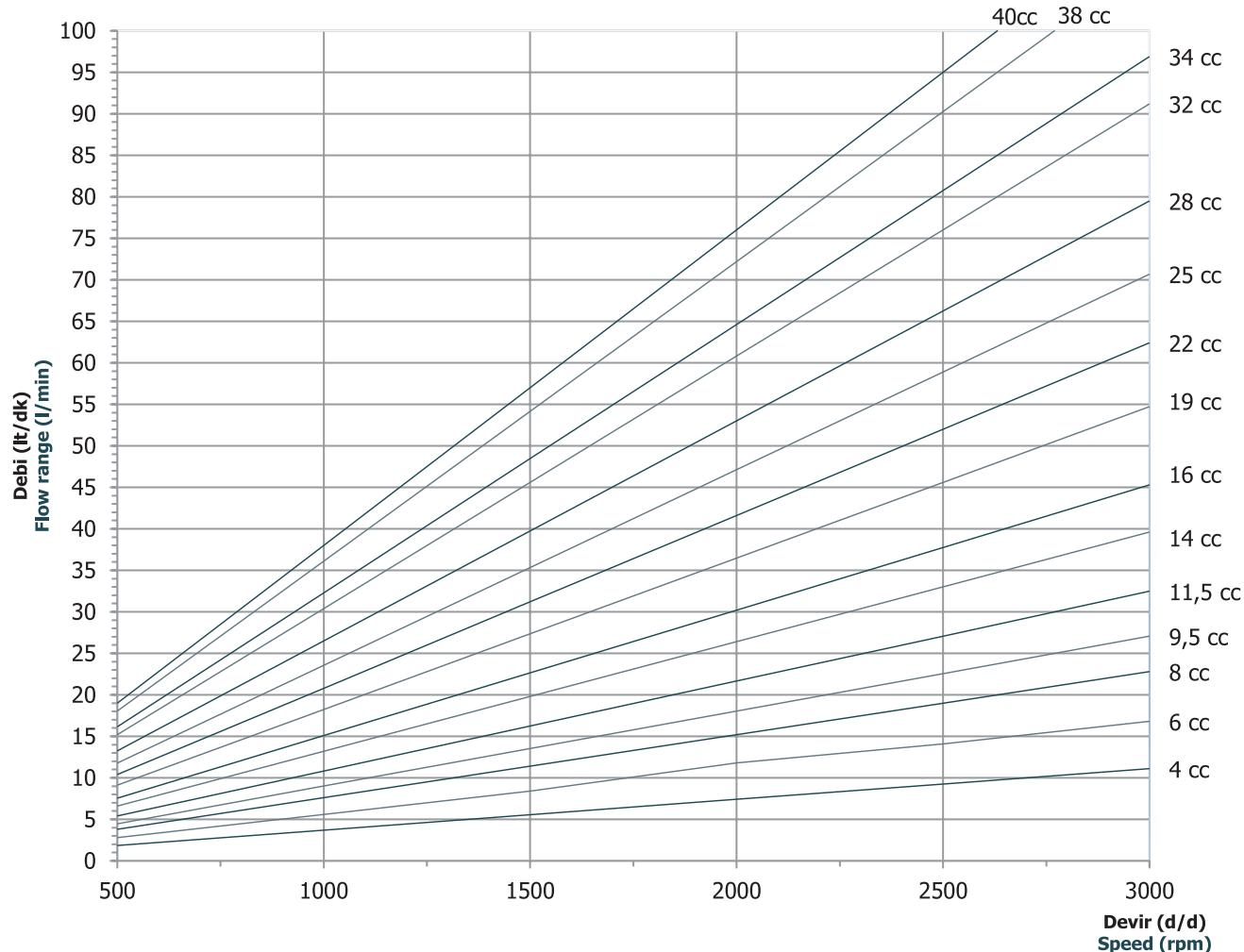
Pompa Tipi Pump Type	İletim Hacmi Displacement cm ³ /dev(cm ³ /rev)	Maks. Basınç / Max. Pressure			Maks. Hız Max. Speed d/d (rpm)	Min. Hız Min. Speed
		P1	P2	P3		
		bar				
DPH20.040	3,9	320	350	370	3500	650
DPH20.060	5,9	320	350	370	3500	650
DPH20.080	8,0	320	350	370	3500	650
DPH20.095	9,4	320	350	370	3500	600
DPH20.115	11,4	320	350	370	3000	600
DPH20.140	13,9	300	330	350	3000	600
DPH20.160	16,0	300	330	350	3000	600
DPH20.190	19,2	280	310	330	3000	600
DPH20.220	21,9	250	280	300	2500	600
DPH20.250	24,8	230	260	280	2500	600
DPH20.280	27,9	210	240	260	2200	600

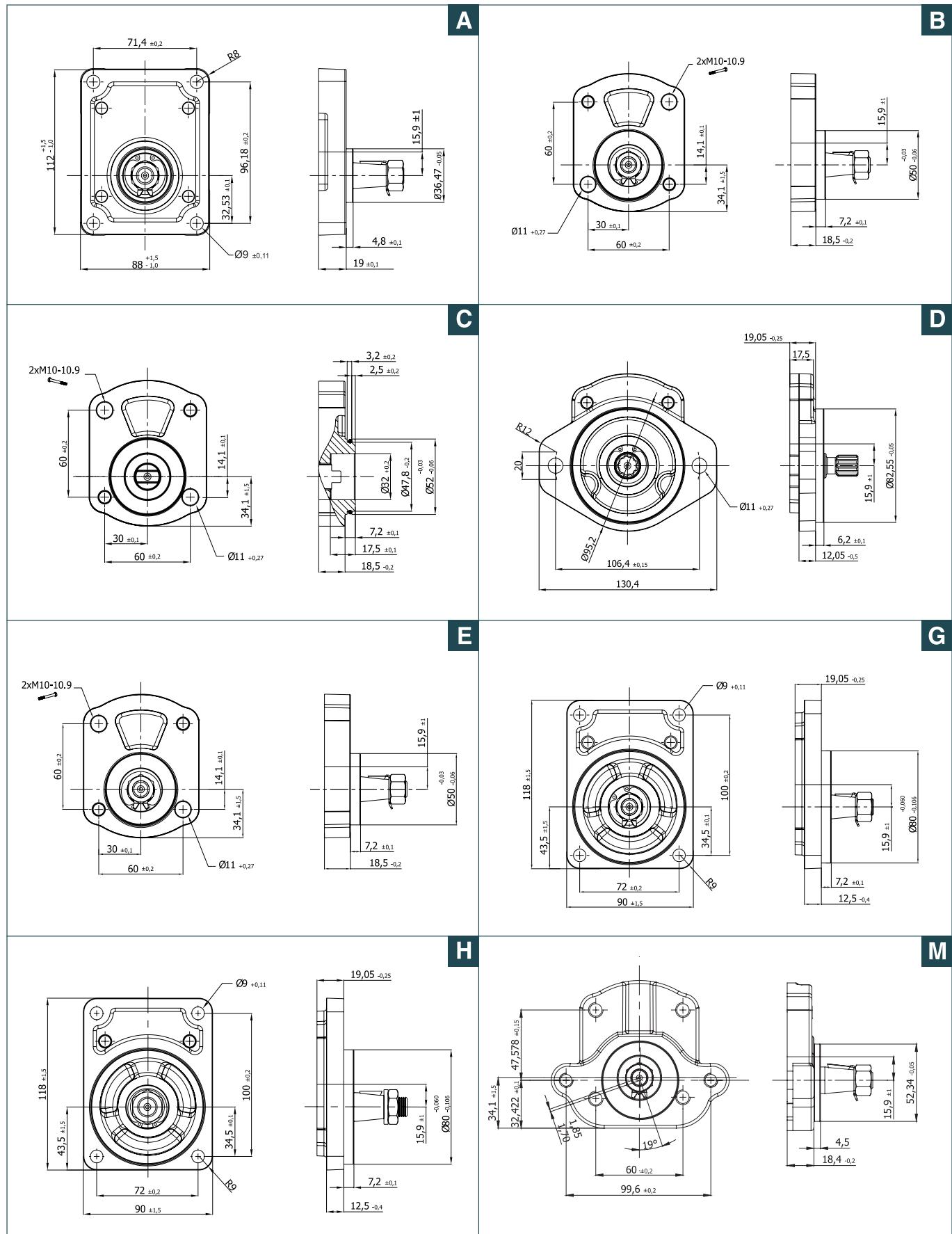
P1: Sürekli çalışma basıncı
Continuous pressure

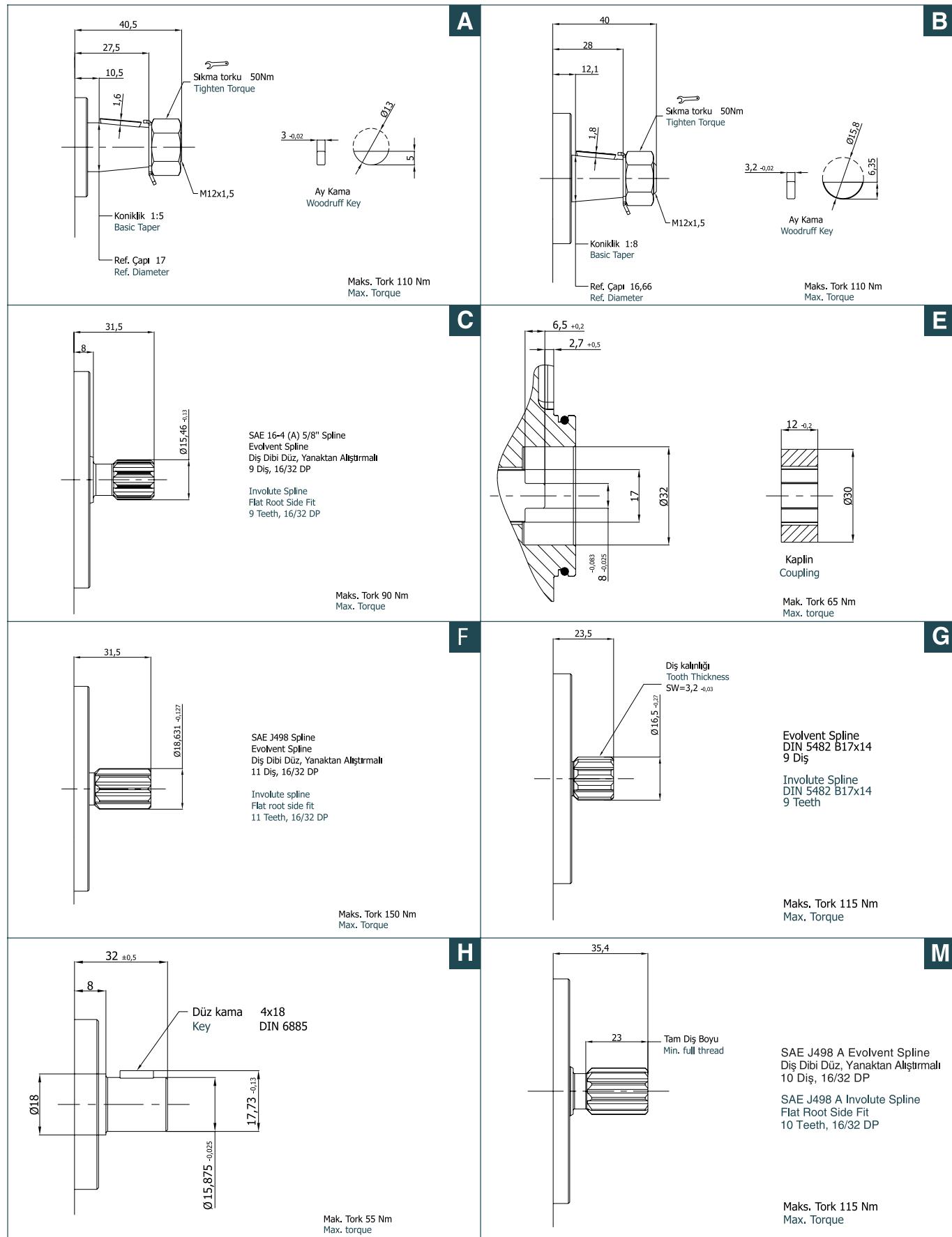
P2 : Aralıklı çalışma basıncı
Intermittent pressure

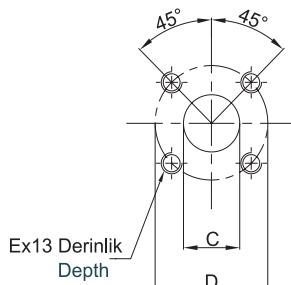
P3 : Ani basınç
Peak pressure

GRUP 20 POMPALARIN DEBİ EĞRİLERİ / FLOW CURVES OF GROUP 20 PUMPS

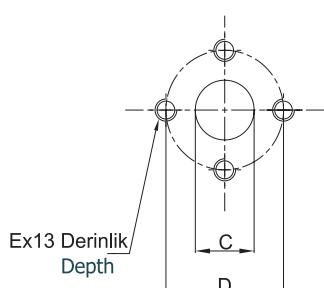




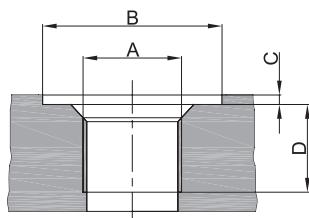



01 Kare Tipi Flanş
Rectangular Flange

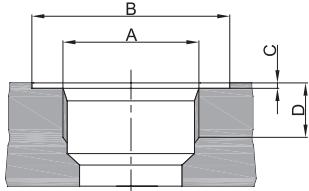
Sipariş Kodu Ordering Code	İletim Hacmi Displacement cm³/dev (rev)	Emiş Taraflı Suction Side			Basınç Taraflı Pressure Side		
		C	D	E	c	d	e
01	4	12	40	M6	12	35	M6
	6	13,5			13,5		
	8 – 25	20			15		
	28 – 40				20	40	


02 Baklava Tipi Flanş
Diamond Flange

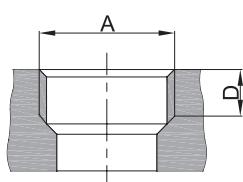
Sipariş Kodu Ordering Code	İletim Hacmi Displacement cm³/dev (rev)	Emiş Taraflı Suction Side			Basınç Taraflı Pressure Side		
		C	D	E	c	d	e
02	4	12	30,2	M6	12	30,2	M6
	6 – 8	13,5			13,5		
	9,5 – 25	20	40	M8	20	40	
	28 – 40						M8


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

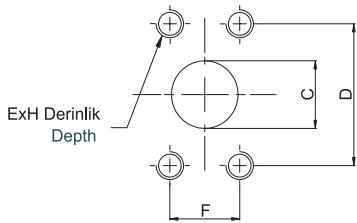
Sipariş Kodu Ordering Code	İletim Hacmi Displacement cm³/dev (rev)	Emiş Taraflı Suction Side				Basınç Taraflı Pressure Side			
		A	B	C	D	A	B	C	D
03	4 – 6	M18x1,5	30	0,5	16	M18x1,5	30	0,5	16
	8 – 16	M27x2	40		19	M22x1,5	35		19
	19 – 40	M33x2	45		22				


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

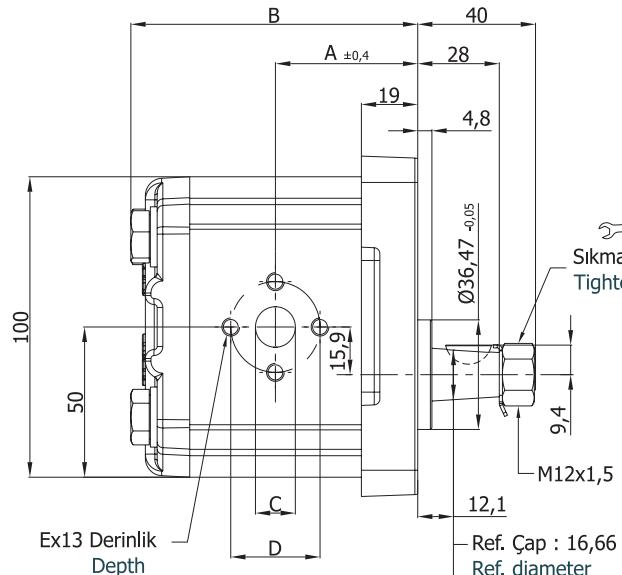
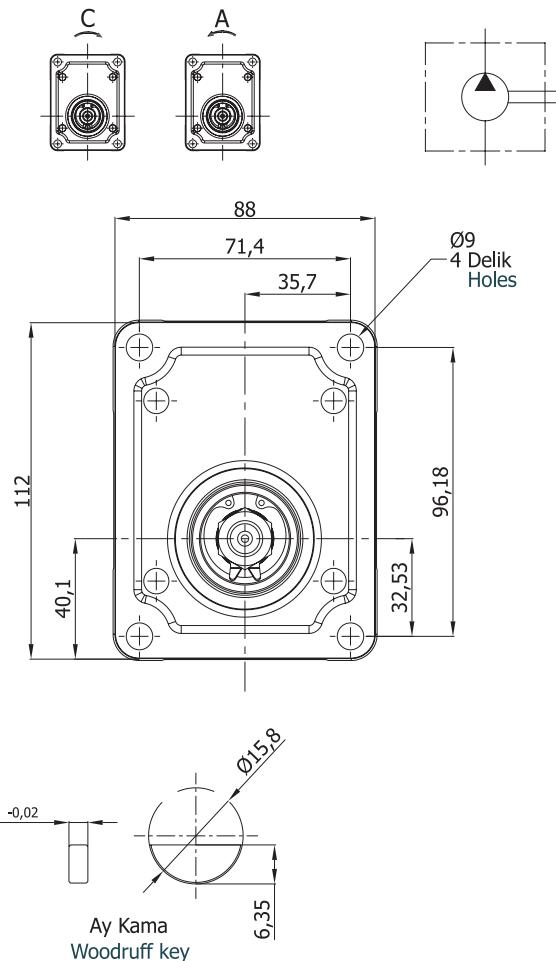
Sipariş Kodu Ordering Code	İletim Hacmi Displacement cm³/dev (rev)	Emiş Taraflı Suction Side				Basınç Taraflı Pressure Side			
		A	B	C	D	A	B	C	D
04	4 – 6	9/16-18 UNF-2B	25	0,5	13	9/16-18 UNF-2B	25	0,5	13
	8	7/8-14 UNF-2B	35		16	7/8-14 UNF-2B	35		16
	9,5 – 28	1 1/16-12 UN-2B	45		19	1 1/16-12 UN-2B	45		19
	32 – 40								


05 Boru diş / Pipe Thread
ISO228/1

Sipariş Kodu Ordering Code	İletim Hacmi Displacement cm³/dev (rev)	Emiş Taraflı Suction Side		Basınç Taraflı Pressure Side	
		A	D	A	D
05	4 – 16	G ¾	16	G ½	16
	19 – 40	G 1	19	G ¾	


06 SAE Dikdörtgen Flanş Metrik Diş
SAE Square Flange Metric Thread

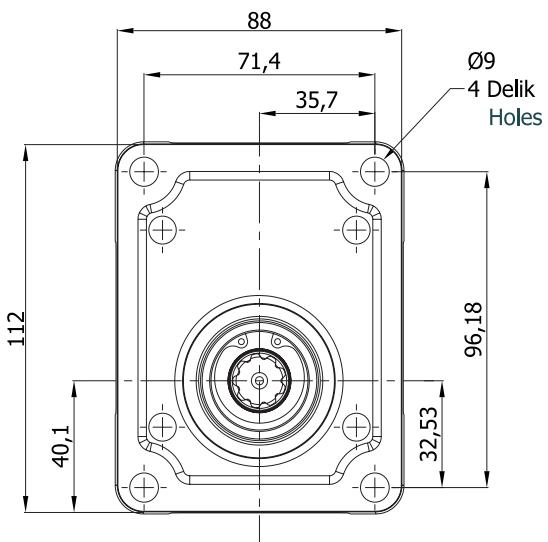
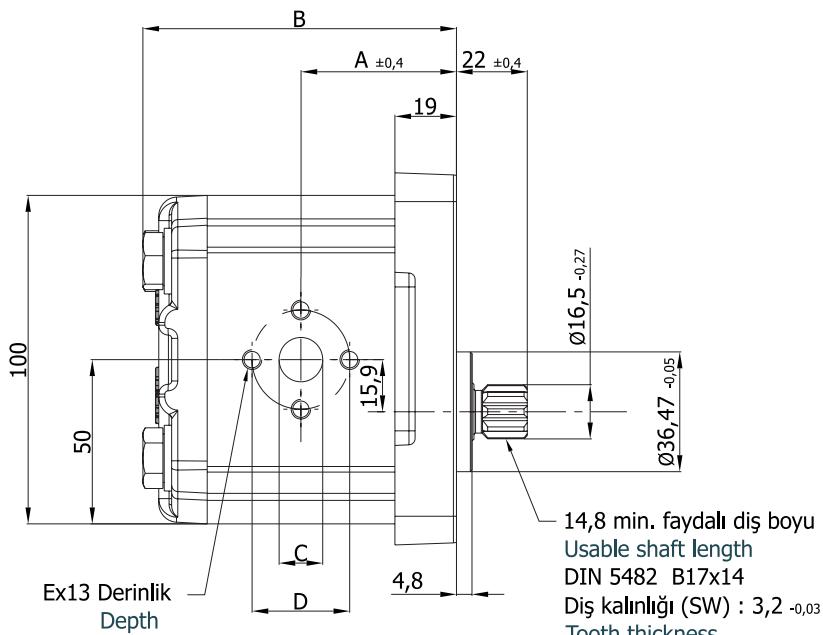
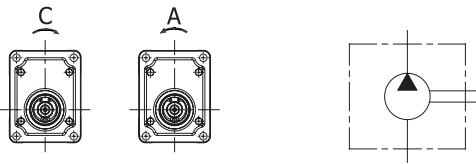
Sipariş Kodu Ordering Code	İletim Hacmi Displacement cm³/dev (rev)	Emiş Taraflı Suction Side					Basınç Taraflı Pressure Side				
		C	D	E	F	H	c	d	e	f	h
06	4 – 11,5	12	38,1	M8	17,5	13	12	38,1	M8	17,5	13
	14 – 19	20	47,6	M10	22,2	16	20	47,6	M10	22,2	16
	22 – 40	26	52,4		26,2		20	47,6	M10	22,2	16

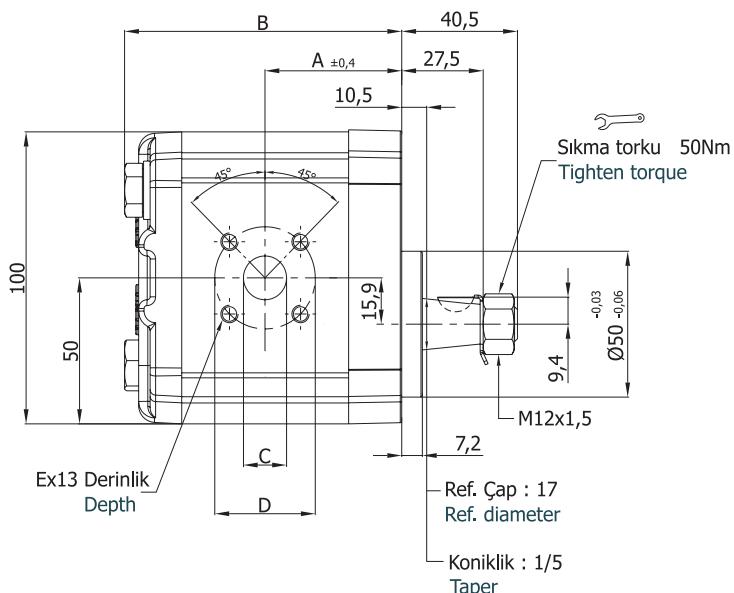
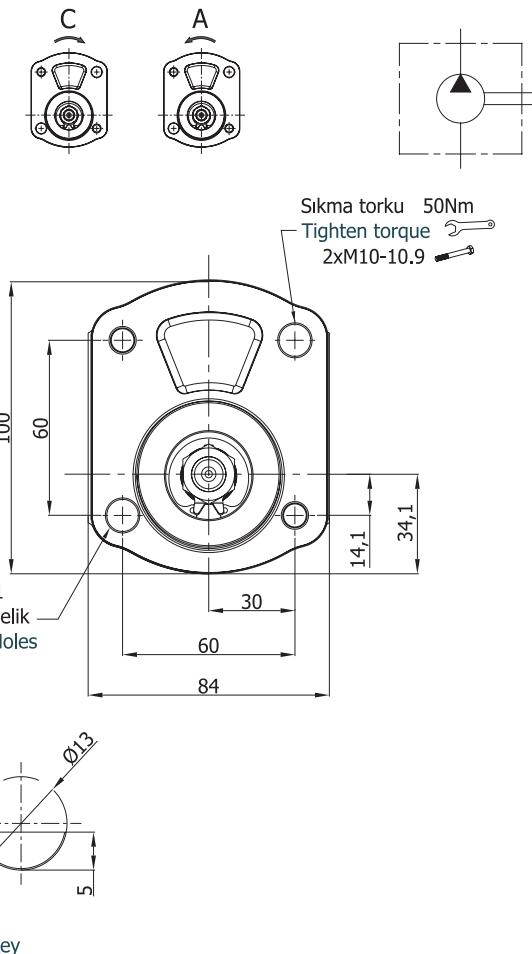
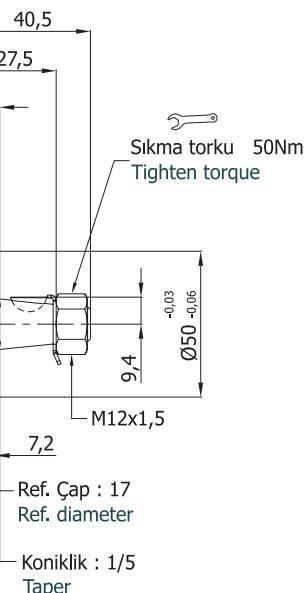
A Ön Kapak
Front Cover**B** Şaft Tipi
Shaft Type

Pompa Tipi Pump 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	D	E	c	d	e				
AP20.040.A/CAB02SN	3,9	250	3500	42,2	85,3	12	30,2	M6	12	30,2	M6				
AP20.060.A/CAB02SN	5,9			43,8	88,4	13,5			13,5						
AP20.080.A/CAB02SN	8,0			45,4	91,6										
AP20.095.A/CAB02SN	9,4			46,5	93,9										
AP20.115.A/CAB02SN	11,4		3000	48,2	97,0	40	M8	20	20	40	M8				
AP20.140.A/CAB02SN	13,9			50,0	101,0										
AP20.160.A/CAB02SN	16,0			51,7	104,1										
AP20.190.A/CAB02SN	19,2			60,2	121,1										
AP20.220.A/CAB02SN	21,9		2500	62,3	125,5										
AP20.250.A/CAB02SN	24,8			64,8	130,4										
AP20.280.A/CAB02SN	27,9	2000	67,0	134,9	1750	70,0	141,0	74,8	76,5	150,5	154,0				
AP20.320.A/CAB02SN	32,0		71,5	144,5											
AP20.340.A/CAB02SN	34,0		74,8	150,5											
AP20.380.A/CAB02SN	38,0		76,5	154,0											
AP20.400.A/CAB02SN	40,0														

A Ön Kapak
Front Cover

G Şaft Tipi Shaft Type

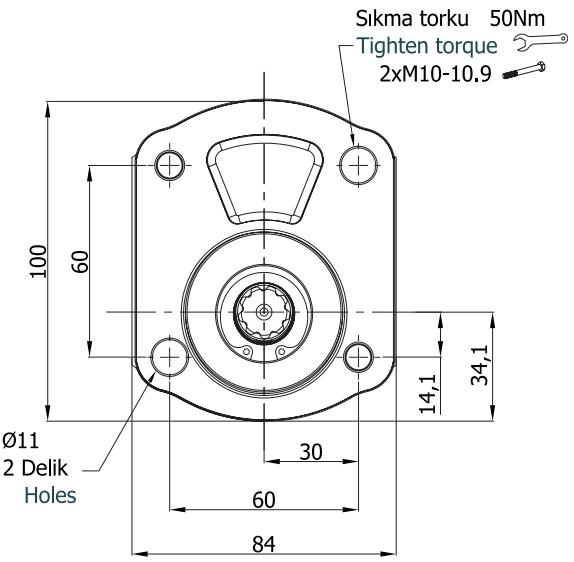
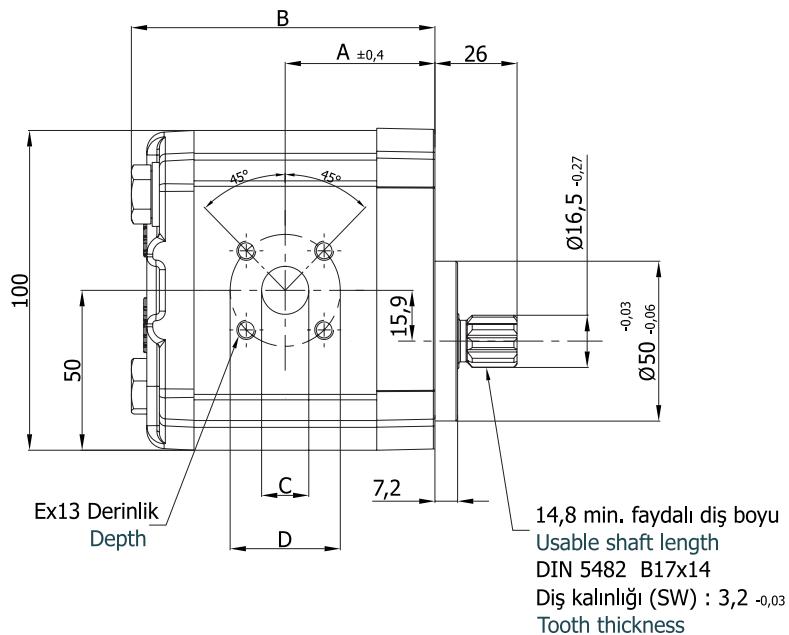
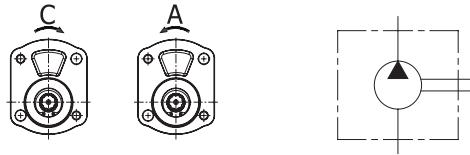


B Ön Kapak
Front Cover**A** Şaft Tipi
Shaft Type

Pompa Tipi Pump 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	D	E	c	d	e
AP20.040.A/CBA01SN	3,9	250	3500	41,6	84,7	12	20	M6	12	35	M6
AP20.060.A/CBA01SN	5,9			43,2	87,8	13,5			13,5		
AP20.080.A/CBA01SN	8,0			44,8	91,0						
AP20.095.A/CBA01SN	9,4			45,9	93,3						
AP20.115.A/CBA01SN	11,4		3000	47,6	96,4						
AP20.140.A/CBA01SN	13,9			49,4	100,4						
AP20.160.A/CBA01SN	16,0			51,1	103,5						
AP20.190.A/CBA01SN	19,2			59,6	120,5						
AP20.220.A/CBA01SN	21,9	210	2500	61,7	124,9						
AP20.250.A/CBA01SN	24,8			64,2	129,8						
AP20.280.A/CBA01SN	27,9	170	2000	66,4	134,3						
AP20.320.A/CBA01SN	32,0	160		69,4	140,4						
AP20.340.A/CBA01SN	34,0	150	1750	70,9	143,9						
AP20.380.A/CBA01SN	38,0	140		74,2	149,9						
AP20.400.A/CBA01SN	40,0	130		75,9	153,4						

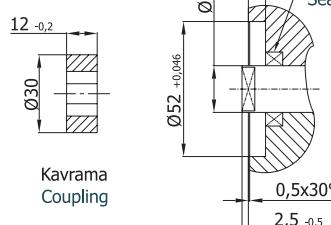
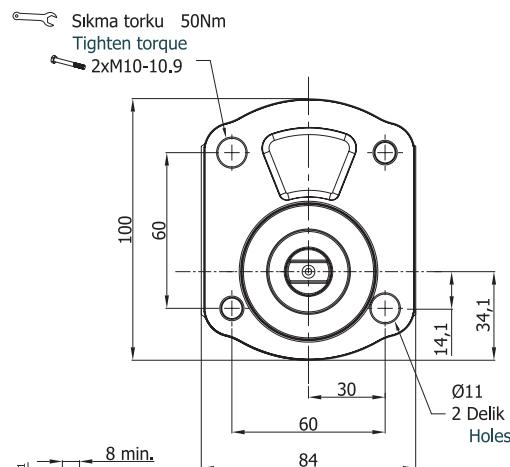
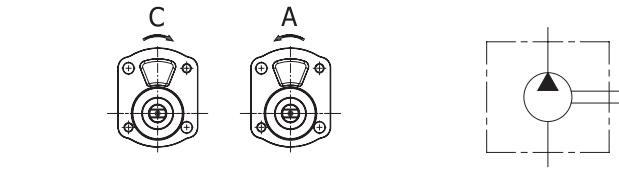
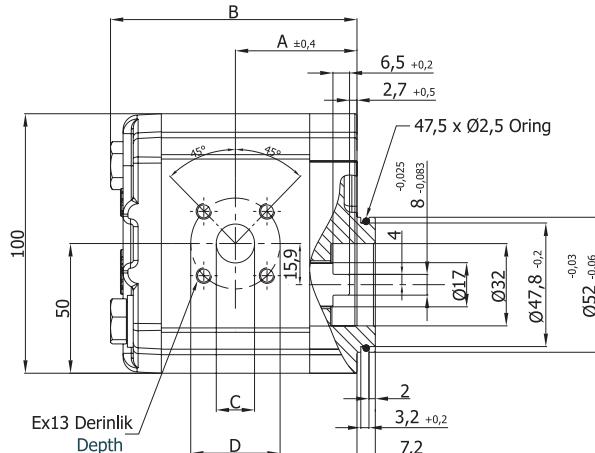
B Ön Kapak
Front Cover

G Şaft Tipi Shaft Type



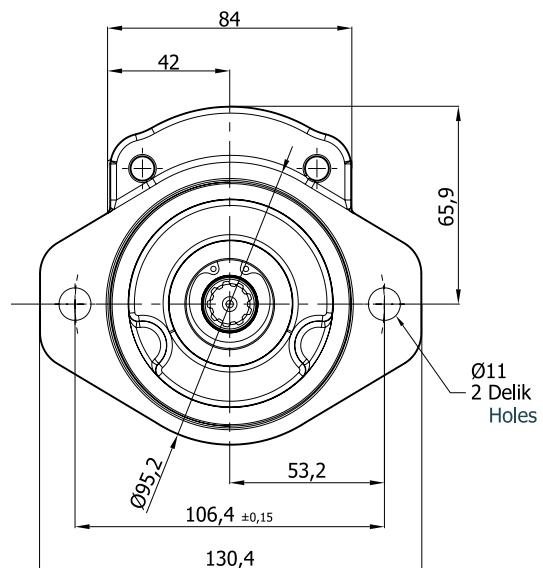
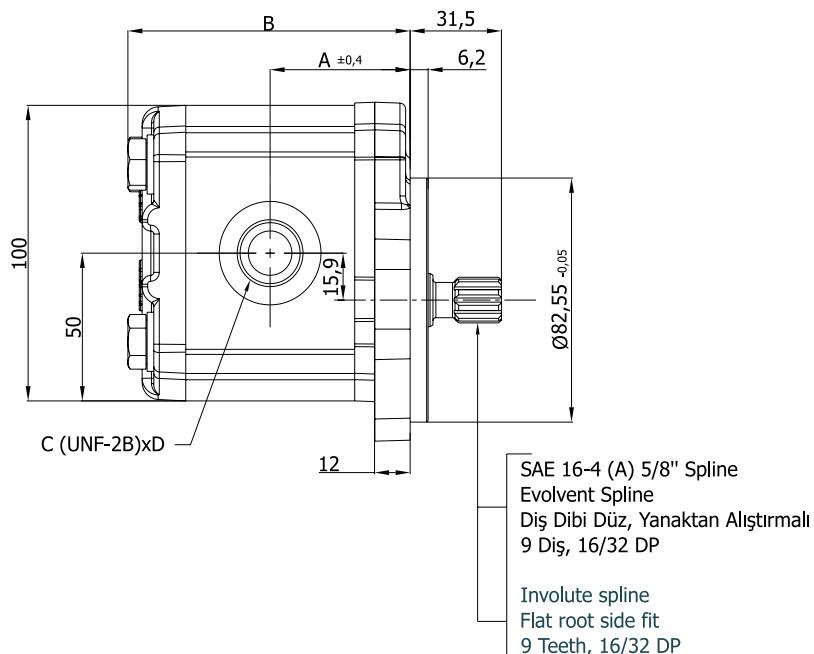
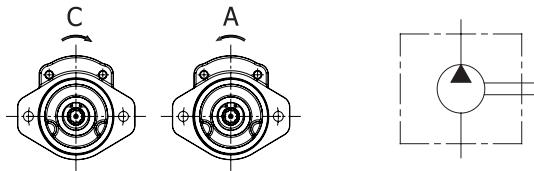
Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A _{±0,4}	B	Giriş – Inlet			Çıkış - Outlet		
						C	D	E	c	d	e
AP20.040.A/CBG01SN	3,9	250	3500	41,6	84,7	12	20	40	12	35	M6
AP20.060.A/CBG01SN	5,9			43,2	87,8	13,5			13,5		
AP20.080.A/CBG01SN	8,0			44,8	91,0						
AP20.095.A/CBG01SN	9,4			45,9	93,3						
AP20.115.A/CBG01SN	11,4		3000	47,6	96,4						
AP20.140.A/CBG01SN	13,9			49,4	100,4						
AP20.160.A/CBG01SN	16,0			51,1	103,5						
AP20.190.A/CBG01SN	19,2			59,6	120,5						
AP20.220.A/CBG01SN	21,9	210		61,7	124,9						
AP20.250.A/CBG01SN	24,8	190		64,2	129,8						
AP20.280.A/CBG01SN	27,9	170	2200	66,4	134,3		20	40		20	40
AP20.320.A/CBG01SN	32,0	160	2000	69,4	140,4						
AP20.340.A/CBG01SN	34,0	150		70,9	143,9						
AP20.380.A/CBG01SN	38,0	140	1750	74,2	149,9						
AP20.400.A/CBG01SN	40,0	130		75,9	153,4						

C Ön Kapak
Front Cover

E Şaft Tipi
Shaft Type


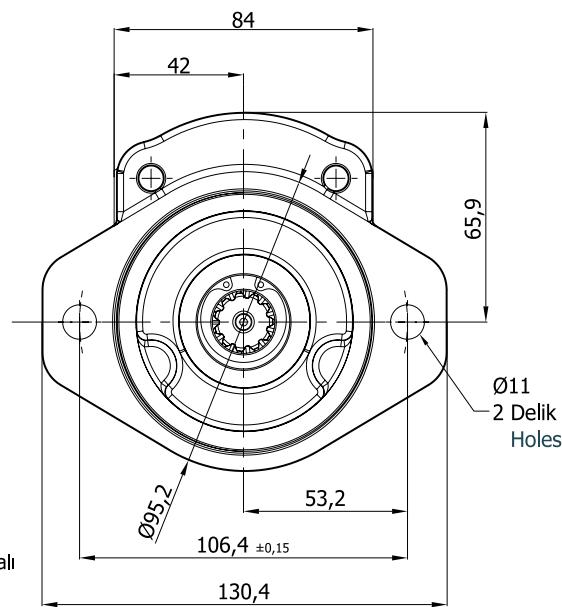
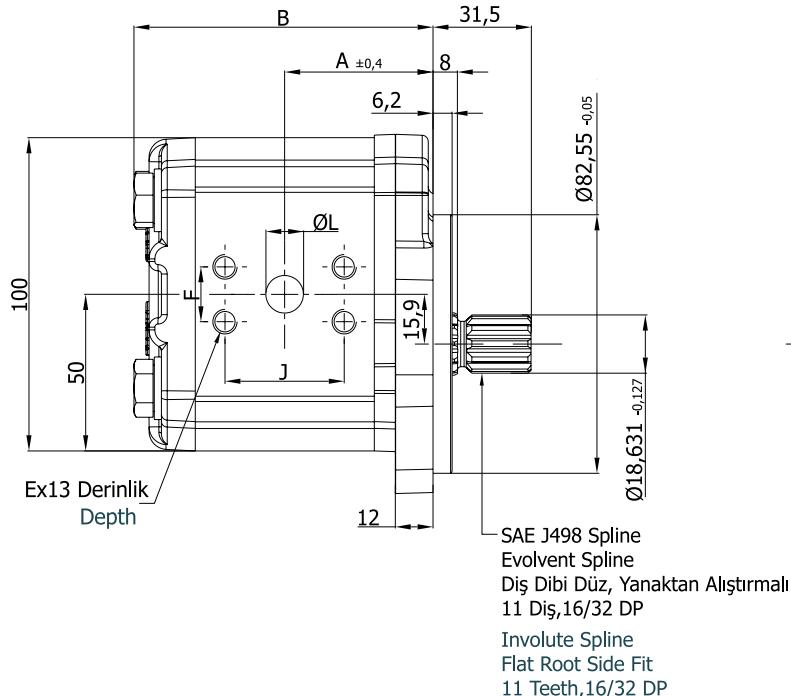
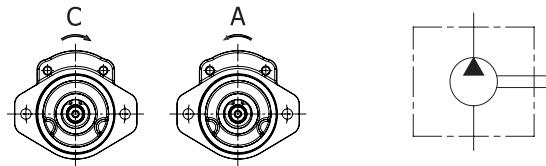
Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş - Inlet			Çıkış - Outlet		
						C	D	E	c	d	e
AP20.040.A/CCE01SN	3,9	250	3500	41,6	84,7	12	20	40	12	35	M6
AP20.060.A/CCE01SN	5,9			43,2	87,8	13,5			13,5		
AP20.080.A/CCE01SN	8,0			44,8	91,0						
AP20.095.A/CCE01SN	9,4			45,9	93,3						
AP20.115.A/CCE01SN	11,4		3000	47,6	96,4			M6	15		
AP20.140.A/CCE01SN	13,9			49,4	100,4						
AP20.160.A/CCE01SN	16,0			51,1	103,5						
AP20.190.A/CCE01SN	19,2			59,6	120,5						
AP20.220.A/CCE01SN	21,9	210	2500	61,7	124,9						
AP20.250.A/CCE01SN	24,8			64,2	129,8						
AP20.280.A/CCE01SN	27,9	170	2000	66,4	134,3						
AP20.320.A/CCE01SN	32,0	160		69,4	140,4						
AP20.340.A/CCE01SN	34,0	150	1750	70,9	143,9						
AP20.380.A/CCE01SN	38,0	140		74,2	149,9						
AP20.400.A/CCE01SN	40,0	130		75,9	153,4						

D Ön Kapak
Front Cover

C Şaft Tipi
Shaft Type


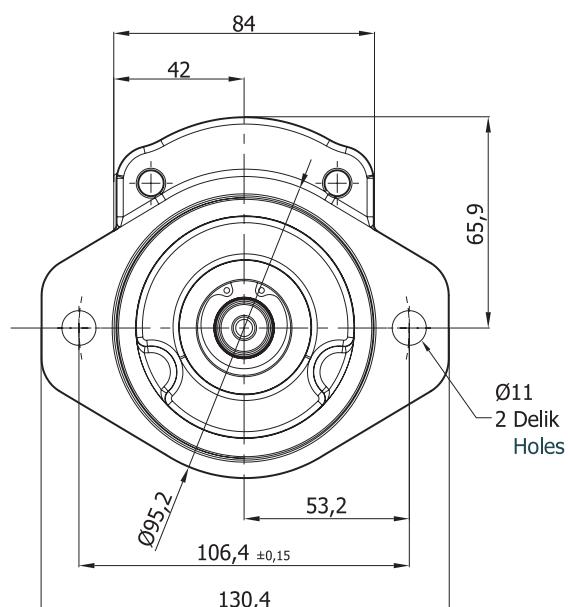
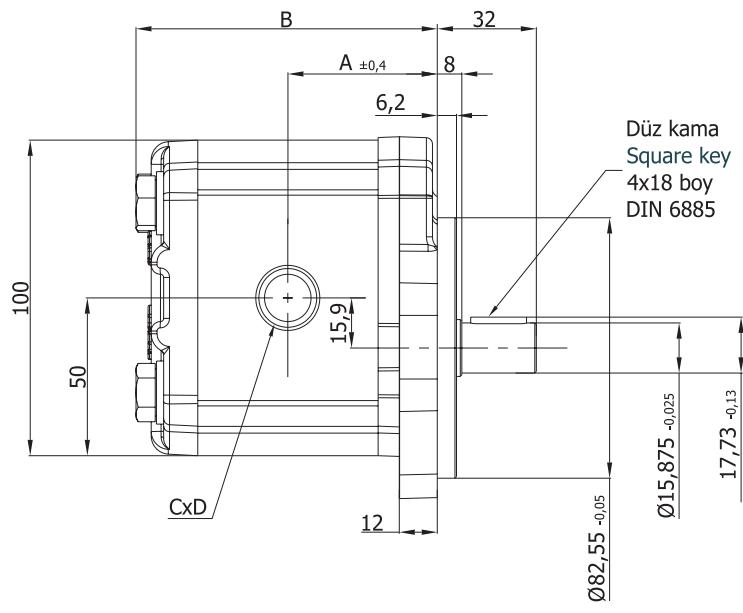
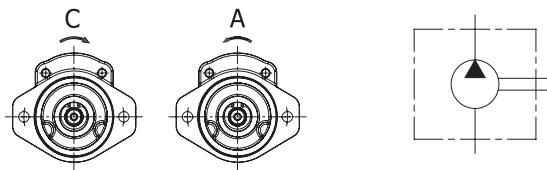
Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş – Inlet		Çıkış - Outlet			
						C	D	c	d		
AP20.040.A/CDC04SN	3,9	250	3500	42,2	85,3	9/16-18 UNF	13	7/8-14 UNF	16		
AP20.060.A/CDC04SN	5,9			43,8	88,4						
AP20.080.A/CDC04SN	8,0			45,4	91,6	7/8-14 UNF	16				
AP20.095.A/CDC04SN	9,4			46,5	93,9						
AP20.115.A/CDC04SN	11,4		3000	48,2	97,0	1 1/16-12 UNF	19				
AP20.140.A/CDC04SN	13,9			50,0	101,0						
AP20.160.A/CDC04SN	16,0			51,7	104,1						
AP20.190.A/CDC04SN	19,2			60,2	121,1						
AP20.220.A/CDC04SN	21,9	210	2500	62,3	125,5						
AP20.250.A/CDC04SN	24,8	190		64,8	130,4						
AP20.280.A/CDC04SN	27,9	170	2200	67,0	134,9						
AP20.320.A/CDC04SN	32,0	160	2000	70,0	141,0						
AP20.340.A/CDC04SN	34,0	150		71,5	144,5						
AP20.380.A/CDC04SN	38,0	140	1750	74,8	150,5						
AP20.400.A/CDC04SN	40,0	130		76,5	154,0						

D Ön Kapak
Front Cover

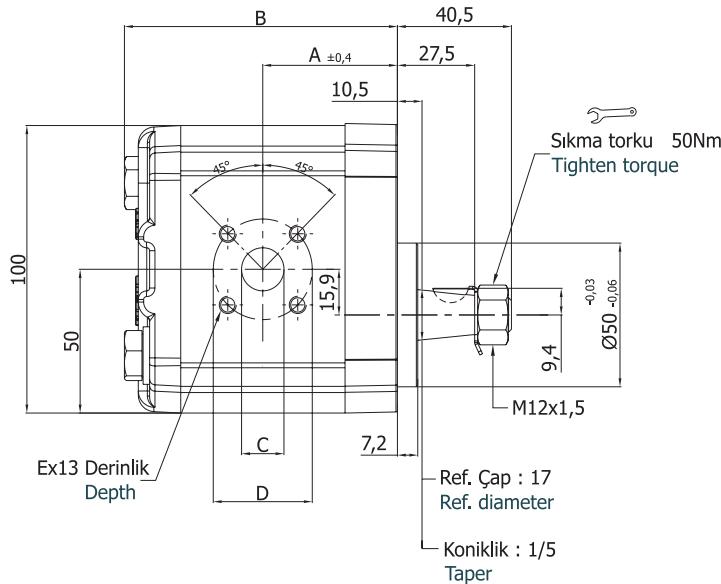
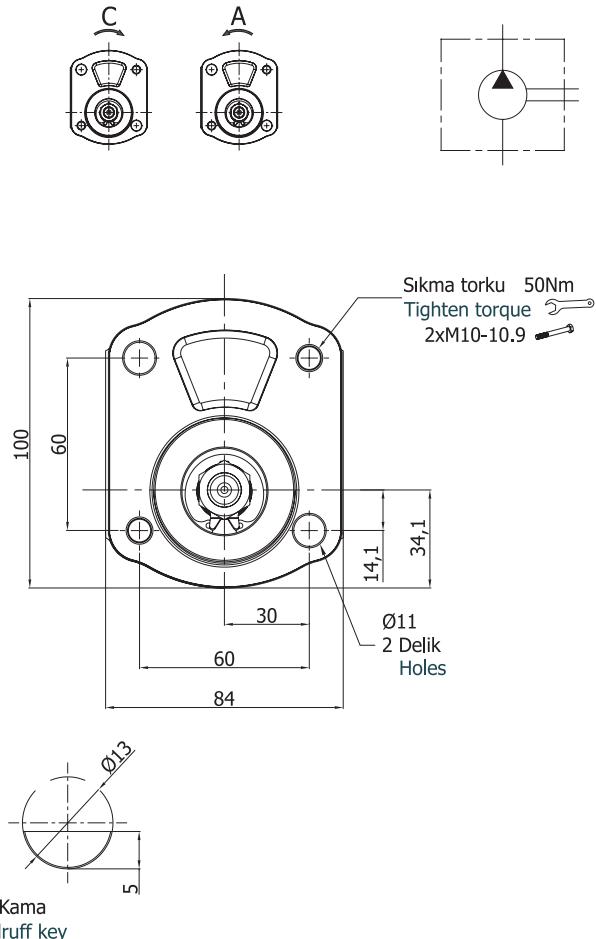
F Şaft Tipi
Shaft Type


Pompa Tipi Pump 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			
						L	J	F	E	I	j	f	e
AP20.040.A/CDF06SN	3,9	250	3500	42,2	87,3	12	38,1	17,5	M8	12	38,1	17,5	M8
AP20.060.A/CDF06SN	5,9			43,8	90,4								
AP20.080.A/CDF06SN	8,0			45,4	93,6								
AP20.095.A/CDF06SN	9,4			46,5	95,9								
AP20.115.A/CDF06SN	11,4		3000	48,2	99,0	20	47,6	22,2	M10	20	47,6	22,2	M10
AP20.140.A/CDF06SN	13,9			50,0	103,0								
AP20.160.A/CDF06SN	16,0			51,7	106,1								
AP20.190.A/CDF06SN	19,2			60,2	121,1								
AP20.220.A/CDF06SN	21,9	210	2500	62,3	125,5	26	52,4	26,2	M10	20	47,6	22,2	M10
AP20.250.A/CDF06SN	24,8	190		64,8	130,4								
AP20.280.A/CDF06SN	27,9	170	2200	67,0	134,9	20	47,6	22,2	M10	20	47,6	22,2	M10
AP20.320.A/CDF06SN	32,0	160		70,0	141,0								
AP20.340.A/CDF06SN	34,0	150	2000	71,5	144,5	26	52,4	26,2	M10	20	47,6	22,2	M10
AP20.380.A/CDF06SN	38,0	140		74,8	150,5								
AP20.400.A/CDF06SN	40,0	130	1750	76,5	154,0								

D Ön Kapak
Front Cover

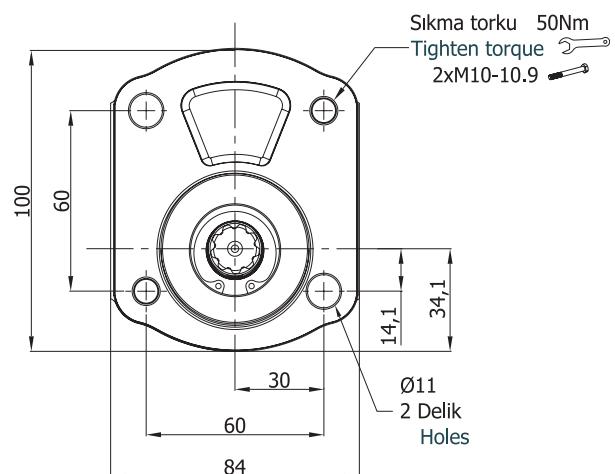
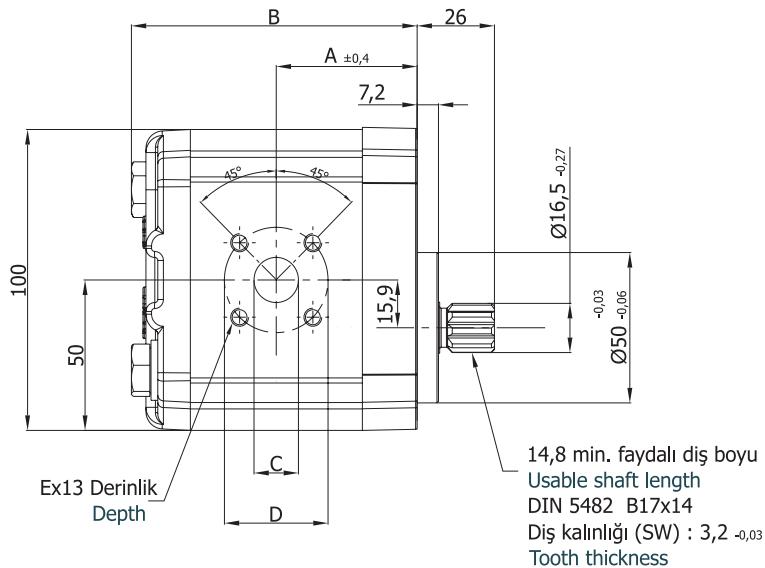
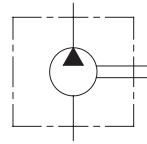
H Şaft Tipi
Shaft Type


Pompa Tipi Pump 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	D	c	d
AP20.040.A/CDH05SN	3,9	250	3500	42,2	85,3	G 3/4"	16	G 1/2"	16
AP20.060.A/CDH05SN	5,9			43,8	88,4				
AP20.080.A/CDH05SN	8,0			45,4	91,6				
AP20.095.A/CDH05SN	9,4			46,5	93,9				
AP20.115.A/CDH05SN	11,4			48,2	97,0				
AP20.140.A/CDH05SN	13,9		3000	50,0	101,0				
AP20.160.A/CDH05SN	16,0			51,7	104,1				
AP20.190.A/CDH05SN	19,2			60,2	121,1				
AP20.220.A/CDH05SN	21,9	210		62,3	125,5				
AP20.250.A/CDH05SN	24,8	190		64,8	130,4				
AP20.280.A/CDH05SN	27,9	170	2200	67,0	134,9	G 1"	19	G3/4"	16
AP20.320.A/CDH05SN	32,0	160	2000	70,0	141,0				
AP20.340.A/CDH05SN	34,0	150		71,5	144,5				
AP20.380.A/CDH05SN	38,0	140		74,8	150,5				
AP20.400.A/CDH05SN	40,0	130	1750	76,5	154,0				

E Ön Kapak
Front Cover

A Şaft Tipi
Shaft Type


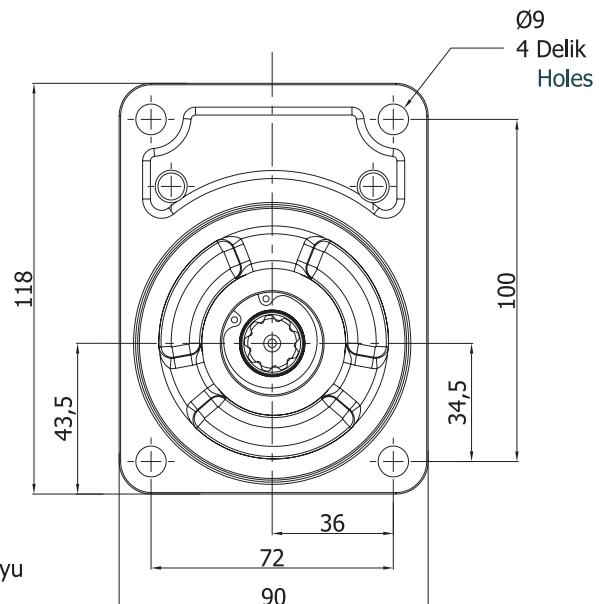
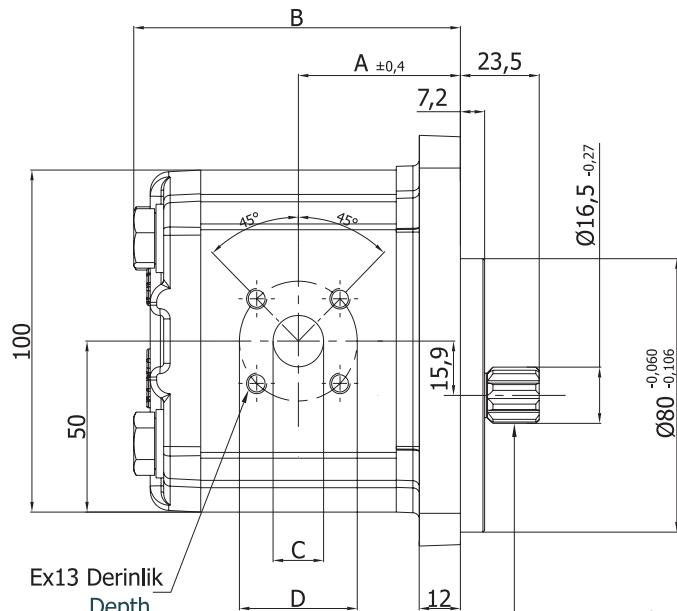
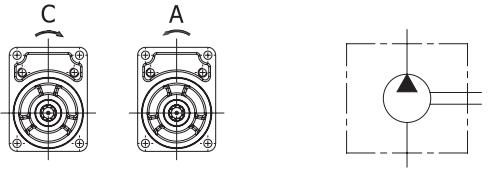
Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş - Inlet			Çıkış - Outlet						
						C	D	E	c	d	e				
AP20.040.A/CEA01SN	3,9	250	3500	41,6	84,7	12	20	M6	12	35	M6				
AP20.060.A/CEA01SN	5,9			43,2	87,8	13,5			13,5						
AP20.080.A/CEA01SN	8,0			44,8	91,0	40			15						
AP20.095.A/CEA01SN	9,4			45,9	93,3										
AP20.115.A/CEA01SN	11,4	3000	3000	47,6	96,4				20	40	40				
AP20.140.A/CEA01SN	13,9			49,4	100,4										
AP20.160.A/CEA01SN	16,0			51,1	103,5										
AP20.190.A/CEA01SN	19,2			59,6	120,5										
AP20.220.A/CEA01SN	21,9	210	2500	61,7	124,9	20	M6	40	20	40	40				
AP20.250.A/CEA01SN	24,8			64,2	129,8										
AP20.280.A/CEA01SN	27,9	170	2200	66,4	134,3	20	M6	40	20	40	40				
AP20.320.A/CEA01SN	32,0			69,4	140,4										
AP20.340.A/CEA01SN	34,0	150	2000	70,9	143,9	20	M6	40	20	40	40				
AP20.380.A/CEA01SN	38,0			74,2	149,9										
AP20.400.A/CEA01SN	40,0	130	1750	75,9	153,4	20	M6	40	20	40	40				

E Ön Kapak
Front Cover

G Şaft Tipi
Shaft Type


Pompa Tipi Pump 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			Çıkış - Outlet							
						C	D	E	c	d	e					
AP20.040.A/CEG01SN	3,9	250	3500	41,6	84,7	12	13,5	40	12	35	M6					
AP20.060.A/CEG01SN	5,9			43,2	87,8	13,5			13,5							
AP20.080.A/CEG01SN	8,0			44,8	91,0	M6										
AP20.095.A/CEG01SN	9,4			45,9	93,3											
AP20.115.A/CEG01SN	11,4		3000	47,6	96,4				20			40	M6			
AP20.140.A/CEG01SN	13,9			49,4	100,4											
AP20.160.A/CEG01SN	16,0			51,1	103,5											
AP20.190.A/CEG01SN	19,2			59,6	120,5											
AP20.220.A/CEG01SN	21,9		2500	61,7	124,9											
AP20.250.A/CEG01SN	24,8			64,2	129,8											
AP20.280.A/CEG01SN	27,9			66,4	134,3											
AP20.320.A/CEG01SN	32,0	2000	160	69,4	140,4				20			40	M6			
AP20.340.A/CEG01SN	34,0			70,9	143,9											
AP20.380.A/CEG01SN	38,0		150	74,2	149,9											
AP20.400.A/CEG01SN	40,0	130	1750	75,9	153,4											

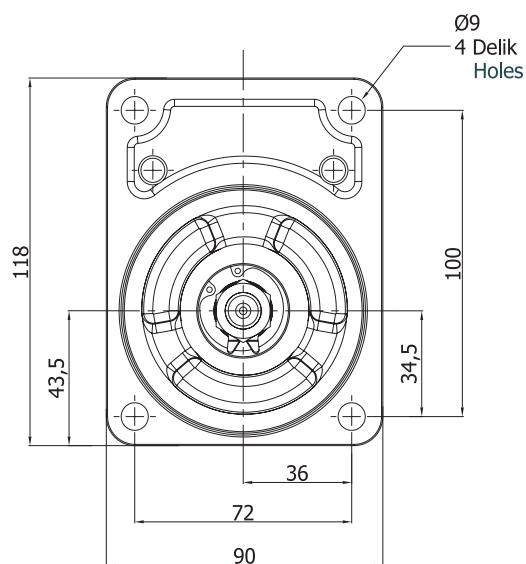
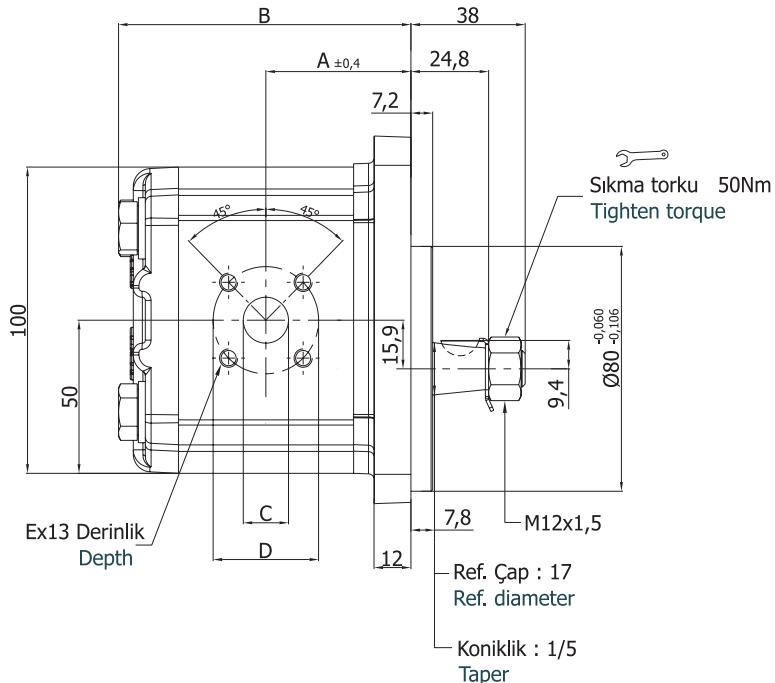
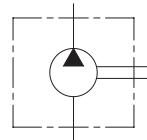
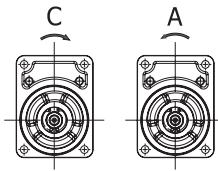
G Ön Kapak
Front Cover

G Şaft Tipi
Shaft Type


14,8 min. faydalı dış boyu
Usable shaft length
DIN 5482 B17x14
Diş kalınlığı (SW) : 3,2 -0,03
Tooth thickness

Pompa Tipi Pump 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	D	E	c	d	e				
AP20.040.A/CGG01SN	3,9	250	3500	42,2	85,3	12	40	M6	12	35	M6				
AP20.060.A/CGG01SN	5,9			43,8	88,4	13,5			13,5						
AP20.080.A/CGG01SN	8,0			45,4	91,6	20			15						
AP20.095.A/CGG01SN	9,4			46,5	93,9										
AP20.115.A/CGG01SN	11,4		3000	48,2	97,0	40	M6	20							
AP20.140.A/CGG01SN	13,9			50,0	101,0										
AP20.160.A/CGG01SN	16,0			51,7	104,1										
AP20.190.A/CGG01SN	19,2			60,2	121,1										
AP20.220.A/CGG01SN	21,9		2500	62,3	125,5										
AP20.250.A/CGG01SN	24,8	190		64,8	130,4										
AP20.280.A/CGG01SN	27,9	170	2200	67,0	134,9										
AP20.320.A/CGG01SN	32,0	160		70,0	141,0										
AP20.340.A/CGG01SN	34,0	150		71,5	144,5										
AP20.380.A/CGG01SN	38,0	140	1750	74,8	150,5										
AP20.400.A/CGG01SN	40,0	130		76,5	154,0										

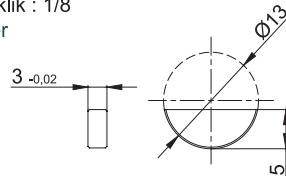
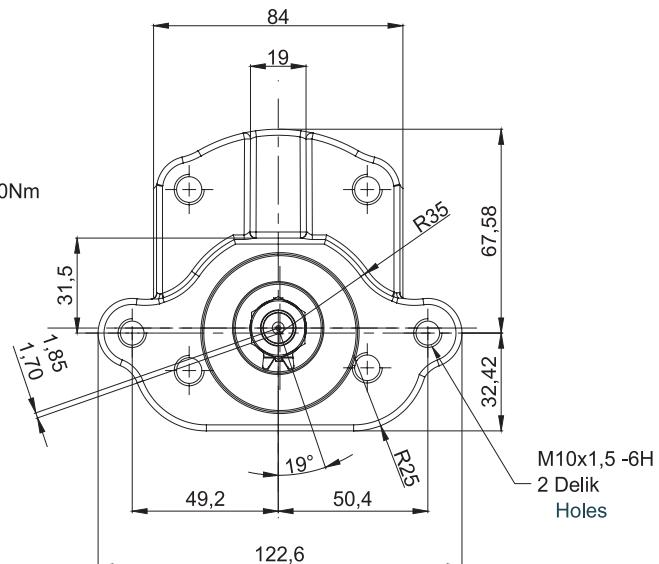
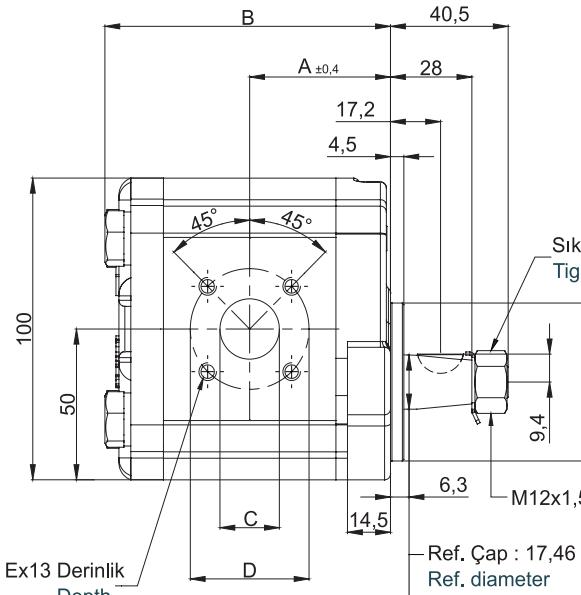
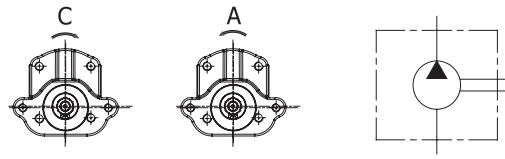
G Ön Kapak
Front Cover

L Şaft Tipi
Shaft Type


Pompa Tipi Pump 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			Çıkış - Outlet						
						C	D	E	c	d	e				
AP20.040.A/CGL01SN	3,9	250	3500	42,2	85,3	12	20	M6	12	35	M6				
AP20.060.A/CGL01SN	5,9			43,8	88,4	13,5			13,5						
AP20.080.A/CGL01SN	8,0			45,4	91,6	40			15						
AP20.095.A/CGL01SN	9,4			46,5	93,9										
AP20.115.A/CGL01SN	11,4		3000	48,2	97,0										
AP20.140.A/CGL01SN	13,9			50,0	101,0										
AP20.160.A/CGL01SN	16,0			51,7	104,1										
AP20.190.A/CGL01SN	19,2			60,2	121,1										
AP20.220.A/CGL01SN	21,9	210	2500	62,3	125,5										
AP20.250.A/CGL01SN	24,8			64,8	130,4										
AP20.280.A/CGL01SN	27,9	170	2200	67,0	134,9										
AP20.320.A/CGL01SN	32,0	160		69,4	141,0										
AP20.340.A/CGL01SN	34,0	150		70,9	144,5										
AP20.380.A/CGL01SN	38,0	140		74,2	150,5										
AP20.400.A/CGL01SN	40,0	130	1750	75,9	154,0										

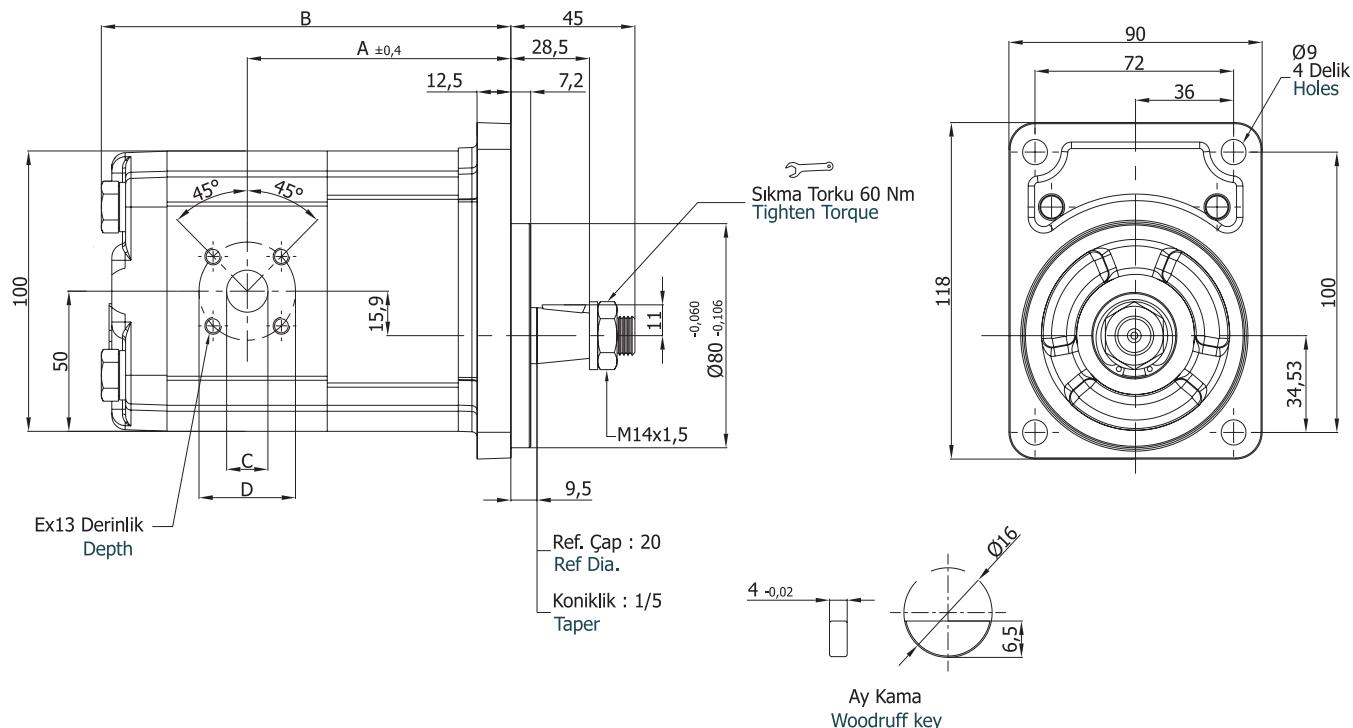
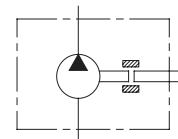
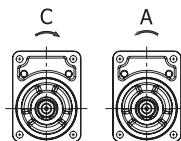
M Ön Kapak
Front Cover

N Şaft Tipi Shaft Type

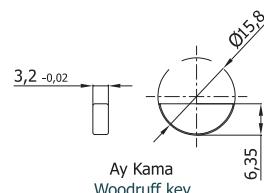
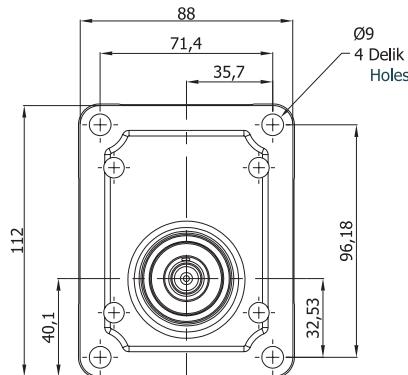
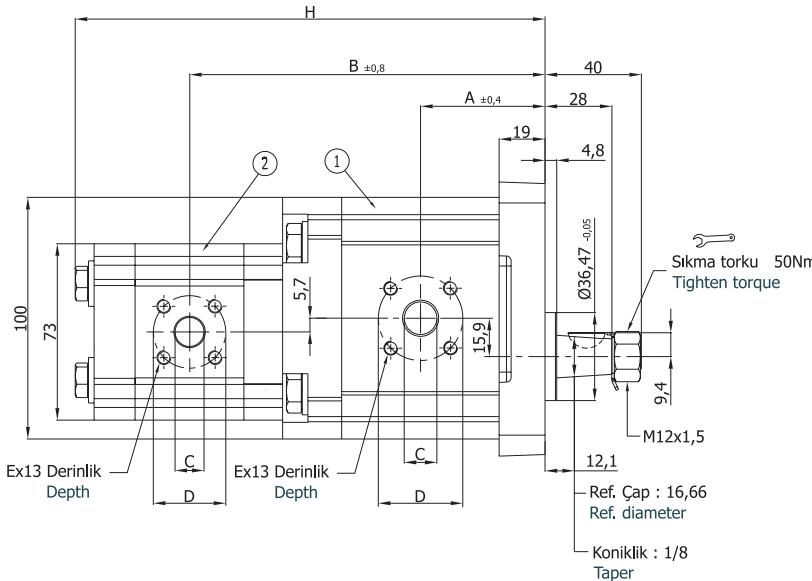
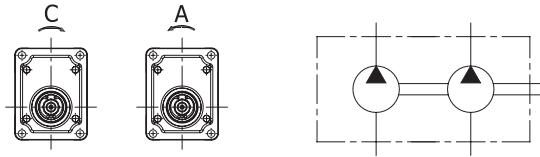


Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş – Inlet			Çıkış - Outlet		
						C	D	E	c	d	e
AP20.040.A/CMN01SN	3,9	250	3500	41,6	84,7	12	20	40	12	35	M6
AP20.060.A/CMN01SN	5,9			43,2	87,8	13,5			13,5		
AP20.080.A/CMN01SN	8,0			44,8	91,0						
AP20.095.A/CMN01SN	9,4			45,9	93,3						
AP20.115.A/CMN01SN	11,4		3000	47,6	96,4						
AP20.140.A/CMN01SN	13,9			49,4	100,4						
AP20.160.A/CMN01SN	16,0			51,1	103,5						
AP20.190.A/CMN01SN	19,2			59,6	120,5						
AP20.220.A/CMN01SN	21,9	210		61,7	124,9						
AP20.250.A/CMN01SN	24,8	190	2500	64,2	129,8						
AP20.280.A/CMN01SN	27,9	170		66,4	134,3						
AP20.320.A/CMN01SN	32,0	160	2000	69,4	140,4						
AP20.340.A/CMN01SN	34,0	150		70,9	143,9						
AP20.380.A/CMN01SN	38,0	140		74,2	149,9						
AP20.400.A/CMN01SN	40,0	130	1750	75,9	153,4						

H Ön Kapak
Front Cover

K Şaft Tipi
Shaft Type


Pompa Tipi Pump 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	D	E	c	d	e				
AP20.040.A/CHK01SON	3,9	250	3500	89,7	136,7	12	40	M6	12	35	M6				
AP20.060.A/CHK01SON	5,9			91,2	139,8	13,5			13,5						
AP20.080.A/CHK01SON	8,0			92,8	142,9	20									
AP20.095.A/CHK01SON	9,4			94,0	145,2										
AP20.115.A/CHK01SON	11,4		3000	95,5	148,4										
AP20.140.A/CHK01SON	13,9			97,5	152,3										
AP20.160.A/CHK01SON	16,0			99,0	155,4										
AP20.190.A/CHK01SON	19,2			107,5	172,4										
AP20.220.A/CHK01SON	21,9	130	2500	109,7	176,8										
AP20.250.A/CHK01SON	24,8			112,3	181,9										
AP20.280.A/CHK01SON	27,9		2200	114,5	186,2										
AP20.320.A/CHK01SON	32,0		2000	117,5	192,4										
AP20.340.A/CHK01SON	34,0	110		119,0	195,9										
AP20.380.A/CHK01SON	38,0	1750	122,3	201,9											
AP20.400.A/CHK01SON	40,0		124,0	205,4											

A Ön Kapak
Front CoverB Şaft Tipi
Shaft Type

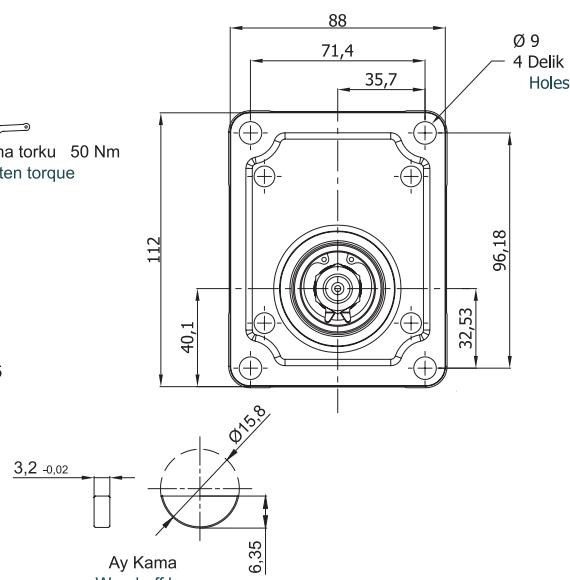
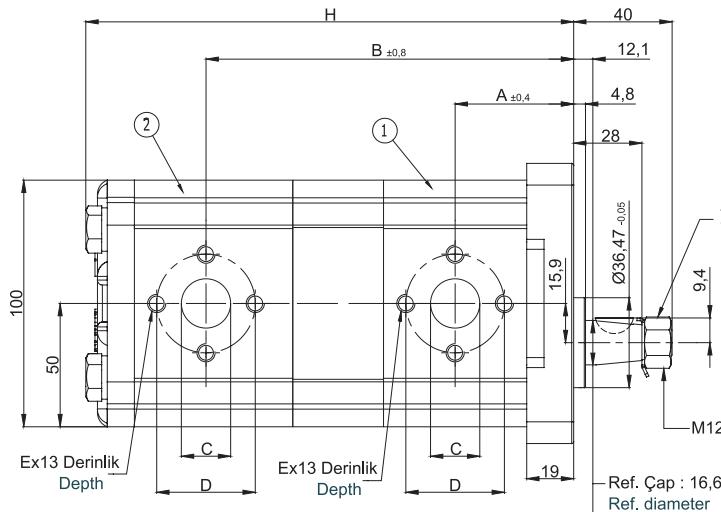
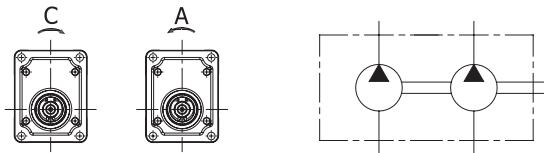
* 012-032 arka pompalar için / For 012-032 rear pumps
C = 12 ; D = 30; E = M6

* 035-095 arka pompalar için / For 035-095 rear pumps
C = 15 ; D = 35; E = M6

Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)		Maks. Basınç Max. Pressure (bar)		Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B ±0,8	H	Giriş – İnlet			Çıkış - Outlet			
	1	2	1	2					C	D	E	c	d	e	
AP20.060/AP10.012.AAB01SN	5,9	1,2	250	3500	220	43,8	128,5	172,5	13,5	20 *	40 *	M6 *	15	35	M6
AP20.060/AP10.012.CAB01SN						45,4	132,7	177,7							
AP20.080/AP10.017.AAB01SN	8,0	1,7				46,5	136	182							
AP20.080/AP10.017.CAB01SN						48,2	140,9	188,7							
AP20.095/AP10.023.AAB01SN	9,4	2,3				50,0	146,1	195,1							
AP20.095/AP10.023.CAB01SN						51,7	150,2	200,3							
AP20.115/AP10.032.AAB01SN	11,4	3,2				60,2	168,7	220,3							
AP20.115/AP10.032.CAB01SN						62,3	175,6	229,6							
AP20.140/AP10.038.AAB01SN	13,9	3,8				64,8	183,6	240,6							
AP20.140/AP10.038.CAB01SN															
AP20.160/AP10.043.AAB01SN	16,0	4,3	210	2500	210					20	40	M6	15	35	M6
AP20.160/AP10.043.CAB01SN															
AP20.190/AP10.050.AAB01SN	19,2	5,0													
AP20.190/AP10.050.CAB01SN															
AP20.220/AP10.063.AAB01SN	21,9	6,3	170	2200	200					20	40	M6	15	35	M6
AP20.220/AP10.063.CAB01SN															
AP20.250/AP10.078.AAB01SN	24,8	7,8													
AP20.250/AP10.078.CAB01SN															
AP20.280/AP10.095.AAB01SN	27,9	9,5	170	2200	200					20	40	M6	15	35	M6
AP20.280/AP10.095.CAB01SN															

A Ön Kapak
Front Cover

B Şaft Tipi
Shaft Type



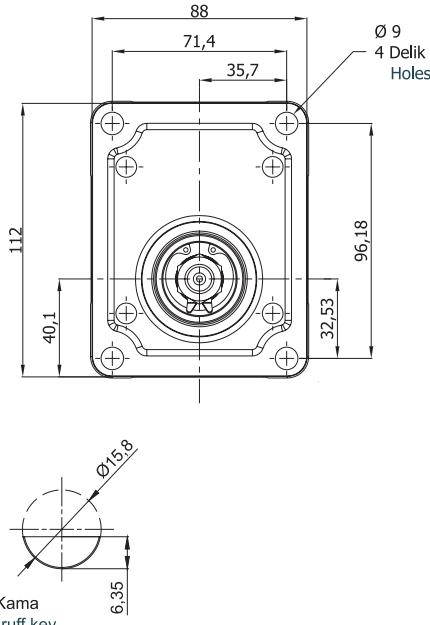
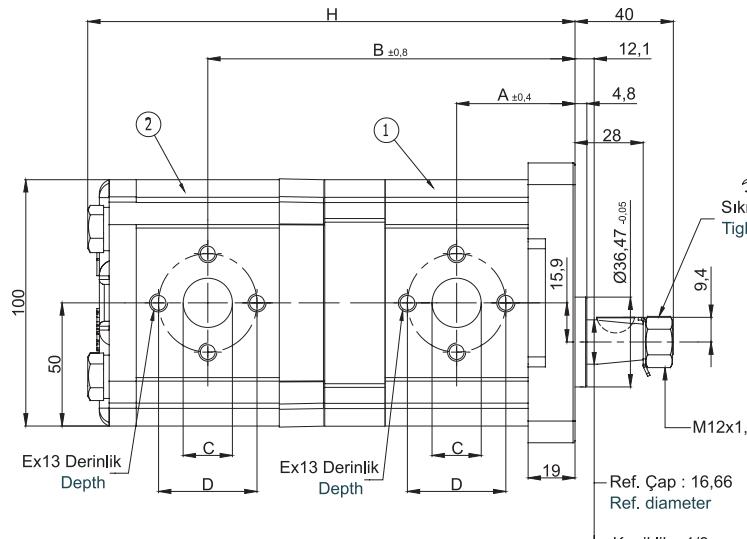
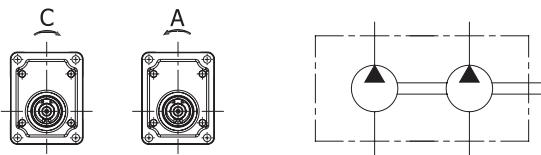
* 060 ve 080 arka pompalar için / For 060 and 080 pumps
C = 13,5 ; D = 30,2 ; E = M6

Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)		Maks. Basınç Max. Pressure (bar)		Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B ±0,8	H	Giriş – Inlet		Çıkış - Outlet		
	1	2	1	2					C	D	E	c	d
AP20.115/060.A/CAB02SN-T	11,4	5,9							138,8	183,6			
AP20.115/080.A/CAB02SN-T	11,4	8,0							140,6	186,7			
AP20.115/115.A/CAB02SN-T	11,4	11,4							143,1	192,2			
AP20.140/060.A/CAB02SN-T	13,9	5,9							142,8	187,5			
AP20.140/080.A/CAB02SN-T	13,9	8,0							144,3	190,6			
AP20.140/115.A/CAB02SN-T	13,9	11,4							147,0	196,1			
AP20.140/140.A/CAB02SN-T	13,9	13,9							149,0	200,0			
AP20.160/060.A/CAB02SN-T	16,0	16,0							145,9	190,6	20 *	40 *	M8 *
AP20.160/080.A/CAB02SN-T	16,0	8,0							147,4	193,8			
AP20.160/115.A/CAB02SN-T	16,0	11,4							150,1	199,2			
AP20.160/140.A/CAB02SN-T	16,0	13,9							152,1	203,1			
AP20.160/160.A/CAB02SN-T	16,0	16,0							153,7	206,3			
AP20.190/060.A/CAB02SN-T	19,2	5,9							162,9	208,1			
AP20.190/080.A/CAB02SN-T	19,2	8,0							164,5	211,2			
AP20.190/115.A/CAB02SN-T	19,2	11,4							167,2	216,3			



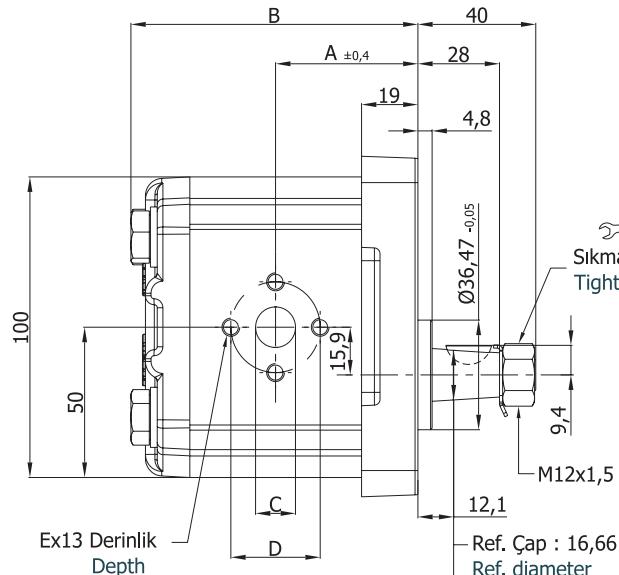
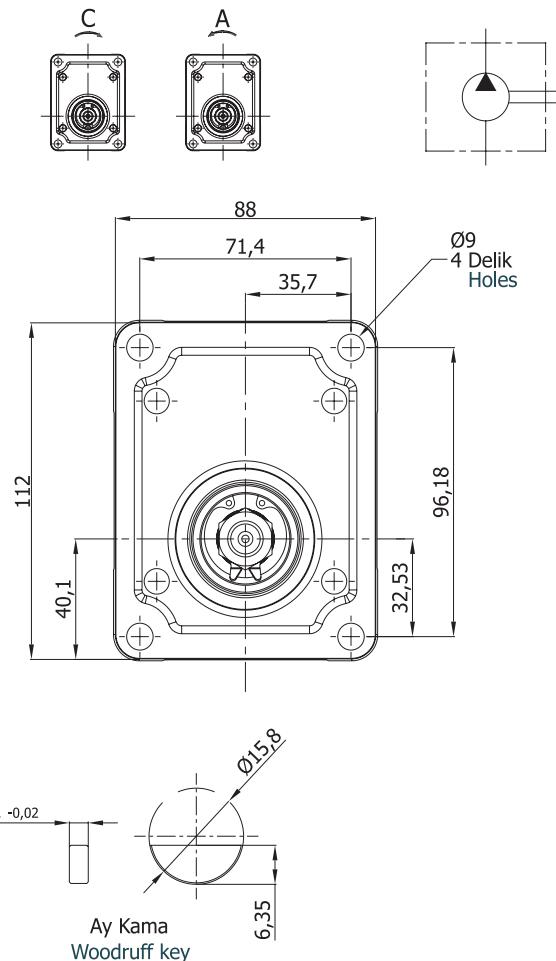
Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)		Maks. Basınç Max. Pressure (bar)		Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B ±0,8	H	Giriş – Inlet			Çıkış - Outlet		
	1	2	1	2					C	D	E	c	d	e
AP20.190/140.A/CAB02SN-T	19,2	13,9	250	250	3000	60,2	169,2	220,2	20 *	40 *	M8 *	13,5	30,2	M6
AP20.190/160.A/CAB02SN-T	19,2	16,0		230			170,7	223,3						
AP20.190/190.A/CAB02SN-T	19,2	19,2		190			179,2	240,3						
AP20.220/060.A/CAB02SN-T	21,9	5,9	210	250	62,3	173,5	166,9	211,9						
AP20.220/080.A/CAB02SN-T	21,9	8,0					168,8	215,1						
AP20.220/115.A/CAB02SN-T	21,9	11,4					171,5	220,6						
AP20.220/140.A/CAB02SN-T	21,9	13,9					173,5	224,5						
AP20.220/160.A/CAB02SN-T	21,9	16,0					175,0	227,6						
AP20.220/190.A/CAB02SN-T	21,9	19,2					183,5	244,7						
AP20.220/220.A/CAB02SN-T	21,9	21,9					185,7	249,1						
AP20.250/060.A/CAB02SN-T	24,8	5,9	190	250	64,8	172,4	172,4	217,0						
AP20.250/080.A/CAB02SN-T	24,8	8,0					173,9	220,2						
AP20.250/115.A/CAB02SN-T	24,8	11,4					176,6	225,7						
AP20.250/140.A/CAB02SN-T	24,8	13,9					178,6	229,6						
AP20.250/160.A/CAB02SN-T	24,8	16,0					180,1	232,7						
AP20.250/190.A/CAB02SN-T	24,8	19,2					188,6	249,7						
AP20.250/220.A/CAB02SN-T	24,8	21,9					190,9	254,1						
AP20.250/250.A/CAB02SN-T	24,8	24,8					195,6	259,2						
AP20.280/060.A/CAB02SN-T	27,9	5,9	170	250	67,0	176,7	176,7	221,4						
AP20.280/080.A/CAB02SN-T	27,9	8,0					178,2	224,5						
AP20.280/115.A/CAB02SN-T	27,9	11,4					180,9	230,0						
AP20.280/140.A/CAB02SN-T	27,9	13,9					182,9	233,9						
AP20.280/160.A/CAB02SN-T	27,9	16,0					184,4	237,1						
AP20.280/190.A/CAB02SN-T	27,9	19,2					192,9	254,1						
AP20.280/220.A/CAB02SN-T	27,9	21,9					195,2	258,4						
AP20.280/250.A/CAB02SN-T	27,9	24,8					197,7	263,5						
AP20.280/280.A/CAB02SN-T	27,9	27,9					199,9	267,8						
AP20.320/060.A/CAB02SN-T	32,0	5,9	160	250	70,0	182,9	182,9	227,6						
AP20.320/080.A/CAB02SN-T	32,0	8,0					184,4	230,7						
AP20.320/115.A/CAB02SN-T	32,0	11,4					187,1	236,2						
AP20.320/140.A/CAB02SN-T	32,0	13,9					189,1	240,1						
AP20.320/160.A/CAB02SN-T	32,0	16,0					190,6	243,3						
AP20.320/190.A/CAB02SN-T	32,0	19,2					199,1	260,3						

A Ön Kapak
Front Cover

B Şaft Tipi
Shaft Type


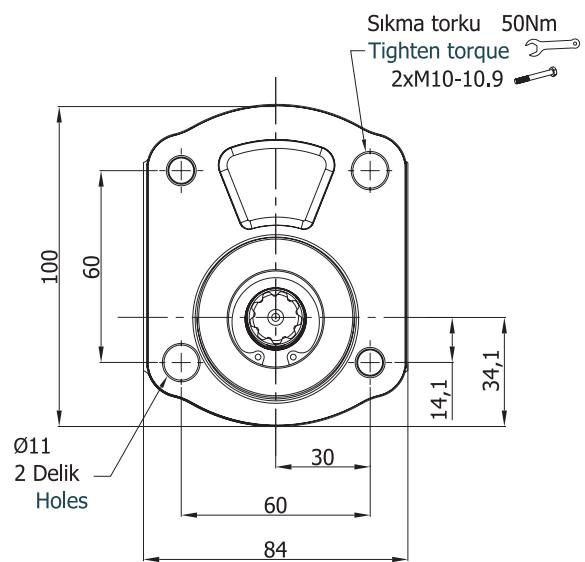
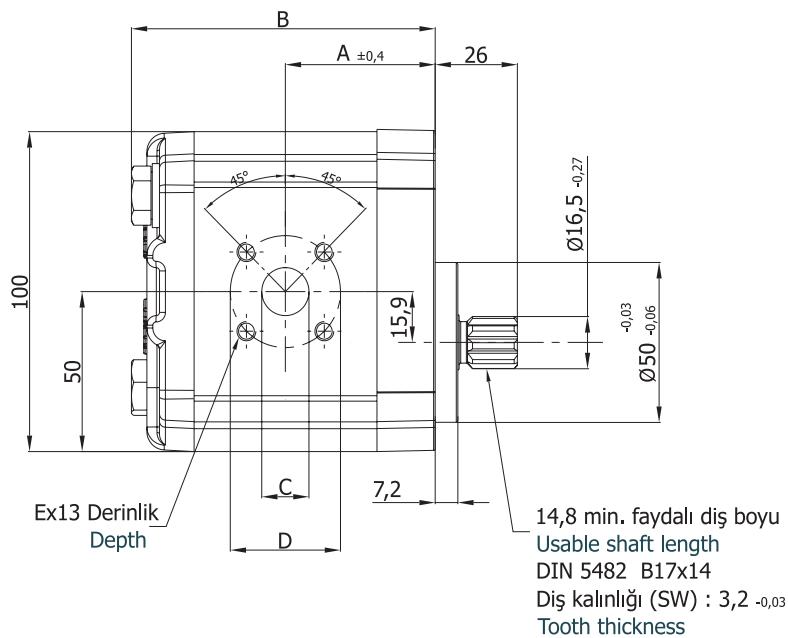
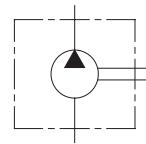
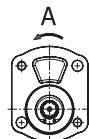
* 060 ve 080 arka pompalar için / For 060 and 080 pumps
C = 13,5 ; D = 30,2 ; E = M6

Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)		Maks. Basınç Max. Pressure (bar)		Maks. Hız Max. Speed d/d (rpm)	A	B	H	Giriş – Inlet		Çıkış – Outlet	
	1	2	1	2					C	D	E	c
AP20.115/060.AAB02SN-M	11,4	5,9							144,8	189,6		
AP20.115/060.CAB02SN-M									146,6	192,7		
AP20.115/080.AAB02SN-M	11,4	8,0							149,1	198,2		
AP20.115/080.CAB02SN-M									148,8	193,5		
AP20.115/115.AAB02SN-M	11,4	11,4							150,3	196,6	20 *	30,2
AP20.115/115.CAB02SN-M									153	202,1	M8 *	M6
AP20.140/060.AAB02SN-M	13,9	5,9							155	206		
AP20.140/060.CAB02SN-M									151,9	196,6		
AP20.140/080.AAB02SN-M	13,9	8,0	250		3000							
AP20.140/080.CAB02SN-M												
AP20.140/115.AAB02SN-M	13,9	11,4	250									
AP20.140/115.CAB02SN-M												
AP20.140/140.AAB02SN-M	13,9	13,9										
AP20.140/140.CAB02SN-M												
AP20.160/060.AAB02SN-M	16,0	5,9										
AP20.160/060.CAB02SN-M												
AP20.160/080.AAB02SN-M	16,0	8,0										
AP20.160/080.CAB02SN-M												
AP20.160/115.AAB02SN-M	16,0	11,4										
AP20.160/115.CAB02SN-M												

A Ön Kapak
Front Cover**B** Şaft Tipi
Shaft Type

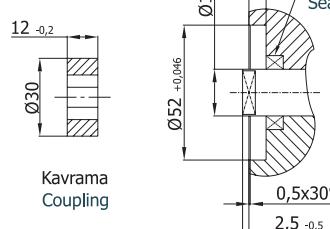
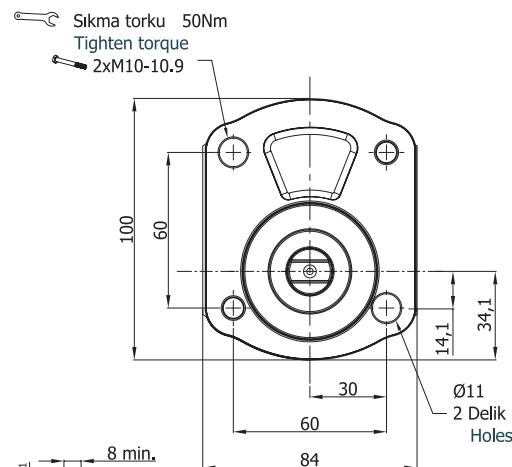
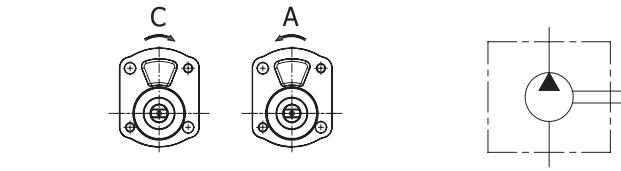
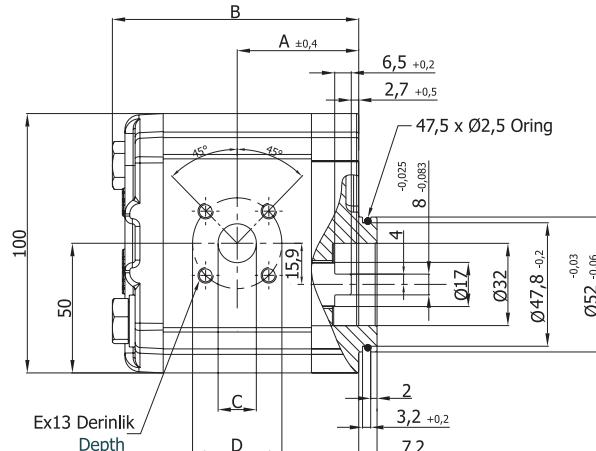
Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş – Inlet			Çıkış - Outlet						
						C	D	E	c	d	e				
APH20.040.A/CAB02SN	3,9	250	3500	42,2	85,3	12	30,2	M6	12	30,2	M6				
APH20.060.A/CAB02SN	5,9			43,8	88,4	13,5			13,5	20					
APH20.080.A/CAB02SN	8,0			45,4	91,6										
APH20.095.A/CAB02SN	9,4		3000	46,5	93,9	40	M8	M8							
APH20.115.A/CAB02SN	11,4			48,2	97,0										
APH20.140.A/CAB02SN	13,9			50,0	101,0										
APH20.160.A/CAB02SN	16,0			51,7	104,1										
APH20.190.A/CAB02SN	19,2		2500	60,2	121,1	20	M8	M8							
APH20.220.A/CAB02SN	21,9			62,3	125,5										
APH20.250.A/CAB02SN	24,8			64,8	130,4										
APH20.280.A/CAB02SN	27,9			67,0	134,9										
APH20.320.A/CAB02SN	32,0	2000	1750	70,0	141,0	40	M8	M8							
APH20.340.A/CAB02SN	34,0			71,5	144,5										
APH20.380.A/CAB02SN	38,0			74,8	150,5										
APH20.400.A/CAB02SN	40,0			76,5	154,0										

B Ön Kapak
 Front Cover

G Şaft Tipi
 Shaft Type


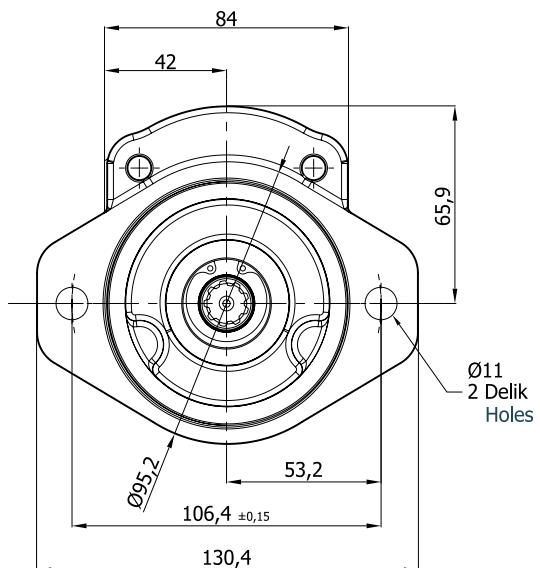
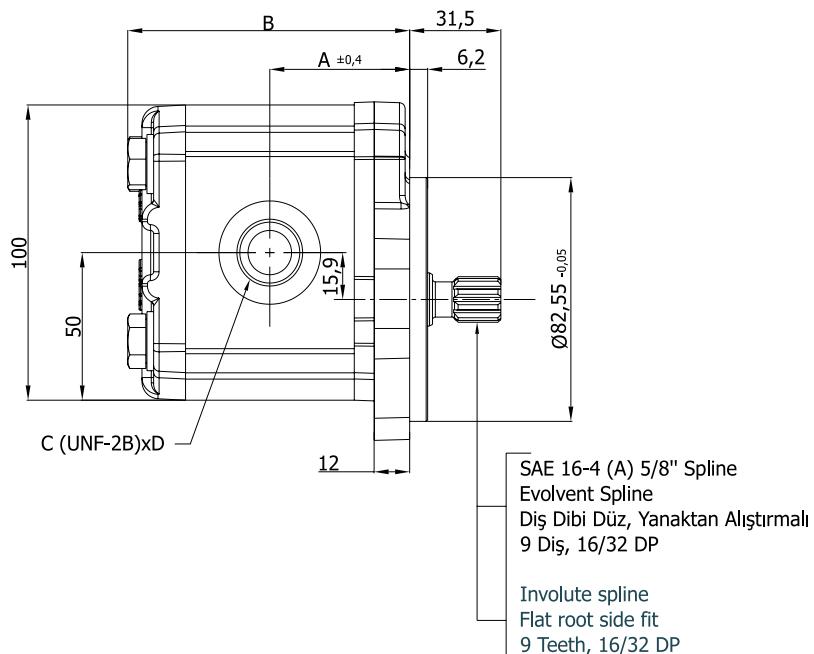
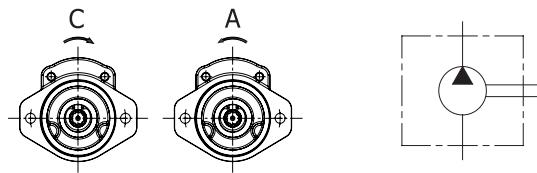
Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş – İnlet			Çıkış - Outlet						
						C	D	E	c	d	e				
APH20.040.A/CBG01SN	3,9	250	3500	41,6	84,7	12	20	M6	12	35	M6				
APH20.060.A/CBG01SN	5,9			43,2	87,8	13,5			13,5						
APH20.080.A/CBG01SN	8,0			44,8	91,0	40									
APH20.095.A/CBG01SN	9,4			45,9	93,3										
APH20.115.A/CBG01SN	11,4		3000	47,6	96,4	15									
APH20.140.A/CBG01SN	13,9			49,4	100,4										
APH20.160.A/CBG01SN	16,0			51,1	103,5										
APH20.190.A/CBG01SN	19,2			59,6	120,5										
APH20.220.A/CBG01SN	21,9	210	2500	61,7	124,9	20	M6	40	20	40	M6				
APH20.250.A/CBG01SN	24,8			64,2	129,8										
APH20.280.A/CBG01SN	27,9	1750	2200	66,4	134,3	40	M6	20	20	40	M6				
APH20.320.A/CBG01SN	32,0			69,4	140,4										
APH20.340.A/CBG01SN	34,0		2000	70,9	143,9										
APH20.380.A/CBG01SN	38,0			74,2	149,9										
APH20.400.A/CBG01SN	40,0	130		75,9	153,4										

C Ön Kapak
Front Cover

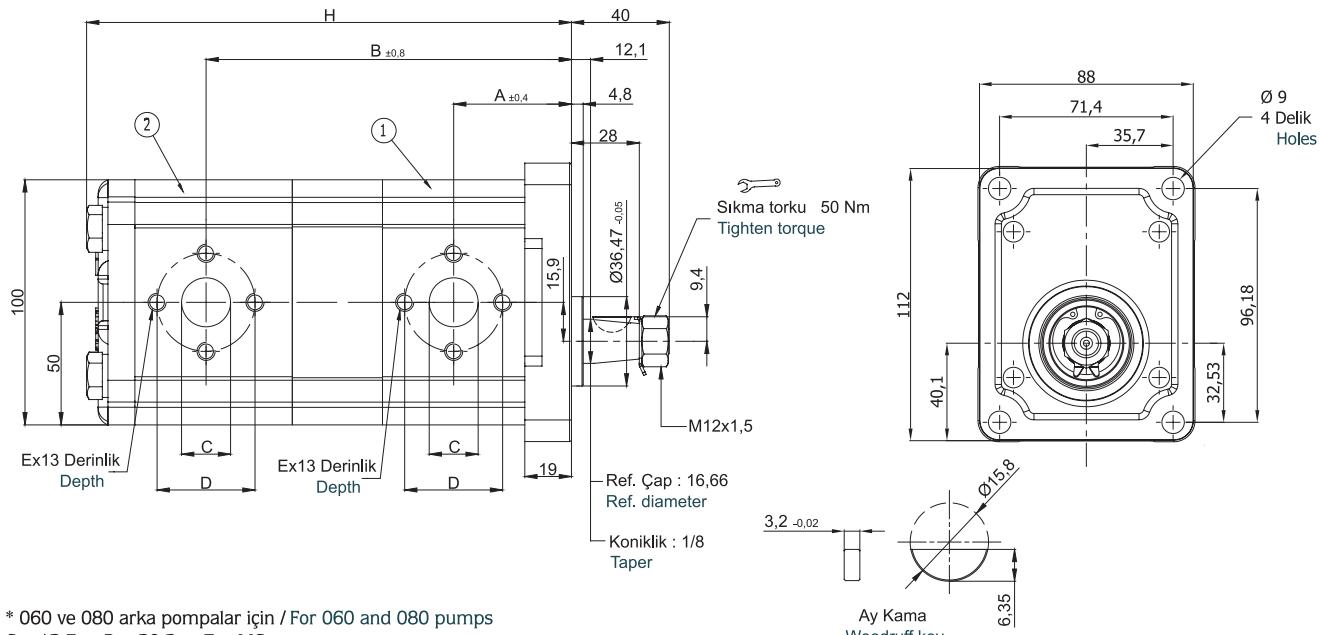
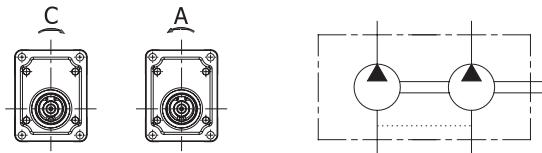
E Şaft Tipi
Shaft Type


Pompa Tipi Pump 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	D	E	c	d	e
APH20.040.A/CCE01SN	3,9	250	3500	41,6	84,7	12	20	M6	12	35	M6
APH20.060.A/CCE01SN	5,9			43,2	87,8	13,5			13,5		
APH20.080.A/CCE01SN	8,0			44,8	91,0						
APH20.095.A/CCE01SN	9,4			45,9	93,3						
APH20.115.A/CCE01SN	11,4		3000	47,6	96,4						
APH20.140.A/CCE01SN	13,9			49,4	100,4						
APH20.160.A/CCE01SN	16,0			51,1	103,5						
APH20.190.A/CCE01SN	19,2			59,6	120,5						
APH20.220.A/CCE01SN	21,9	210	2500	61,7	124,9						
APH20.250.A/CCE01SN	24,8			64,2	129,8						
APH20.280.A/CCE01SN	27,9	170	2200	66,4	134,3						
APH20.320.A/CCE01SN	32,0			69,4	140,4						
APH20.340.A/CCE01SN	34,0	150	2000	70,9	143,9						
APH20.380.A/CCE01SN	38,0			74,2	149,9						
APH20.400.A/CCE01SN	40,0	130	1750	75,9	153,4						

D Ön Kapak
 Front Cover

C Şaft Tipi
 Shaft Type


Pompa Tipi Pump 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	D	c	d
APH20.040.A/CDC04SN	3,9	250	3500	42,2	85,3	9/16-18 UNF	13	9/16-18 UNF	13
APH20.060.A/CDC04SN	5,9			43,8	88,4				
APH20.080.A/CDC04SN	8,0			45,4	91,6				
APH20.095.A/CDC04SN	9,4			46,5	93,9				
APH20.115.A/CDC04SN	11,4		3000	48,2	97,0	7/8-14 UNF	16	7/8-14 UNF	16
APH20.140.A/CDC04SN	13,9			50,0	101,0				
APH20.160.A/CDC04SN	16,0			51,7	104,1				
APH20.190.A/CDC04SN	19,2			60,2	121,1				
APH20.220.A/CDC04SN	21,9		2500	62,3	125,5	1 1/16-12 UNF	19	1 1/16-12 UNF	19
APH20.250.A/CDC04SN	24,8			64,8	130,4				
APH20.280.A/CDC04SN	27,9		2200	67,0	134,9				
APH20.320.A/CDC04SN	32,0		2000	70,0	141,0				
APH20.340.A/CDC04SN	34,0			71,5	144,5				
APH20.380.A/CDC04SN	38,0		1750	74,8	150,5				
APH20.400.A/CDC04SN	40,0			76,5	154,0				

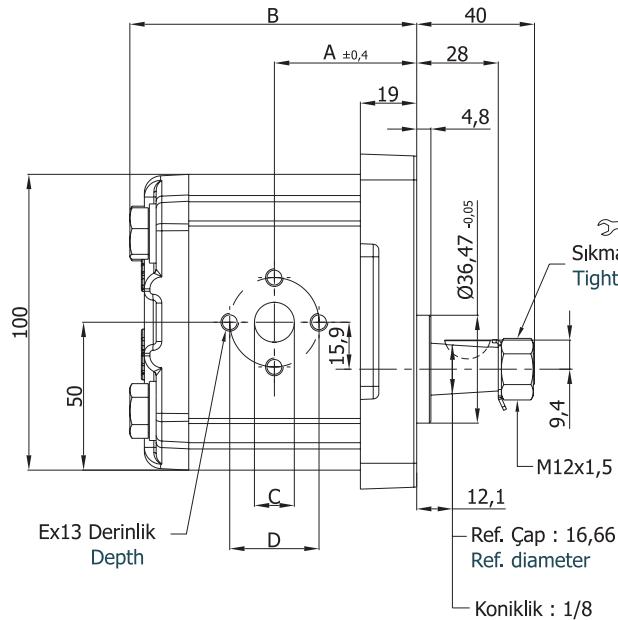
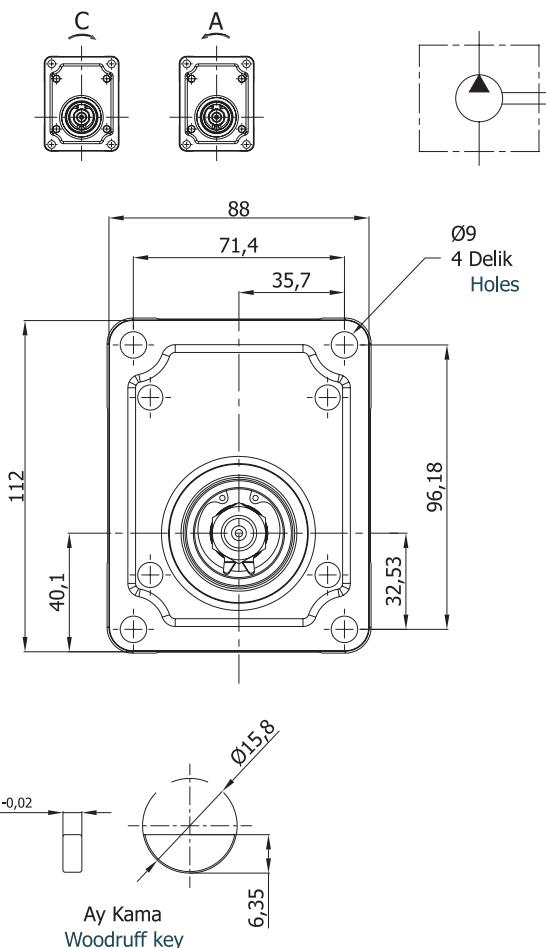
A Ön Kapak
Front Cover**B** Şaft Tipi
Shaft Type

Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)		Maks. Basınç Max. Pressure (bar)		Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B ±0,8	H	Giriş – İnlet		Çıkış - Outlet	
	1	2	1	2					C	D	E	c
APH20.115/060.A/CAB02SN-T	11,4	5,9	250	3000	48	138,8	183,6	20 *	40 *	M8 *	13,5	30,2
APH20.115/080.A/CAB02SN-T	11,4	8,0				140,6	186,7					
APH20.115/115.A/CAB02SN-T	11,4	11,4				143,1	192,2					
APH20.140/060.A/CAB02SN-T	13,9	5,9			50	142,8	187,5					
APH20.140/080.A/CAB02SN-T	13,9	8,0				144,3	190,6					
APH20.140/115.A/CAB02SN-T	13,9	11,4				147,0	196,1					
APH20.140/140.A/CAB02SN-T	13,9	13,9				149,0	200,0					
APH20.160/060.A/CAB02SN-T	16,0	16,0			51,5	145,9	190,6					
APH20.160/080.A/CAB02SN-T	16,0	8,0				147,4	193,8					
APH20.160/115.A/CAB02SN-T	16,0	11,4				150,1	199,2					
APH20.160/140.A/CAB02SN-T	16,0	13,9				152,1	203,1					
APH20.160/160.A/CAB02SN-T	16,0	16,0				153,7	206,3					
APH20.190/060.A/CAB02SN-T	19,2	5,9	60,0	3000	60,0	162,9	208,1					
APH20.190/080.A/CAB02SN-T	19,2	8,0				164,5	211,2					
APH20.190/115.A/CAB02SN-T	19,2	11,4				167,2	216,3					



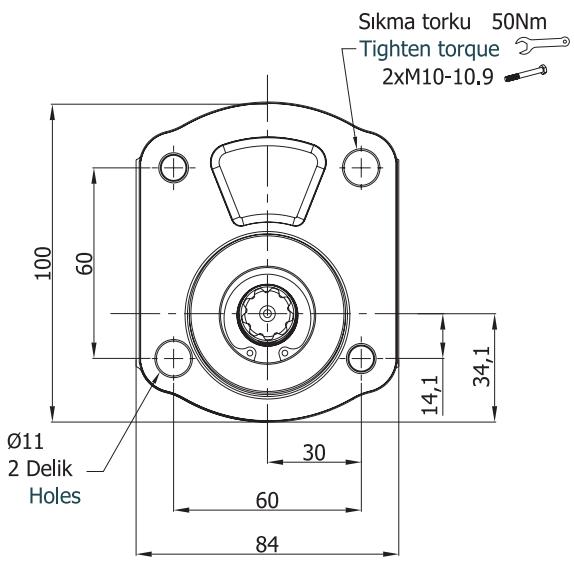
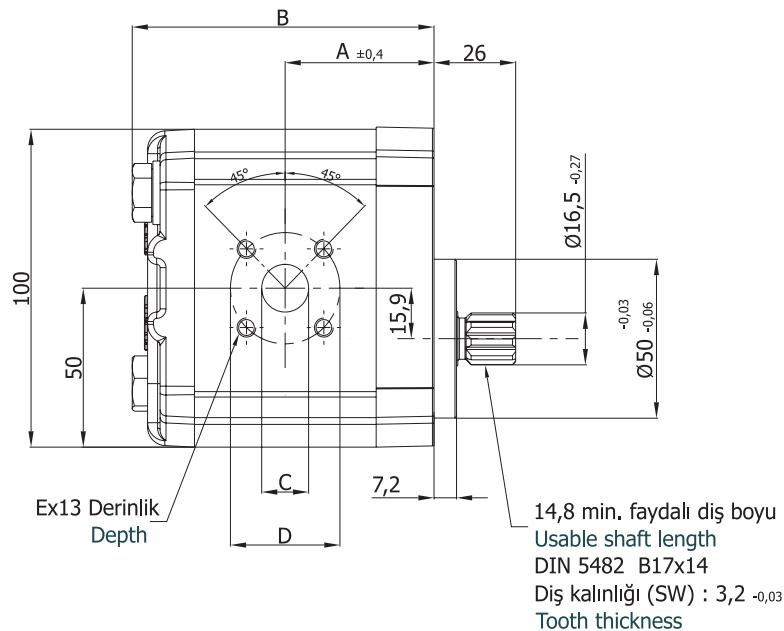
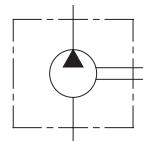
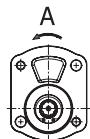
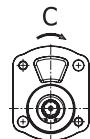


Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)		Maks. Basınç Max. Pressure (bar)		Maks. Hız Max. Speed d/d' (rpm)	A ±0,4	B ±0,8	H	Giriş – Inlet			Çıkış - Outlet		
	1	2	1	2					C	D	E	c	d	e
APH20.190/140.A/CAB02SN-T	19,2	13,9	250	250	3000	60,2	169,2	220,2	20 *	40 *	M8 *	13,5	30,2	M6
APH20.190/160.A/CAB02SN-T	19,2	16,0		230			170,7	223,3						
APH20.190/190.A/CAB02SN-T	19,2	19,2		190			179,2	240,3						
APH20.220/060.A/CAB02SN-T	21,9	5,9	210	250	62,3	173,5	166,9	211,9						
APH20.220/080.A/CAB02SN-T	21,9	8,0					168,8	215,1						
APH20.220/115.A/CAB02SN-T	21,9	11,4					171,5	220,6						
APH20.220/140.A/CAB02SN-T	21,9	13,9					173,5	224,5						
APH20.220/160.A/CAB02SN-T	21,9	16,0					175,0	227,6						
APH20.220/190.A/CAB02SN-T	21,9	19,2					183,5	244,7						
APH20.220/220.A/CAB02SN-T	21,9	21,9					185,7	249,1						
APH20.250/060.A/CAB02SN-T	24,8	5,9	190	250	64,8	178,6	172,4	217,0						
APH20.250/080.A/CAB02SN-T	24,8	8,0					173,9	220,2						
APH20.250/115.A/CAB02SN-T	24,8	11,4					176,6	225,7						
APH20.250/140.A/CAB02SN-T	24,8	13,9					178,6	229,6						
APH20.250/160.A/CAB02SN-T	24,8	16,0					180,1	232,7						
APH20.250/190.A/CAB02SN-T	24,8	19,2					188,6	249,7						
APH20.250/220.A/CAB02SN-T	24,8	21,9					190,9	254,1						
APH20.250/250.A/CAB02SN-T	24,8	24,8					195,6	259,2						
APH20.280/060.A/CAB02SN-T	27,9	5,9	170	250	67,0	182,9	176,7	221,4						
APH20.280/080.A/CAB02SN-T	27,9	8,0					178,2	224,5						
APH20.280/115.A/CAB02SN-T	27,9	11,4					180,9	230,0						
APH20.280/140.A/CAB02SN-T	27,9	13,9					182,9	233,9						
APH20.280/160.A/CAB02SN-T	27,9	16,0					184,4	237,1						
APH20.280/190.A/CAB02SN-T	27,9	19,2					192,9	254,1						
APH20.280/220.A/CAB02SN-T	27,9	21,9					195,2	258,4						
APH20.280/250.A/CAB02SN-T	27,9	24,8					197,7	263,5						
APH20.280/280.A/CAB02SN-T	27,9	27,9					199,9	267,8						
APH20.320/060.A/CAB02SN-T	32,0	5,9	160	250	70,0	189,1	182,9	227,6						
APH20.320/080.A/CAB02SN-T	32,0	8,0					184,4	230,7						
APH20.320/115.A/CAB02SN-T	32,0	11,4					187,1	236,2						
APH20.320/140.A/CAB02SN-T	32,0	13,9					189,1	240,1						
APH20.320/160.A/CAB02SN-T	32,0	16,0					190,6	243,3						
APH20.320/190.A/CAB02SN-T	32,0	19,2					199,1	260,3						

A Ön Kapak
Front Cover

B Şaft Tipi
Shaft Type


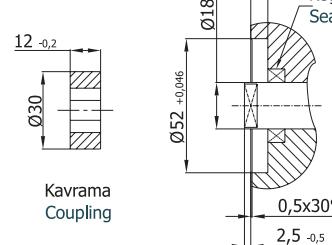
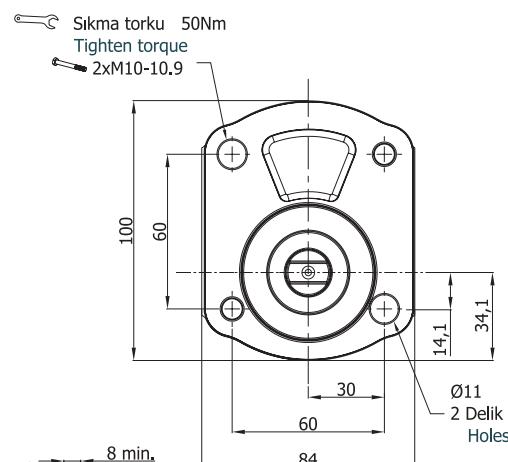
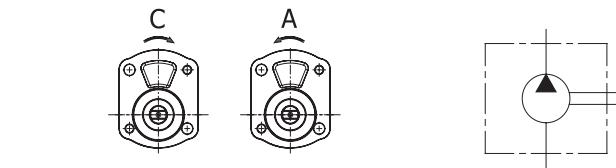
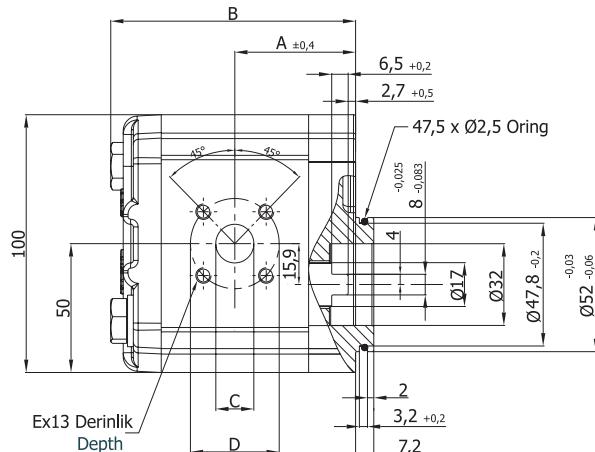
Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş – Inlet			Çıkış - Outlet								
						C	D	E	c	d	e						
DKP20.040.A/CAB02SN	3,9	280	3500	42,2	85,3	12	13,5	M6	12	30,2	M6						
DKP20.060.A/CAB02SN	5,9			43,8	88,4	13,5											
DKP20.080.A/CAB02SN	8,0			45,4	91,6												
DKP20.095.A/CAB02SN	9,4		3000	46,5	93,9				20			40	M8				
DKP20.115.A/CAB02SN	11,4			48,2	97,0												
DKP20.140.A/CAB02SN	13,9			50,0	101,0												
DKP20.160.A/CAB02SN	16,0			51,7	104,1												
DKP20.190.A/CAB02SN	19,2			60,2	121,1												
DKP20.220.A/CAB02SN	21,9	2500		62,3	125,5												
DKP20.250.A/CAB02SN	24,8			64,8	130,4												
DKP20.280.A/CAB02SN	27,9	200	2200	67,0	134,9	20	40	M8									

B Ön Kapak
Front Cover

G Şaft Tipi
Shaft Type


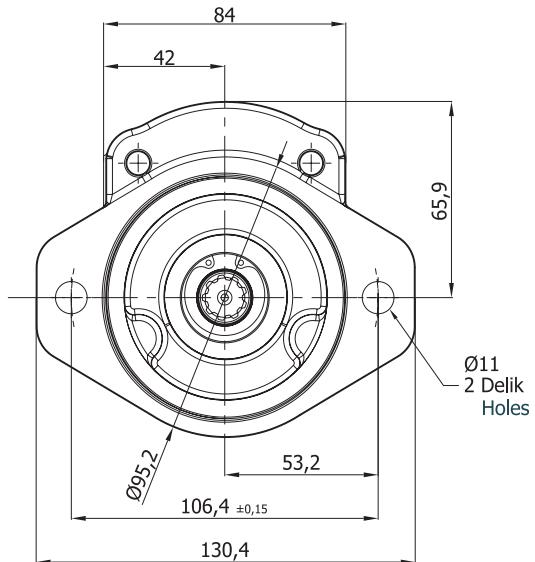
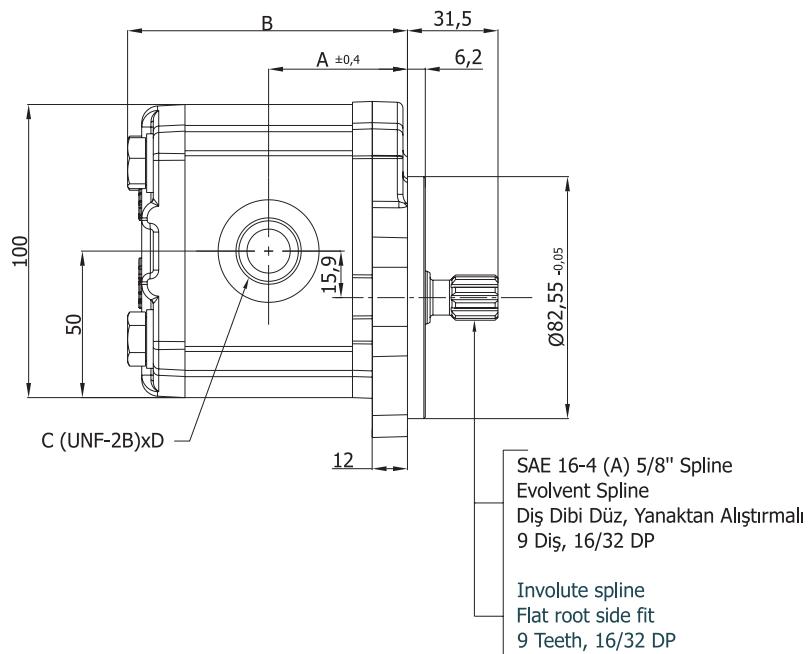
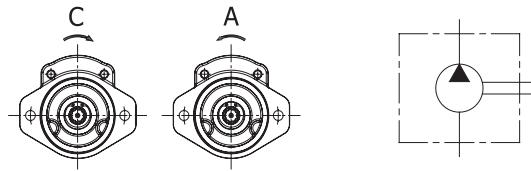
Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş – Inlet			Çıkış - Outlet						
						C	D	E	c	d	e				
DKP20.040.A/CBG01SN	3,9	280	3500	41,6	84,7	12	40	M6	12	35	M6				
DKP20.060.A/CBG01SN	5,9			43,2	87,8	13,5			13,5						
DKP20.080.A/CBG01SN	8,0			44,8	91,0	20									
DKP20.095.A/CBG01SN	9,4			45,9	93,3										
DKP20.115.A/CBG01SN	11,4		3000	47,6	96,4	15									
DKP20.140.A/CBG01SN	13,9			49,4	100,4										
DKP20.160.A/CBG01SN	16,0			51,1	103,5										
DKP20.190.A/CBG01SN	19,2			59,6	120,5										
DKP20.220.A/CBG01SN	21,9	240	2500	61,7	124,9										
DKP20.250.A/CBG01SN	24,8	220		64,2	129,8										
DKP20.280.A/CBG01SN	27,9	200	2200	66,4	134,3	20	40								

C Ön Kapak
Front Cover

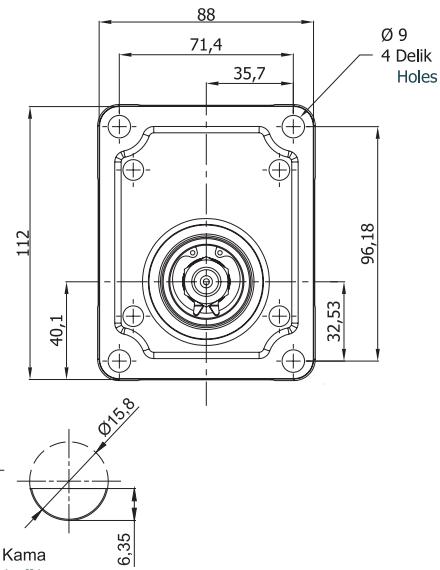
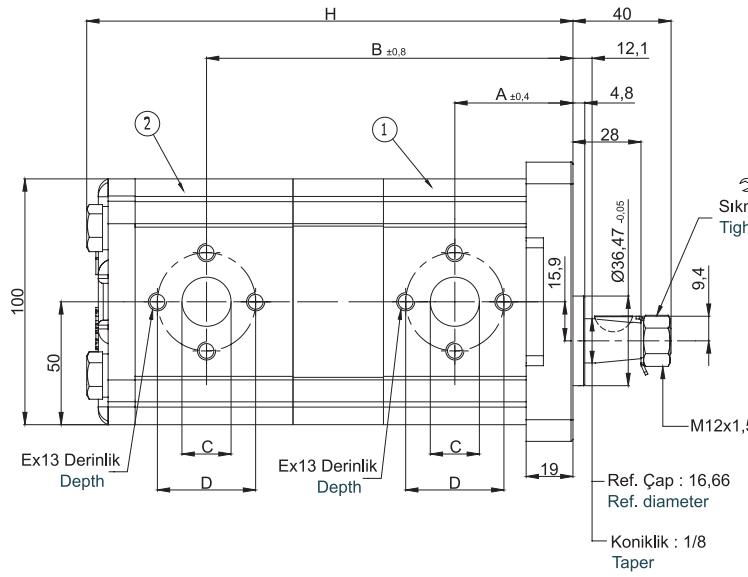
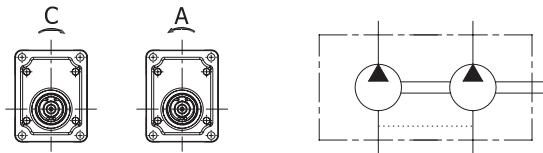
E Şaft Tipi
Shaft Type


Pompa Tipi Pump 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	D	E	c	d	e				
DKP20.040.A/CCE01SN	3,9	280	3500	41,6	84,7	12	40	M6	12	35	M6				
DKP20.060.A/CCE01SN	5,9			43,2	87,8	13,5			13,5						
DKP20.080.A/CCE01SN	8,0			44,8	91,0	20									
DKP20.095.A/CCE01SN	9,4			45,9	93,3										
DKP20.115.A/CCE01SN	11,4		3000	47,6	96,4	15									
DKP20.140.A/CCE01SN	13,9			49,4	100,4										
DKP20.160.A/CCE01SN	16,0			51,1	103,5										
DKP20.190.A/CCE01SN	19,2			59,6	120,5										
DKP20.220.A/CCE01SN	21,9	2500	240	61,7	124,9										
DKP20.250.A/CCE01SN	24,8			64,2	129,8										
DKP20.280.A/CCE01SN	27,9	200	2200	66,4	134,3	20	40								

D Ön Kapak
Front Cover

C Şaft Tipi
Shaft Type


Pompa Tipi Pump 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	D	c	d
DKP20.040.A/CDC04SN	3,9	280	3500	42,2	85,3	9/16-18 UNF	13	9/16-18 UNF	13
DKP20.060.A/CDC04SN	5,9			43,8	88,4				
DKP20.080.A/CDC04SN	8,0			45,4	91,6		16	7/8-14 UNF	16
DKP20.095.A/CDC04SN	9,4			46,5	93,9				
DKP20.115.A/CDC04SN	11,4	3000	2500	48,2	97,0	1 1/16-12 UNF	19	7/8-14 UNF	16
DKP20.140.A/CDC04SN	13,9			50,0	101,0				
DKP20.160.A/CDC04SN	16,0			51,7	104,1				
DKP20.190.A/CDC04SN	19,2			60,2	121,1				
DKP20.220.A/CDC04SN	21,9	240	220	62,3	125,5	1 1/16-12 UNF	19	7/8-14 UNF	16
DKP20.250.A/CDC04SN	24,8	220		64,8	130,4				
DKP20.280.A/CDC04SN	27,9	200	2200	67,0	134,9				

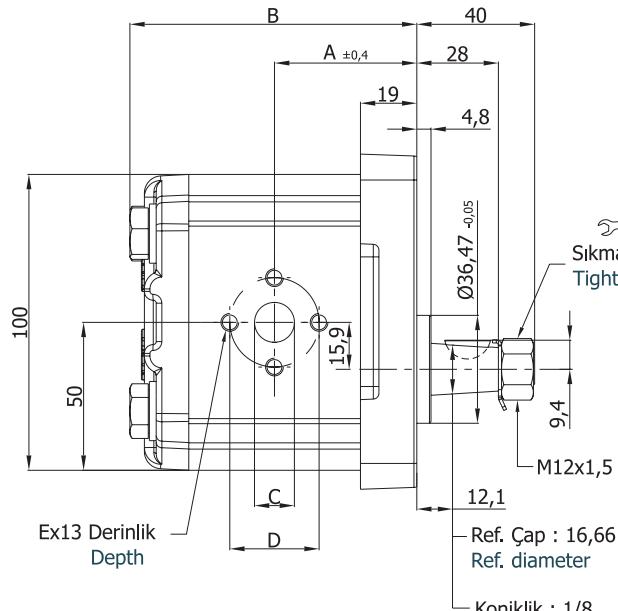
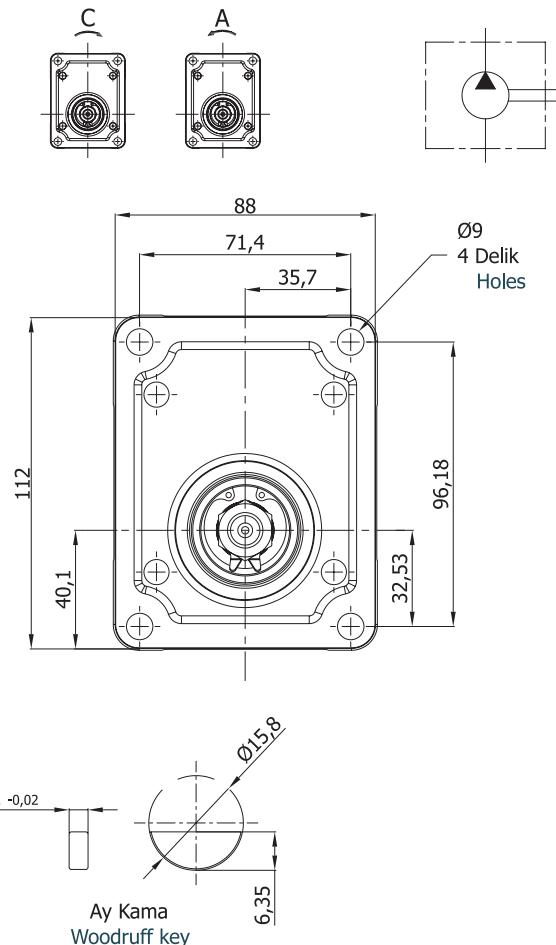
A Ön Kapak
Front Cover**B** Şaft Tipi
Shaft Type

* 060 ve 080 arka pompalar için / For 060 and 080 pumps
C = 13,5 ; D = 30,2 ; E = M6

Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)		Maks. Basınç Max. Pressure (bar)		Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B ±0,8	H	Giriş – Inlet		Çıkış - Outlet			
	1	2	1	2					C	D	E	c	d	e
DKP20.115/060.A/CAB02SN-T	11,4	5,9	280	280	3000	48	138,8	183,6	20 *	40 *	M8 *	13,5	30,2	M6
DKP20.115/080.A/CAB02SN-T	11,4	8,0					140,6	186,7						
DKP20.115/115.A/CAB02SN-T	11,4	11,4					143,1	192,2						
DKP20.140/060.A/CAB02SN-T	13,9	5,9				50	142,8	187,5						
DKP20.140/080.A/CAB02SN-T	13,9	8,0					144,3	190,6						
DKP20.140/115.A/CAB02SN-T	13,9	11,4					147,0	196,1						
DKP20.140/140.A/CAB02SN-T	13,9	13,9					149,0	200,0						
DKP20.160/060.A/CAB02SN-T	16,0	16,0				51,5	145,9	190,6						
DKP20.160/080.A/CAB02SN-T	16,0	8,0					147,4	193,8						
DKP20.160/115.A/CAB02SN-T	16,0	11,4					150,1	199,2						
DKP20.160/140.A/CAB02SN-T	16,0	13,9					152,1	203,1						
DKP20.160/160.A/CAB02SN-T	16,0	16,0					153,7	206,3						
DKP20.190/060.A/CAB02SN-T	19,2	5,9	60,0	60,0	3000	60,0	162,9	208,1						
DKP20.190/080.A/CAB02SN-T	19,2	8,0					164,5	211,2						
DKP20.190/115.A/CAB02SN-T	19,2	11,4					167,2	216,3						

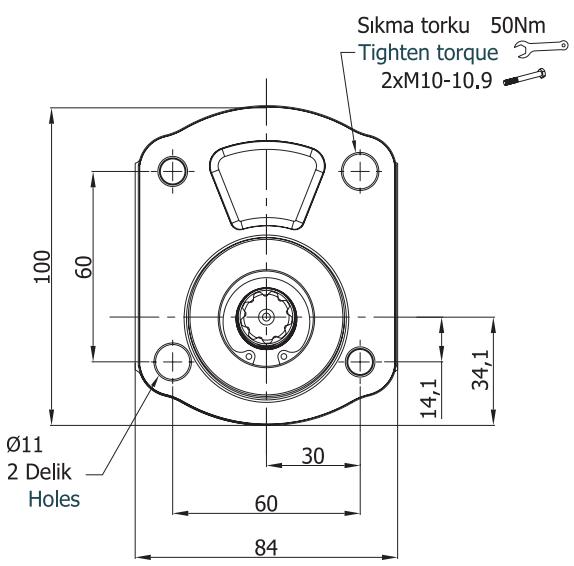
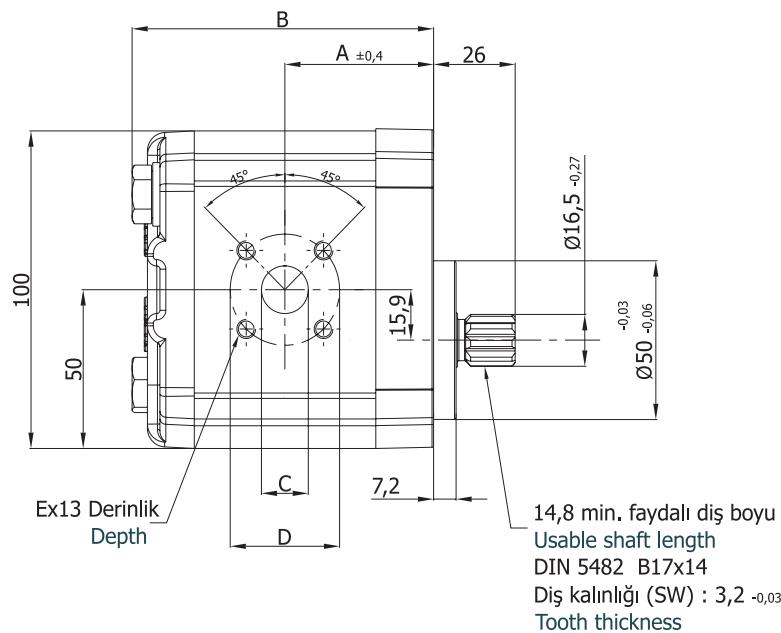
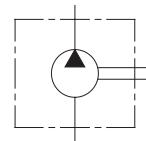
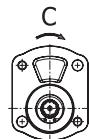


Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)		Maks. Basınç Max. Pressure (bar)		Maks. Hız Max. Speed d/d' (rpm)	A ±0,4	B ±0,8	H	Giriş - Inlet			Çıkış - Outlet		
	1	2	1	2					C	D	E	c	d	e
DKP20.190/140.A/CAB02SN-T	19,2	13,9	250	280	3000	60,2	169,2	220,2	20 *	40 *	M8 *	13,5	30,2	M6
DKP20.190/160.A/CAB02SN-T	19,2	16,0		280			170,7	223,3						
DKP20.190/190.A/CAB02SN-T	19,2	19,2		280			179,2	240,3						
DKP20.220/060.A/CAB02SN-T	21,9	5,9	240	280	62,3	173,5	166,9	211,9						
DKP20.220/080.A/CAB02SN-T	21,9	8,0					168,8	215,1						
DKP20.220/115.A/CAB02SN-T	21,9	11,4					171,5	220,6						
DKP20.220/140.A/CAB02SN-T	21,9	13,9					173,5	224,5						
DKP20.220/160.A/CAB02SN-T	21,9	16,0					175,0	227,6						
DKP20.220/190.A/CAB02SN-T	21,9	19,2					183,5	244,7						
DKP20.220/220.A/CAB02SN-T	21,9	21,9					185,7	249,1						
DKP20.250/060.A/CAB02SN-T	24,8	5,9	220	280	64,8	172,4	172,4	217,0						
DKP20.250/080.A/CAB02SN-T	24,8	8,0					173,9	220,2						
DKP20.250/115.A/CAB02SN-T	24,8	11,4					176,6	225,7						
DKP20.250/140.A/CAB02SN-T	24,8	13,9					178,6	229,6						
DKP20.250/160.A/CAB02SN-T	24,8	16,0					180,1	232,7						
DKP20.250/190.A/CAB02SN-T	24,8	19,2					188,6	249,7						
DKP20.250/220.A/CAB02SN-T	24,8	21,9					190,9	254,1						
DKP20.250/250.A/CAB02SN-T	24,8	24,8					195,6	259,2						
DKP20.280/060.A/CAB02SN-T	27,9	5,9	200	280	67,0	176,7	176,7	221,4						
DKP20.280/080.A/CAB02SN-T	27,9	8,0					178,2	224,5						
DKP20.280/115.A/CAB02SN-T	27,9	11,4					180,9	230,0						
DKP20.280/140.A/CAB02SN-T	27,9	13,9					182,9	233,9						
DKP20.280/160.A/CAB02SN-T	27,9	16,0					184,4	237,1						
DKP20.280/190.A/CAB02SN-T	27,9	19,2					192,9	254,1						
DKP20.280/220.A/CAB02SN-T	27,9	21,9					195,2	258,4						
DKP20.280/250.A/CAB02SN-T	27,9	24,8					197,7	263,5						
DKP20.280/280.A/CAB02SN-T	27,9	27,9					199,9	267,8						

A Ön Kapak
Front Cover**B** Şaft Tipi
Shaft Type

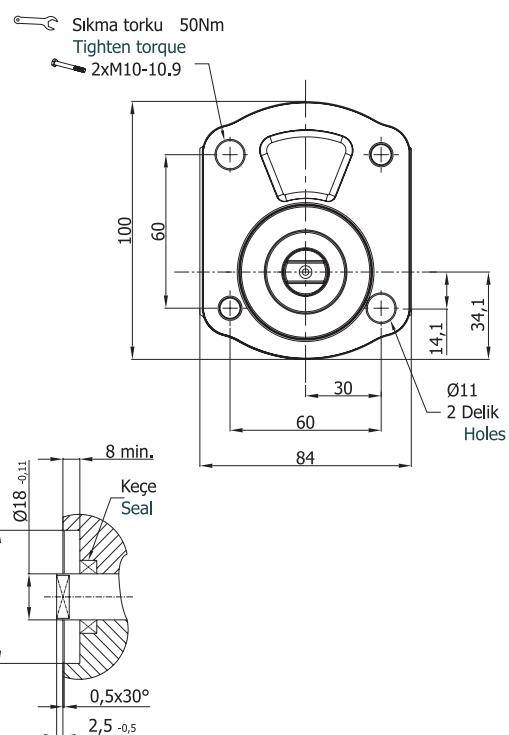
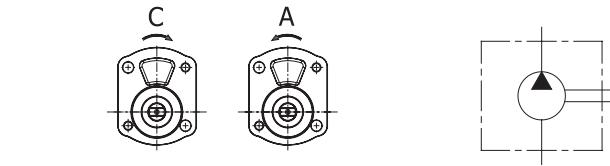
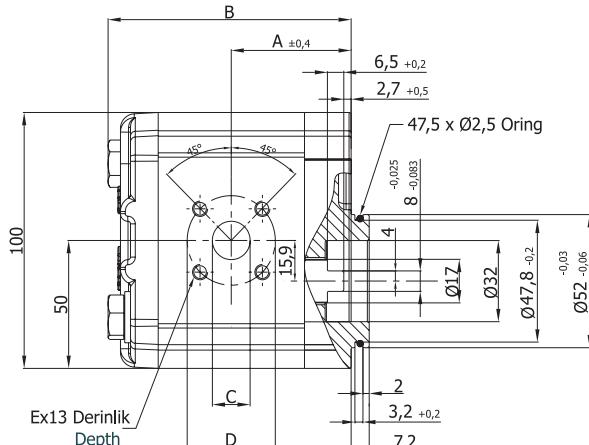
Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş – Inlet			Çıkış - Outlet				
						C	D	E	c	d	e		
DPH20.040.A/CAB02SN	3,9	320	3500	48,2	101,3	12	30,2	M6	12	30,2	M6		
DPH20.060.A/CAB02SN	5,9			49,8	104,4	13,5			13,5	30,2	M6		
DPH20.080.A/CAB02SN	8,0			51,4	107,6								
DPH20.095.A/CAB02SN	9,4			52,5	109,9								
DPH20.115.A/CAB02SN	11,4	300	3000	54,2	113,0	20	40	M8	13,5	30,2	M6		
DPH20.140.A/CAB02SN	13,9			56,0	117,0								
DPH20.160.A/CAB02SN	16,0			57,7	120,1								
DPH20.190.A/CAB02SN	19,2			66,2	137,1								
DPH20.220.A/CAB02SN	21,9	250	2500	68,3	141,5	20	40	M8	20	40	M8		
DPH20.250.A/CAB02SN	24,8			70,8	146,4								
DPH20.280.A/CAB02SN	27,9	210	2200	73,0	150,9								

B Ön Kapak
 Front Cover

G Şaft Tipi
 Shaft Type


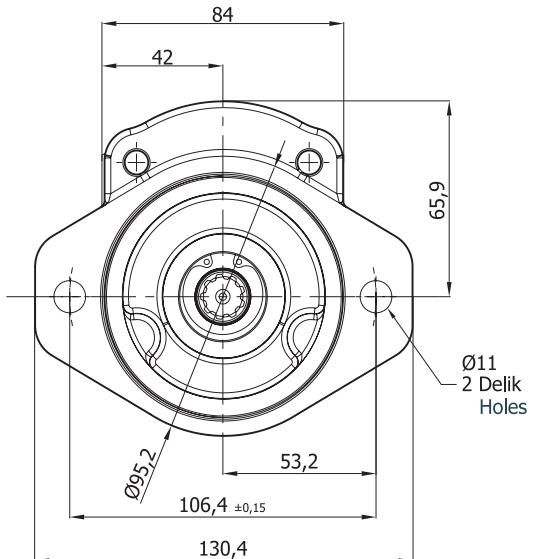
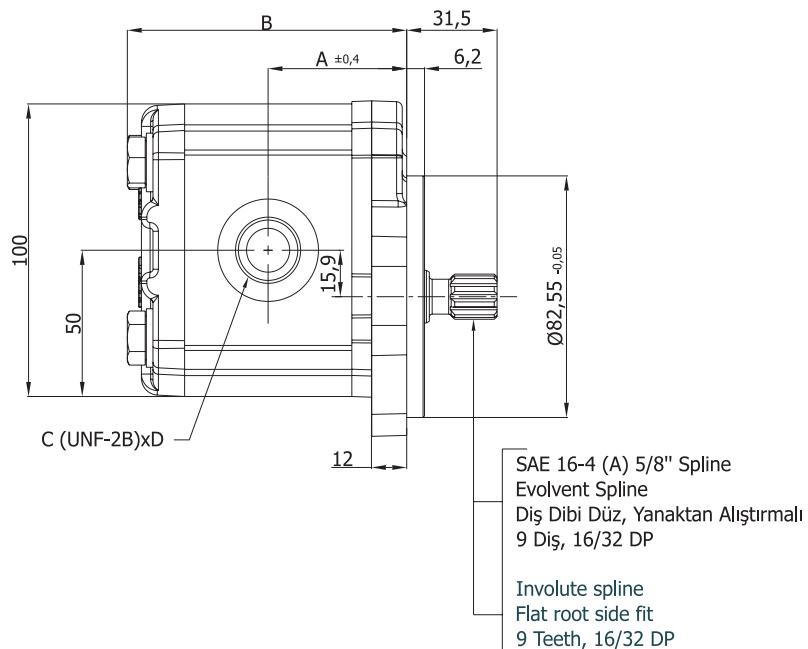
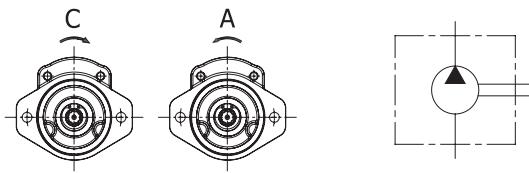
Pompa Tipi Pump Type	İletim Hacmi Displacement cm ³ /dev(cm ³ /rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş – Inlet			Çıkış - Outlet		
						C	D	E	c	d	e
DPH20.040.A/CBG01SN	3,9	320	3500	47,6	100,7	12	20	40	12	35	M6
DPH20.060.A/CBG01SN	5,9			49,2	103,8	13,5			13,5		
DPH20.080.A/CBG01SN	8,0			50,8	107,0						
DPH20.095.A/CBG01SN	9,4			51,9	109,3						
DPH20.115.A/CBG01SN	11,4	300	3000	53,6	112,6				15		
DPH20.140.A/CBG01SN	13,9			55,4	116,4						
DPH20.160.A/CBG01SN	16,0			57,1	119,5						
DPH20.190.A/CBG01SN	19,2			65,6	136,5						
DPH20.220.A/CBG01SN	21,9	250	2500	67,7	140,9						
DPH20.250.A/CBG01SN	24,8			70,2	145,8						
DPH20.280.A/CBG01SN	27,9	210	2200	73,0	150,3				20	40	

C Ön Kapak
Front Cover

E Şaft Tipi
Shaft Type


Pompa Tipi Pump 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	D	E	c	d	e	
DPH20.040.A/CCE01SN	3,9	320	3500	47,6	100,7	12			12			
DPH20.060.A/CCE01SN	5,9			49,2	103,8	13,5			13,5			
DPH20.080.A/CCE01SN	8,0			50,8	107,0							
DPH20.095.A/CCE01SN	9,4			51,9	109,3							
DPH20.115.A/CCE01SN	11,4		3000	53,6	112,6							
DPH20.140.A/CCE01SN	13,9	300		55,4	116,4							
DPH20.160.A/CCE01SN	16,0			57,1	119,5							
DPH20.190.A/CCE01SN	19,2			65,6	136,5							
DPH20.220.A/CCE01SN	21,9	250	2500	67,7	140,9							
DPH20.250.A/CCE01SN	24,8			70,2	145,8							
DPH20.280.A/CCE01SN	27,9	210	2200	73,0	150,3				20	40		

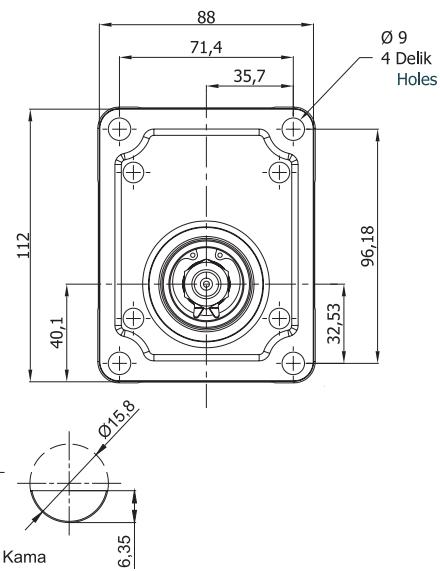
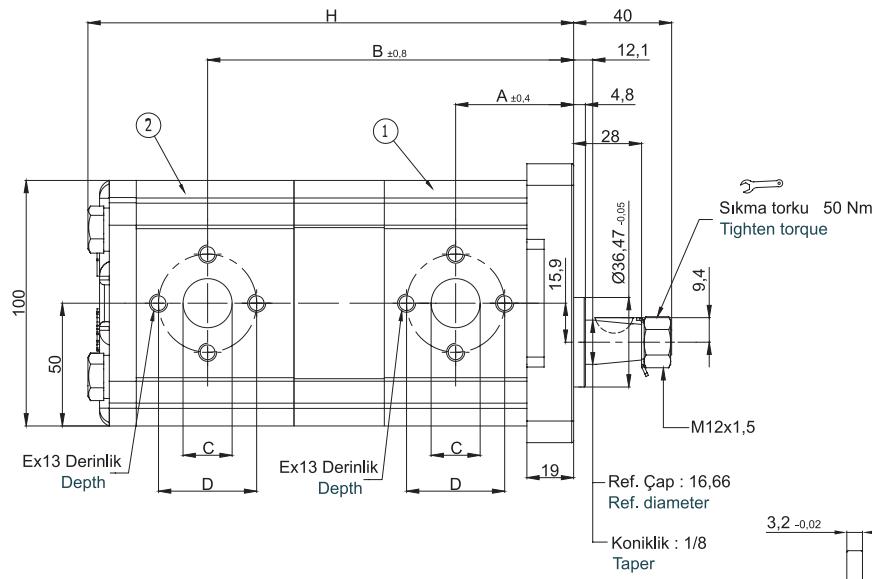
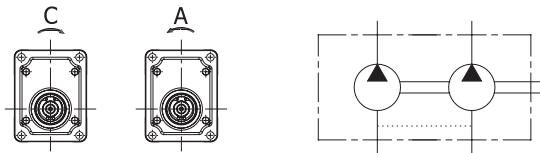
D Ön Kapak
 Front Cover

C Şaft Tipi
 Shaft Type


Pompa Tipi Pump 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 – İnlet		Çıkış - Outlet	
						C	D	c	d
DPH20.040.A/CDC04SN	3,9	320	3500	48,2	101,3	9/16-18 UNF	13	9/16-18 UNF	13
DPH20.060.A/CDC04SN	5,9			49,8	104,4				
DPH20.080.A/CDC04SN	8,0			51,4	107,6				
DPH20.095.A/CDC04SN	9,4			52,5	109,9				
DPH20.115.A/CDC04SN	11,4	300	3000	54,2	113,0	1 1/16-12 UNF	19	7/8-14 UNF	16
DPH20.140.A/CDC04SN	13,9			56,0	117,0				
DPH20.160.A/CDC04SN	16,0			57,7	120,1				
DPH20.190.A/CDC04SN	19,2			66,2	137,1				
DPH20.220.A/CDC04SN	21,9	280	2500	68,3	141,5	1 1/16-12 UNF	19	7/8-14 UNF	16
DPH20.250.A/CDC04SN	24,8			70,8	146,4				
DPH20.280.A/CDC04SN	27,9	210	2200	73,0	150,9				

A Ön Kapak
Front Cover

B Şaft Tipi Shaft Type



* 060 ve 080 arka pompalar için / For 060 and 080 pumps
 C = 13,5 ; D = 30,2 ; E = M6

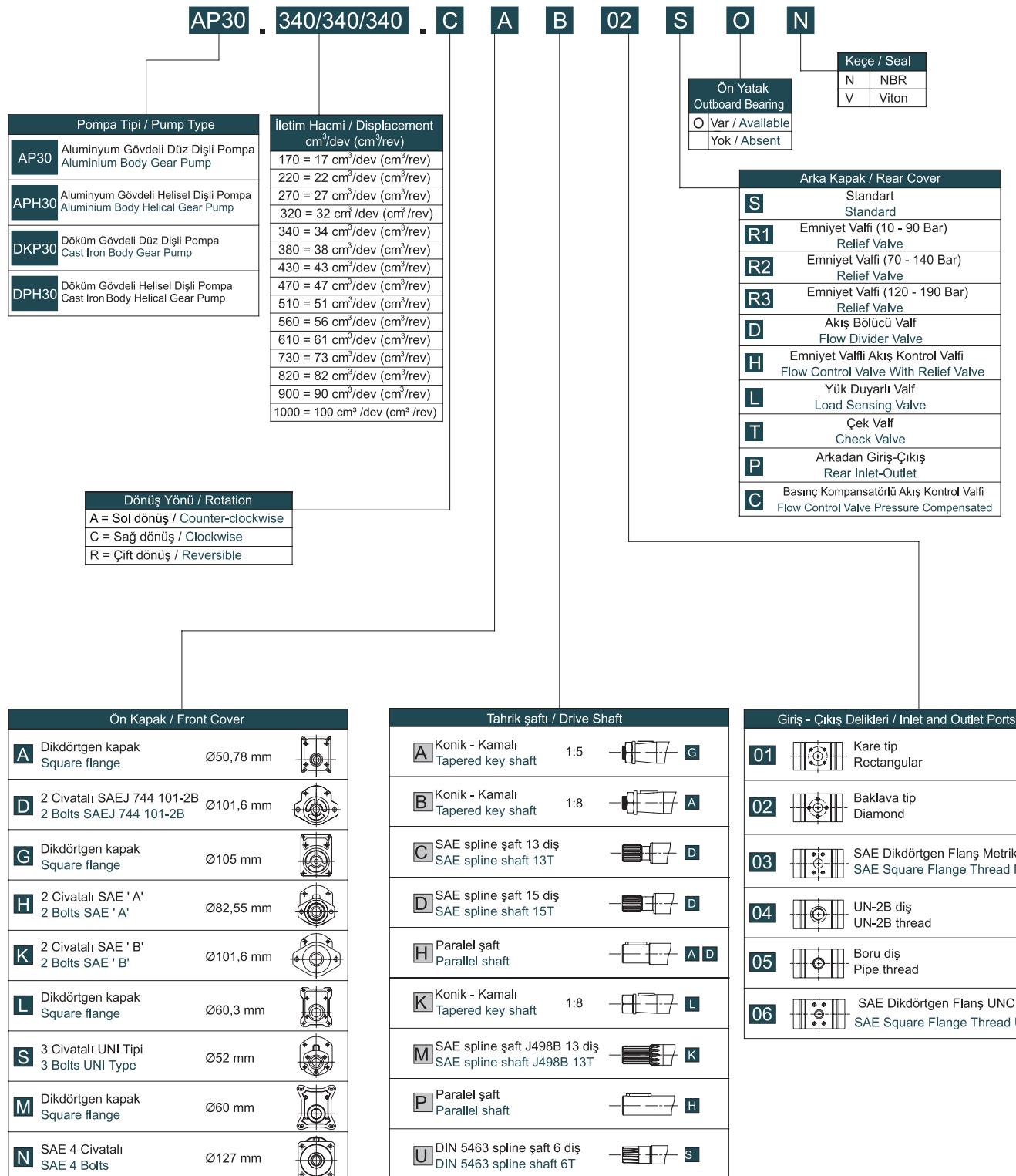
Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)		Maks. Basınç Max. Pressure (bar)		Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B ±0,8	H	Giriş – Inlet		Çıkış - Outlet	
	1	2	1	2					C	D	E	c
DPH20.115/060.A/CAB02SN-T	11,4	5,9	320	320	3000	54	155,4	208,8	20 *	40 *	M8 *	13,5
DPH20.115/080.A/CAB02SN-T	11,4	8,0					158,5	214,8				
DPH20.115/115.A/CAB02SN-T	11,4	11,4					161,2	220,3				
DPH20.140/060.A/CAB02SN-T	13,9	5,9				56	160,8	215,6				
DPH20.140/080.A/CAB02SN-T	13,9	8,0					162,4	218,7				
DPH20.140/115.A/CAB02SN-T	13,9	11,4					165,1	224,2				
DPH20.140/140.A/CAB02SN-T	13,9	13,9					167,2	228,1				
DPH20.160/060.A/CAB02SN-T	16,0	16,0	300	320	57,6	3000	163,9	218,7				
DPH20.160/080.A/CAB02SN-T	16,0	8,0					165,5	221,9				
DPH20.160/115.A/CAB02SN-T	16,0	11,4					168,2	227,4				
DPH20.160/140.A/CAB02SN-T	16,0	13,9					170,2	231,3				
DPH20.160/160.A/CAB02SN-T	16,0	16,0					171,8	234,4				
DPH20.190/060.A/CAB02SN-T	19,2	5,9	280	320	66,1	180,9	235,7	20 *	40 *	M8 *	13,5	30,2
DPH20.190/080.A/CAB02SN-T	19,2	8,0				182,5	238,9					
DPH20.190/115.A/CAB02SN-T	19,2	11,4				185,2	244,4					



Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)		Maks. Basınç Max. Pressure (bar)		Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B ±0,8	H	Giriş – Inlet			Çıkış - Outlet				
	1	2	1	2					C	D	E	c	d	e		
DPH20.190/140.A/CAB02SN-T	19,2	13,9	280	300	3000	66,1	187,2	248,3	20 *	40 *	M8 *	13,5	30,2	M6		
DPH20.190/160.A/CAB02SN-T	19,2	16,0		300			188,8	251,4								
DPH20.190/190.A/CAB02SN-T	19,2	19,2		280			197,3	268,4								
DPH20.220/060.A/CAB02SN-T	21,9	5,9	250	320	2500	68,2	185,3	240,1								
DPH20.220/080.A/CAB02SN-T	21,9	8,0					186,9	243,2								
DPH20.220/115.A/CAB02SN-T	21,9	11,4					189,6	248,7								
DPH20.220/140.A/CAB02SN-T	21,9	13,9		300			191,6	252,6								
DPH20.220/160.A/CAB02SN-T	21,9	16,0					193,2	255,8								
DPH20.220/190.A/CAB02SN-T	21,9	19,2		280			201,7	272,8								
DPH20.220/220.A/CAB02SN-T	21,9	21,9					203,8	277,1								
DPH20.250/060.A/CAB02SN-T	24,8	5,9		320			190,3	245,1								
DPH20.250/080.A/CAB02SN-T	24,8	8,0					191,9	248,3								
DPH20.250/115.A/CAB02SN-T	24,8	11,4					194,6	253,8								
DPH20.250/140.A/CAB02SN-T	24,8	13,9	230	300	70,8	70,8	196,6	257,7								
DPH20.250/160.A/CAB02SN-T	24,8	16,0					198,2	260,8								
DPH20.250/190.A/CAB02SN-T	24,8	19,2		280			206,7	277,8								
DPH20.250/220.A/CAB02SN-T	24,8	21,9					208,8	282,2								
DPH20.250/250.A/CAB02SN-T	24,8	24,8		250			213,6	291,6								
DPH20.280/060.A/CAB02SN-T	27,9	5,9	210	320	2200	73,0	194,7	249,5								
DPH20.280/080.A/CAB02SN-T	27,9	8,0					196,3	252,6								
DPH20.280/115.A/CAB02SN-T	27,9	11,4					199,0	258,1								
DPH20.280/140.A/CAB02SN-T	27,9	13,9		300			201,0	262,0								
DPH20.280/160.A/CAB02SN-T	27,9	16,0					202,6	265,2								
DPH20.280/190.A/CAB02SN-T	27,9	19,2		280			211,1	282,2								
DPH20.280/220.A/CAB02SN-T	27,9	21,9					213,2	286,5								
DPH20.280/250.A/CAB02SN-T	27,9	24,8		230			215,8	291,6								
DPH20.280/280.A/CAB02SN-T	27,9	27,9					218,0	295,9								

GRUP 30 POMPALARIN KODLAMA SİSTEMİ

ORDERING CODE OF GROUP 30 PUMPS



- Kodlama Örneği (Tekli) ; AP30.340.CAB02SN
Code Example (Single)

- Kodlama Örneği (Tandem) ; AP30.340/340/340.CAB02SN
Code Example (Tandem)

Grup 30 pompalar 17 cc³/dev.'den 100 cc³/rev.'e kadar ki iletim hacmine sahip pompalardır.

Kendi içinde AP30 , APH30 , DKP30 , DPH30 olarak 4 gruba ayrılır. aşağıdaki tablo da bu 4 grubun birbirinden farklı olan teknik özellikleri belirtilmiştir;

- AP30 (Aluminyum Gövdeli Düz Dişli Pompalar)
- APH30(Aluminyum Gövdeli Helisel Dişli Pompalar)
- DKP30 (Döküm Gövdeli Düz Dişli Pompalar)
- DPH30 (Döküm Gövdeli Helisel Dişli Pompalar)

Group 30 pumps has a working capacity from 17 cc³/rev to 100 cc³/rev.

It has 4 sub-groups in itself as AP30, APH30, DKP30 and DPH30. The differences between the 4 sub-groups technical specifications can be found on the below table.

- AP30 (Aluminium Body Gear Pumps)
- APH30 (Aluminium Body Helical Gear Pumps)
- DKP30 (Cast Iron Body Gear Pumps)
- DPH30 (Cast Iron Body Helical Gear Pumps)

AP30 TEKNİK ÖZELLİKLER / AP30 TECHNICAL DATA

Pompa Tipi Pump 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)	
AP30.170	17,0	250	270	290	3000	400
AP30.220	22,0	250	270	290	3000	400
AP30.270	27,0	250	270	290	3000	400
AP30.320	32,0	240	260	280	3000	400
AP30.340	34,0	240	260	280	3000	400
AP30.380	38,0	240	260	280	3000	400
AP30.430	43,0	230	250	270	3000	400
AP30.470	47,0	230	250	270	2500	400
AP30.510	51,0	210	230	250	2500	400
AP30.560	56,0	200	220	240	2500	400
AP30.610	61,0	180	200	220	2500	400
AP30.730	73,0	170	190	210	2500	400
AP30.820	82,0	160	180	200	2500	400
AP30.900	90,0	150	170	190	2000	400
AP30.1000	100,0	140	160	180	2000	400

P1: Sürekli çalışma basıncı
Continuous pressure

P2 : Aralıklı çalışma basıncı¹
Intermittent pressure

P3 : Ani basınç
Peak pressure

APH30 TEKNİK ÖZELLİKLER / APH30 TECHNICAL DATA

Pompa Tipi Pump 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)	
APH30.170	17,0	250	270	290	3000	400
APH30.220	22,0	250	270	290	3000	400
APH30.270	27,0	250	270	290	3000	400
APH30.320	32,0	240	260	280	3000	400
APH30.340	34,0	240	260	280	3000	400
APH30.380	38,0	240	260	280	3000	400
APH30.430	43,0	230	250	270	3000	400
APH30.470	47,0	230	250	270	2500	400
APH30.510	51,0	210	230	250	2500	400
APH30.560	56,0	200	220	240	2500	400
APH30.610	61,0	180	200	220	2500	400
APH30.730	73,0	170	190	210	2500	400
APH30.820	82,0	160	180	200	2000	400
APH30.900	90,0	150	170	190	2000	400
APH30.1000	100,0	140	160	180	2000	400

P1: Sürekli çalışma basıncı
Continuous pressure

P2 : Aralıklı çalışma basıncı¹
Intermittent pressure

P3 : Ani basınç
Peak pressure

DKP30 TEKNİK ÖZELLİKLER / DKP30 TECHNICAL DATA

Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç / Max. Pressure			Maks. Hız Max. Speed	Min. Hız Min. Speed
		P1	P2	P3		
		bar			d/d (rpm)	
DKP30.170	17,0	280	300	320	3000	400
DKP30.220	22,0	280	300	320	3000	400
DKP30.270	27,0	280	300	320	3000	400
DKP30.320	32,0	260	280	300	3000	400
DKP30.340	34,0	260	280	300	3000	400
DKP30.380	38,0	260	280	300	3000	400
DKP30.430	43,0	260	280	300	3000	400
DKP30.470	47,0	250	270	290	2500	400
DKP30.510	51,0	240	260	280	2500	400
DKP30.560	56,0	230	250	270	2500	400
DKP30.610	61,0	220	240	260	2500	400
DKP30.730	73,0	200	220	240	2500	400
DKP30.820	82,0	190	210	230	2000	400
DKP30.900	90,0	180	200	220	2000	400
DKP30.1000	100,0	180	200	220	2000	400

P1: Sürekli çalışma basıncı
Continuous pressure

P2 : Aralıklı çalışma basıncı¹
Intermittent pressure

P3 : Ani basınç
Peak pressure

DPH30 TEKNİK ÖZELLİKLER / DPH30 TECHNICAL DATA

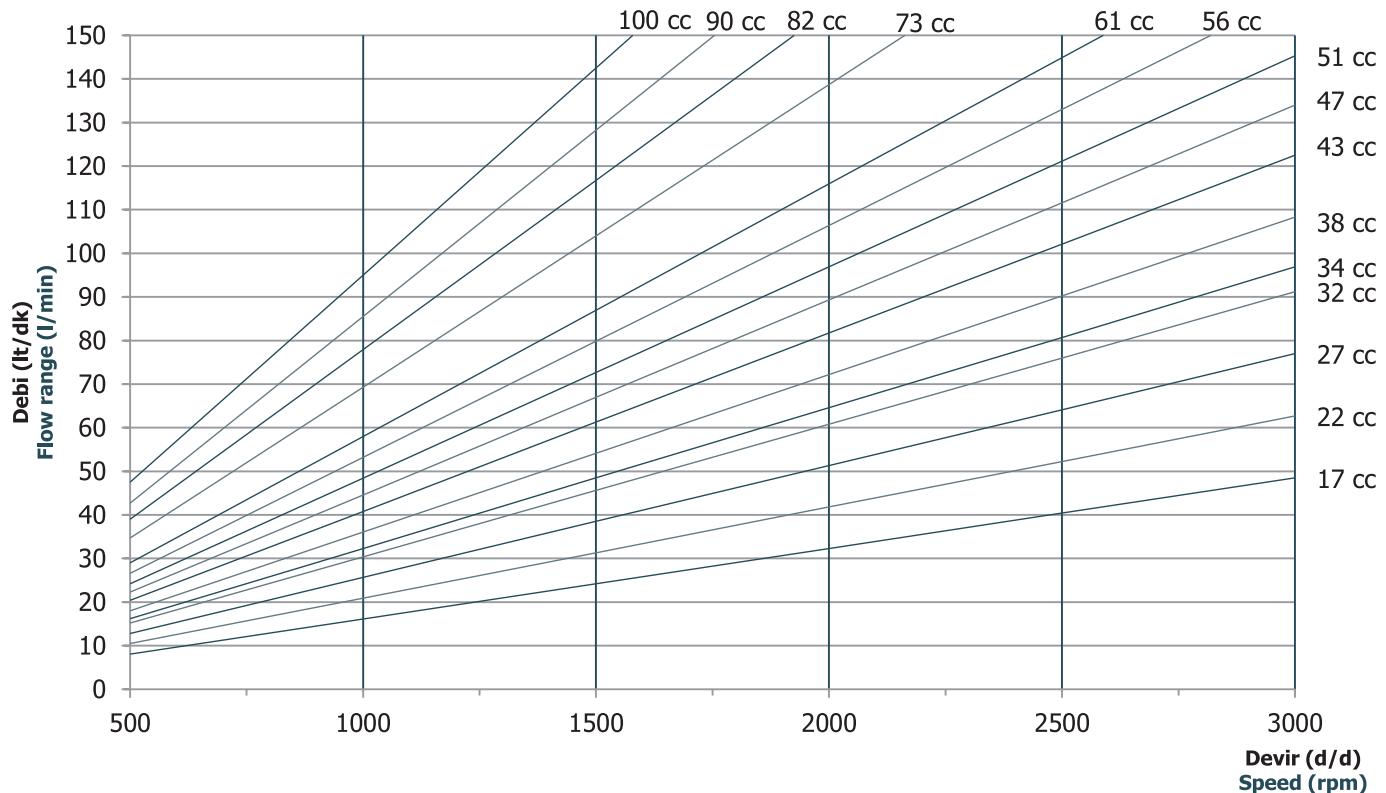
Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç / Max. Pressure			Maks. Hız Max. Speed	Min. Hız Min. Speed
		P1	P2	P3		
		bar			d/d (rpm)	
DPH30.170	17,0	300	320	340	3000	400
DPH30.220	22,0	300	320	340	3000	400
DPH30.270	27,0	300	320	340	3000	400
DPH30.320	32,0	280	300	320	3000	400
DPH30.340	34,0	280	300	320	3000	400
DPH30.380	38,0	280	300	320	3000	400
DPH30.430	43,0	280	300	320	3000	400
DPH30.470	47,0	260	280	290	2500	400
DPH30.510	51,0	260	280	300	2500	400
DPH30.560	56,0	250	270	290	2500	400
DPH30.610	61,0	240	260	280	2500	400
DPH30.730	73,0	220	240	260	2500	400
DPH30.820	82,0	210	230	250	2000	400
DPH30.900	90,0	200	220	240	2000	400
DPH30.1000	100,0	200	220	240	2000	400

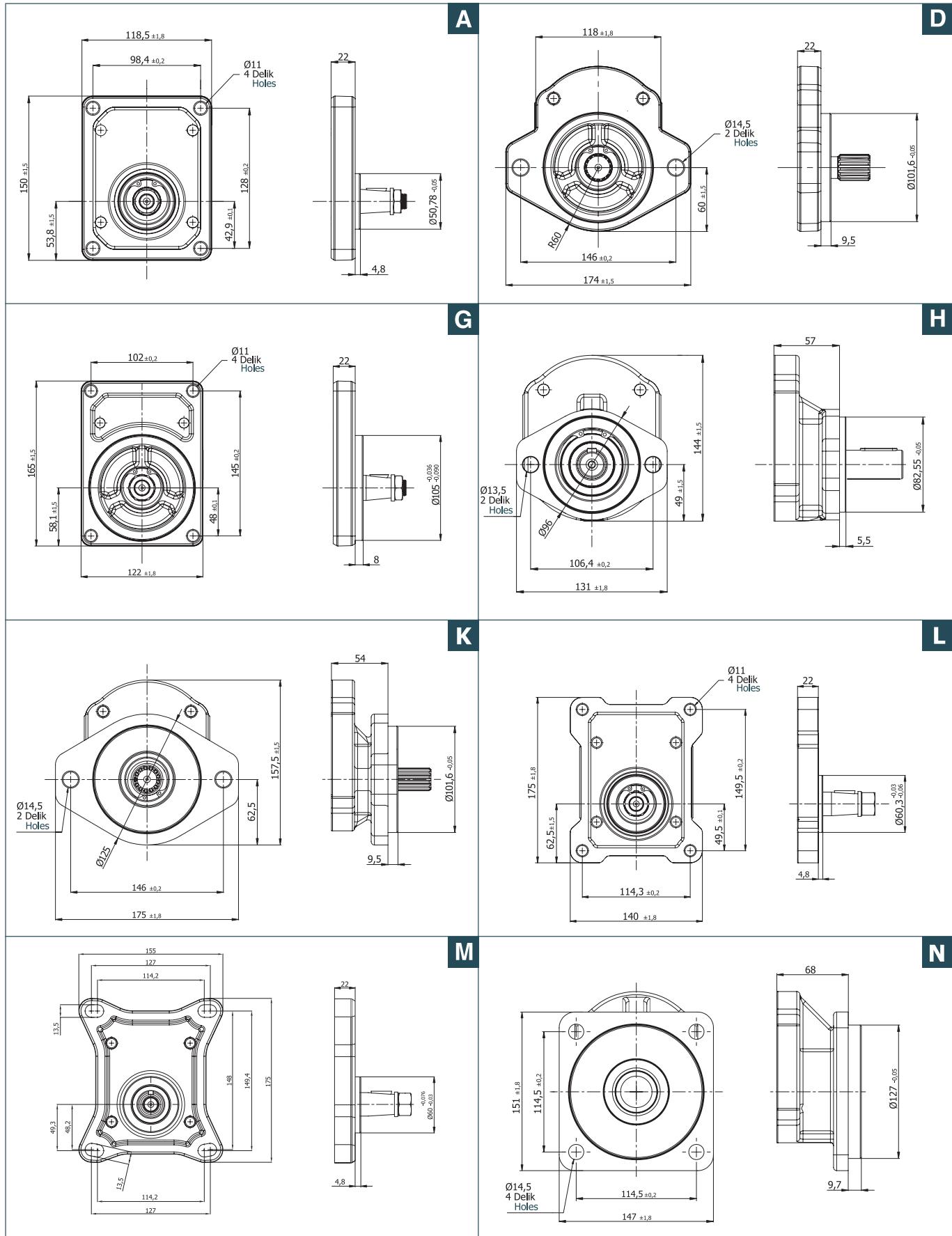
P1: Sürekli çalışma basıncı
Continuous pressure

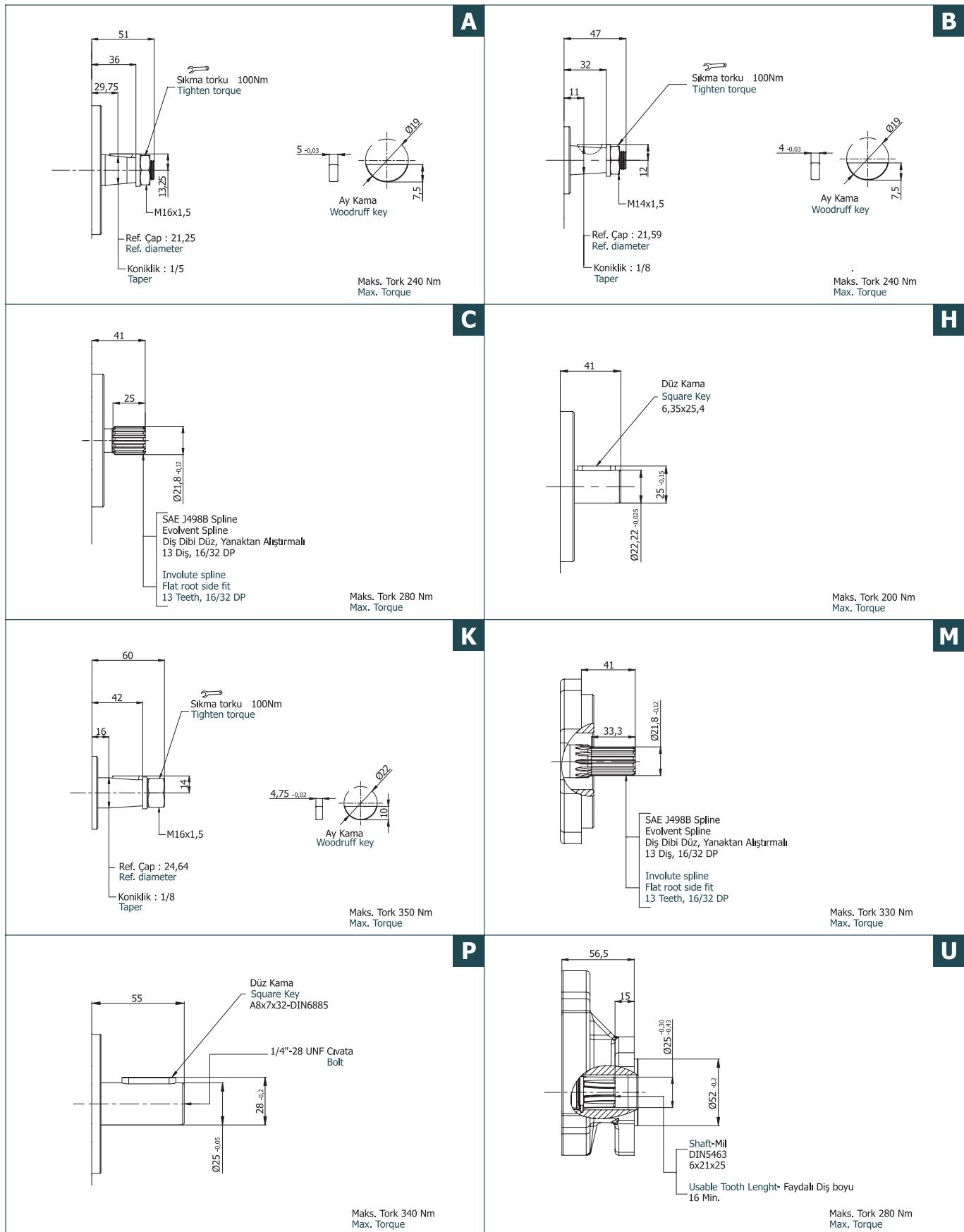
P2 : Aralıklı çalışma basıncı¹
Intermittent pressure

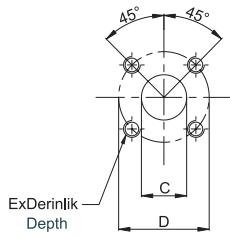
P3 : Ani basınç
Peak pressure

GRUP 30 POMPALARIN DEBİ EĞRİLERİ / FLOW CURVES OF GROUP 30 PUMPS

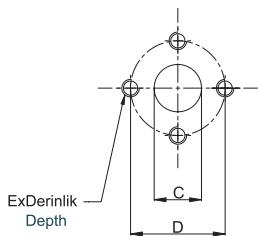




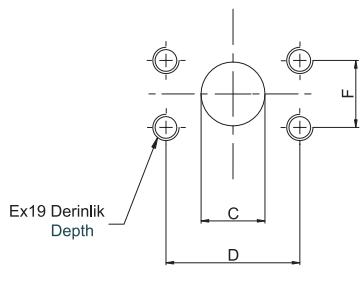



01 Kare Tipi Flanş
Rectangular Flange

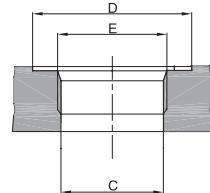
Sipariş Kodu Ordering Code	İletim Hacmi Displacement cm³/dev (rev)	Emiş Tarafı Suction Side			Basınç Tarafı Pressure Side		
		C	D	E	c	d	e
01	17 - 100	27	55	M8x16	19	55	M8x16


02 Baklava Tipi Flanş
Diamond Flange

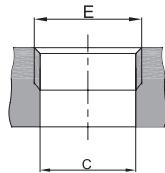
Sipariş Kodu Ordering Code	İletim Hacmi Displacement cm³/dev (rev)	Emiş Tarafı Suction Side			Basınç Tarafı Pressure Side		
		C	D	E	c	d	e
02	17 - 61	27	51	M10x19	19	40	M8x16
	73 - 100	33	62	M12x19	27	51	M10x19


03 SAE Dikdörtgen Flanş Metrik Diş
SAE Square Flange Metric Thread

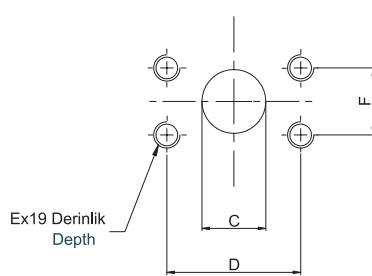
Sipariş Kodu Ordering Code	İletim Hacmi Displacement cm³/dev (rev)	Emiş Tarafı Suction Side				Basınç Tarafı Pressure Side			
		C	D	E	F	c	d	e	f
03	17 - 22	19	47,6	M8	22,2	12,5	38,1	M8	17,5
	27 - 34	25,4	52,4	M10	26,2	19	47,6	M8	22,2
	38 - 51	30,5	58,7		30,2	25,4	52,4	M10	26,2
	56 - 82	39,3	69,8	M12	35,7	30,5	58,7	M10	30,2
	90 - 100	51	77,8		42,9	39,3	69,8	M12	35,7


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

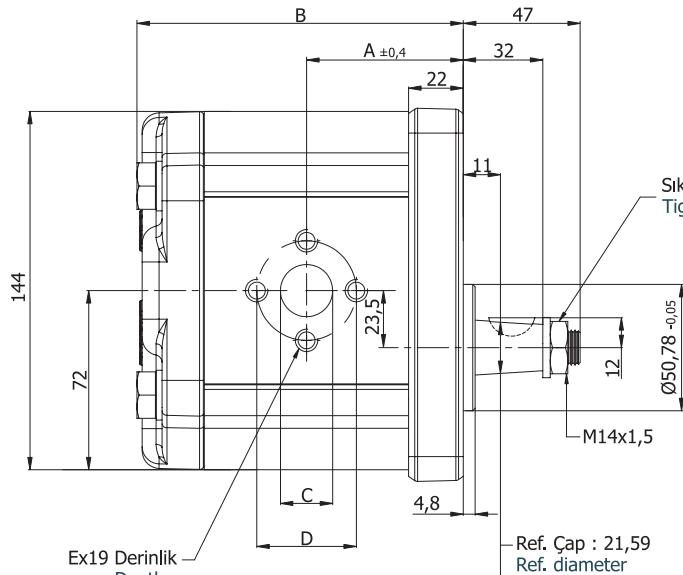
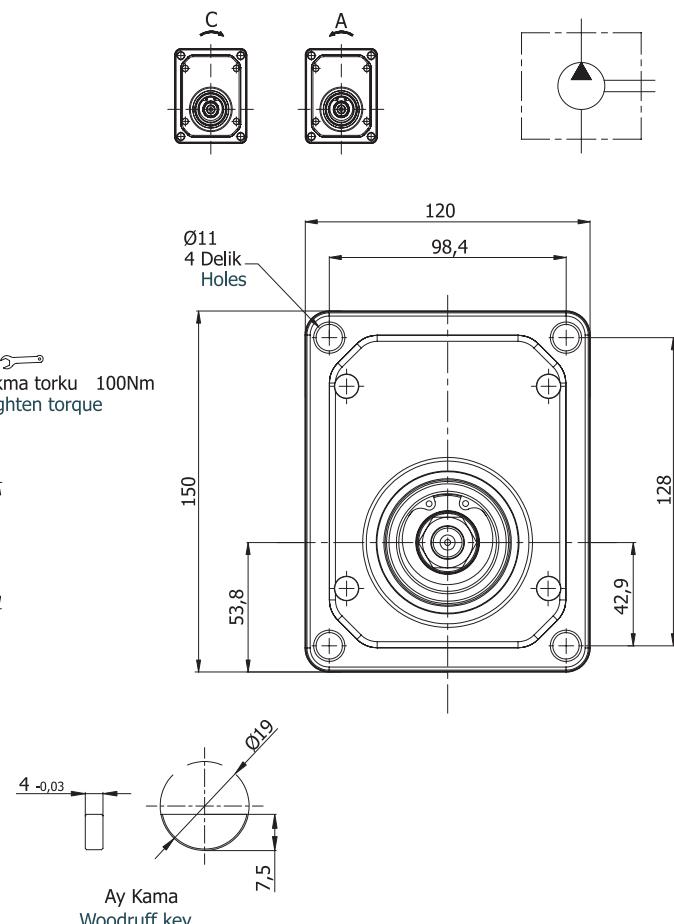
Sipariş Kodu Ordering Code	İletim Hacmi Displacement cm³/dev (rev)	Emiş Tarafı Suction Side			Basınç Tarafı Pressure Side		
		C	D	E	c	d	e
04	17 - 34	30,5	49	1 5/16"-12 UN-2B	24,8	42	1 1/16"-12 UN-2B
	38 - 51	39,1	58	1 5/8"-12 UN-2B	30,5	49	1 5/16"-12 UN-2B
	56 - 100	45	65	1 7/8"-12 UN-2B	39,1	58	1 5/8"-12 UN-2B


05 Boru diş / Pipe Thread
ISO228/1

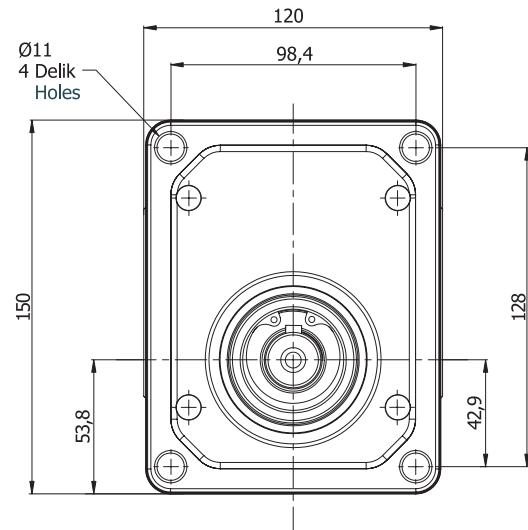
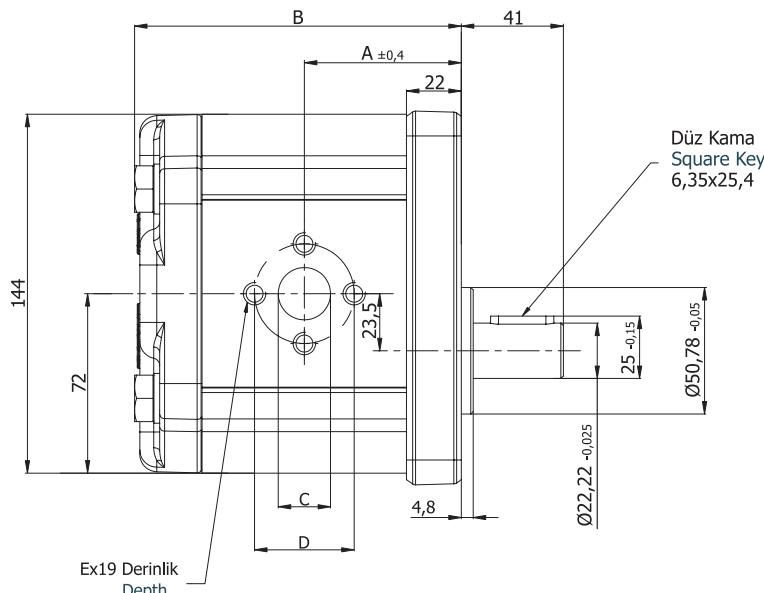
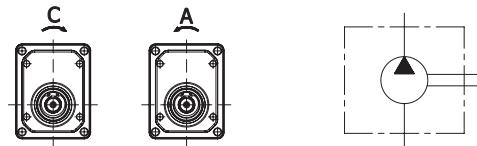
Sipariş Kodu Ordering Code	İletim Hacmi Displacement cm³/dev (rev)	Emiş Tarafı Suction Side		Basınç Tarafı Pressure Side	
		C	E	c	e
05	17 - 51	30,5	G 1	30,5	G 1
	56 - 73	39	G 1 1/4		
	82 - 100	45	G 1 1/2	39	G 1 1/4


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
06	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	47,6	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

A Ön Kapak
Front Cover

B Şaft Tipi
Shaft Type


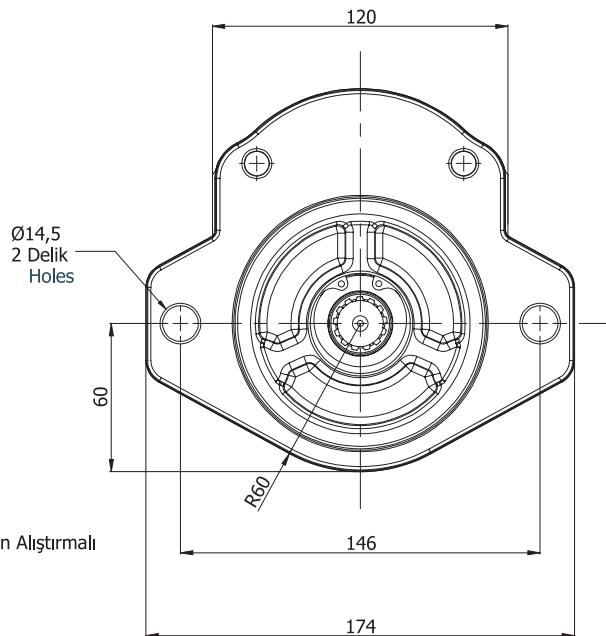
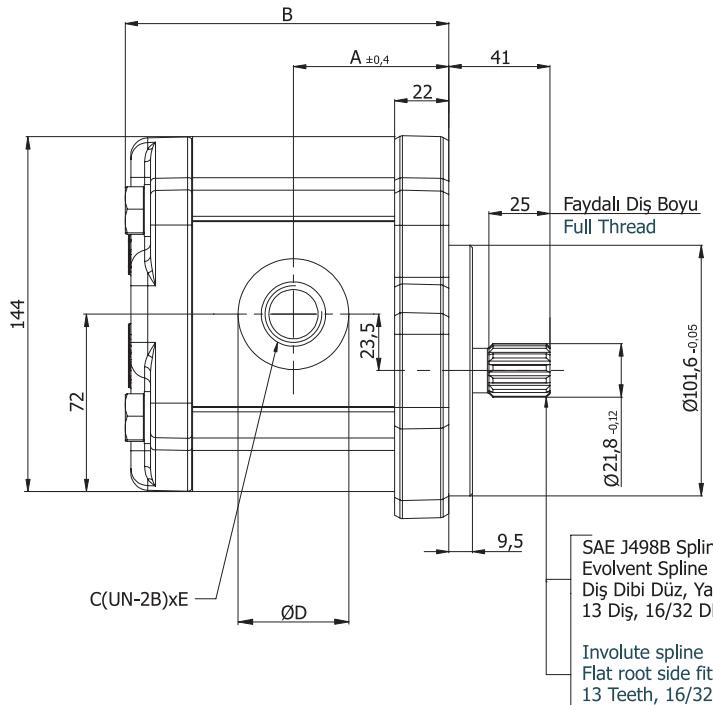
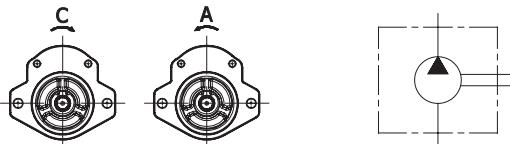
Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş – Inlet			Çıkış - Outlet			
						C	D	E	c	d	e	
AP30.170.A/CAB02SN	17,0	250	3000	59,5	124,1	27	51	M10x19	19	40	M8x16	
AP30.220.A/CAB02SN	22,0			61,5	128,1							
AP30.270.A/CAB02SN	27,0			63,0	131,1							
AP30.320.A/CAB02SN	32,0			64,5	134,1							
AP30.340.A/CAB02SN	34,0		240	65,0	135,1							
AP30.380.A/CAB02SN	38,0			66,5	138,1							
AP30.430.A/CAB02SN	43,0			68,0	141,1							
AP30.470.A/CAB02SN	47,0			69,5	144,1							
AP30.510.A/CAB02SN	51,0	230	2500	70,5	146,1							
AP30.560.A/CAB02SN	56,0			71,5	148,1							
AP30.610.A/CAB02SN	61,0			74,0	153,1							
AP30.730.A/CAB02SN	73,0			77,0	160,1							
AP30.820.A/CAB02SN	82,0	2000		80,0	166,1	33	62	M12x19	27	51	M10x19	
AP30.900.A/CAB02SN	90,0			83,0	172,1							
AP30.1000.A/CAB02SN	100,0			86,0	178,1							

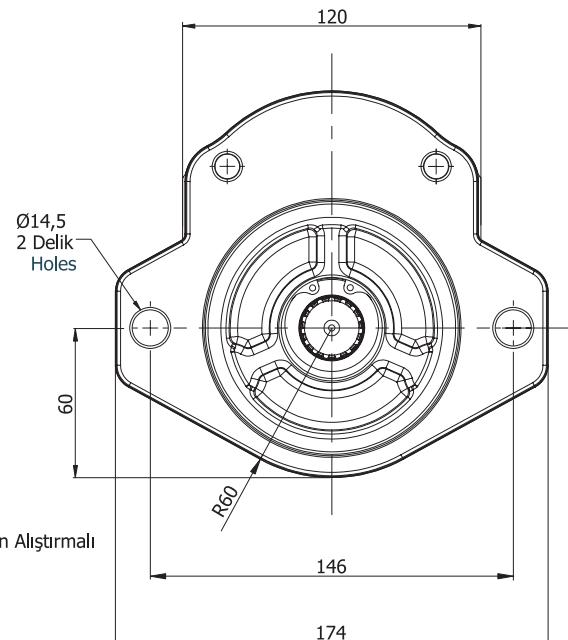
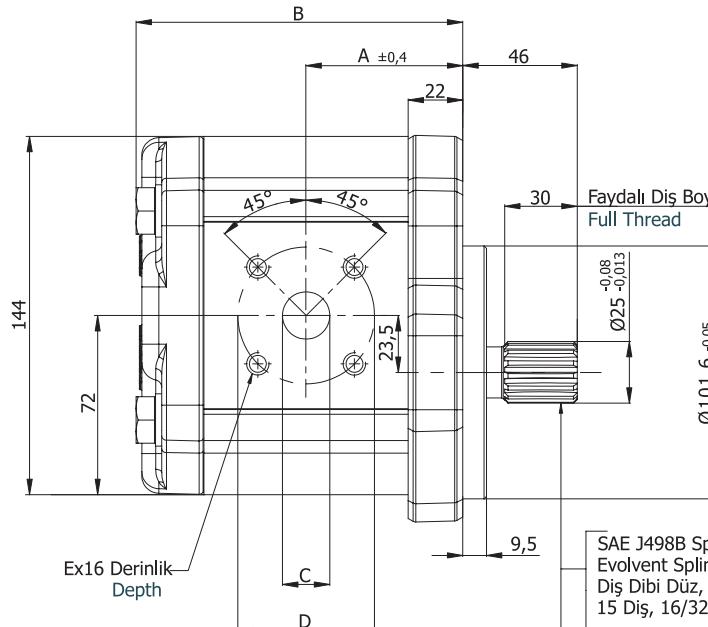
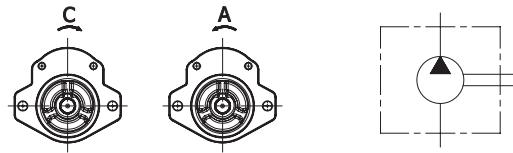
A Ön Kapak
Front Cover**H** Şaft Tipi
Shaft Type

Pompa Tipi Pump 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	D	E	c	d	e
AP30.170.A/CAH02SN	17,0	250	3000	59,5	124,1	27	51	M10x19	19	40	M8x16
AP30.220.A/CAH02SN	22,0			61,5	128,1						
AP30.270.A/CAH02SN	27,0			63,0	131,1						
AP30.320.A/CAH02SN	32,0	240	2500	64,5	134,1	33	62	M12x19	27	51	M10x19
AP30.340.A/CAH02SN	34,0			65,0	135,1						
AP30.380.A/CAH02SN	38,0			66,5	138,1						
AP30.430.A/CAH02SN	43,0	230	2500	68,0	141,1	33	62	M12x19	27	51	M10x19
AP30.470.A/CAH02SN	47,0			69,5	144,1						
AP30.510.A/CAH02SN	51,0			70,5	146,1						
AP30.560.A/CAH02SN	56,0	200	2000	71,5	148,1	33	62	M12x19	27	51	M10x19
AP30.610.A/CAH02SN	61,0	180		74,0	153,1						
AP30.730.A/CAH02SN	73,0	170		77,0	160,1						
AP30.820.A/CAH02SN	82,0	160	2000	80,0	166,1	33	62	M12x19	27	51	M10x19
AP30.900.A/CAH02SN	90,0	150		83,0	172,1						
AP30.1000.A/CAH02SN	100,0	140		86,0	178,1						

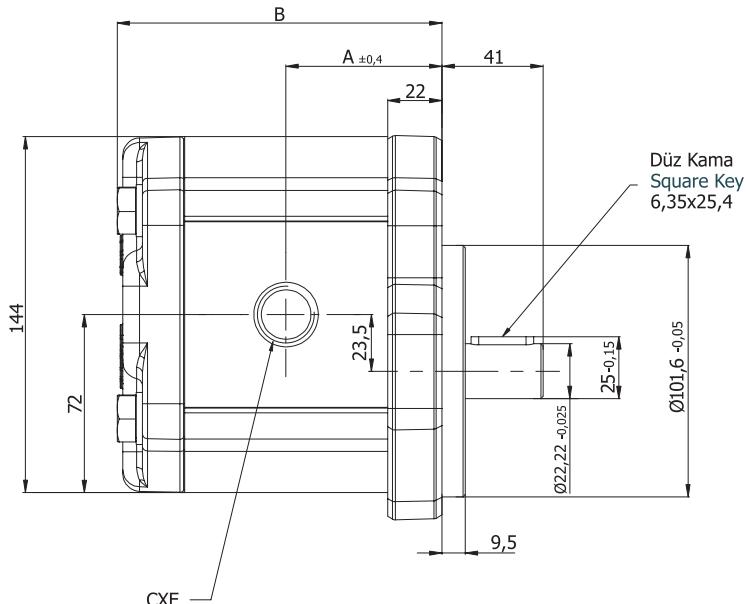
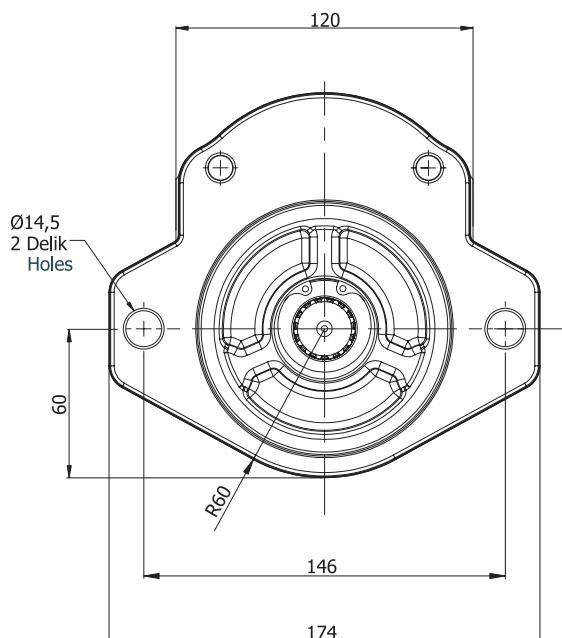
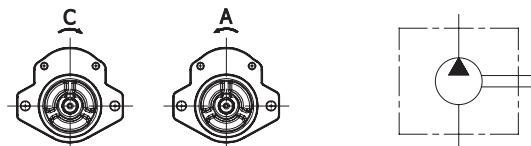
D Ön Kapak
Front Cover

C Şhaft Tipi Shaft Type

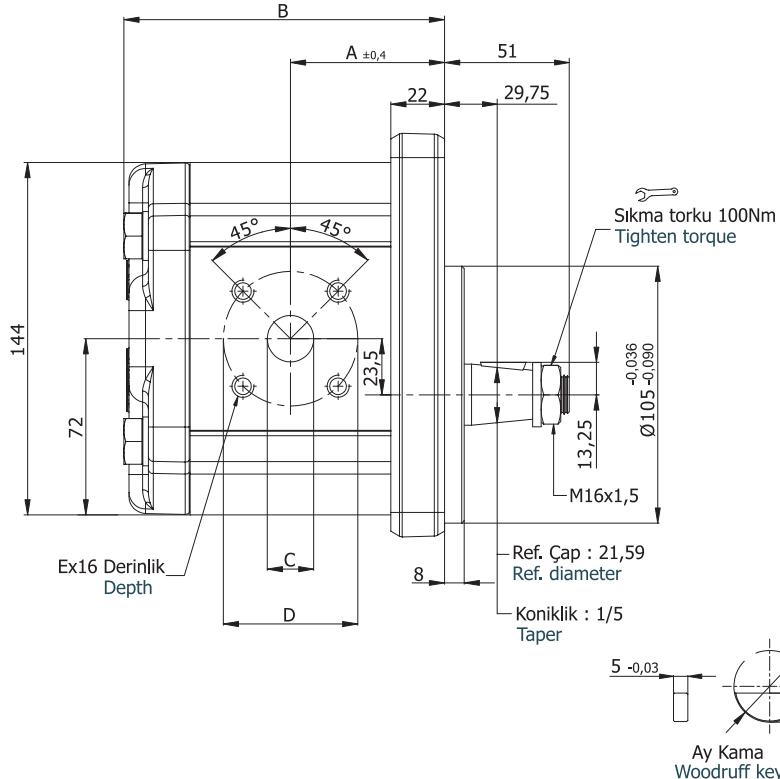
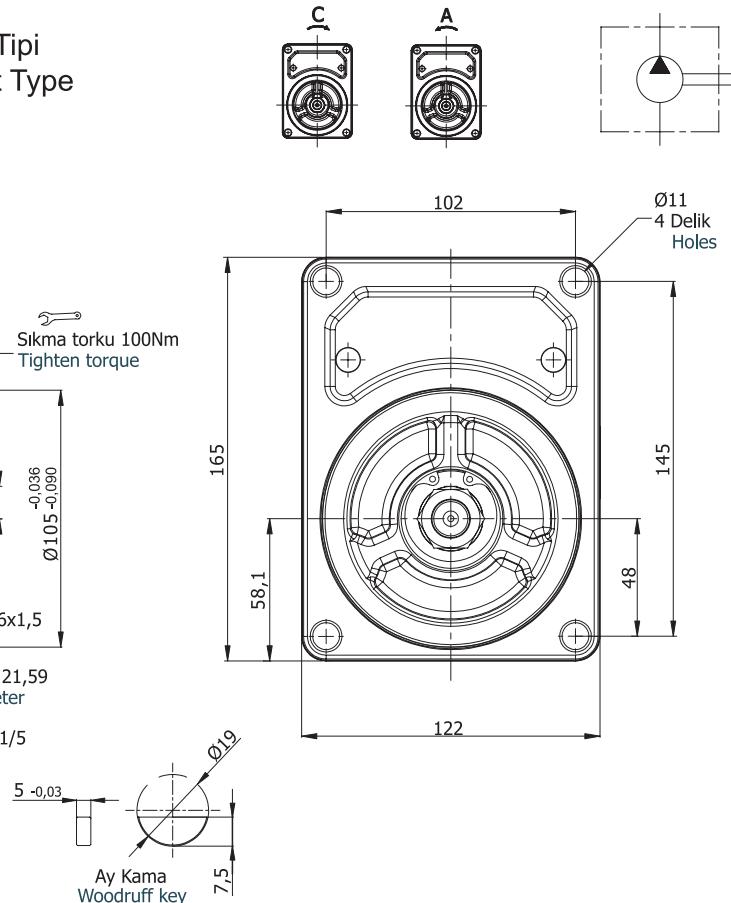


D Ön Kapak
Front Cover**D** Şaft Tipi
Shaft Type

Pompa Tipi Pump 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	D	E	c	d	e
AP30.170.A/CDD01SN	17,0	250	3000	59,5	124,1	27	55	M8x16	19	55	M8x16
AP30.220.A/CDD01SN	22,0			61,5	128,1						
AP30.270.A/CDD01SN	27,0			63,0	131,1						
AP30.320.A/CDD01SN	32,0	240	2500	64,5	134,1	27	55	M8x16	19	55	M8x16
AP30.340.A/CDD01SN	34,0			65,0	135,1						
AP30.380.A/CDD01SN	38,0			66,5	138,1						
AP30.430.A/CDD01SN	43,0	230	2000	68,0	141,1	27	55	M8x16	19	55	M8x16
AP30.470.A/CDD01SN	47,0			69,5	144,1						
AP30.510.A/CDD01SN	51,0			70,5	146,1						
AP30.560.A/CDD01SN	56,0	200	2500	71,5	148,1	27	55	M8x16	19	55	M8x16
AP30.610.A/CDD01SN	61,0	180		74,0	153,1						
AP30.730.A/CDD01SN	73,0	170		77,0	160,1						
AP30.820.A/CDD01SN	82,0	160	2000	80,0	166,1	27	55	M8x16	19	55	M8x16
AP30.900.A/CDD01SN	90,0	150		83,0	172,1						
AP30.1000.A/CDD01SN	100,0	140		86,0	178,1						

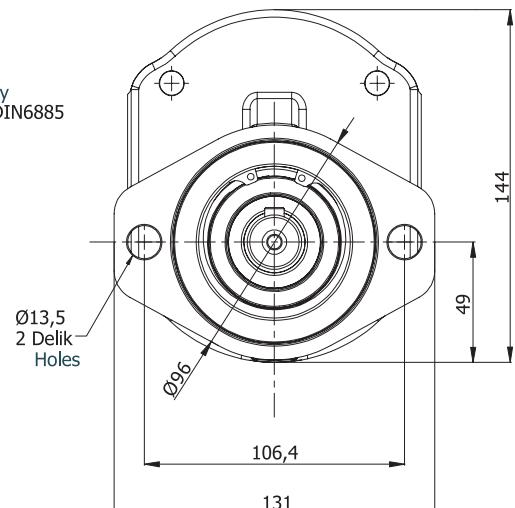
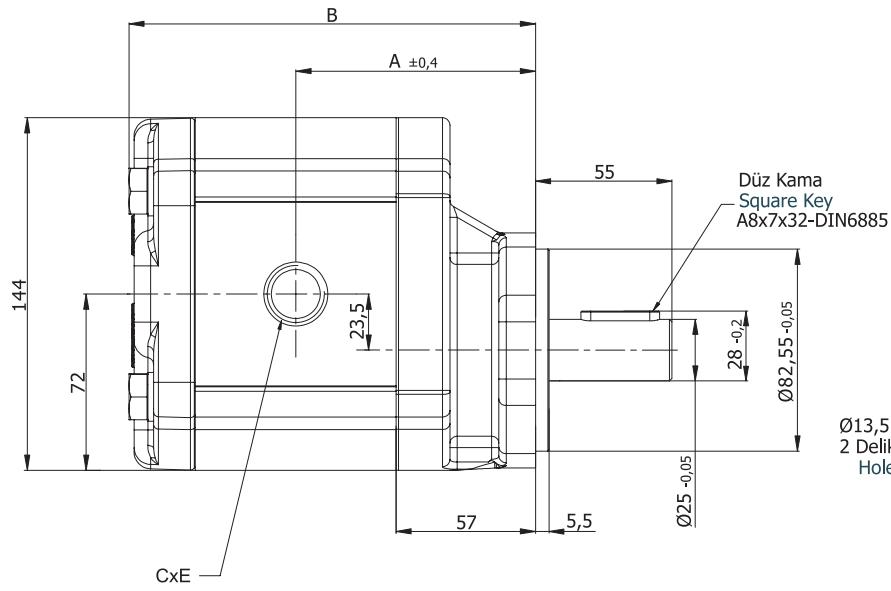
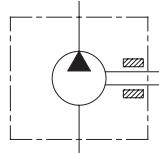
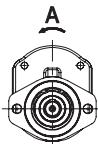
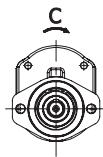
D Ön Kapak
Front Cover

H Şaft Tipi
Shaft Type


Pompa Tipi Pump 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	E	c	e
AP30.170.A/CDH05SN	17,0	250	3000	59,5	124,1	30,5	G1"	30,5	G 1"
AP30.220.A/CDH05SN	22,0			61,5	128,1				
AP30.270.A/CDH05SN	27,0			63,0	131,1				
AP30.320.A/CDH05SN	32,0			64,5	134,1				
AP30.340.A/CDH05SN	34,0			65,0	135,1				
AP30.380.A/CDH05SN	38,0			66,5	138,1				
AP30.430.A/CDH05SN	43,0			68,0	141,1				
AP30.470.A/CDH05SN	47,0			69,5	144,1				
AP30.510.A/CDH05SN	51,0			70,5	146,1				
AP30.560.A/CDH05SN	56,0			71,5	148,1				
AP30.610.A/CDH05SN	61,0	230	2500	74,0	153,1	39	G 1 1/4"	39	G 1 1/4"
AP30.730.A/CDH05SN	73,0			77,0	160,1				
AP30.820.A/CDH05SN	82,0			80,0	166,1	45	G 1 1/2"	39	G 1 1/4"
AP30.900.A/CDH05SN	90,0			83,0	172,1				
AP30.1000.A/CDH05SN	100,0			86,0	178,1				

G Ön Kapak
Front Cover

A Şaft Tipi
Shaft Type


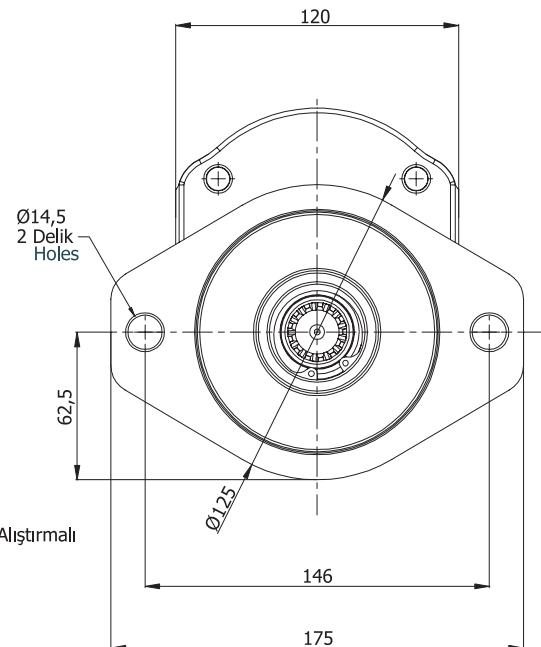
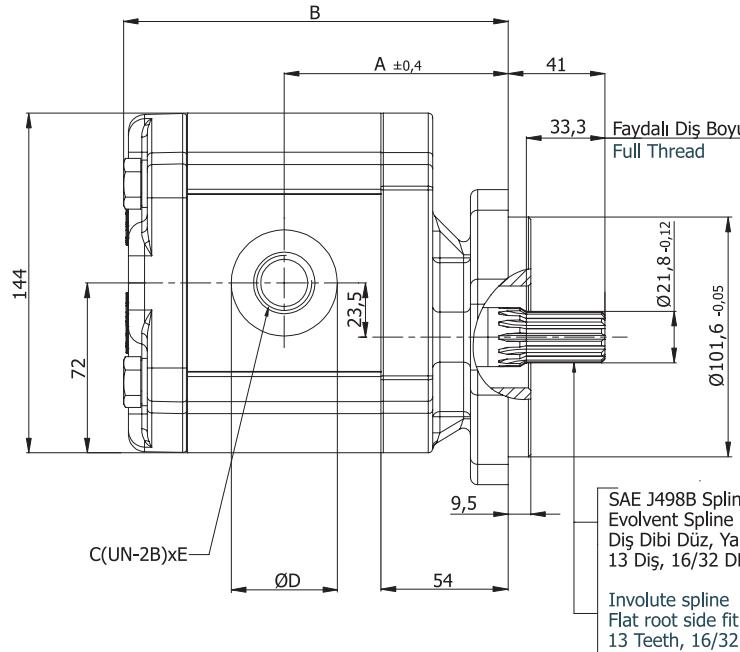
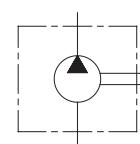
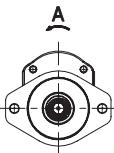
Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş - Inlet			Çıkış - Outlet			
						C	D	E	c	d	e	
AP30.170.A/CGA01SN	17,0	250	3000	59,5	124,1	27	55	M8x16	19	55	M8x16	
AP30.220.A/CGA01SN	22,0			61,5	128,1							
AP30.270.A/CGA01SN	27,0			63,0	131,1							
AP30.320.A/CGA01SN	32,0	240		64,5	134,1							
AP30.340.A/CGA01SN	34,0			65,0	135,1							
AP30.380.A/CGA01SN	38,0			66,5	138,1							
AP30.430.A/CGA01SN	43,0	230		68,0	141,1							
AP30.470.A/CGA01SN	47,0	2500	69,5	144,1								
AP30.510.A/CGA01SN	51,0		70,5	146,1								
AP30.560.A/CGA01SN	56,0		71,5	148,1								
AP30.610.A/CGA01SN	61,0		180		74,0							153,1
AP30.730.A/CGA01SN	73,0				77,0							160,1
AP30.820.A/CGA01SN	82,0	2000	80,0	166,1								
AP30.900.A/CGA01SN	90,0		150		83,0							172,1
AP30.1000.A/CGA01SN	100,0				86,0							178,1

H Ön Kapak
Front Cover

P Şaft Tipi
Shaft Type


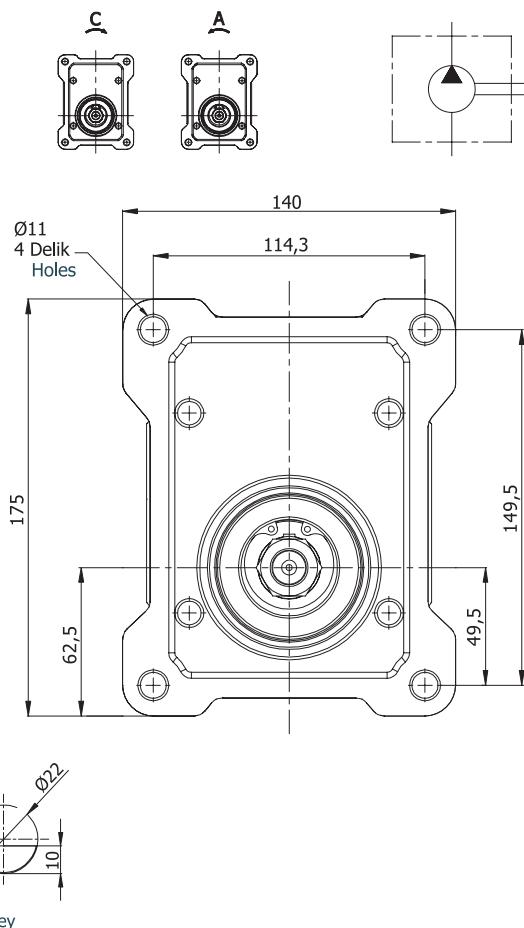
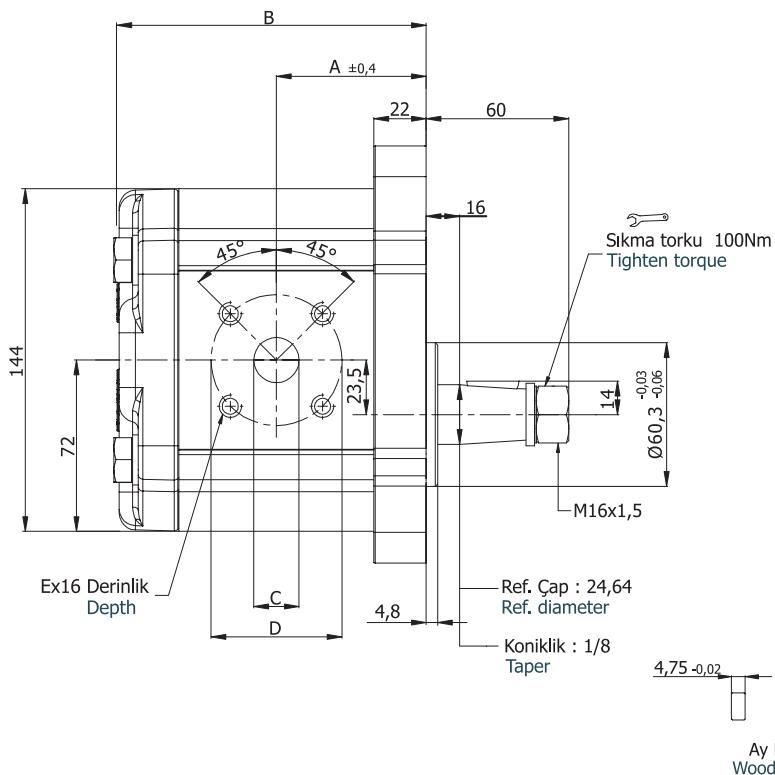
Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş - Inlet		Çıkış - Outlet	
						C	E	c	e
AP30.170.A/CHP05SN	17,0	250	3000	94,5	159,1	30,5	G1"	30,5	G 1"
AP30.220.A/CHP05SN	22,0			96,5	163,1				
AP30.270.A/CHP05SN	27,0			98,0	166,1				
AP30.320.A/CHP05SN	32,0	240	2500	99,5	169,1	39	G 1 1/4"	39	G 1 1/4"
AP30.340.A/CHP05SN	34,0			100,0	170,1				
AP30.380.A/CHP05SN	38,0			101,5	173,1				
AP30.430.A/CHP05SN	43,0	230	2500	103,0	176,1	45	G 1 1/2"	39	G 1 1/2"
AP30.470.A/CHP05SN	47,0			104,5	179,1				
AP30.510.A/CHP05SN	51,0			105,5	181,1				
AP30.560.A/CHP05SN	56,0	200	2000	106,5	183,1	45	G 1 1/2"	39	G 1 1/2"
AP30.610.A/CHP05SN	61,0	180		109,0	188,1				
AP30.730.A/CHP05SN	73,0	170		112,0	195,1				
AP30.820.A/CHP05SN	82,0	160	2000	115,0	201,1	45	G 1 1/2"	39	G 1 1/2"
AP30.900.A/CHP05SN	90,0	150		118,0	207,1				
AP30.1000.A/CHP05SN	100,0	140		121,0	213,1				

K Ön Kapak
Front Cover

M Şaft Tipi
Shaft Type


Pompa Tipi Pump 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	D	E	c	d	e
AP30.170.A/CKM04SN	17,0	250	3000	91,5	156,1	30,5	49	1 5/16"-12 UNF-2B	24,8	42	1 1/16"-12 UNF-2B
AP30.220.A/CKM04SN	22,0			93,5	160,1						
AP30.270.A/CKM04SN	27,0			95,0	163,1						
AP30.320.A/CKM04SN	32,0	240	3000	96,5	166,1	39,1	58	1 5/8"-12 UNF-2B	30,5	49	1 5/16"-12 UNF-2B
AP30.340.A/CKM04SN	34,0			97,0	167,1						
AP30.380.A/CKM04SN	38,0			98,5	170,1						
AP30.430.A/CKM04SN	43,0	230	2500	100,0	173,1	45	65	1 7/8"-12 UNF-2B	39,1	58	1 5/8"-12 UNF-2B
AP30.470.A/CKM04SN	47,0			101,5	176,1						
AP30.510.A/CKM04SN	51,0			102,5	178,1						
AP30.560.A/CKM04SN	56,0	1500	2500	103,5	180,1	45	65	1 7/8"-12 UNF-2B	39,1	58	1 5/8"-12 UNF-2B
AP30.610.A/CKM04SN	61,0			106,0	185,1						
AP30.730.A/CKM04SN	73,0			109,0	192,1						
AP30.820.A/CKM04SN	82,0	150	1500	112,0	198,1	45	65	1 7/8"-12 UNF-2B	39,1	58	1 5/8"-12 UNF-2B
AP30.900.A/CKM04SN	90,0			115,0	204,1						
AP30.1000.A/CKM04SN	100,0			118,0	210,1						

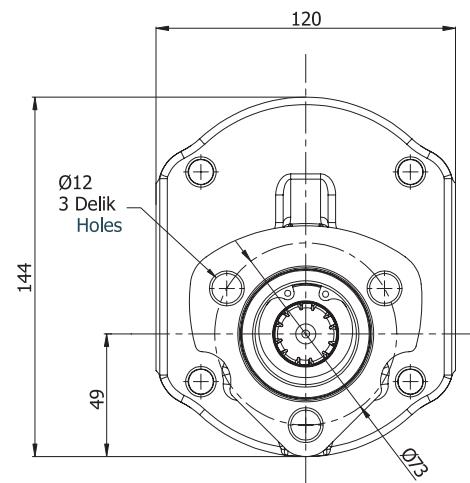
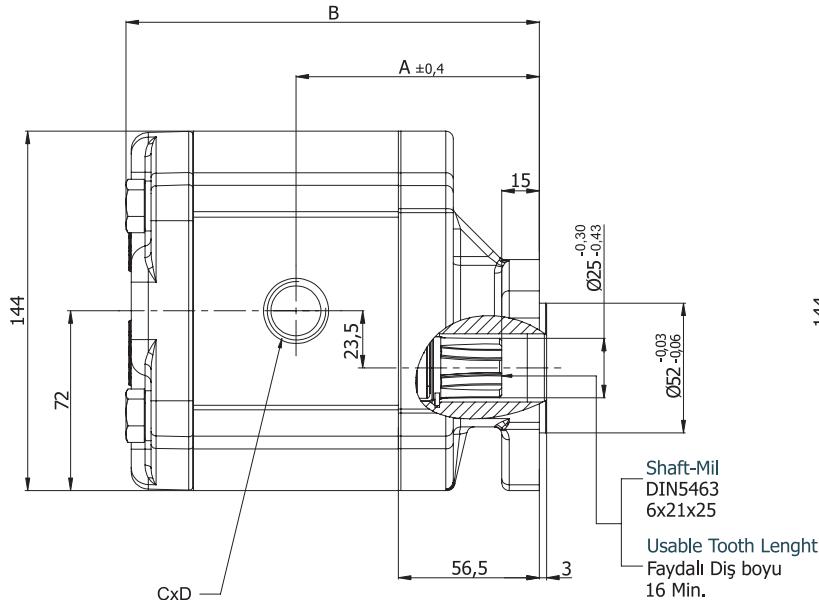
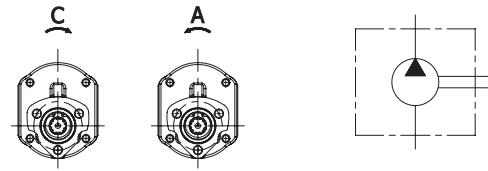
L Ön Kapak
Front Cover

K Şaft Tipi
Shaft Type


Pompa Tipi Pump 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	D	E	c	d	e
AP30.170.A/CLK01SN	17,0	250	3000	59,5	124,1	27	55	M8x16	19	55	M8x16
AP30.220.A/CLK01SN	22,0			61,5	128,1						
AP30.270.A/CLK01SN	27,0			63,0	131,1						
AP30.320.A/CLK01SN	32,0			64,5	134,1						
AP30.340.A/CLK01SN	34,0		240	65,0	135,1						
AP30.380.A/CLK01SN	38,0			66,5	138,1						
AP30.430.A/CLK01SN	43,0			68,0	141,1						
AP30.470.A/CLK01SN	47,0			69,5	144,1						
AP30.510.A/CLK01SN	51,0	210	2500	70,5	146,1						
AP30.560.A/CLK01SN	56,0	200		71,5	148,1						
AP30.610.A/CLK01SN	61,0	180		74,0	153,1						
AP30.730.A/CLK01SN	73,0	170		77,0	160,1						
AP30.820.A/CLK01SN	82,0	160	2000	80,0	166,1						
AP30.900.A/CLK01SN	90,0	150		83,0	172,1						
AP30.1000.A/CLK01SN	100,0	140		86,0	178,1						

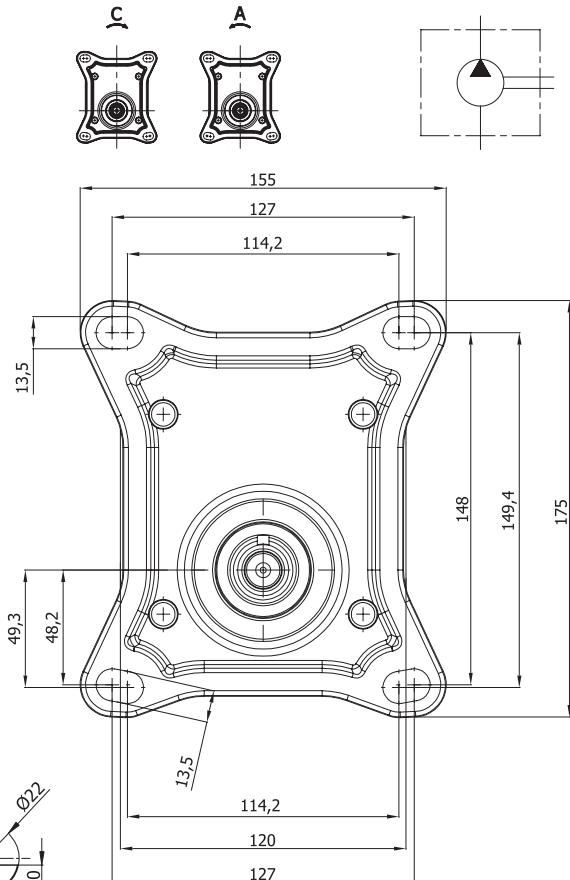
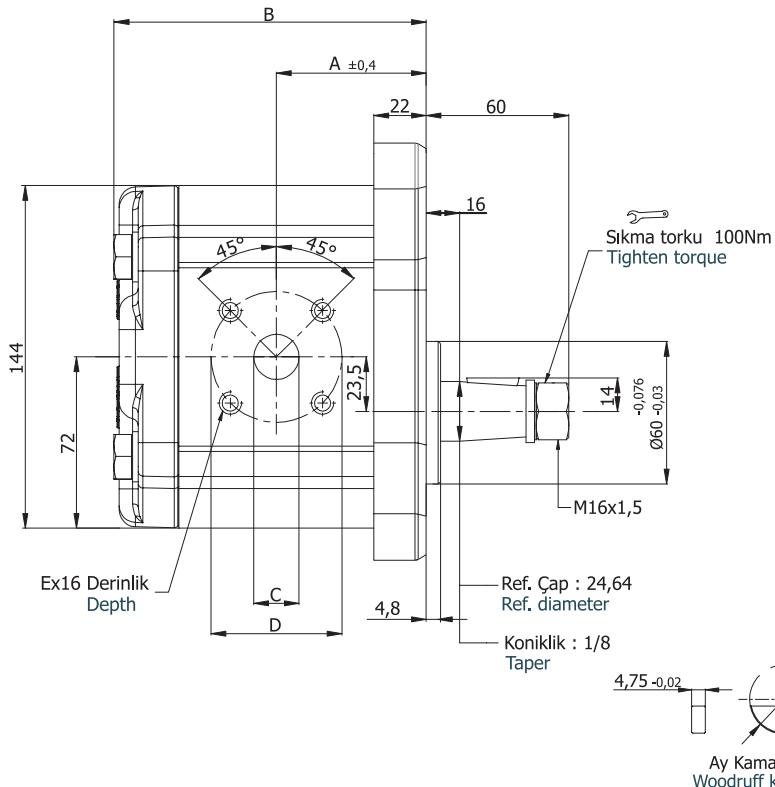
S Ön Kapak
Front Cover

U Şaft Tipi
Shaft Type

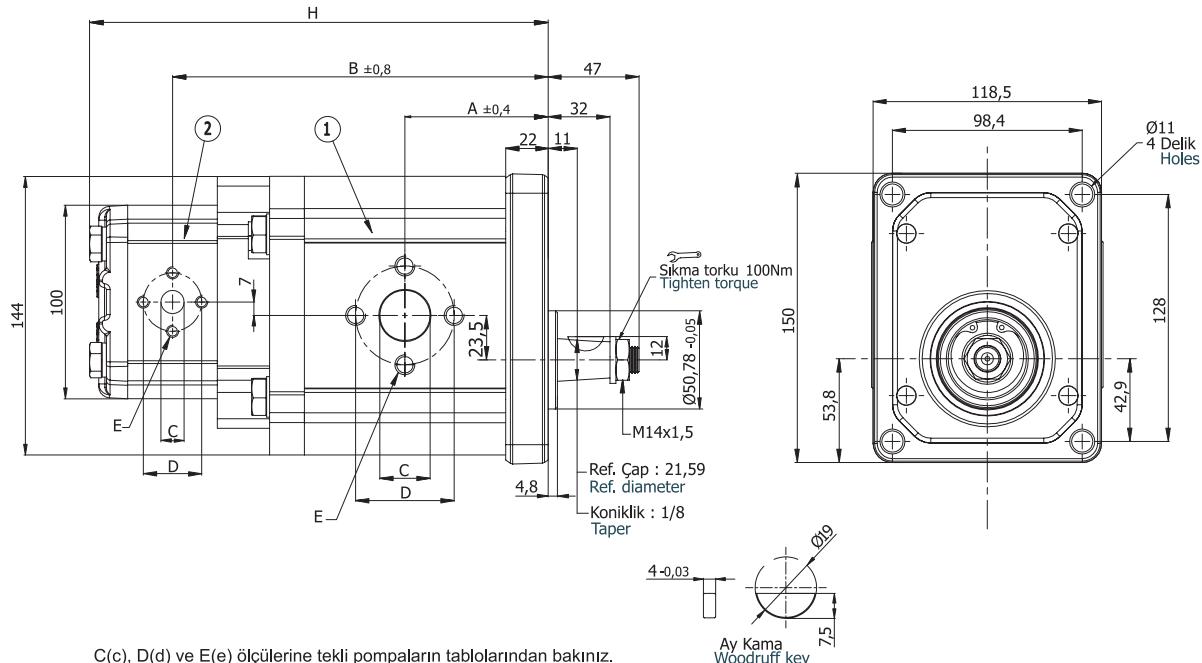
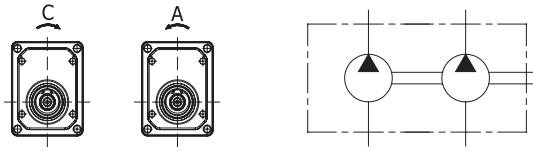


Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ± 0,4	B	Giriş - Inlet		Çıkış - Outlet	
						C	E	c	e
AP30.170.A/CSU05SN	17,0	250	3000	94,0	158,6	30,5	G1"	30,5	G 1"
AP30.220.A/CSU05SN	22,0			96,0	162,6				
AP30.270.A/CSU05SN	27,0			97,5	165,6				
AP30.320.A/CSU05SN	32,0			99,0	168,6				
AP30.340.A/CSU05SN	34,0			99,5	169,6				
AP30.380.A/CSU05SN	38,0			101,0	172,6				
AP30.430.A/CSU05SN	43,0			102,5	175,6				
AP30.470.A/CSU05SN	47,0			104,0	178,6				
AP30.510.A/CSU05SN	51,0			105,0	180,6				
AP30.560.A/CSU05SN	56,0			106,0	182,6				
AP30.610.A/CSU05SN	61,0	210	2500	108,5	187,6	39	G 1 1/4"	39	G 1 1/4"
AP30.730.A/CSU05SN	73,0			111,5	194,6				
AP30.820.A/CSU05SN	82,0			114,5	200,6	45	G 1 1/2"	39	G 1 1/4"
AP30.900.A/CSU05SN	90,0			117,5	206,6				
AP30.1000.A/CSU05SN	100,0			120,5	212,6				

M Ön Kapak
Front Cover

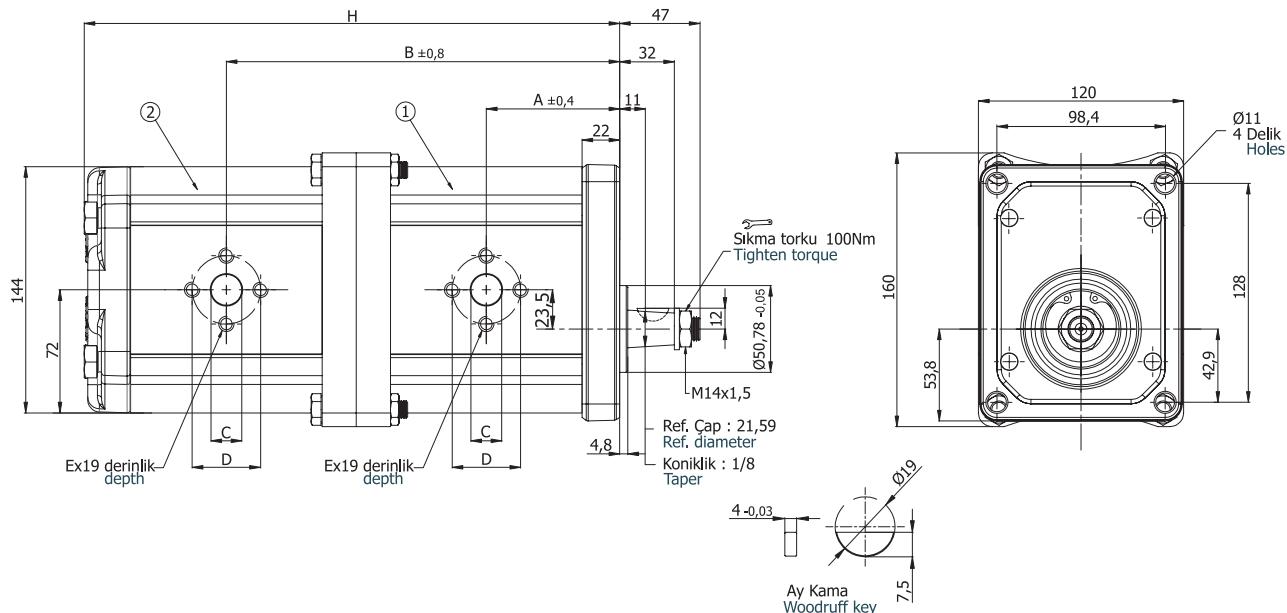
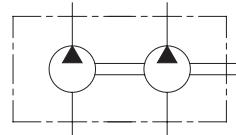
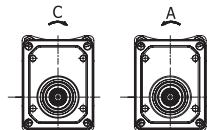
K Şaft Tipi
Shaft Type


Pompa Tipi Pump 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	D	E	c	d	e	
AP30.170.A/CMK01SN	17,0	250	3000	59,5	124,1							
AP30.220.A/CMK01SN	22,0			61,5	128,1							
AP30.270.A/CMK01SN	27,0			63,0	131,1							
AP30.320.A/CMK01SN	32,0	240		64,5	134,1							
AP30.340.A/CMK01SN	34,0			65,0	135,1							
AP30.380.A/CMK01SN	38,0			66,5	138,1							
AP30.430.A/CMK01SN	43,0			68,0	141,1							
AP30.470.A/CMK01SN	47,0	230		69,5	144,1	27	55	M8x16	19	55	M8x16	
AP30.510.A/CMK01SN	51,0			70,5	146,1							
AP30.560.A/CMK01SN	56,0			71,5	148,1							
AP30.610.A/CMK01SN	61,0			74,0	153,1							
AP30.730.A/CMK01SN	73,0			77,0	160,1							
AP30.820.A/CLK01SN	82,0	200	2500	80,0	166,1							
AP30.900.A/CMK01SN	90,0			83,0	172,1							
AP30.1000.A/CMK01SN	100,0			86,0	178,1							

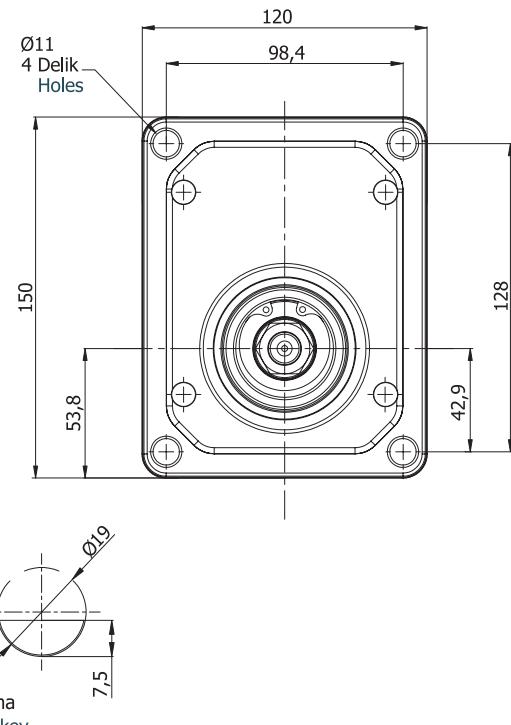
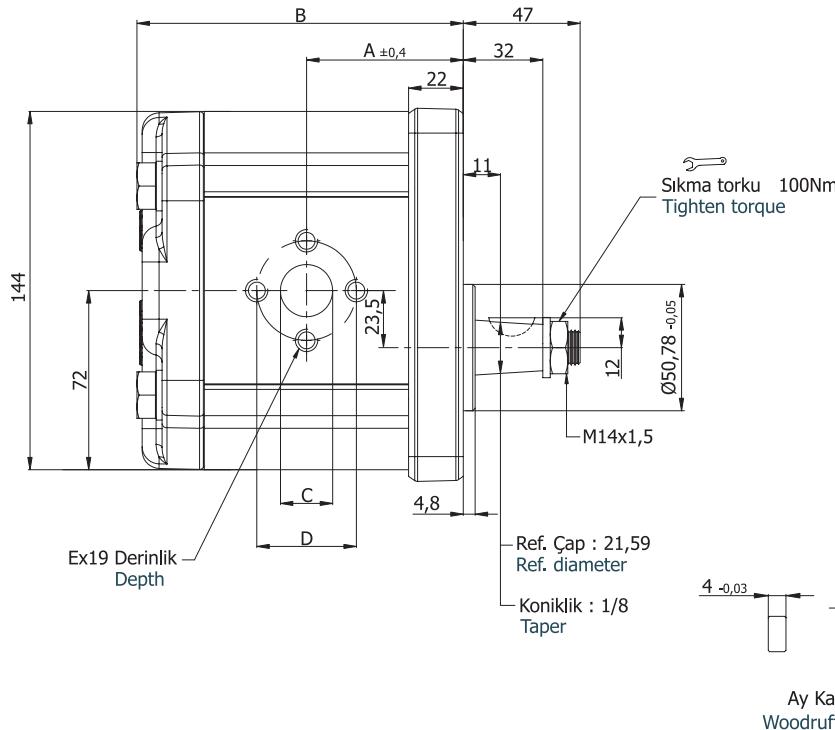
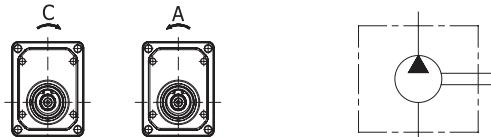
A Ön Kapak
Front Cover**B** Şaft Tipi
Shaft Type

Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)		Maks. Basınç Max. Pressure (bar)		Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B ±0,8	H	
	1	2	1	2					
AP30.170/AP20.040.A/CAB02SN	17,0	3,9	250	230	3000	59,5	166,3	209,5	
AP30.220/AP20.060.A/CAB02SN	22,0	5,9				61,5	171,8	216,6	
AP30.270/AP20.080.A/CAB02SN	27,0	8,0	240	210		63,0	176,4	222,7	
AP30.320/AP20.095.A/CAB02SN	32,0	9,4				64,5	180,6	228,0	
AP30.340/AP20.115.A/CAB02SN	34,0	11,4	230	210		65,0	183,1	232,2	
AP30.380/AP20.140.A/CAB02SN	38,0	13,9				66,5	188,1	239,1	
AP30.430/AP20.160.A/CAB02SN	43,0	16,0	230	210		68,0	192,6	245,3	
AP30.470/AP20.190.A/CAB02SN	47,0	19,2				69,5	204,1	265,3	
AP30.510/AP20.220.A/CAB02SN	51,0	21,9	210	200	2500	70,5	208,4	271,6	
AP30.560/AP20.250.A/CAB02SN	56,0	24,8	200	190		71,5	212,9	278,7	
AP30.610/AP20.280.A/CAB02SN	61,0	27,9	180	180	1750	74,0	220,1	288,0	
AP30.730/AP20.320.A/CAB02SN	73,0	32,0	170	170		77,0	230,1	301,2	
AP30.820/AP20.340.A/CAB02SN	82,0	34,0	160	160		80,0	237,6	310,7	
AP30.900/AP20.380.A/CAB02SN	90,0	38,0	150	150		83,0	246,9	322,7	
AP30.1000/AP20.400.A/CAB02SN	100,0	40,0	140	140		86,0	254,6	332,2	

A Ön Kapak
Front Cover

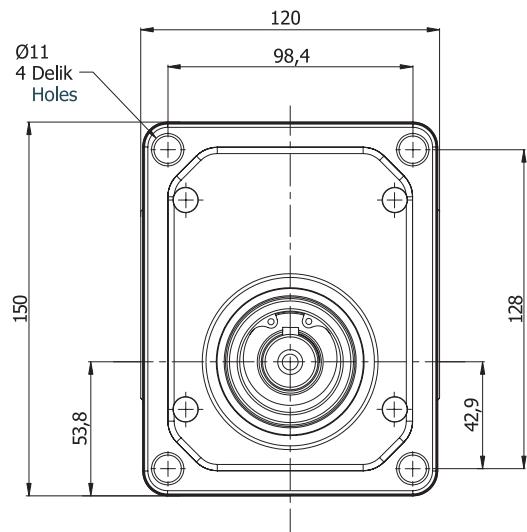
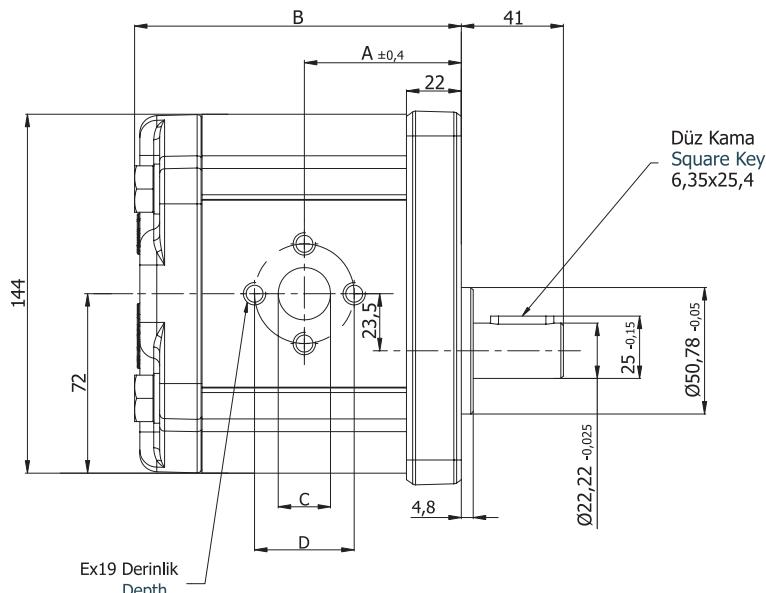
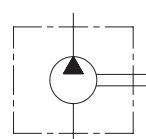
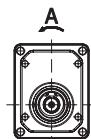
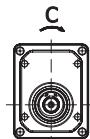
B Şaft Tipi
Shaft Type


Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)		Maks. Basınç Max. Pressure (bar)		Maks. Hız Max. Speed d/d (rpm)	A ± 0,4	B ± 0,8	H	Giriş – Inlet			Çıkış - Outlet		
	1	2	1	2					C	D	E	c	d	e
AP30.170/170.A/CAB02SN	17,0	17,0			3000	59,5	174,6	239,2						
AP30.220/220.A/CAB02SN	22,0	22,0	250	250		61,5	180,6	247,2						
AP30.270/270.A/CAB02SN	27,0	27,0				63,0	185,1	253,2						
AP30.320/320.A/CAB02SN	32,0	32,0				64,5	189,6	259,2						
AP30.340/340.A/CAB02SN	34,0	34,0	240	240		65,0	191,1	261,2	27	51	M10 x19	19	40	M8 x16
AP30.380/380.A/CAB02SN	38,0	38,0				66,5	195,6	267,2						
AP30.430/430.A/CAB02SN	43,0	43,0	230	230		68,0	200,1	273,2						
AP30.470/470.A/CAB02SN	47,0	47,0			2500	69,5	204,6	279,2						
AP30.510/510.A/CAB02SN	51,0	51,0	210	200		70,5	207,6	283,2						
AP30.560/560.A/CAB02SN	56,0	56,0	200	190		71,5	210,6	287,2						
AP30.610/610.A/CAB02SN	61,0	61,0	180	180		74,0	218,1	297,2						
AP30.730/730.A/CAB02SN	73,0	73,0	170	170		77,0	228,1	311,2						
AP30.820/820.A/CAB02SN	82,0	82,0	160	160	2000	80,0	237,1	323,2	33	62	M12 x19	27	51	M10 x19
AP30.900/900.A/CAB02SN	90,0	90,0	150	150		83,0	246,1	335,2						
AP30.100/100.A/CAB02SN	100,0	100,0	140	140		86,0	255,1	347,2						

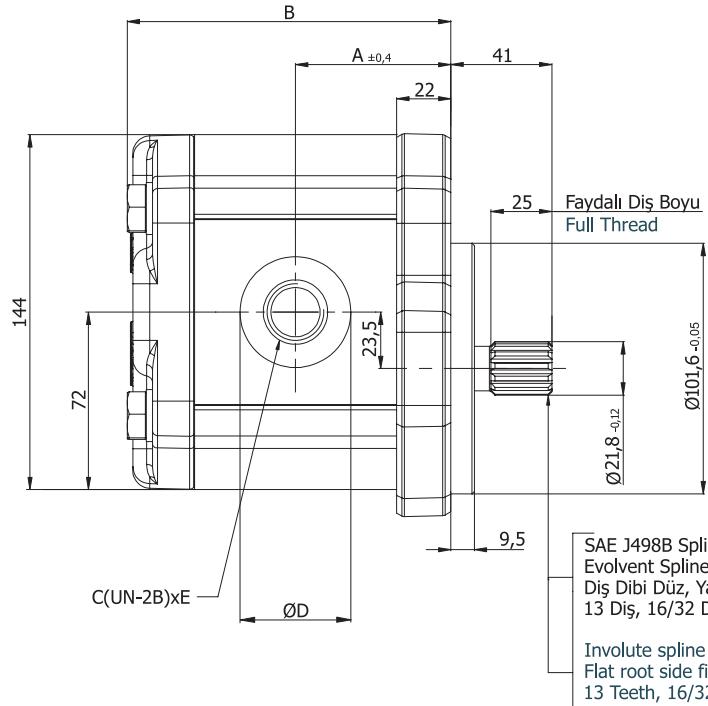
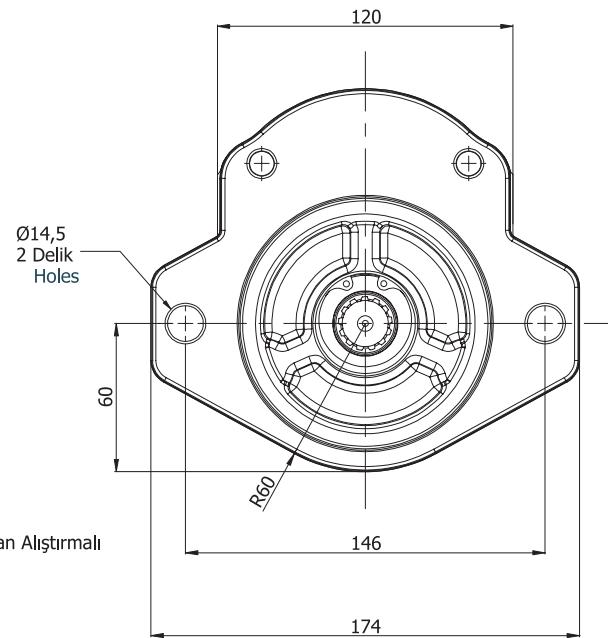
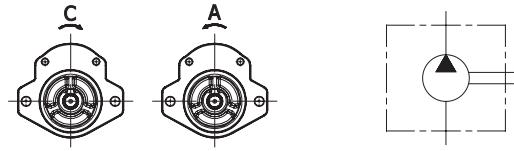
A Ön Kapak
Front Cover**B** Şaft Tipi
Shaft Type

Pompa Tipi Pump 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	D	E	c	d	e
APH30.170.A/CAB02SN	17,0	250	3000	59,5	124,1	27	51	M10x19	19	40	M8x16
APH30.220.A/CAB02SN	22,0			61,5	128,1						
APH30.270.A/CAB02SN	27,0			63,0	131,1						
APH30.320.A/CAB02SN	32,0	240	2500	64,5	134,1	33	62	M12x19	27	51	M10x19
APH30.340.A/CAB02SN	34,0			65,0	135,1						
APH30.380.A/CAB02SN	38,0			66,5	138,1						
APH30.430.A/CAB02SN	43,0	230	1750	68,0	141,1	1500	74,0	153,1	86,0	178,1	83,0
APH30.470.A/CAB02SN	47,0			69,5	144,1						
APH30.510.A/CAB02SN	51,0			70,5	146,1						
APH30.560.A/CAB02SN	56,0	200	1500	71,5	148,1	1500	77,0	160,1	80,0	166,1	83,0
APH30.610.A/CAB02SN	61,0	180		74,0	153,1						
APH30.730.A/CAB02SN	73,0	170		77,0	160,1						
APH30.820.A/CAB02SN	82,0	160	1500	80,0	166,1	1500	83,0	172,1	86,0	178,1	83,0
APH30.900.A/CAB02SN	90,0	150		83,0	172,1						
APH30.1000.A/CAB02SN	100,0	140		86,0	178,1						

A Ön Kapak
 Front Cover

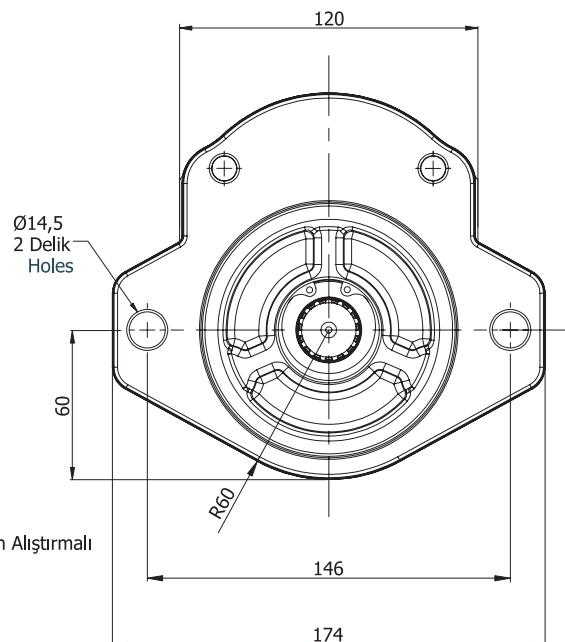
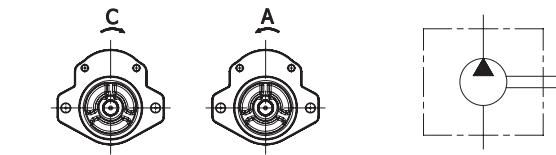
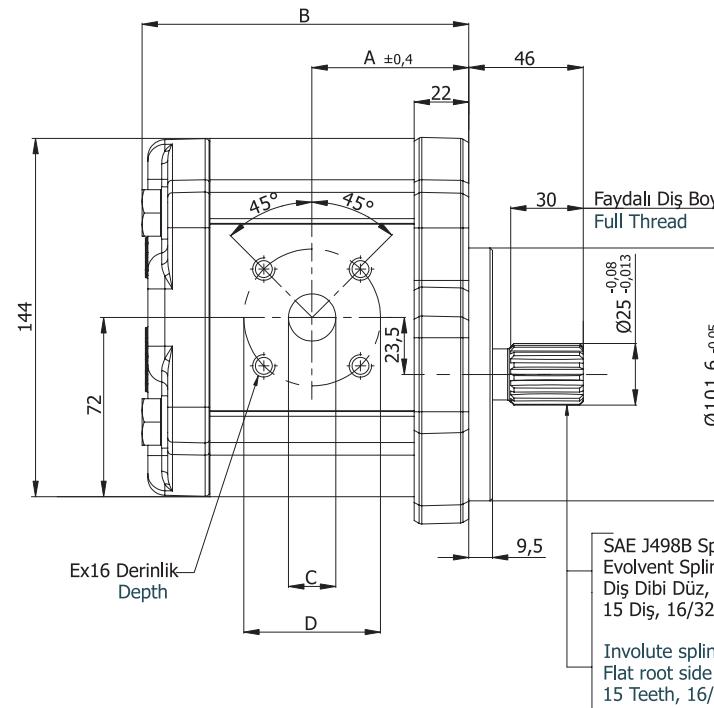
H Şaft Tipi
 Shaft Type


Pompa Tipi Pump 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	D	E	c	d	e
APH30.170.A/CAH02SN	17,0	250	3000	59,5	124,1	27	51	M10x19	19	40	M8x16
APH30.220.A/CAH02SN	22,0			61,5	128,1						
APH30.270.A/CAH02SN	27,0			63,0	131,1						
APH30.320.A/CAH02SN	32,0	240	2500	64,5	134,1						
APH30.340.A/CAH02SN	34,0			65,0	135,1						
APH30.380.A/CAH02SN	38,0			66,5	138,1						
APH30.430.A/CAH02SN	43,0	230	1750	68,0	141,1						
APH30.470.A/CAH02SN	47,0			69,5	144,1						
APH30.510.A/CAH02SN	51,0			70,5	146,1						
APH30.560.A/CAH02SN	56,0	200	1500	71,5	148,1	33	62	M12x19	27	51	M10x19
APH30.610.A/CAH02SN	61,0	180		74,0	153,1						
APH30.730.A/CAH02SN	73,0	170		77,0	160,1						
APH30.820.A/CAH02SN	82,0	160		80,0	166,1						
APH30.900.A/CAH02SN	90,0	150		83,0	172,1						
APH30.1000.A/CAH02SN	100,0	140		86,0	178,1						

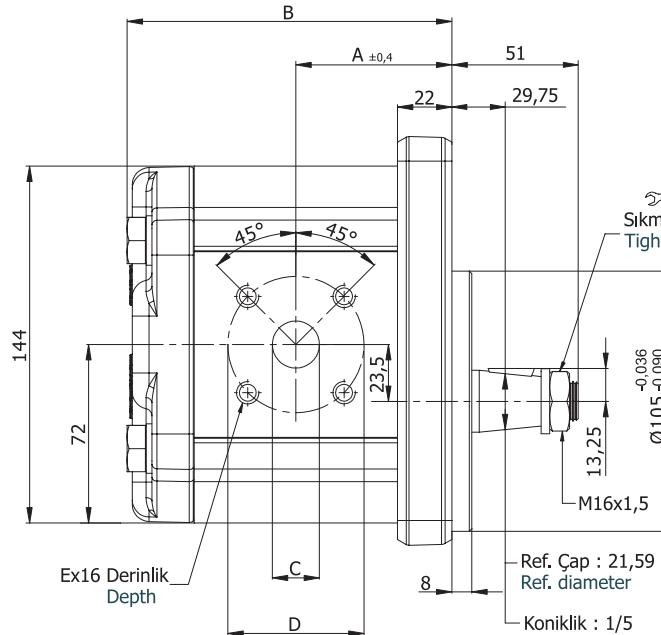
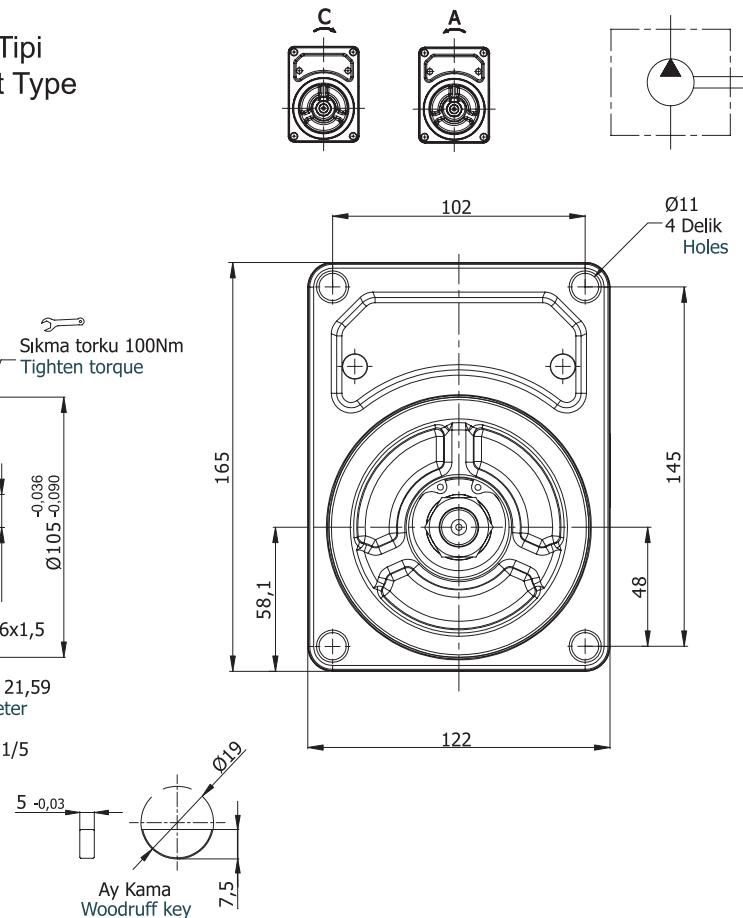
D Ön Kapak
Front Cover**C** Şaft Tipi
Shaft Type

Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A $\pm 0,4$	B	Giriş – Inlet			Çıkış - Outlet		
						C	D	E	c	d	e
APH30.170.A/CDC04SN	17,0	250	3000	59,5	124,1	30,5	49	1 5/16"-12 UNF-2B	24,8	42	1 1/16"-12 UNF-2B
APH30.220.A/CDC04SN	22,0			61,5	128,1						
APH30.270.A/CDC04SN	27,0			63,0	131,1						
APH30.320.A/CDC04SN	32,0			64,5	134,1						
APH30.340.A/CDC04SN	34,0			65,0	135,1						
APH30.380.A/CDC04SN	38,0			66,5	138,1						
APH30.430.A/CDC04SN	43,0	230	2500	68,0	141,1	39,1	58	1 5/8"-12 UNF-2B	30,5	49	1 5/16"-12 UNF-2B
APH30.470.A/CDC04SN	47,0			69,5	144,1						
APH30.510.A/CDC04SN	51,0			70,5	146,1						
APH30.560.A/CDC04SN	56,0	1500	1750	71,5	148,1	45	65	1 7/8"-12 UNF-2B	39,1	58	1 5/8"-12 UNF-2B
APH30.610.A/CDC04SN	61,0			74,0	153,1						
APH30.730.A/CDC04SN	73,0			77,0	160,1						
APH30.820.A/CDC04SN	82,0			80,0	166,1						
APH30.900.A/CDC04SN	90,0			83,0	172,1						
APH30.1000.A/CDC04SN	100,0			86,0	178,1						

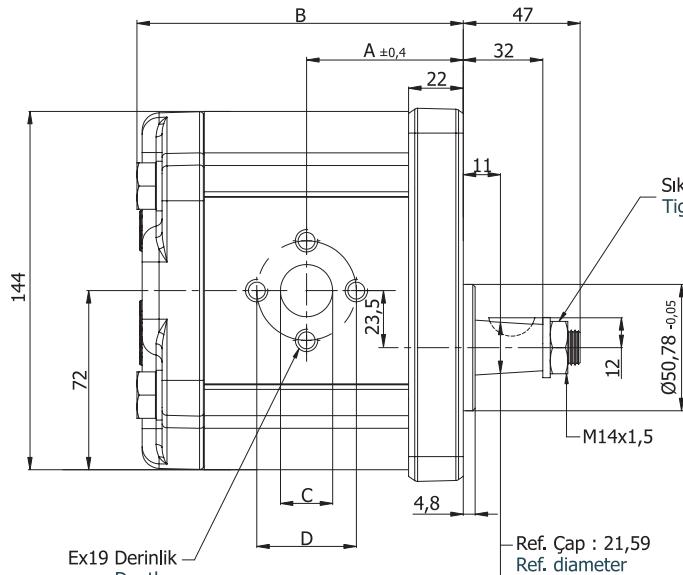
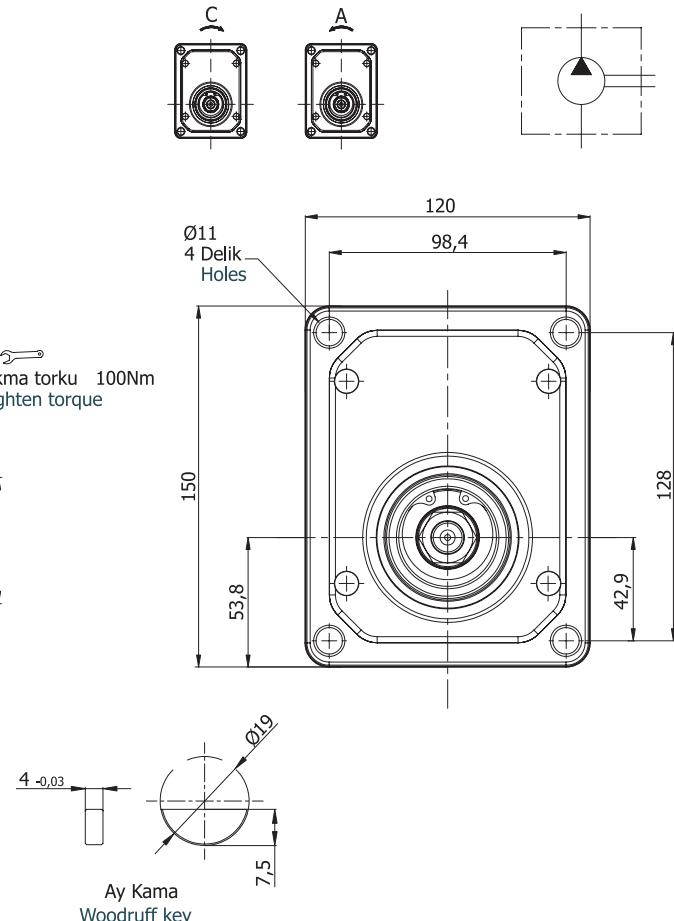
D Ön Kapak
 Front Cover

D Şaft Tipi
 Shaft Type


Pompa Tipi Pump 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	D	E	c	d	e
APH30.170.A/CDD01SN	17,0	250	3000	59,5	124,1	27	55	M8x16	19	55	M8x16
APH30.220.A/CDD01SN	22,0			61,5	128,1						
APH30.270.A/CDD01SN	27,0			63,0	131,1						
APH30.320.A/CDD01SN	32,0			64,5	134,1						
APH30.340.A/CDD01SN	34,0			65,0	135,1						
APH30.380.A/CDD01SN	38,0			66,5	138,1						
APH30.430.A/CDD01SN	43,0			68,0	141,1						
APH30.470.A/CDD01SN	47,0			69,5	144,1						
APH30.510.A/CDD01SN	51,0		2500	70,5	146,1						
APH30.560.A/CDD01SN	56,0			71,5	148,1						
APH30.610.A/CDD01SN	61,0			74,0	153,1						
APH30.730.A/CDD01SN	73,0	1500	1500	77,0	160,1						
APH30.820.A/CDD01SN	82,0			80,0	166,1						
APH30.900.A/CDD01SN	90,0			83,0	172,1						
APH30.1000.A/CDD01SN	100,0			86,0	178,1						

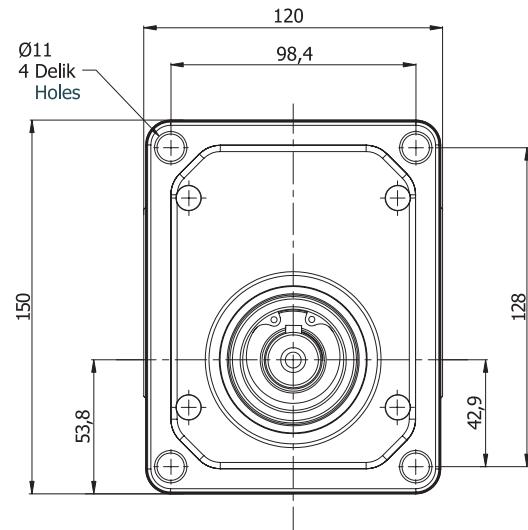
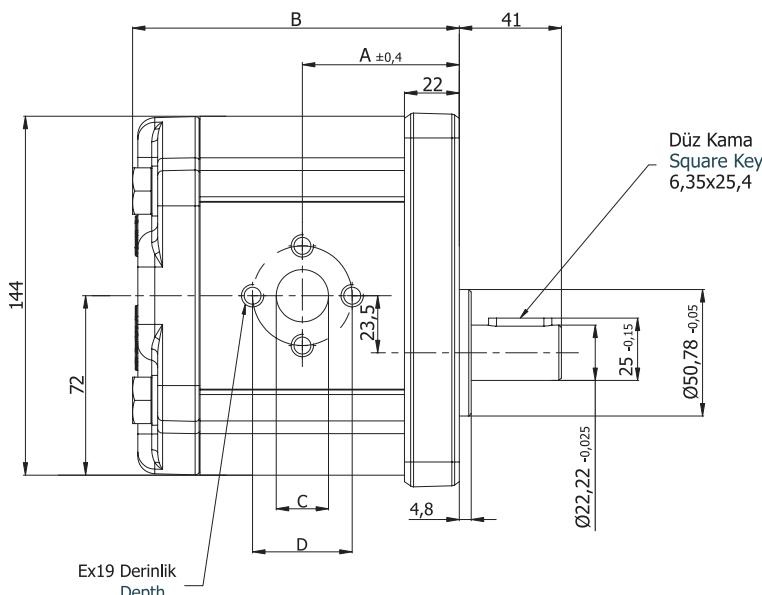
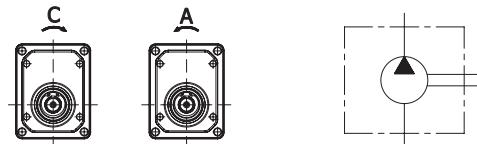
G Ön Kapak
Front Cover**A** Şaft Tipi
Shaft Type

Pompa Tipi Pump 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	D	E	c	d	e	
APH30.170.A/CGA01SN	17,0	250	3000	59,5	124,1	27	55	M8x16	19	55	M8x16	
APH30.220.A/CGA01SN	22,0			61,5	128,1							
APH30.270.A/CGA01SN	27,0			63,0	131,1							
APH30.320.A/CGA01SN	32,0			64,5	134,1							
APH30.340.A/CGA01SN	34,0	240		65,0	135,1							
APH30.380.A/CGA01SN	38,0			66,5	138,1							
APH30.430.A/CGA01SN	43,0			68,0	141,1							
APH30.470.A/CGA01SN	47,0			69,5	144,1							
APH30.510.A/CGA01SN	51,0	210	2500	70,5	146,1							
APH30.560.A/CGA01SN	56,0	200		71,5	148,1							
APH30.610.A/CGA01SN	61,0	180		74,0	153,1							
APH30.730.A/CGA01SN	73,0	170		77,0	160,1							
APH30.820.A/CGA01SN	82,0	160	1500	80,0	166,1							
APH30.900.A/CGA01SN	90,0	150		83,0	172,1							
APH30.1000.A/CGA01SN	100,0	140		86,0	178,1							

A Ön Kapak
Front Cover

B Şaft Tipi
Shaft Type


Pompa Tipi Pump 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	D	E	c	d	e
DKP30.170.A/CAB02SN	17,0	280	3000	59,5	124,1	27	51	M10x19	19	40	M8x16
DKP30.220.A/CAB02SN	22,0			61,5	128,1						
DKP30.270.A/CAB02SN	27,0			63,0	131,1						
DKP30.320.A/CAB02SN	32,0			64,5	134,1						
DKP30.340.A/CAB02SN	34,0			65,0	135,1						
DKP30.380.A/CAB02SN	38,0			66,5	138,1						
DKP30.430.A/CAB02SN	43,0			68,0	141,1						
DKP30.470.A/CAB02SN	47,0			69,5	144,1						
DKP30.510.A/CAB02SN	51,0			70,5	146,1						
DKP30.560.A/CAB02SN	56,0			71,5	148,1						
DKP30.610.A/CAB02SN	61,0	260	2500	74,0	153,1	33	62	M12x19	27	51	M10x19
DKP30.730.A/CAB02SN	73,0			77,0	160,1						
DKP30.820.A/CAB02SN	82,0			80,0	166,1						
DKP30.900.A/CAB02SN	90,0			83,0	172,1						
DKP30.1000.A/CAB02SN	100,0	180	1500	86,0	178,1						

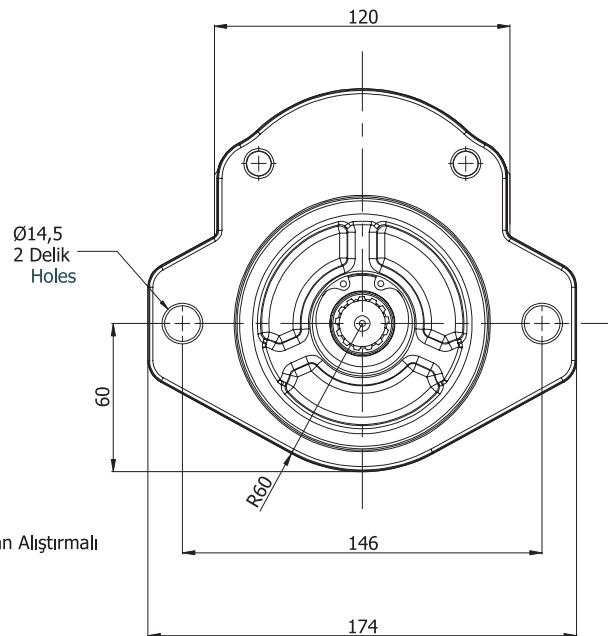
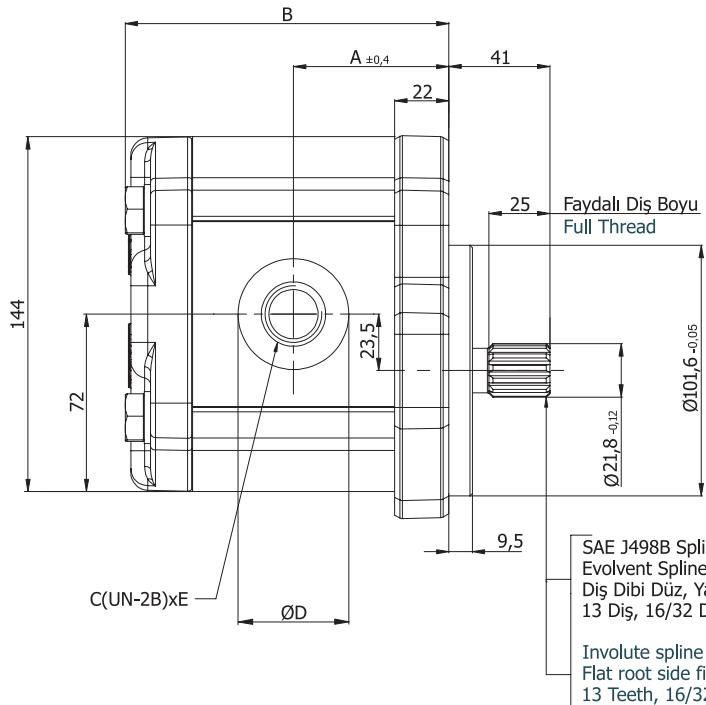
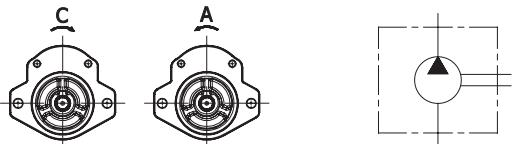
A Ön Kapak
Front Cover

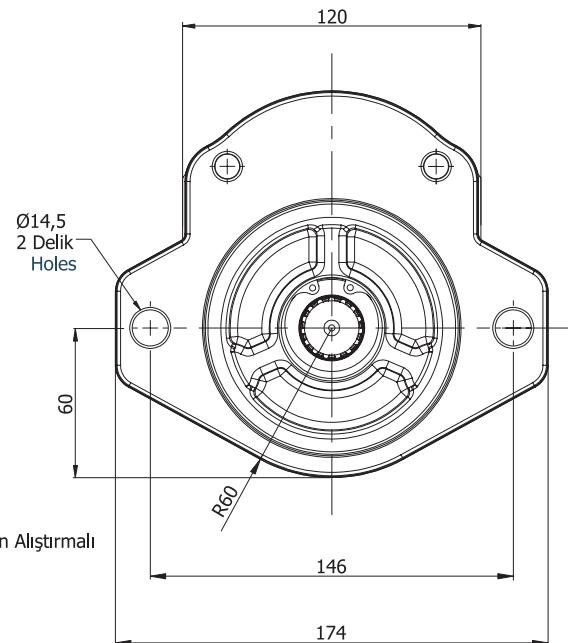
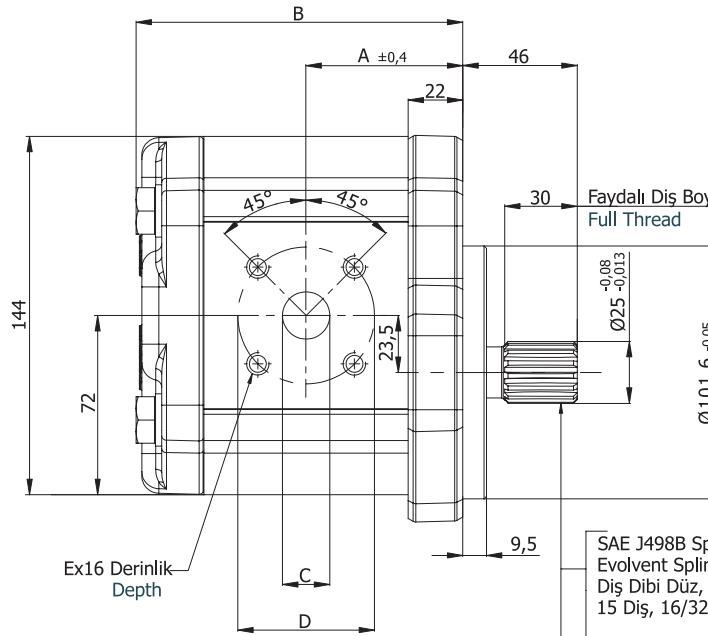
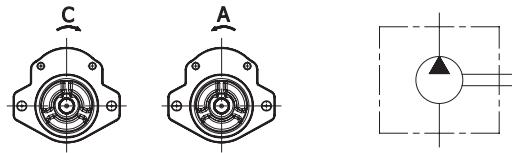
H Şaft Tipi
Shaft Type


Pompa Tipi Pump 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	D	E	c	d	e
DKP30.170.A/CAH02SN	17,0	280	3000	59,5	124,1	27	51	M10x19	19	40	M8x16
DKP30.220.A/CAH02SN	22,0			61,5	128,1						
DKP30.270.A/CAH02SN	27,0			63,0	131,1						
DKP30.320.A/CAH02SN	32,0			64,5	134,1						
DKP30.340.A/CAH02SN	34,0			65,0	135,1						
DKP30.380.A/CAH02SN	38,0			66,5	138,1						
DKP30.430.A/CAH02SN	43,0	260	2500	68,0	141,1	33	62	M12x19	27	51	M10x19
DKP30.470.A/CAH02SN	47,0			69,5	144,1						
DKP30.510.A/CAH02SN	51,0			70,5	146,1						
DKP30.560.A/CAH02SN	56,0			71,5	148,1						
DKP30.610.A/CAH02SN	61,0			74,0	153,1						
DKP30.730.A/CAH02SN	73,0			77,0	160,1						
DKP30.820.A/CAH02SN	82,0	190	2000	80,0	166,1	33	62	M12x19	27	51	M10x19
DKP30.900.A/CAH02SN	90,0			83,0	172,1						
DKP30.1000.A/CAH02SN	100,0			86,0	178,1						

D Ön Kapak
Front Cover

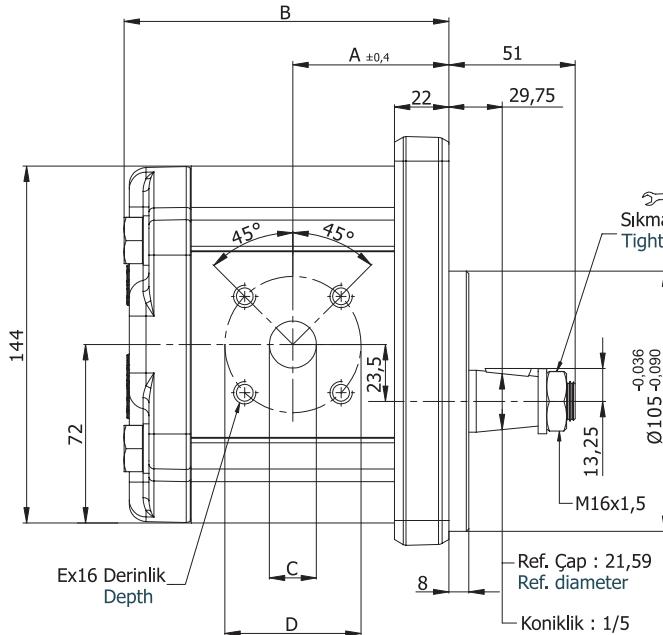
C Şaft Tipi
Shaft Type



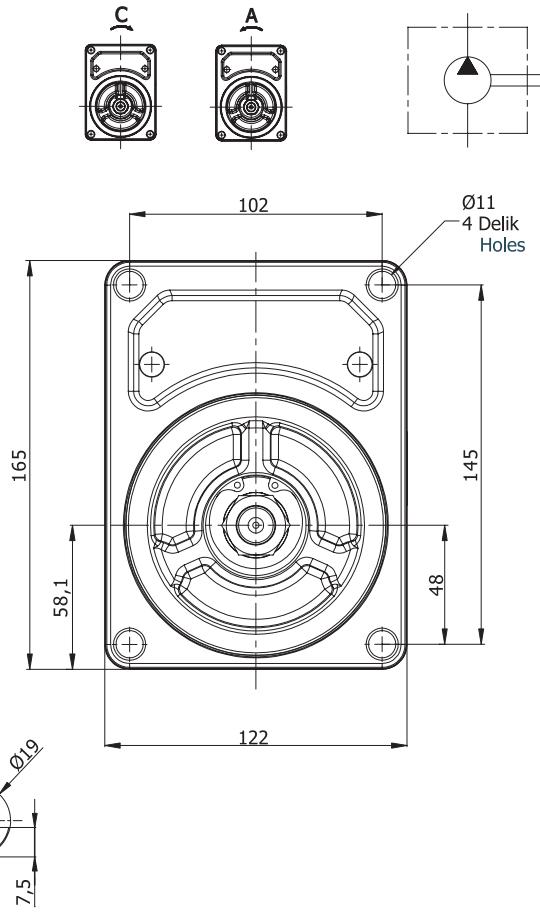
D Ön Kapak
Front Cover**D** Şaft Tipi
Shaft Type

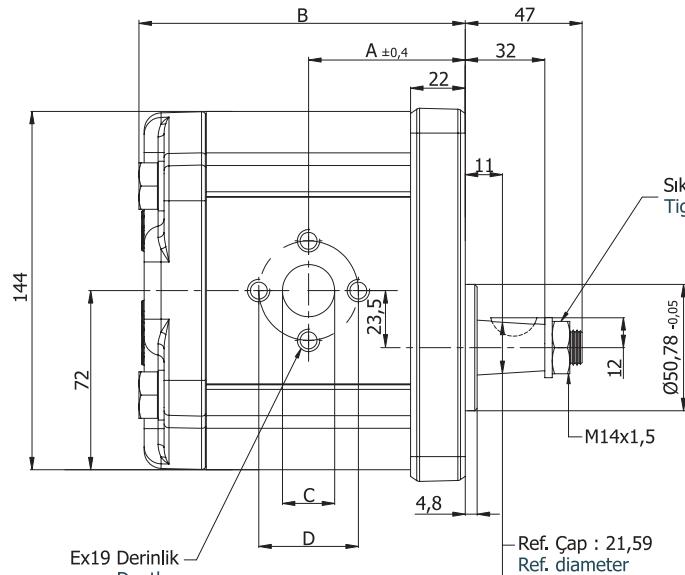
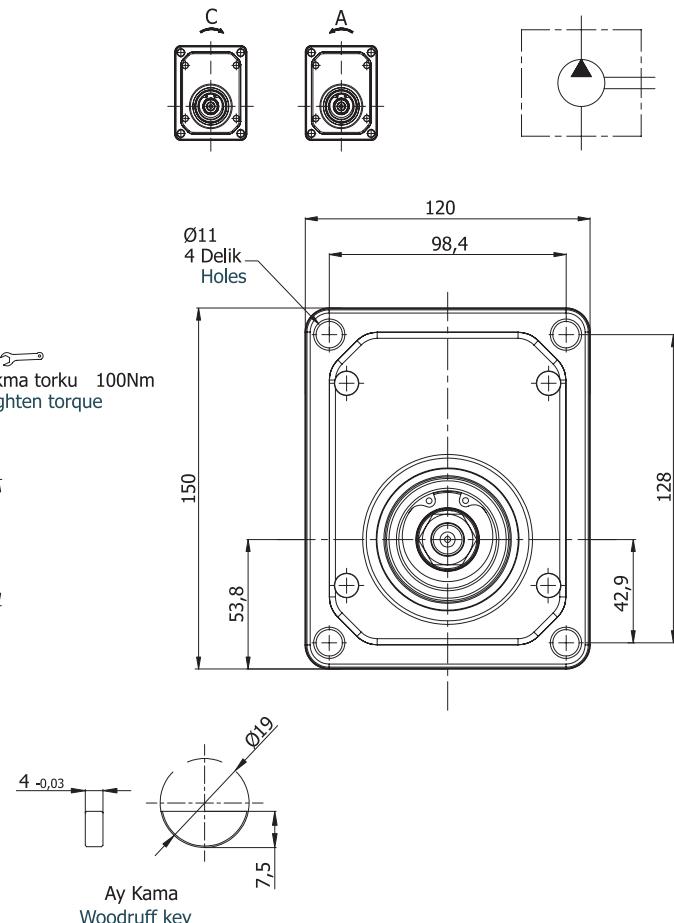
Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş – Inlet			Çıkış - Outlet		
						C	D	E	c	d	e
DKP30.170.A/CDD01SN	17,0	280	3000	59,5	124,1	27	55	M8x16	19	55	M8x16
DKP30.220.A/CDD01SN	22,0			61,5	128,1						
DKP30.270.A/CDD01SN	27,0			63,0	131,1						
DKP30.320.A/CDD01SN	32,0			64,5	134,1						
DKP30.340.A/CDD01SN	34,0			65,0	135,1						
DKP30.380.A/CDD01SN	38,0			66,5	138,1						
DKP30.430.A/CDD01SN	43,0	260	2500	68,0	141,1						
DKP30.470.A/CDD01SN	47,0			69,5	144,1						
DKP30.510.A/CDD01SN	51,0			70,5	146,1						
DKP30.560.A/CDD01SN	56,0			71,5	148,1						
DKP30.610.A/CDD01SN	61,0			74,0	153,1						
DKP30.730.A/CDD01SN	73,0			77,0	160,1						
DKP30.820.A/CDD01SN	82,0	190	2000	80,0	166,1	27	55	M8x16	19	55	M8x16
DKP30.900.A/CDD01SN	90,0			83,0	172,1						
DKP30.1000.A/CDD01SN	100,0			86,0	178,1						

G Ön Kapak
Front Cover



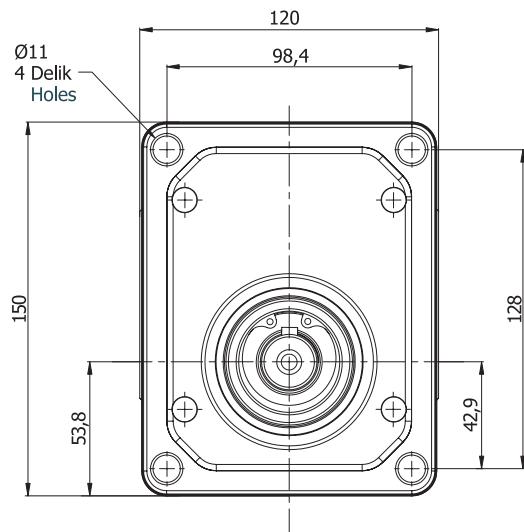
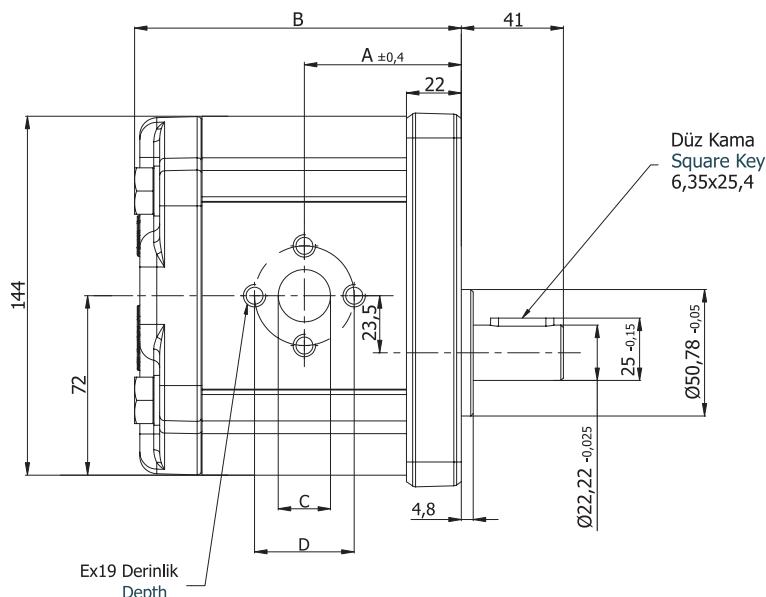
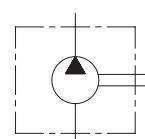
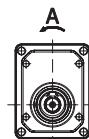
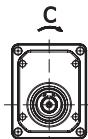
A Şaft Tipi Shaft Type



A Ön Kapak
Front Cover**B** Şaft Tipi
Shaft Type

Pompa Tipi Pump 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	D	E	c	d	e
DPH30.170.A/CAB02SN	17,0	300	3000	59,5	124,1	27	51	M10x19	19	40	M8x16
DPH30.220.A/CAB02SN	22,0			61,5	128,1						
DPH30.270.A/CAB02SN	27,0			63,0	131,1						
DPH30.320.A/CAB02SN	32,0			64,5	134,1						
DPH30.340.A/CAB02SN	34,0			65,0	135,1						
DPH30.380.A/CAB02SN	38,0			66,5	138,1						
DPH30.430.A/CAB02SN	43,0			68,0	141,1						
DPH30.470.A/CAB02SN	47,0	260	2500	69,5	144,1						
DPH30.510.A/CAB02SN	51,0			70,5	146,1						
DPH30.560.A/CAB02SN	56,0			71,5	148,1						
DPH30.610.A/CAB02SN	61,0			74,0	153,1						
DPH30.730.A/CAB02SN	73,0	220	200	77,0	160,1	33	62	M12x19	27	51	M10x19
DPH30.820.A/CAB02SN	82,0	210		80,0	166,1						
DPH30.900.A/CAB02SN	90,0	83,0		172,1							
DPH30.1000.A/CAB02SN	100,0			86,0	178,1						

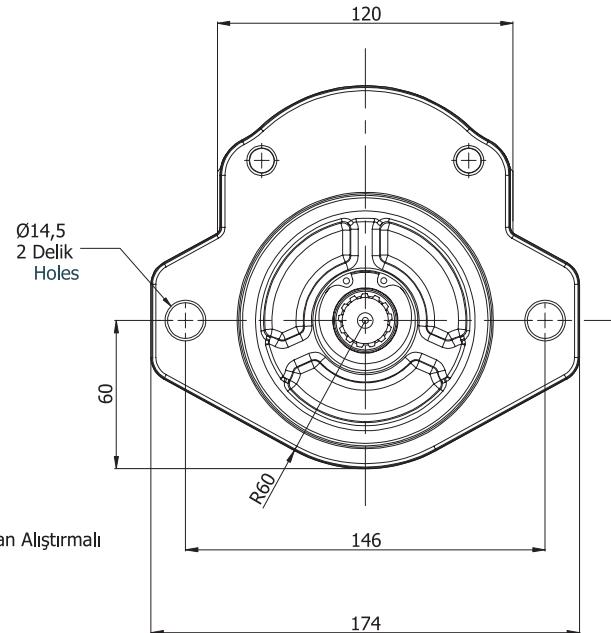
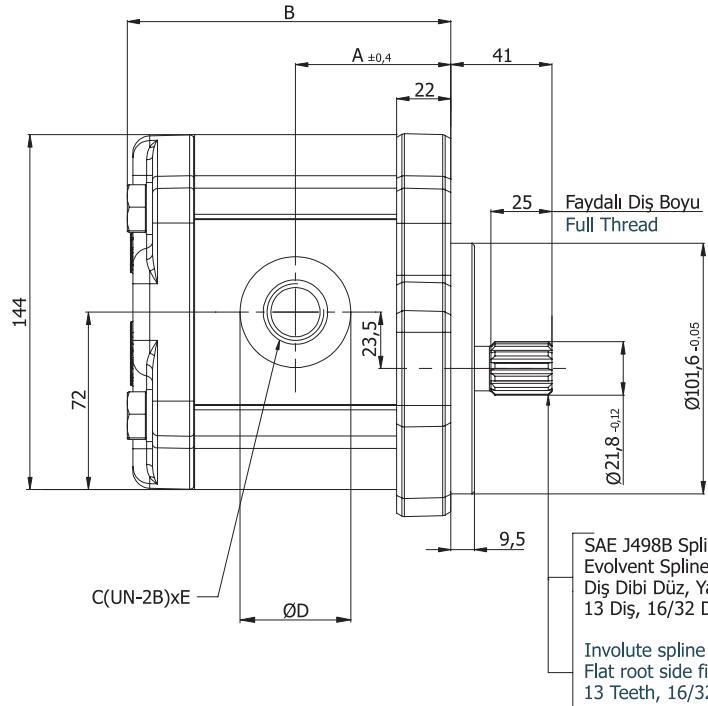
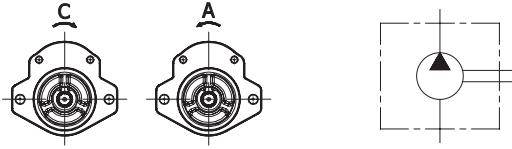
A Ön Kapak
 Front Cover

H Şaft Tipi
 Shaft Type


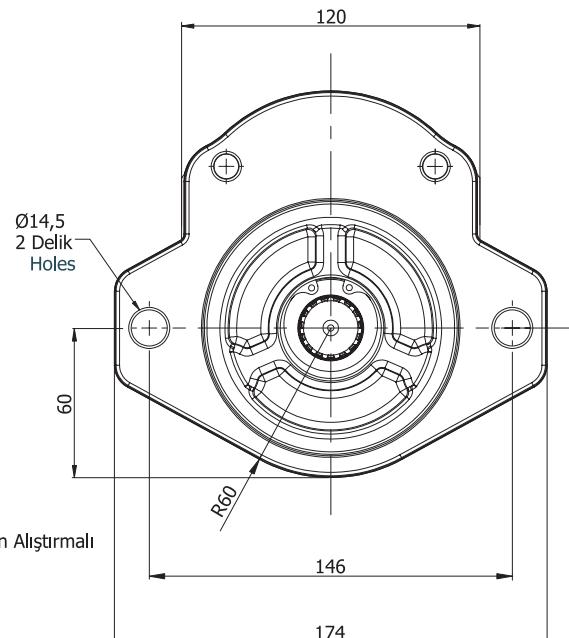
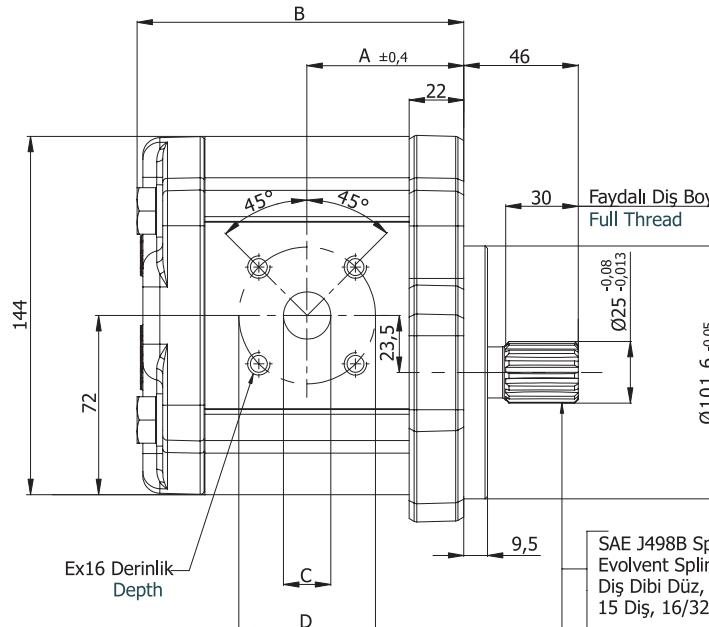
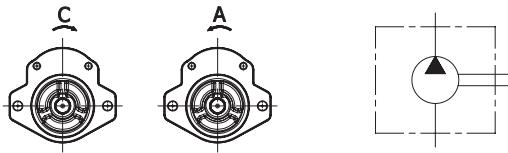
Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş – Inlet			Çıkış - Outlet		
						C	D	E	c	d	e
DPH30.170.A/CAH02SN	17,0	300	3000	59,5	124,1	27	51	M10x19	19	40	M8x16
DPH30.220.A/CAH02SN	22,0			61,5	128,1						
DPH30.270.A/CAH02SN	27,0			63,0	131,1						
DPH30.320.A/CAH02SN	32,0			64,5	134,1						
DPH30.340.A/CAH02SN	34,0			65,0	135,1						
DPH30.380.A/CAH02SN	38,0			66,5	138,1						
DPH30.430.A/CAH02SN	43,0			68,0	141,1						
DPH30.470.A/CAH02SN	47,0		260	69,5	144,1						
DPH30.510.A/CAH02SN	51,0			70,5	146,1						
DPH30.560.A/CAH02SN	56,0			71,5	148,1						
DPH30.610.A/CAH02SN	61,0			74,0	153,1						
DPH30.730.A/CAH02SN	73,0	220	2000	77,0	160,1	33	62	M12x19	27	51	M10x19
DPH30.820.A/CAH02SN	82,0			80,0	166,1						
DPH30.900.A/CAH02SN	90,0			83,0	172,1						
DPH30.1000.A/CAH02SN	100,0			86,0	178,1						

D Ön Kapak
Front Cover

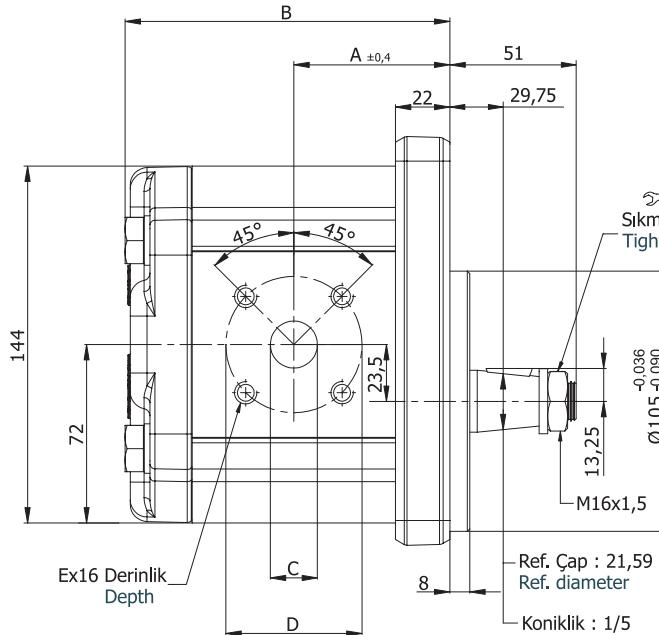
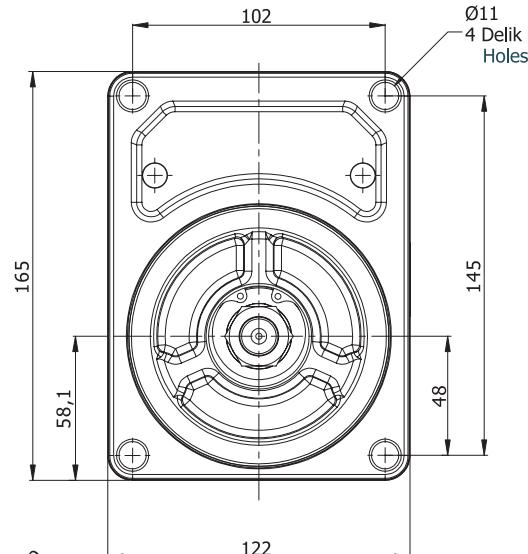
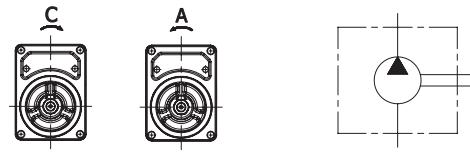
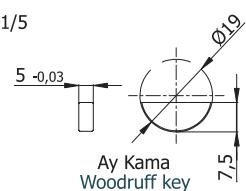
C Şaft Tipi
Shaft Type



D Ön Kapak
 Front Cover

D Şaft Tipi
 Shaft Type


Pompa Tipi Pump 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	D	E	c	d	e
DPH30.170.A/CDD01SN	17,0	300	3000	59,5	124,1	27	55	M8x16	19	55	M8x16
DPH30.220.A/CDD01SN	22,0			61,5	128,1						
DPH30.270.A/CDD01SN	27,0			63,0	131,1						
DPH30.320.A/CDD01SN	32,0			64,5	134,1						
DPH30.340.A/CDD01SN	34,0			65,0	135,1						
DPH30.380.A/CDD01SN	38,0			66,5	138,1						
DPH30.430.A/CDD01SN	43,0	280	280	68,0	141,1						
DPH30.470.A/CDD01SN	47,0			69,5	144,1						
DPH30.510.A/CDD01SN	51,0			70,5	146,1						
DPH30.560.A/CDD01SN	56,0			71,5	148,1						
DPH30.610.A/CDD01SN	61,0	250	2500	74,0	153,1						
DPH30.730.A/CDD01SN	73,0			77,0	160,1						
DPH30.820.A/CDD01SN	82,0			80,0	166,1						
DPH30.900.A/CDD01SN	90,0	200	2000	83,0	172,1						
DPH30.1000.A/CDD01SN	100,0			86,0	178,1						

G Ön Kapak
Front Cover**A** Şaft Tipi
Shaft Type

Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A $\pm 0,4$	B	Giriş – Inlet			Çıkış - Outlet			
						C	D	E	c	d	e	
DPH30.170.A/CGA01SN	17,0	300	3000	59,5	124,1	27	55	M8x16	19	55	M8x16	
DPH30.220.A/CGA01SN	22,0			61,5	128,1							
DPH30.270.A/CGA01SN	27,0			63,0	131,1							
DPH30.320.A/CGA01SN	32,0	280		64,5	134,1							
DPH30.340.A/CGA01SN	34,0			65,0	135,1							
DPH30.380.A/CGA01SN	38,0			66,5	138,1							
DPH30.430.A/CGA01SN	43,0			68,0	141,1							
DPH30.470.A/CGA01SN	47,0	260		69,5	144,1							
DPH30.510.A/CGA01SN	51,0			70,5	146,1							
DPH30.560.A/CGA01SN	56,0			71,5	148,1							
DPH30.610.A/CGA01SN	61,0	250		74,0	153,1							
DPH30.730.A/CGA01SN	73,0			77,0	160,1							
DPH30.820.A/CGA01SN	82,0			80,0	166,1							
DPH30.900.A/CGA01SN	90,0	200		83,0	172,1							
DPH30.1000.A/CGA01SN	100,0			86,0	178,1							

GP30 POMPALARIN KODLAMA SİSTEMİ
ORDERING CODE OF GP30 PUMPS

GP30

082/082

C

S

T1

T

N

Keçeler / Seals

N	NBR
V	VITON

İç sızıntı Hattı / Internal Drain Port

T	Var / Available
	Yok / Absent

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 Şhaft Parallel Shaft A8x7x32 DIN 6885
B1	Konik - Kamalı Tapered key shaft 1:8

GP30

Yandan Giriş-Çıkış
Side Inlet-Outlet

GPR30

Arkadan Giriş-Çıkış
Rear Inlet-Outletİletim Hacmi / Displacement
cm³/dev(cm³/rev)

017 = 17,2 cm ³ /dev(rev)
027 = 27,1 cm ³ /dev(rev)
034 = 34,4 cm ³ /dev(rev)
043 = 42,9 cm ³ /dev(rev)
051 = 51,2 cm ³ /dev(rev)
061 = 60,7 cm ³ /dev(rev)
073 = 73,0 cm ³ /dev(rev)
082 = 81,4 cm ³ /dev(rev)
100 = 99,7 cm ³ /dev(rev)

Dönüş Yönü / Rotation

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

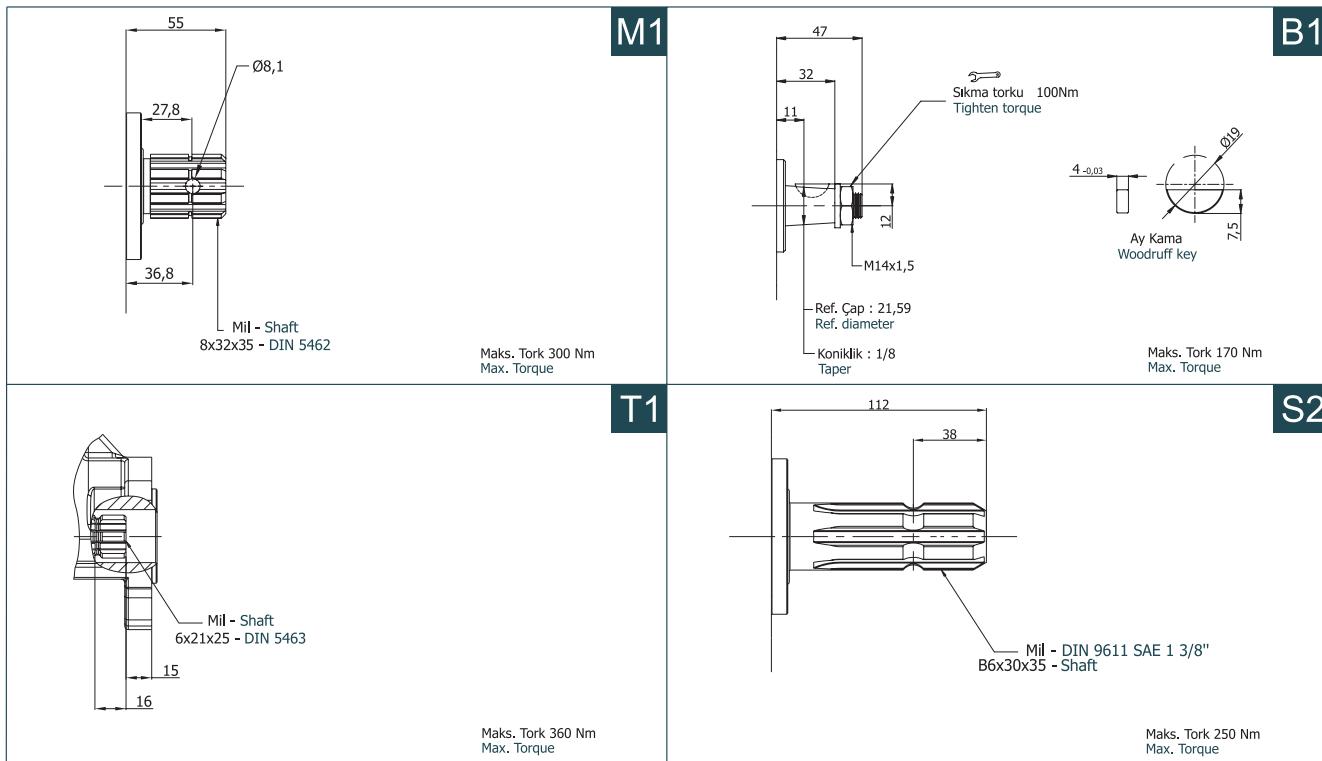
Ön Kapak / Front Cover

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

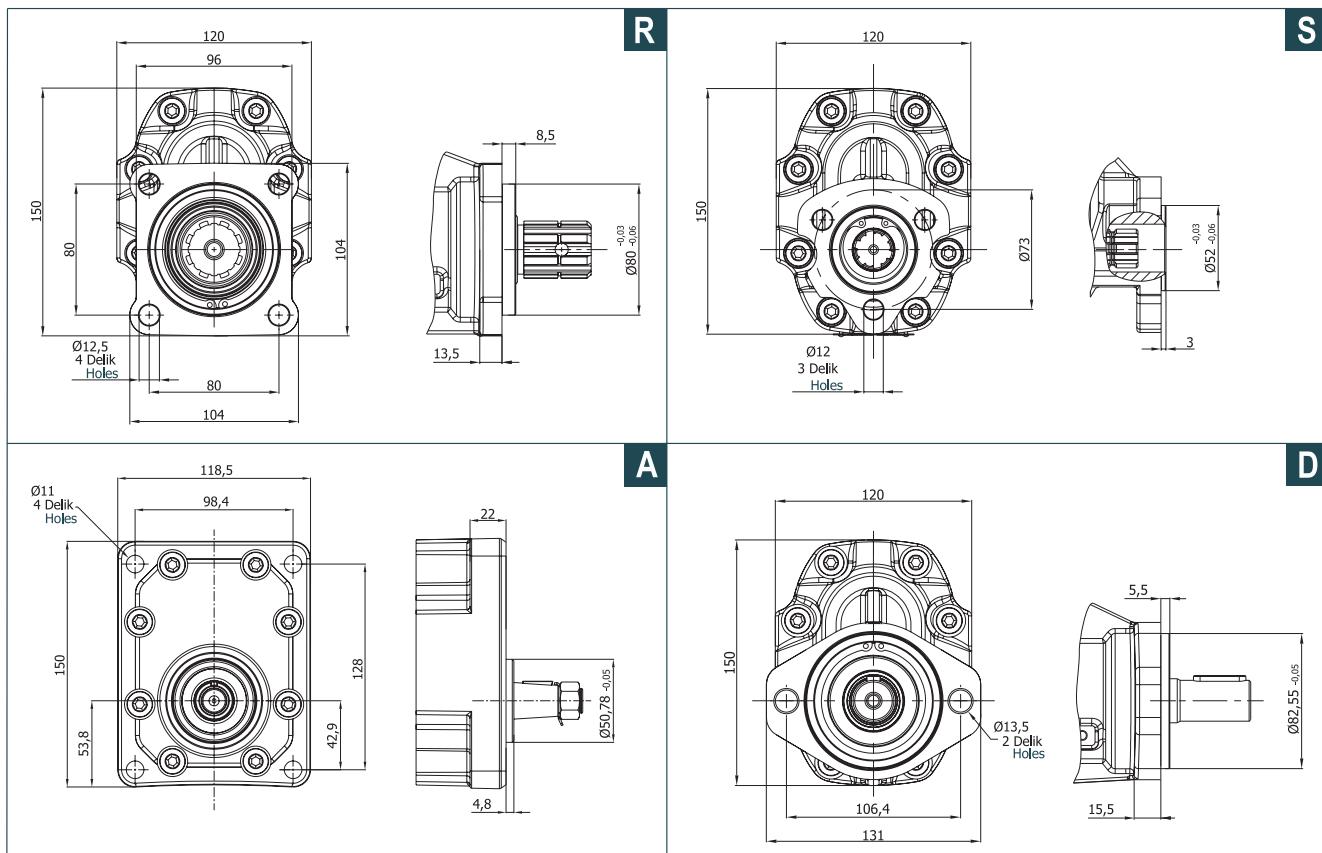
- Kodlama Örneği (Tekli) ; GP30.082.CST1N
Code Example (Single)

- Kodlama Örneği (Tandem) ; GP30.082/082.CST1N
Code Example (Tandem)

GP30 ŞAFT TİPLERİ / GP30 SHAFT TYPES



GP30 ÖN KAPAKLAR / GP30 FRONT COVERS



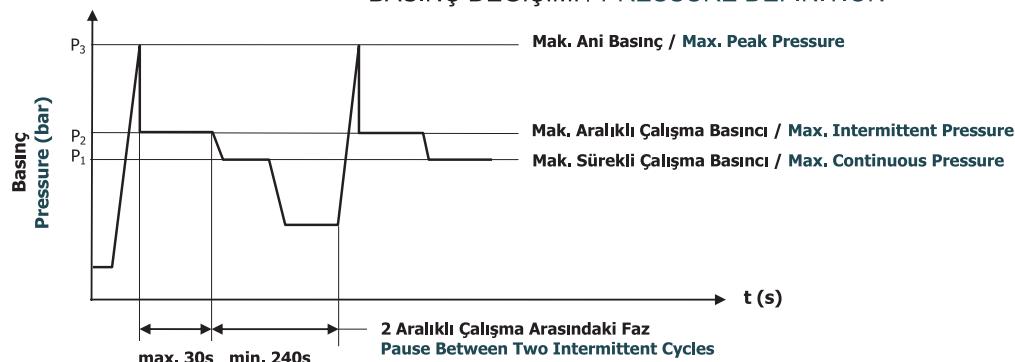
Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç / Max. Pressure			Maks. Hız Max. Speed	Min. Hız Min. Speed
		P1	P2	P3		
		bar				
GP30.017	17,2	300	320	340	3000	300
GP30.027	27,1	290	310	330		
GP30.034	34,4	280	300	320		
GP30.043	42,9	270	290	310		
GP30.051	51,2	240	260	280		
GP30.061	60,7	220	240	260		
GP30.073	73,0	200	220	240		
GP30.082	81,4	190	210	230		
GP30.100	99,7	180	200	220		

P1: Sürekli çalışma basıncı
Continuous pressure

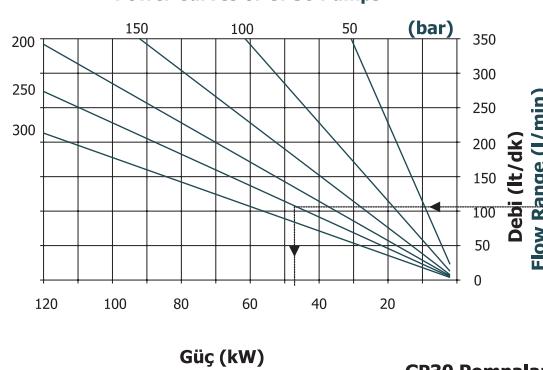
P2 : Aralıklı çalışma basıncı
Intermittent pressure

P3 : Ani basınç
Peak pressure

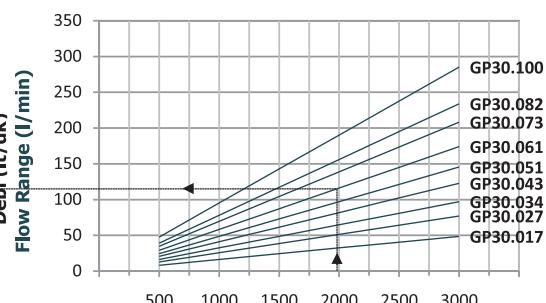
BASINÇ DEĞİŞİMİ / PRESSURE DEFINITION



GP30 Pompaların Güç Eğrileri
Power Curves of GP30 Pumps



GP30 Pompaların Debi Eğrileri
Flow Curves of GP30 Pumps

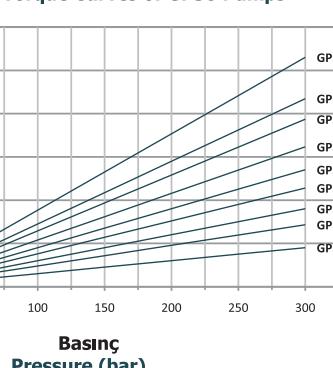


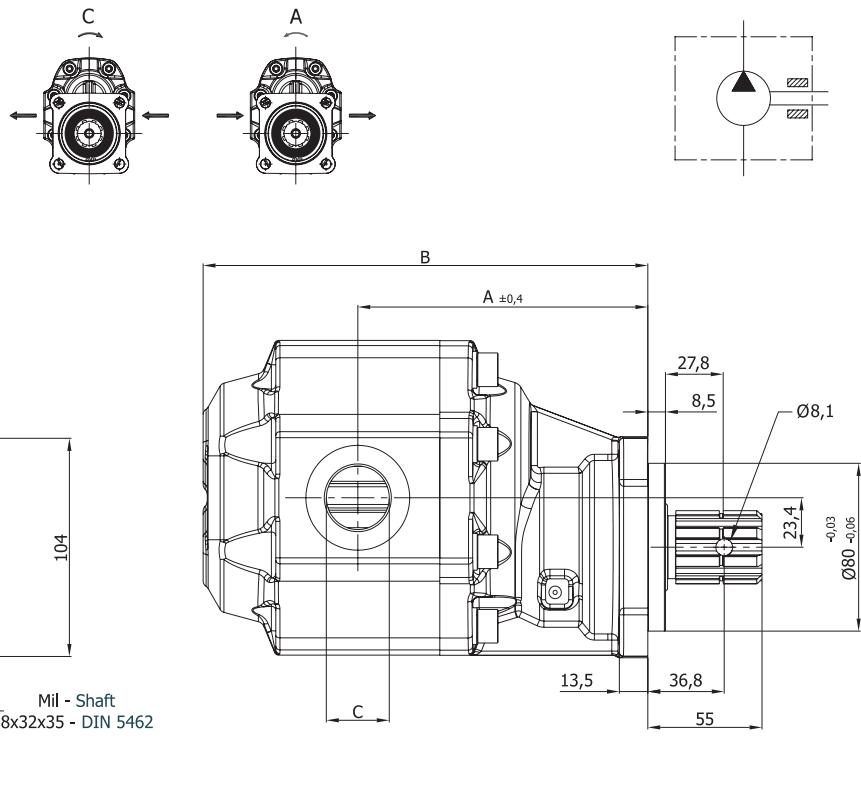
Güç (kW)
Power

GP30 Pompaların Tork Eğrileri
Torque Curves of GP30 Pumps

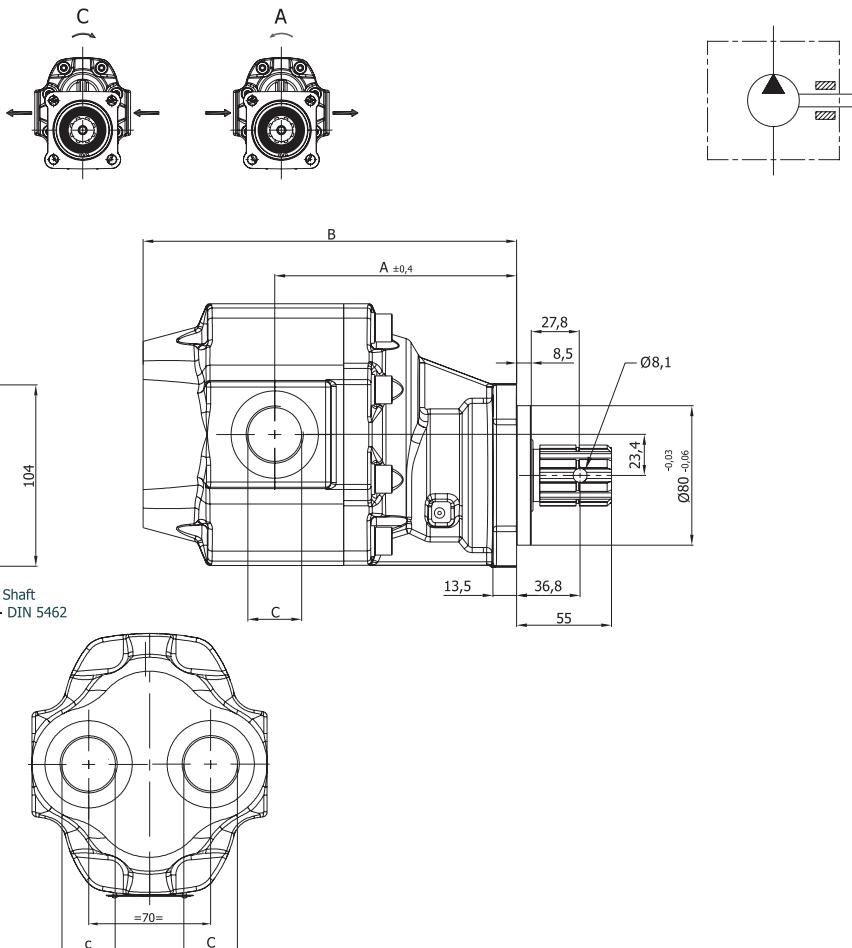
Devir (d/d)
Speed (rpm)

Tork
Torque (Nm)

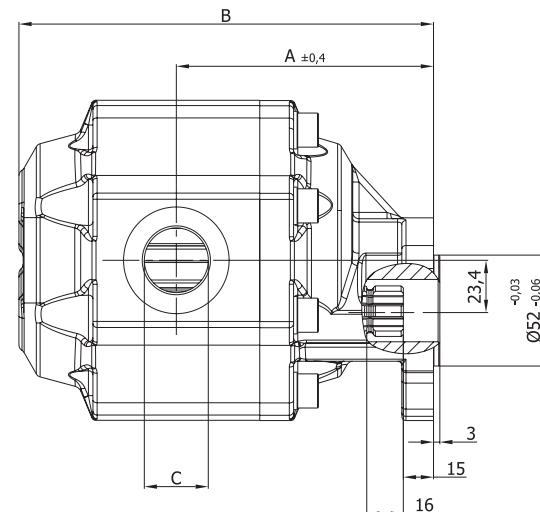
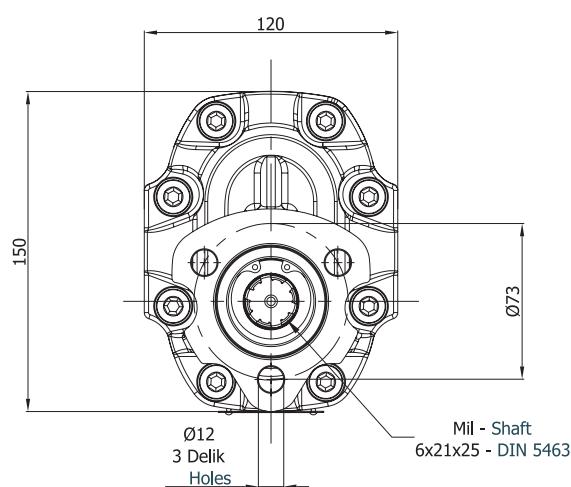
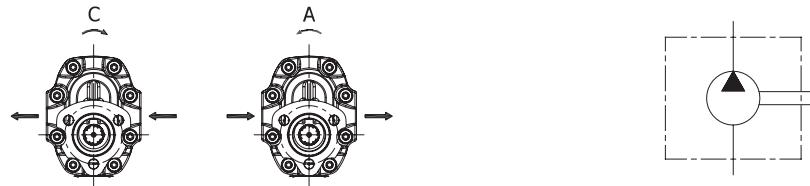


ISO TİPİ
TYPE

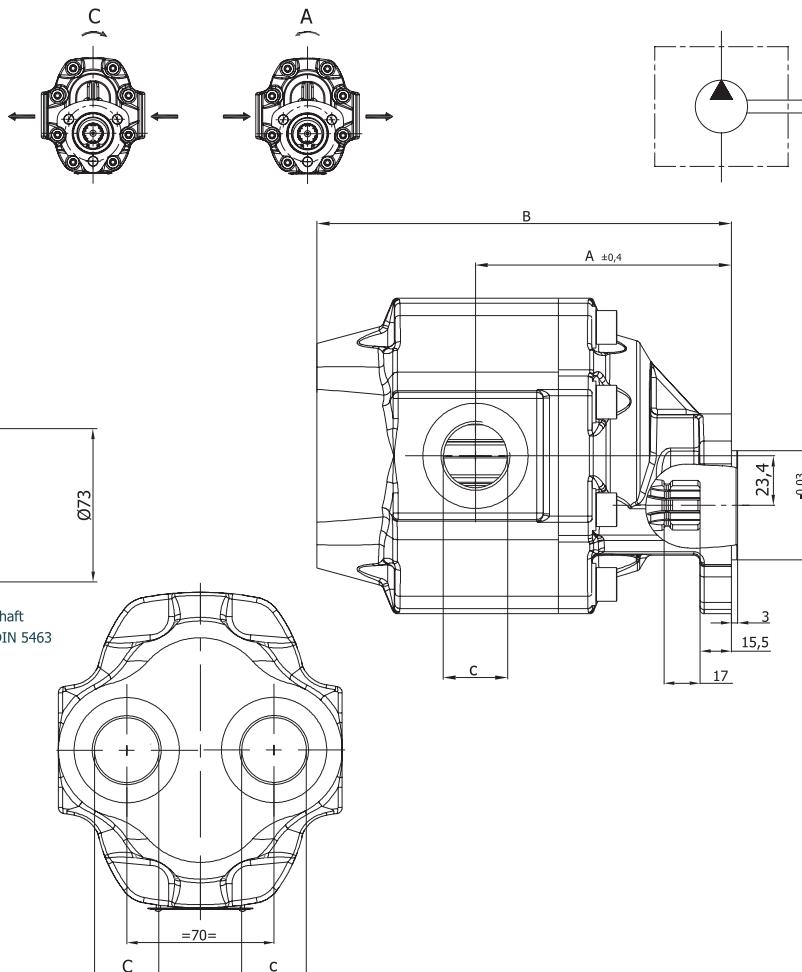
Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş – İnlet	Çıkış - Outlet
						C	c
GP30.017.CRM1N	17,2	300	3000	119,0	172,6	G 1 1/2"	G 1/2"
GP30.017.ARM1N							
GP30.027.CRM1N	27,1	290	2750	122,2	179,0	G 3/4"	G 3/4"
GP30.027.ARM1N							
GP30.034.CRM1N	34,4	280	2500	124,5	183,6	G 1"	G 1"
GP30.034.ARM1N							
GP30.043.CRM1N	42,9	270	2000	127,4	189,4	G 1-1/4"	G 1-1/4"
GP30.043.ARM1N							
GP30.051.CRM1N	51,2	240	1750	129,5	193,5	G 1-1/4"	G 1-1/4"
GP30.051.ARM1N							
GP30.061.CRM1N	60,7	220	133,2	201,0	214,5	G 1-1/4"	G 1-1/4"
GP30.061.ARM1N							
GP30.073.CRM1N	73,0	200	140,0	208,7	226,1	G 1-1/4"	G 1-1/4"
GP30.073.ARM1N							
GP30.082.CRM1N	81,4	190	145,8	214,5	226,1	G 1-1/4"	G 1-1/4"
GP30.082.ARM1N							
GP30.100.CRM1N	99,7	180	145,8	214,5	226,1	G 1-1/4"	G 1-1/4"
GP30.100.ARM1N							

ISO TİPİ
TYPE


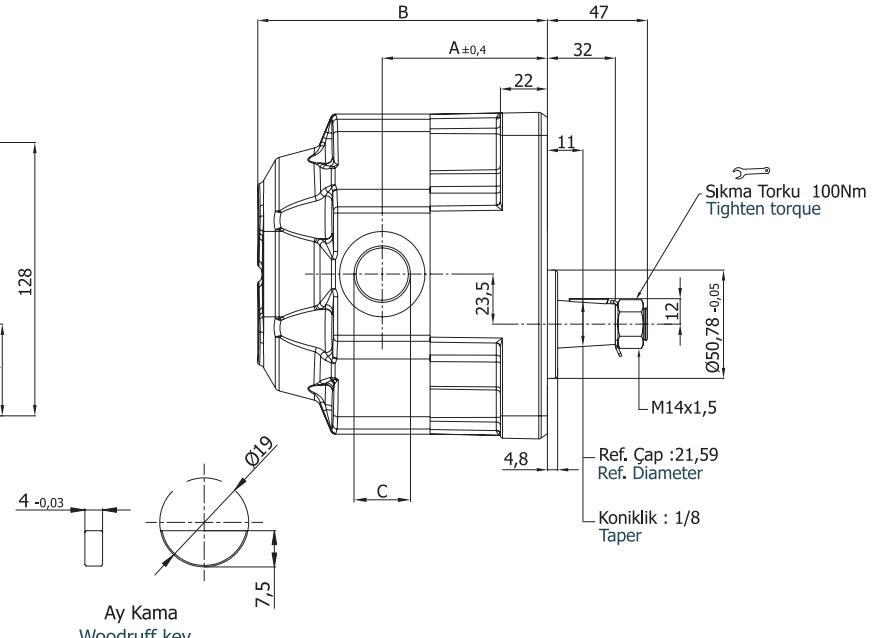
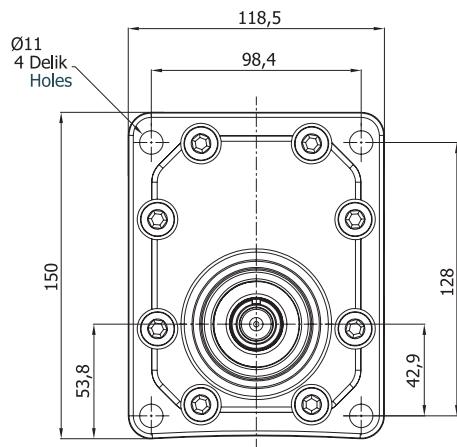
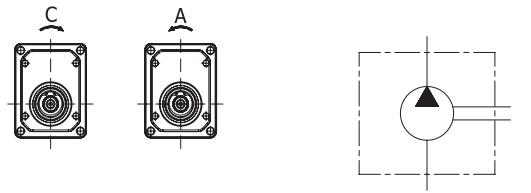
Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A	B	Giriş – Inlet	Çıkış - Outlet
						C	c
GPR30.017.CRM1N	17,2	300	3000	119,0	173,6	G 1/2"	G 1/2"
GPR30.017.ARM1N				122,2	180,0		
GPR30.027.CRM1N	27,1	290	2750	124,5	184,6	G 3/4"	G 3/4"
GPR30.027.ARM1N				127,4	190,4		
GPR30.034.CRM1N	34,4	280	2500	129,5	194,5	G 1"	G 1"
GPR30.034.ARM1N				133,2	202,0		
GPR30.043.CRM1N	42,9	270	2000	137,1	209,7	G 1-1/4"	G 1-1/4"
GPR30.043.ARM1N				140,1	215,5		
GPR30.051.CRM1N	51,2	240	1750	145,8	227,1	G 1-1/4"	G 1-1/4"
GPR30.051.ARM1N							
GPR30.061.CRM1N	60,7	220	1750			G 1-1/4"	G 1-1/4"
GPR30.061.ARM1N							
GPR30.073.CRM1N	73,0	200	1750			G 1-1/4"	G 1-1/4"
GPR30.073.ARM1N							
GPR30.082.CRM1N	81,4	190	1750			G 1-1/4"	G 1-1/4"
GPR30.082.ARM1N							
GPR30.100.CRM1N	99,7	180	1750			G 1-1/4"	G 1-1/4"
GPR30.100.ARM1N							

UNI TİPİ
TYPE

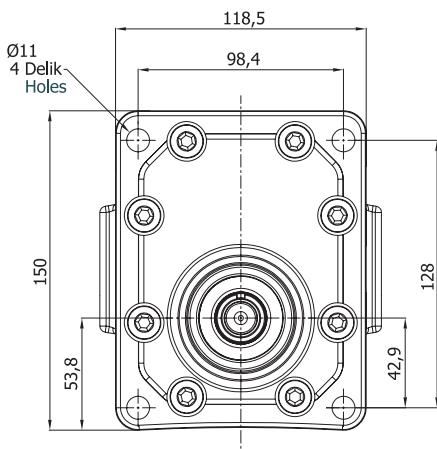
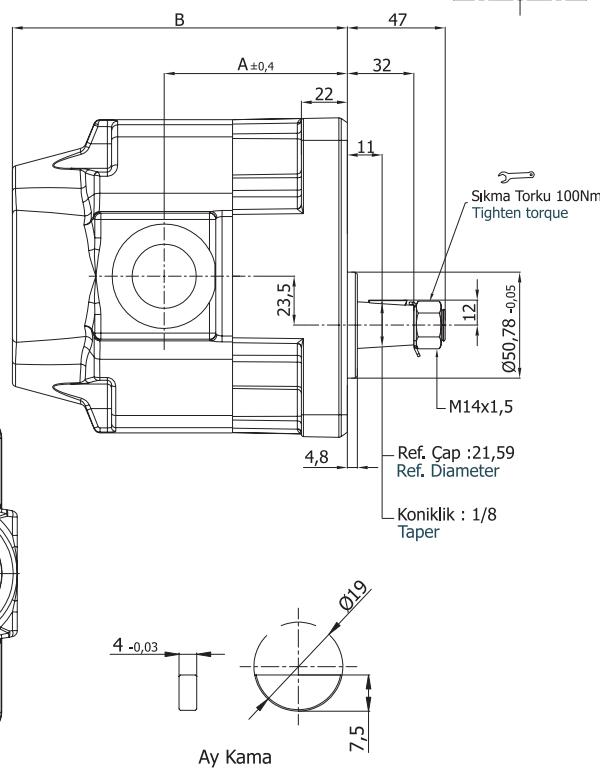
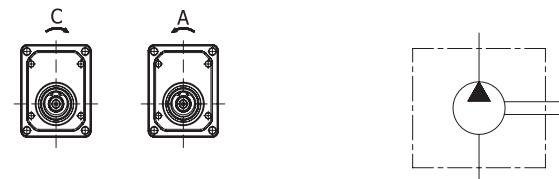
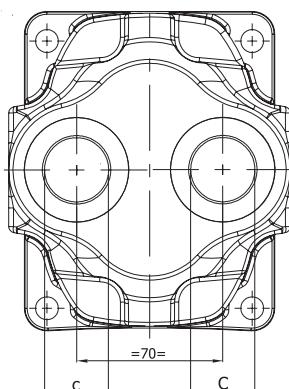
Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş – İnlet	Çıkış - Outlet
						C	c
GP30.017.CST1N	17,2	300	3000	100,8	154,4	G 1/2"	G 1/2"
GP30.017.AST1N							
GP30.027.CST1N	27,1	290	2750	104,0	160,8	G 3/4"	G 3/4"
GP30.027.AST1N							
GP30.034.CST1N	34,4	280	2500	106,3	165,4	G 3/4"	G 3/4"
GP30.034.AST1N							
GP30.043.CST1N	42,9	270	2500	109,2	171,2	G 1"	G 1"
GP30.043.AST1N							
GP30.051.CST1N	51,2	240	2000	111,3	175,3	G 1-1/4"	G 1-1/4"
GP30.051.AST1N							
GP30.061.CST1N	60,7	220	1750	115,0	182,8	G 1-1/4"	G 1-1/4"
GP30.061.AST1N							
GP30.073.CST1N	73,0	200	1750	118,9	190,5	G 1-1/4"	G 1-1/4"
GP30.073.AST1N							
GP30.082.CST1N	81,4	190	1750	121,8	196,3	G 1-1/4"	G 1-1/4"
GP30.082.AST1N							
GP30.100.CST1N	99,7	180	1750	127,6	207,9	G 1-1/4"	G 1-1/4"
GP30.100.AST1N							

UNI TİPİ
TYPE


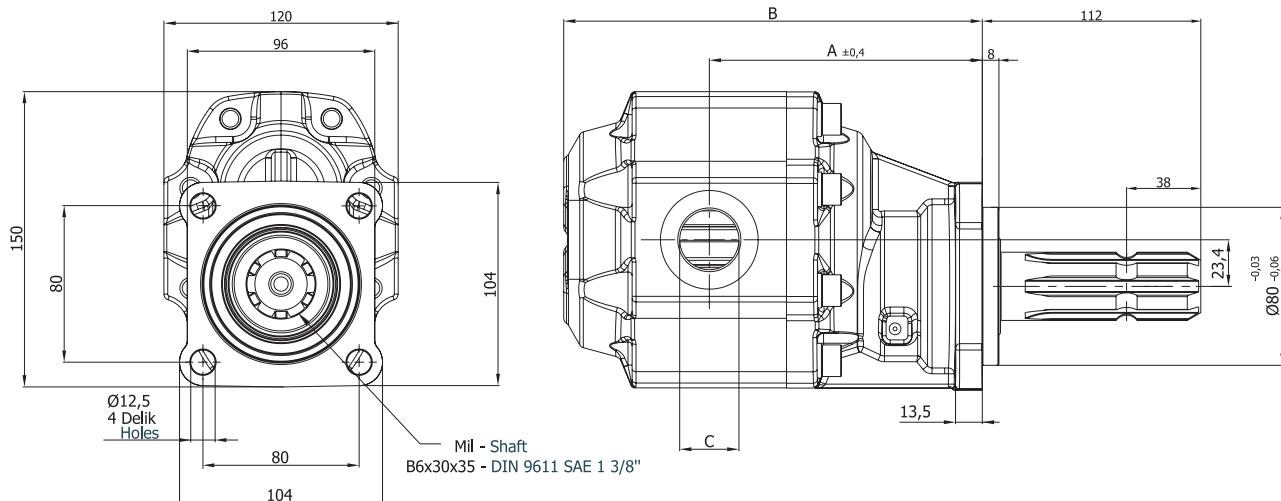
Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş – İnlet	Çıkış - Outlet
						C	c
GPR30.017.CST1N	17,2	300	3000	100,8	155,4	G 1/2"	G 1/2"
GPR30.017.AST1N				104,0	161,8		
GPR30.027.CST1N	27,1	290	2750				
GPR30.027.AST1N				106,3	166,4	G 3/4"	G 3/4"
GPR30.034.CST1N	34,4	280	2500				
GPR30.034.AST1N				109,2	172,2		
GPR30.043.CST1N	42,9	270	2500				
GPR30.043.AST1N				111,3	176,3		
GPR30.051.CST1N	51,2	240	2000				
GPR30.051.AST1N				115,0	183,8	G 1"	G 1"
GPR30.061.CST1N	60,7	220	1750				
GPR30.061.AST1N				118,9	191,5		
GPR30.073.CST1N	73,0	200	1750				
GPR30.073.AST1N				121,8	197,3	G 1-1/4"	G 1-1/4"
GPR30.082.CST1N	81,4	190					
GPR30.082.AST1N				127,6	208,9		
GPR30.100.CST1N	99,7	180					
GPR30.100.AST1N							

A Ön Kapak
Front Cover**B1** Şaft Tipi
Shaft Type

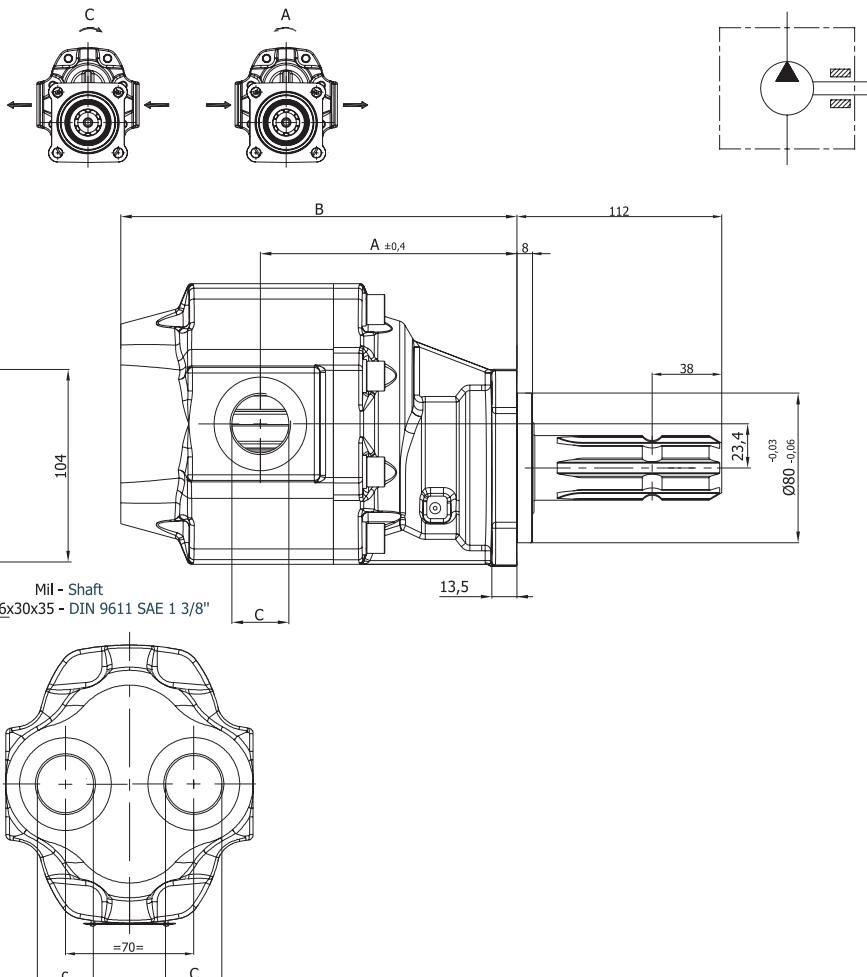
Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş – Inlet	Çıkış - Outlet
						C	c
GP30.017.CAB1N	17,2	300	3000	73,5	127,2	G 1/2"	G 1/2"
GP30.017.AAB1N							
GP30.027.CAB1N	27,1	290	2750	76,7	133,5	G 3/4"	G 3/4"
GP30.027.AAB1N							
GP30.034.CAB1N	34,4	280	2500	79,0	138,2	G 1"	G 1"
GP30.034.AAB1N							
GP30.043.CAB1N	42,9	270	2000	81,9	144,0	G 1-1/4"	G 1-1/4"
GP30.043.AAB1N							
GP30.051.CAB1N	51,2	240	1750	84,0	148,0	G 1-1/4"	G 1-1/4"
GP30.051.AAB1N							
GP30.061.CAB1N	60,7	220	1750	87,7	155,5	G 1-1/4"	G 1-1/4"
GP30.061.AAB1N							
GP30.073.CAB1N	73,0	200	1750	91,6	163,3	G 1-1/4"	G 1-1/4"
GP30.073.AAB1N							
GP30.082.CAB1N	81,4	190	1750	94,5	169,0	G 1-1/4"	G 1-1/4"
GP30.082.AAB1N							
GP30.100.CAB1N	99,7	180	1750	100,3	180,7	G 1-1/4"	G 1-1/4"
GP30.100.AAB1N							

A Ön Kapak
Front Cover

B1 Şaft Tipi
Shaft Type


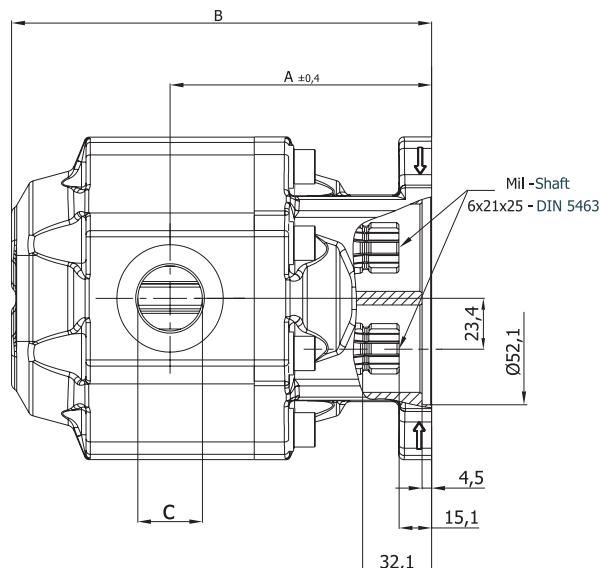
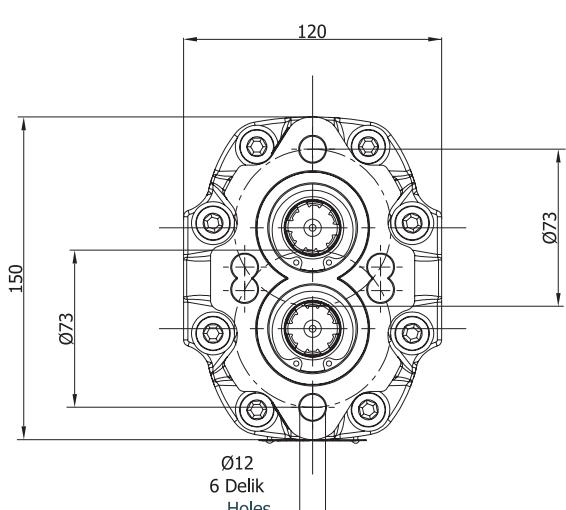
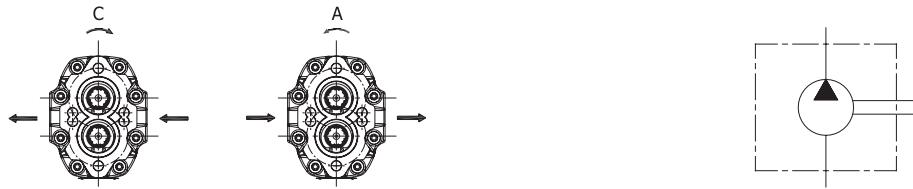
Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş – Inlet	Çıkış - Outlet
						C	c
GPR30.017.CAB1N	17,2	300	3000	73,5	128,1	G 1/2"	G 1/2"
GPR30.017.CAB1N				76,7	134,5		
GPR30.027.CAB1N	27,1	290	2750	79,0	139,1	G 3/4"	G 3/4"
GPR30.027.CAB1N				81,9	144,9		
GPR30.034.CAB1N	34,4	280	2500	84,0	149,0	G 1"	G 1"
GPR30.034.CAB1N				87,7	156,5		
GPR30.043.CAB1N	42,9	270	1750	91,6	164,2	G 1-1/4"	G 1-1/4"
GPR30.043.CAB1N				94,5	170,0		
GPR30.051.CAB1N	51,2	240		100,3	181,6		
GPR30.051.CAB1N							
GPR30.061.CAB1N	60,7	220	2000				
GPR30.061.CAB1N							
GPR30.073.CAB1N	73,0	200					
GPR30.073.CAB1N							
GPR30.082.CAB1N	81,4	190					
GPR30.082.CAB1N							
GPR30.100.CAB1N	99,7	180					
GPR30.100.CAB1N							

SAE TİPİ
TYPE

Pompa Tipi Pump 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 – İnlet	Çıkış – Outlet
						C	c
GP30.017.CRS2N	17,2	300	3000	119,0	172,6	G 1 1/2"	G 1 1/2"
GP30.017.ARS2N							
GP30.027.CRS2N	27,1	290	2750	122,2	179,0	G 3/4"	G 3/4"
GP30.027.ARS2N							
GP30.034.CRS2N	34,4	280	2500	124,5	183,6	G 1"	G 1"
GP30.034.ARS2N							
GP30.043.CRS2N	42,9	270	1750	127,4	189,4	G 1-1/4"	G 1-1/4"
GP30.043.ARS2N							
GP30.051.CRS2N	51,2	240	1750	129,5	193,5	G 1-1/4"	G 1-1/4"
GP30.051.ARS2N							
GP30.061.CRS2N	60,7	220	1750	133,2	201,0	G 1-1/4"	G 1-1/4"
GP30.061.ARS2N							
GP30.073.CRS2N	73,0	200	1750	137,1	208,7	G 1-1/4"	G 1-1/4"
GP30.073.ARS2N							
GP30.082.CRS2N	81,4	190	1750	140,0	214,5	G 1-1/4"	G 1-1/4"
GP30.082.ARS2N							
GP30.100.CRS2N	99,7	180	1750	145,8	226,1	G 1-1/4"	G 1-1/4"
GP30.100.ARS2N							

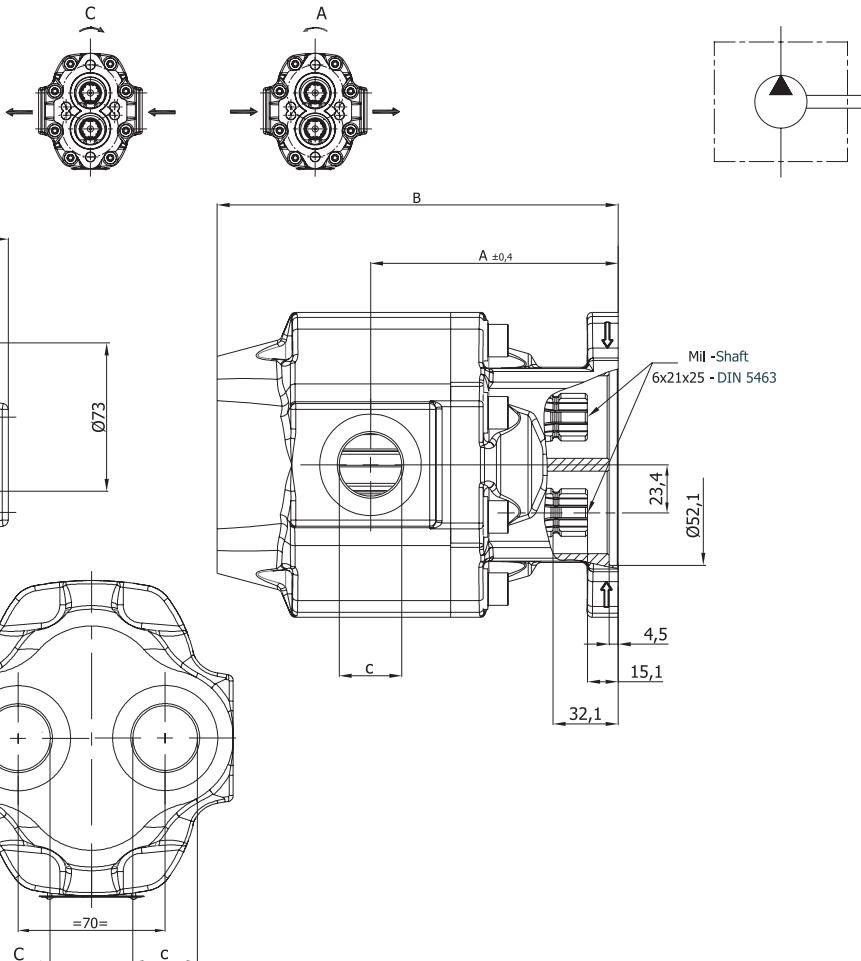
SAE TİPİ
TYPE


Pompa Tipi Pump 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
GPR30.017.CRS2N	17,2	300	3000	119,0	173,6	G 1/2"	G 1/2"
GPR30.017.ARS2N				122,2	180,0		
GPR30.027.CRS2N	27,1	290	2750	124,5	184,6	G 3/4"	G 3/4"
GPR30.027.ARS2N				127,4	190,4		
GPR30.034.CRS2N	34,4	280	2500	129,5	194,5	G 1"	G 1"
GPR30.034.ARS2N				133,2	202,0		
GPR30.043.CRS2N	42,9	270	2000	137,1	209,7	G 1-1/4"	G 1-1/4"
GPR30.043.ARS2N				140,1	215,5		
GPR30.051.CRS2N	51,2	240	1750	145,8	227,1		
GPR30.051.ARS2N							
GPR30.061.CRS2N	60,7	220					
GPR30.061.ARS2N							
GPR30.073.CRS2N	73,0	200					
GPR30.073.ARS2N							
GPR30.082.CRS2N	81,4	190					
GPR30.082.ARS2N							
GPR30.100.CRS2N	99,7	180					
GPR30.100.ARS2N							

T2 TİPİ
TYPE

Pompa Tipi Pump 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
GP30.017.CPT2N	17,2	300	3000	101,0	154,6	G 1/2"	G 1/2"
GP30.017.APT2N				104,2	161,0		
GP30.027.CPT2N	27,1	290	2750	106,5	165,6	G 3/4"	G 3/4"
GP30.027.APT2N				109,5	171,4		
GP30.034.CPT2N	34,4	280	2500	111,5	175,5	G 1"	G 1"
GP30.034.APT2N				115,2	183,0		
GP30.043.CPT2N	42,9	270	2000	119,2	190,7	G 1-1/4"	G 1-1/4"
GP30.043.APT2N				122,0	196,5		
GP30.051.CPT2N	51,2	240	1750	127,8	208,1	REV. AG 17 / 09.15 113	REV. AG 17 / 09.15 113
GP30.051.APT2N							
GP30.061.CPT2N	60,7	220				REV. AG 17 / 09.15 113	REV. AG 17 / 09.15 113
GP30.061.APT2N							
GP30.073.CPT2N	73,0	200				REV. AG 17 / 09.15 113	REV. AG 17 / 09.15 113
GP30.073.APT2N							
GP30.082.CPT2N	81,4	190				REV. AG 17 / 09.15 113	REV. AG 17 / 09.15 113
GP30.082.APT2N							
GP30.100.CPT2N	99,7	180				REV. AG 17 / 09.15 113	REV. AG 17 / 09.15 113
GP30.100.APT2N							

T2 TİPİ
TYPE



GP40 POMPALARIN KODLAMA SİSTEMİ ORDERING CODE OF GP40 PUMPS

GP40**087/087****C****S****T1****T****N**

Keçeler / Seals	
N	NBR
V	VITON

GP40Yandan Giriş-Çıkış
Side Inlet-Outlet**GPR40**Arkadan Giriş-Çıkış
Rear Inlet-Outletİletim Hacmi / Displacement
cm³/dev(cm³/rev)063 = 63,8 cm³/dev(rev)073 = 72,2 cm³/dev(rev)087 = 86,1 cm³/dev(rev)109 = 107,3 cm³/dev(rev)133 = 131,6 cm³/dev(rev)151 = 148,3 cm³/dev(rev)İç sızıntı Hattı /
Internal Drain Port

T	Var / Available
	Yok / Absent

Şaft Tipi / Shaft Type

T1	Çok Kamalı Mil Spline Shaft 6x21x25 DIN 5463
M1	Çok Kamalı Mil Spline Shaft 8x32x36 DIN 5462
S2	Çok Kamalı Mil Spline Shaft B6x30x35 DIN 9611 SAE 1 3/8"

Ön Kapak / Front Cover

S	3 Delikli Ø73 / 3 Holes Ø73
R	4 Delikli Ø80 / 4 Holes Ø80

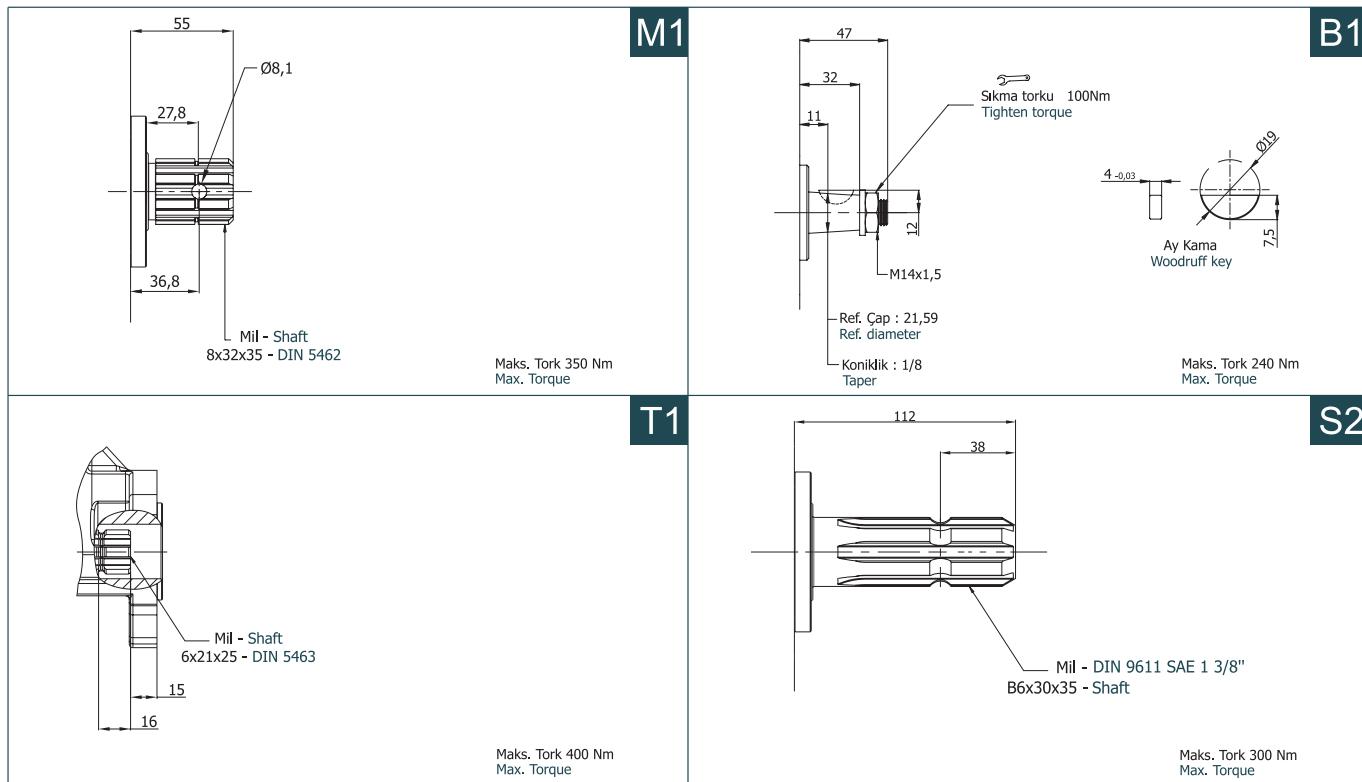
Dönüş Yönü / Rotation

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

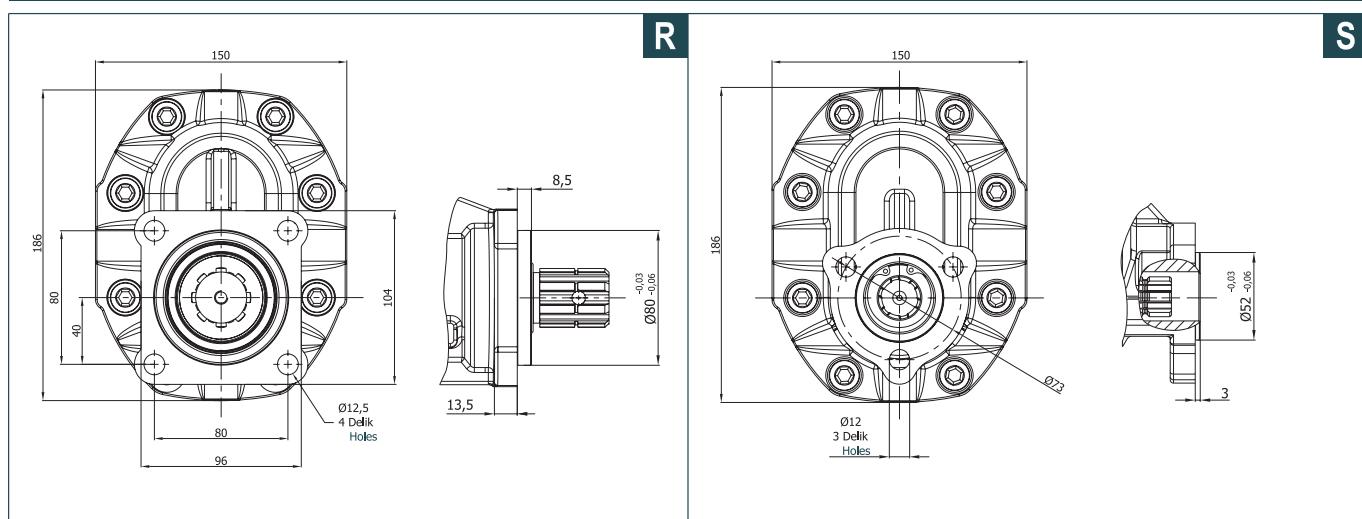
- Kodlama Örneği (Tekli) ; GP40.087.CST1N
Code Example (Single)

- Kodlama Örneği (Tandem) ; GP40.087/087.CST1N
Code Example (Tandem)

GP40 ŞAFT TİPLERİ / GP40 SHAFT TYPES



GP40 ÖN KAPAKLAR / GP40 FRONT COVERS



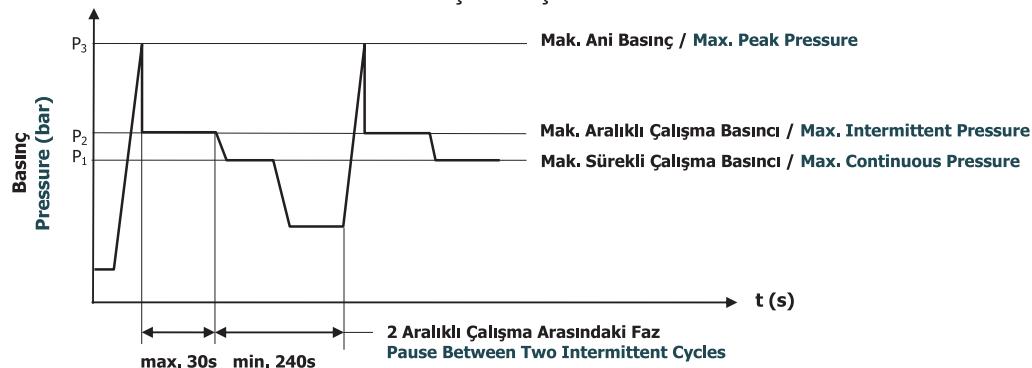
Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev (cm³/rev)	Maks. Basınç / Max. Pressure			Maks. Hız Max. Speed d/d (rpm)	Min. Hız Min. Speed	
		P1	P2	P3			
		bar					
GP40.063	63,8	280	300	320	2750	300	
GP40.073	72,2		260	280			
GP40.087	86,1		240	260			
GP40.109	107,3		220	240	2500		
GP40.133	131,6		180	200			
GP40.151	148,3		220	240			

P1: Sürekli çalışma basıncı
Continuous pressure

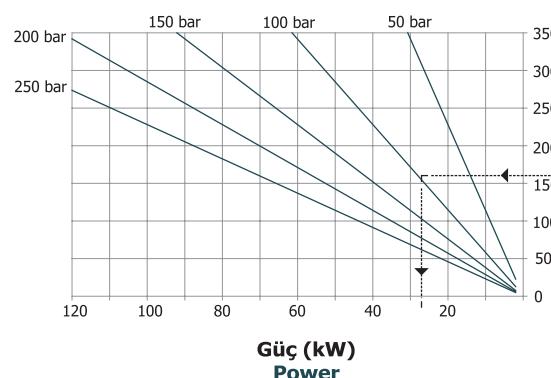
P2 : Aralıklı çalışma basıncı
Intermittent pressure

P3 : Ani basınç
Peak pressure

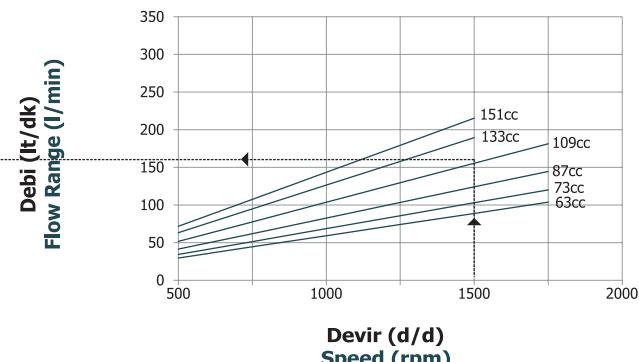
BASINÇ DEĞİŞİMİ / PRESSURE DEFINITION



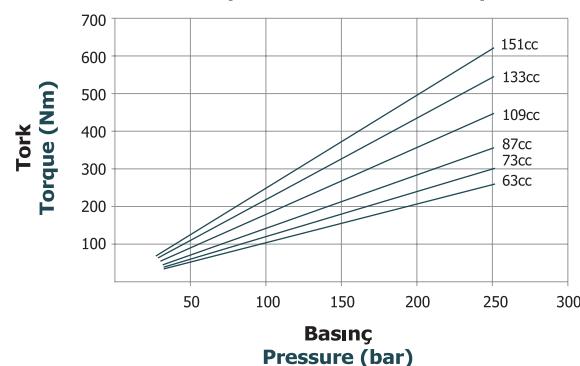
GP40 Pompaların Güç Eğrileri
Power Curves of GP40 Pumps

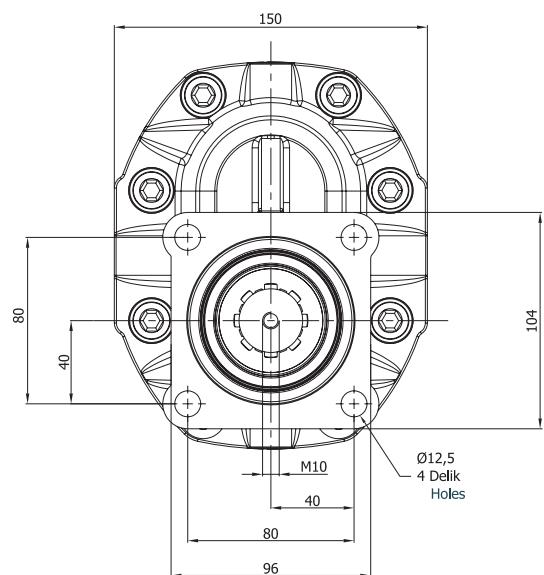
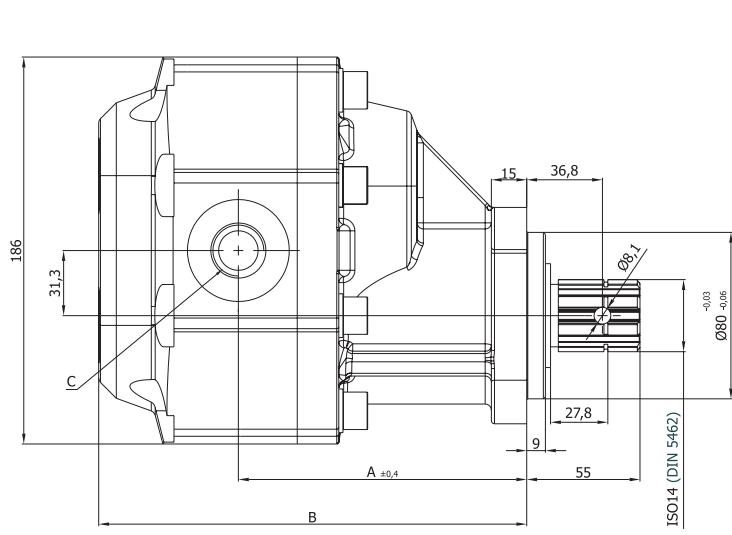
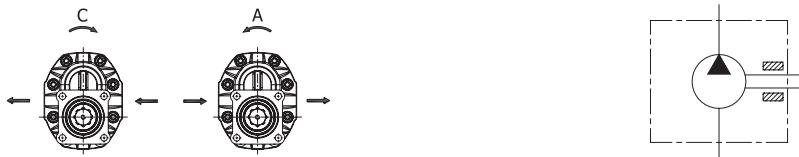


GP40 Pompaların Debi Eğrileri
Flow Curves of GP40 Pumps

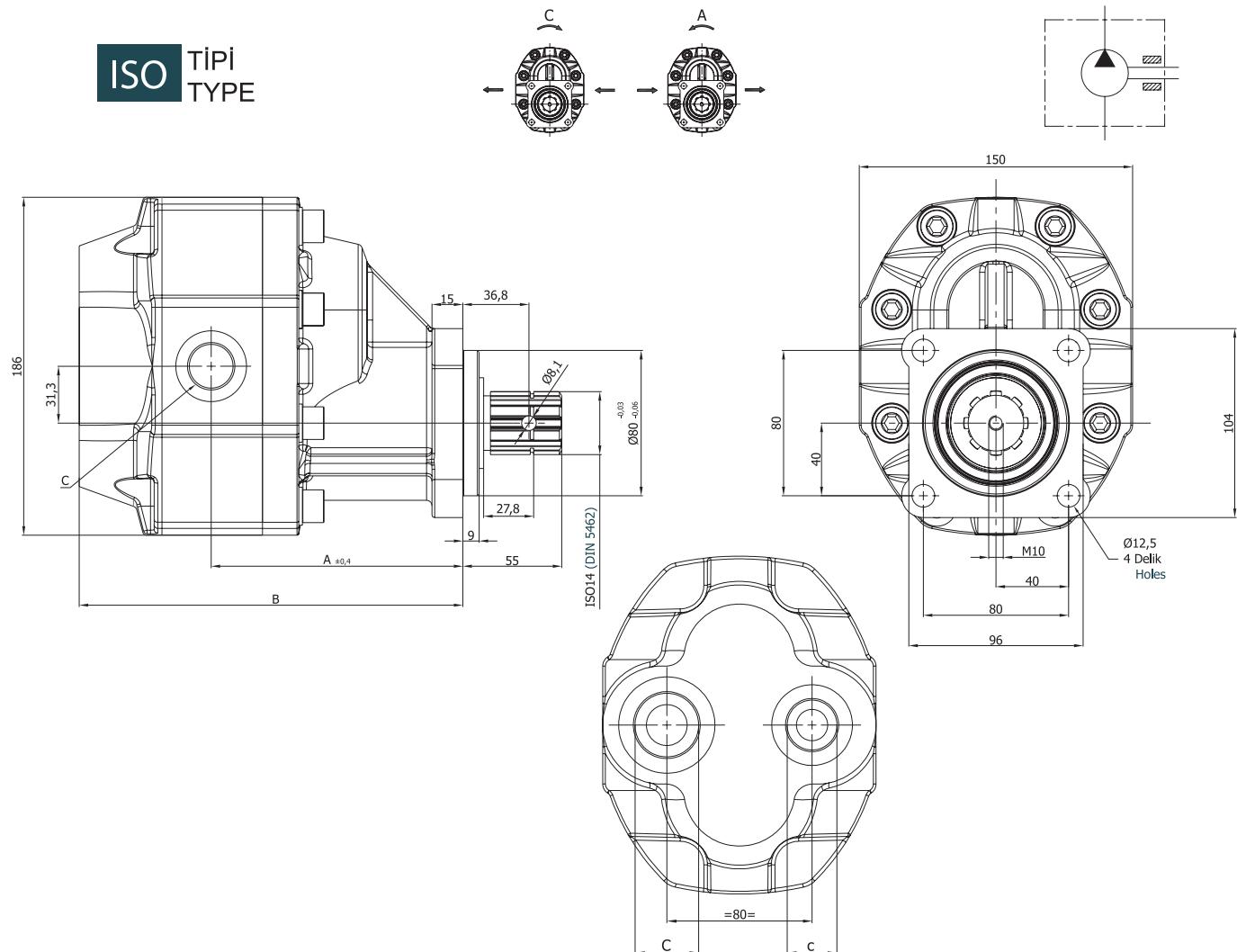


GP40 Pompaların Tork Eğrileri
Torque Curves of GP40 Pumps

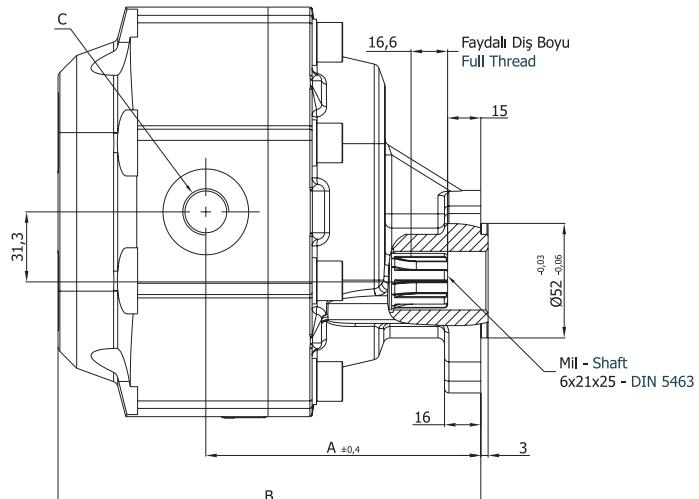
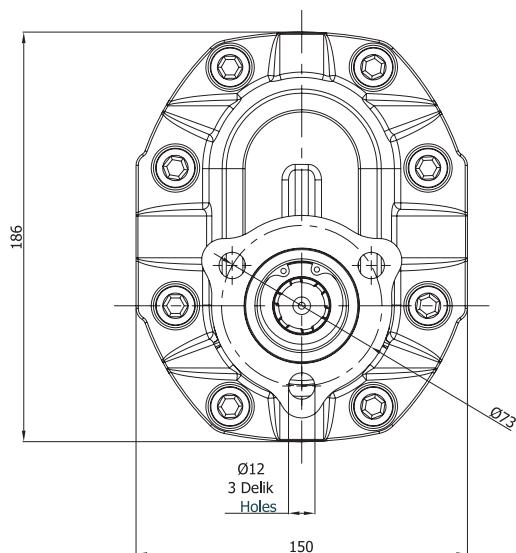
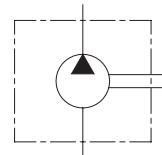
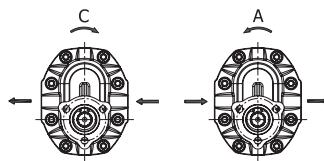


ISO TİPİ
TYPE


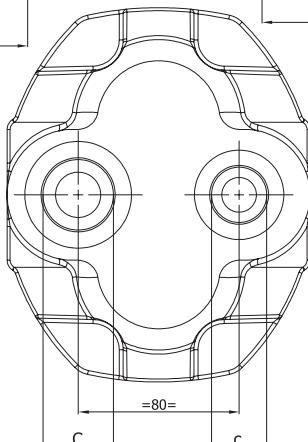
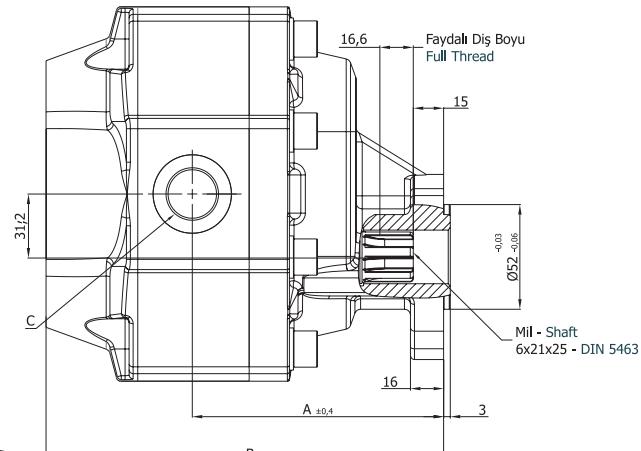
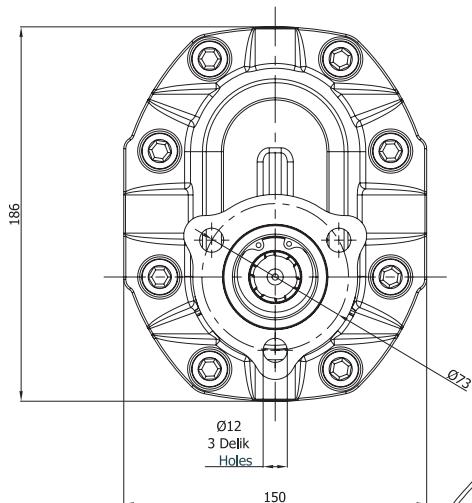
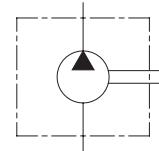
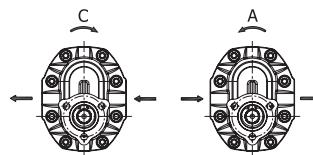
Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A _{±0,4}	B	Giriş – İnlet	Çıkış - Outlet
						C	c
GP40.063.CRM1N	63,8	280	2750	136,3	203,0	G 1"	G 3/4"
GP40.063.ARM1N				137,3	204,6		
GP40.073.CRM1N	72,2	260	2500	141,0	209,6	G 1-1/4"	G 1"
GP40.073.ARM1N				145,0	217,3		
GP40.087.CRM1N	86,1	240	2500	148,0	225,9	G 1-1/2"	
GP40.087.ARM1N	107,3			153,3	232,3		
GP40.109.CRM1N	131,6	220		148,0	225,9		
GP40.109.ARM1N				153,3	232,3		
GP40.133.CRM1N	148,3	180		148,0	225,9		
GP40.133.ARM1N				153,3	232,3		
GP40.151.CRM1N				148,0	225,9		
GP40.151.ARM1N				153,3	232,3		

**ISO TİPİ
TYPE**


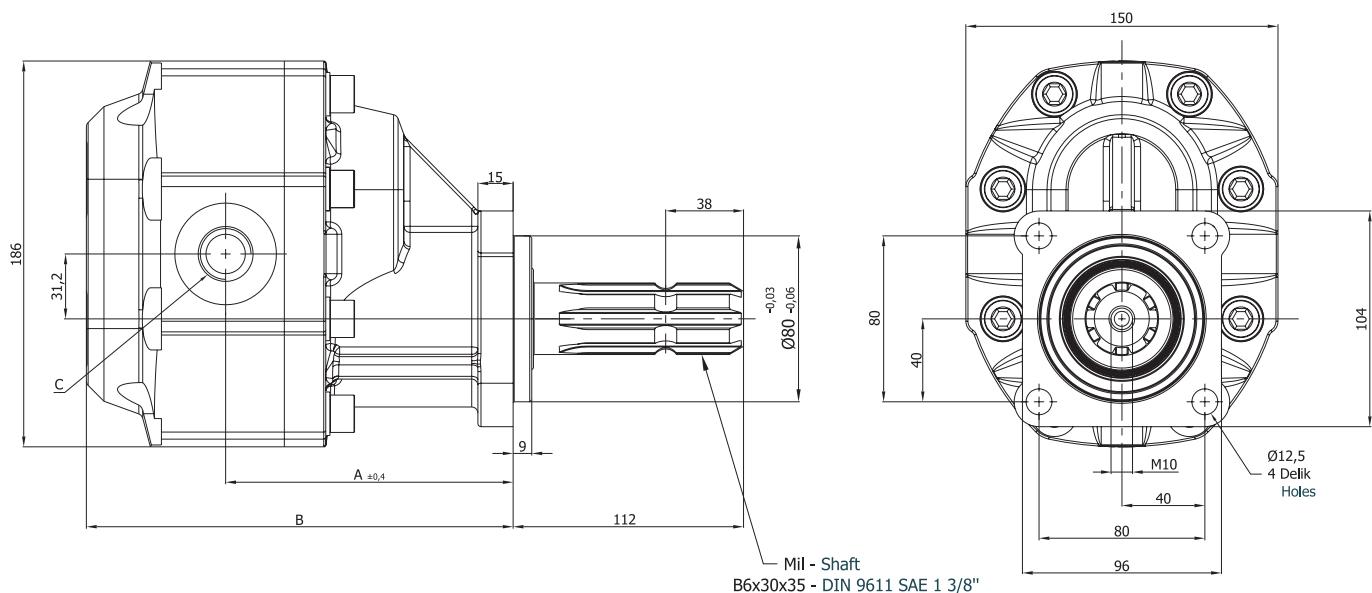
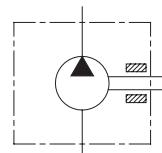
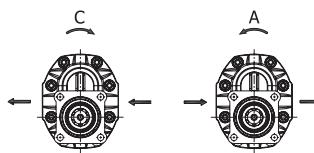
Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş – Inlet	Çıkış - Outlet		
						C	c		
GPR40.063.CRM1N	63,8	280	2750	136,3	208,5	G 1"	G 3/4"		
GPR40.063.ARM1N				137,3	210,0				
GPR40.073.CRM1N	72,2			141,0	214,0	G 1-1/4"	G 1"		
GPR40.073.ARM1N				145,0	221,5				
GPR40.087.CRM1N	86,1	260	2500	148,0	230,5	G 1-1/2"	G 1"		
GPR40.087.ARM1N				153,3	236,5				
GPR40.109.CRM1N	107,3	240							
GPR40.109.ARM1N									
GPR40.133.CRM1N	131,6	220							
GPR40.133.ARM1N									
GPR40.151.CRM1N	148,3	180							
GPR40.151.ARM1N									

UNI TİPİ
TYPE


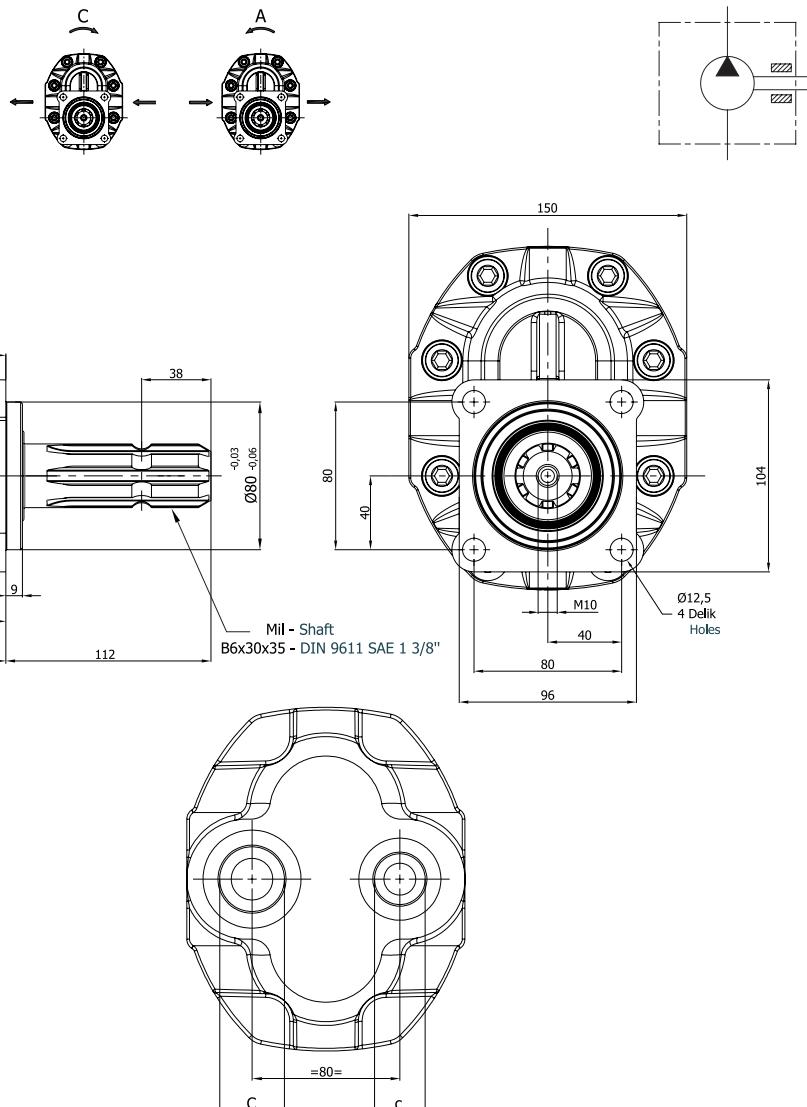
Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş – İnlet	Çıkış - Outlet
						C	C
GP40.063.CST1N	63,8	280	2750	124,0	190,7	G 1"	G 3/4"
GP40.063.AST1N				125,0	192,3		
GP40.073.CST1N	72,2	260	2500	128,7	197,3	G 1-1/4"	G 1"
GP40.073.AST1N				132,7	205,0		
GP40.087.CST1N	86,1	240	2500	135,7	213,6	G 1-1/2"	
GP40.087.AST1N				141,0	220,0		
GP40.109.CST1N	107,3	220	2500				
GP40.109.AST1N							
GP40.133.CST1N	131,6	180	2500				
GP40.133.AST1N							
GP40.151.CST1N	148,3	180	2500				
GP40.151.AST1N							

UNI TİPİ
TYPE

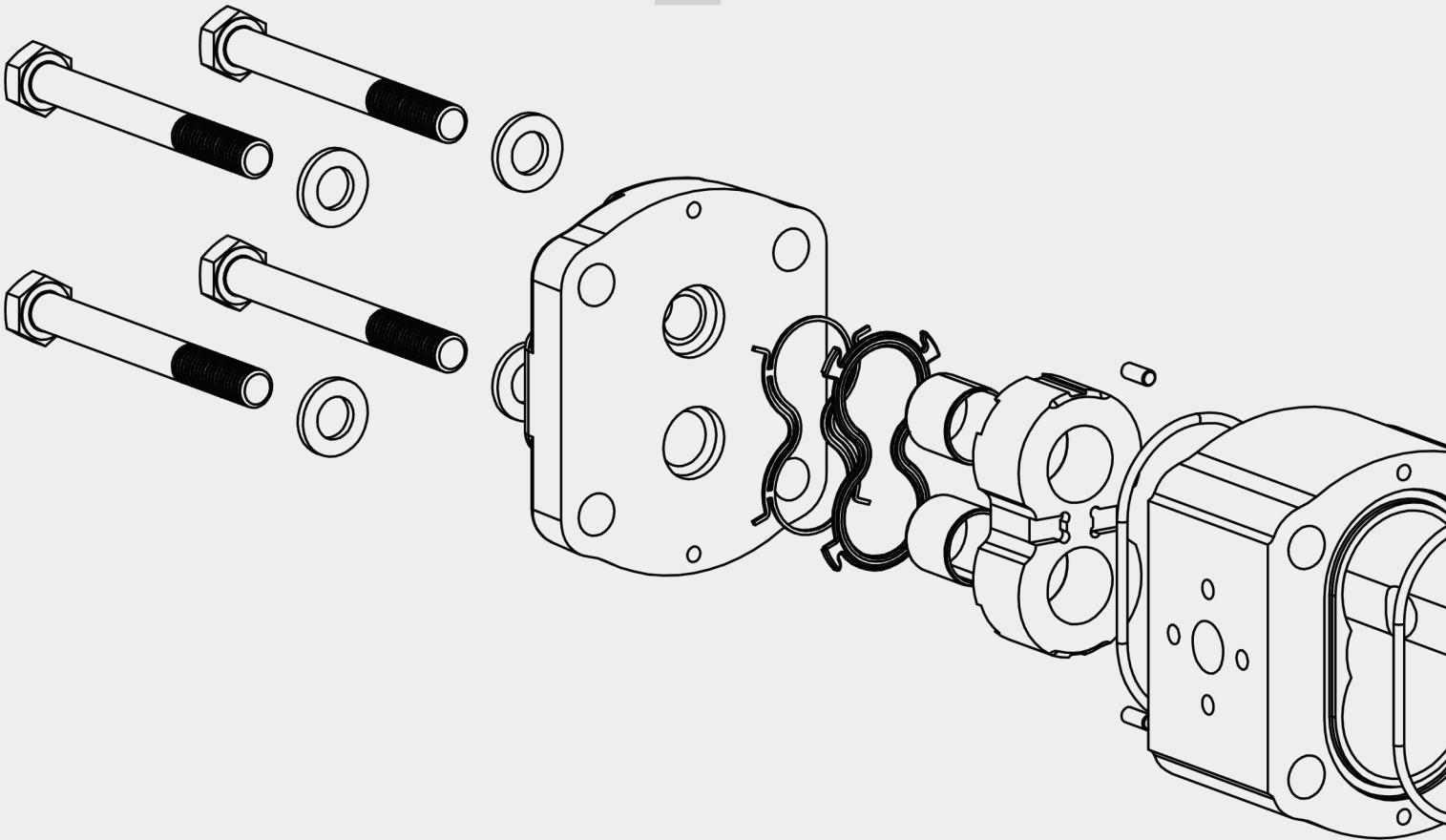
Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş – Inlet	Çıkış - Outlet
						C	c
GPR40.063.CST1N	63,8	280	2750	124,0	196,2	G 1"	G 3/4"
GPR40.063.AST1N				125,0	197,7		
GPR40.073.CST1N	72,2	260	2500	128,7	201,7	G 1-1/4"	G 1"
GPR40.073.AST1N				132,7	209,2		
GPR40.087.CST1N	86,1	240	2500	135,7	218,2	G 1-1/2"	
GPR40.087.AST1N				141,0	224,2		
GPR40.109.CST1N	107,3	220	2500				
GPR40.109.AST1N							
GPR40.133.CST1N	131,6	180	2500				
GPR40.133.AST1N							
GPR40.151.CST1N	148,3	180	2500				
GPR40.151.AST1N							

**SAE TİPİ
TYPE**


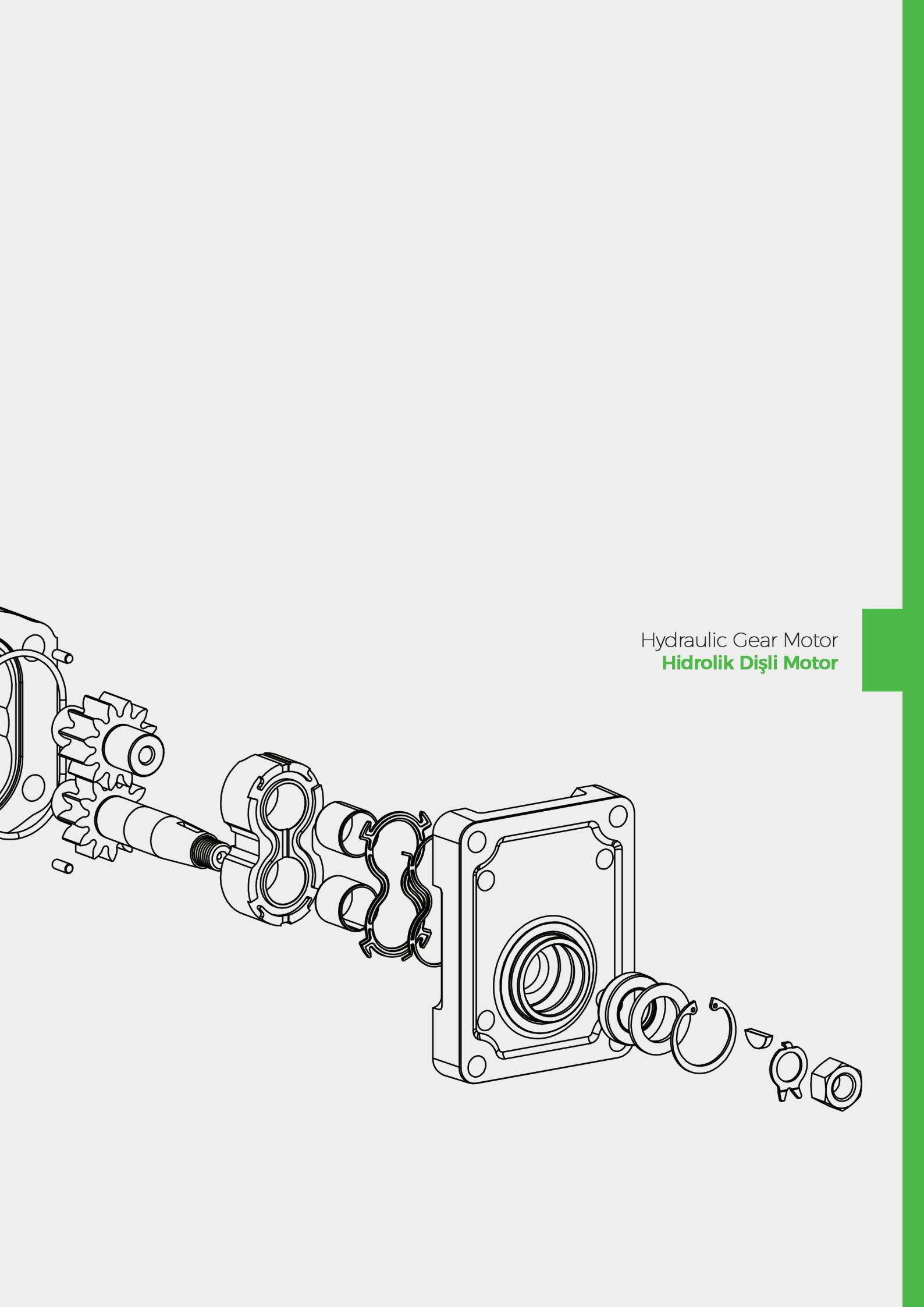
Pompa Tipi Pump Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş – İnlet		Çıkış - Outlet c
						C	c	
GP40.063.CRS2N	63,8	280	2750	136,3	203,0	G 1"	G 3/4"	
GP40.063.ARS2N				137,3	204,6			
GP40.073.CRS2N	72,2	260	2500	141,0	209,6	G 1-1/4"	G 1"	
GP40.073.ARS2N				145,0	217,3			
GP40.087.CRS2N	86,1	240	2500	148,0	225,9	G 1-1/2"	G 1"	
GP40.087.ARS2N				153,3	232,3			
GP40.109.CRS2N	107,3	220	2500	148,0	225,9	G 1-1/2"	G 1"	
GP40.109.ARS2N				153,3	232,3			
GP40.133.CRS2N	131,6	180	2500	148,0	225,9	G 1-1/2"	G 1"	
GP40.133.ARS2N				153,3	232,3			
GP40.151.CRS2N	148,3	180	2500	148,0	225,9	G 1-1/2"	G 1"	
GP40.151.ARS2N				153,3	232,3			

SAE TİPİ
TYPE

Pompa Tipi Pump 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
GPR40.063.CRS2N	63,8	280	2750	136,3	208,5	G 1"	G 3/4"
GPR40.063.ARS2N				137,3	210,0		
GPR40.073.CRS2N	72,2	260	2500	141,0	214,0	G 1-1/4"	G 1"
GPR40.073.ARS2N				145,0	221,5		
GPR40.087.CRS2N	86,1	240	2500	148,0	230,5	G 1-1/2"	
GPR40.087.ARS2N				153,3	236,5		
GPR40.109.CRS2N	107,3	220	2500				
GPR40.109.ARS2N							
GPR40.133.CRS2N	131,6	180	2500				
GPR40.133.ARS2N							
GPR40.151.CRS2N	148,3	180	2500				
GPR40.151.ARS2N							



HYDRAULIC GEAR MOTOR



Hydraulic Gear Motor
Hidrolik Dişli Motor

A technical line drawing of a hydraulic gear motor. The assembly consists of a cylindrical housing on the left containing gears, a central shaft with a bearing housing, and a rectangular motor housing on the right. Various mechanical components like bearings, seals, and a lock nut are shown disassembled around the main body.

1. GENEL BİLGİLER

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

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 basınçla bağlı olarak kuvvetler elde edilir ve bu optimum verimliliği sağlar.

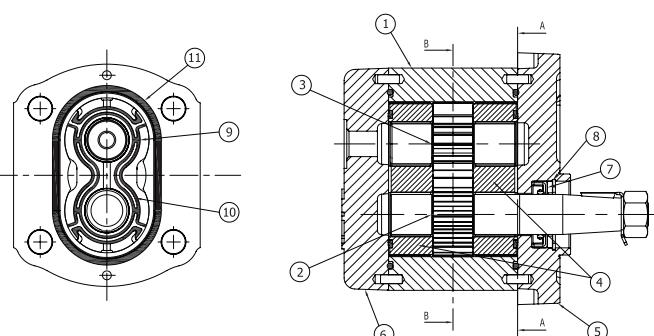
Aksi belirtildikçe, keçeleri yüksek çekme mukavemetine ve sıcaklığı dayanıklı nitril kauçuk (NBR) olmalıdır. İstenilmesi durumunda viton keçeler kullanılmalıdır.

1. GENERAL INFORMATION

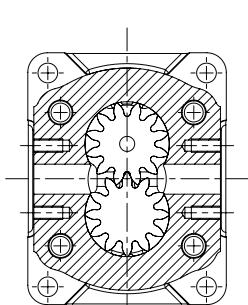
Blue Ascend external gear motors are built in three main pieces with an in high resistance aluminium alloy extruded /cast iron body. These external gear motors are widely used in modern hydraulic systems due to their long service life and high performance. Blue Ascend external gear pumps are available 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

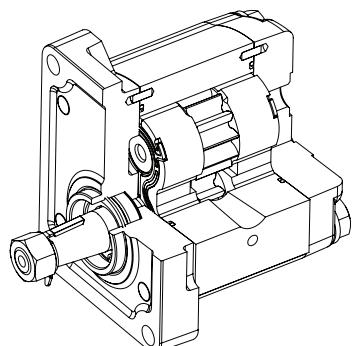
The external gear motor consists of an aluminium/cast iron body, a pair of gears supported in bearing bushings and a front and a rear cover. The drive shaft protrudes from the front cover where it is sealed by the shaft seal ring. The bearing forces are absorbed by special bearing bushings with sufficient 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 nitrile 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 bakıldığından ve tahrik eden dişli aşağıya gelecek şekilde motor dönüş yönü belirlenir.(şekillere bakınız).

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

Sol dönen 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.

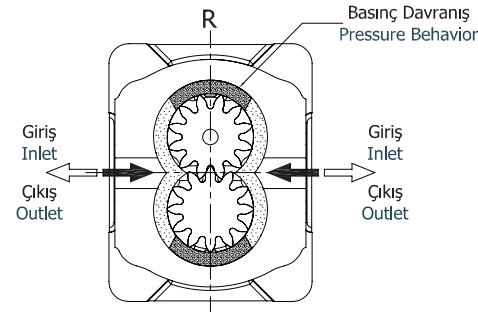
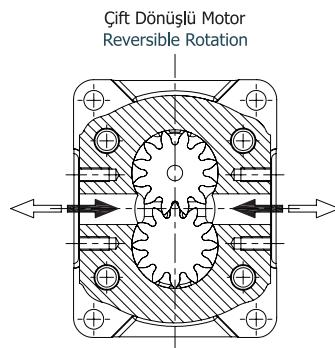
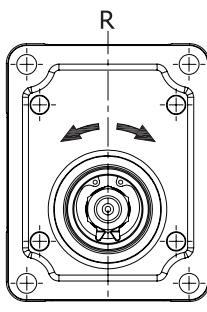
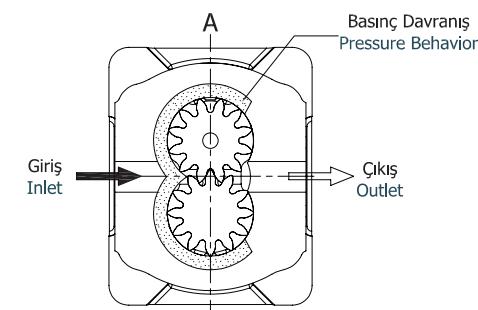
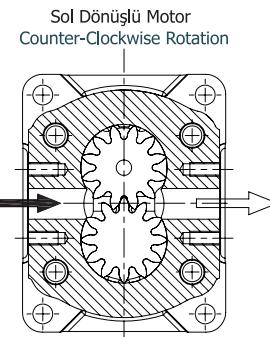
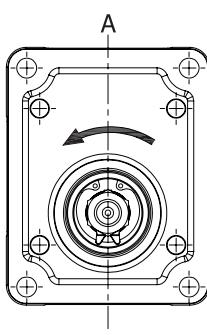
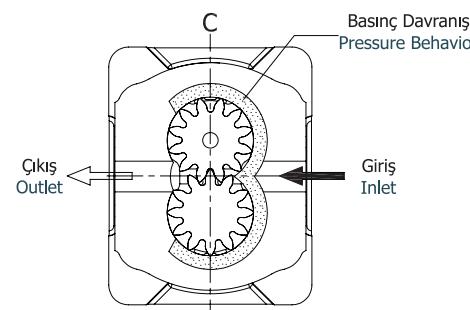
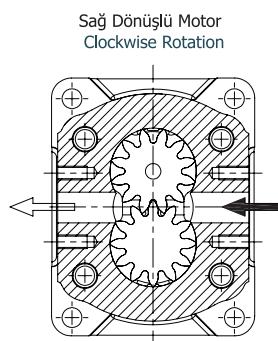
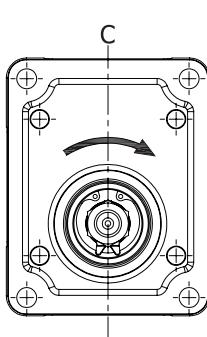
3. MOTOR DIRECTION OF ROTATIONS

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 civata ve merkezleme çapı ile basit olarak ön kapaktan bağlanırlar. Merkezleme çapının oturacağı yuvanın kullanıcı tarafından yapılacak kısmda 1x45o pah kırılarak kaygan geçme toleranslarında işlenmesi, motorun yerine daha hassas geçmesini sağlar. En az titreşim için, riyit 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 pompa dönüştürülebilir. 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 dizaynlarından 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 şaft keçesi tarafından sınırlıdır 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 vasıtasyyla sınırlanmalıdır. 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

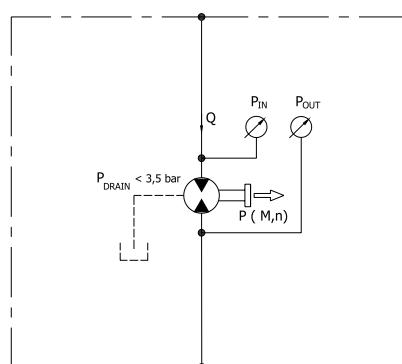
The motors has the inverted working principle with the pumps. Hydraulic motors can become a pump if reverse load occurs. Unidirectional motors has asymmetric balancing seals whereas reversible motors have symmetric balancing seals which allow both port to be; alternatively, as inlet high-pressure and 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;

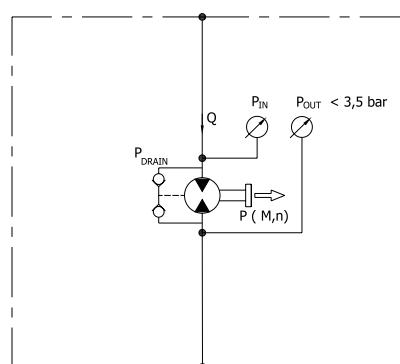
The outlet low pressure side loads the back side of the oil retaining shaft seal, a dedicated steel ring for supporting it, is adopted. Leakage oil is discharged internally to the outlet side. The maximum outlet low-pressure value is limited by the shaft seal and must not exceed 3,5 bar.

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. FILTRASYON

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 yağı kullanılması tavsiye edilir. Tavsiye edilen viskozite aralığı 20/120 (cSt) ve 700 (cSt)'ye kadar müsade edilebilir.

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. 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.

8. OPERATION TEMPERATURE

* Operation for NBR seals between 0 °C and +80 °C continuously, and between -20 °C and +100 °C intermittent,

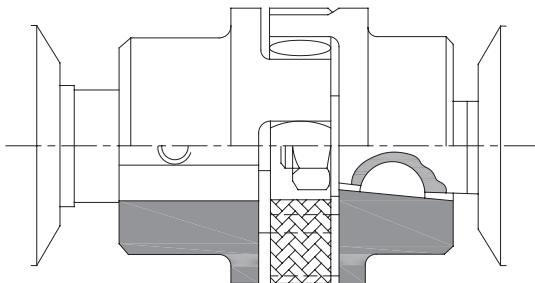
* For viton seals between 0 °C and + 100 °C continuously and between -20 °C and + 120 °C intermittent.

9. TAHİRİK ŞEKİLLERİ

Elastik kaplinler radyal ve eksenel yük taşımazlar. Eksenel ve radial 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).



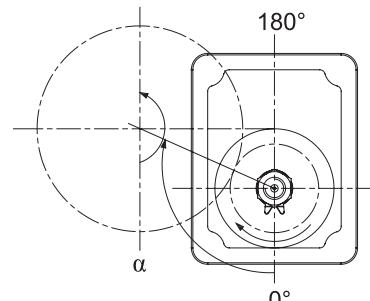
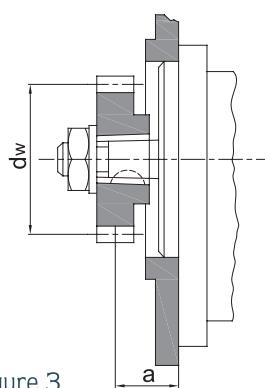
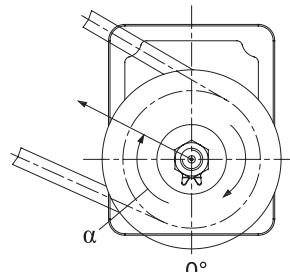
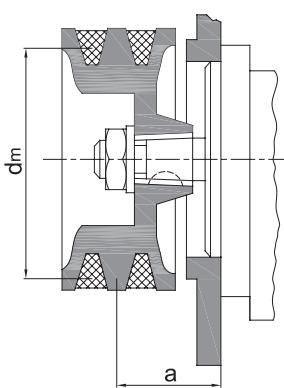
Şekil 2 - Figure 2

10. ÖN YATAKSIZ, KAYIŞ VE DİŞLİ İLE TAHİRİK

V kayışı veya dış tahrirk dişli ile motor tahriri 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.



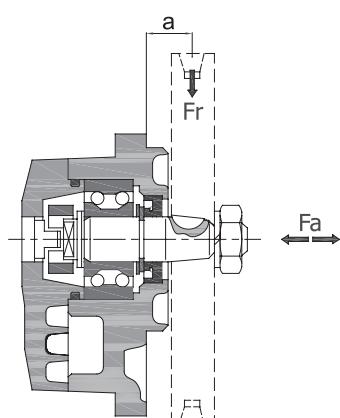
Şekil 3 - Figure 3

11. ÖN YATAK

Ön yataksız motorların V kayışı ve dış dişli ile tahrirk edildiği zaman, çicablecek 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.

12. CALCULATION THE SPECIFICATION OF A GEAR MOTOR

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

$V(\text{cm}^3 / \text{dev})$: İletim Hacmi

$V(\text{cm}^3 / \text{rev})$: Displacement

$Q(\text{l/dak})$: Debi

$Q(\text{l/min})$: Flow Range

$\Delta P(\text{bar})$: Basınç

$\Delta P(\text{bar})$: Pressure

$M(\text{Nm})$: Döndürme Torku

$M(\text{Nm})$: Drive Torque

$n(d/d)$: Hız

$n(\text{rpm})$: Speed

$N(\text{kw})$: Güç

$N(\text{kw})$: Power

$\eta v(%)$: Volumetrik Verim

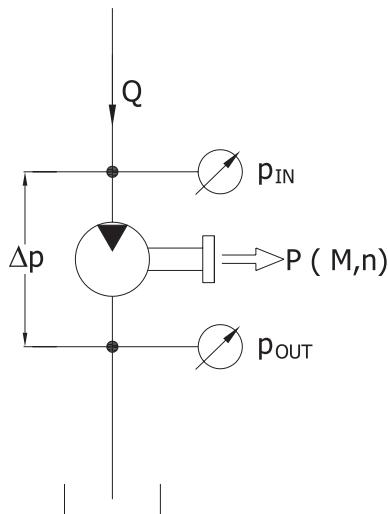
$\eta v(%)$: Volumetric Efficiency

$\eta m(%)$: Mekanik Verim

$\eta m(%)$: Mechanical Efficiency

$\eta t(%)$: Toplam Verim

$\eta t(%)$: Total Efficiency

**FORMÜLLER
FORMULAS**


$$Q = \frac{V \cdot n}{1000 \cdot \eta v}$$

$$N = \frac{Q \cdot \Delta P \cdot \eta t}{600}$$

$$M = \frac{V \cdot \Delta P \cdot \eta m}{20 \cdot \pi}$$

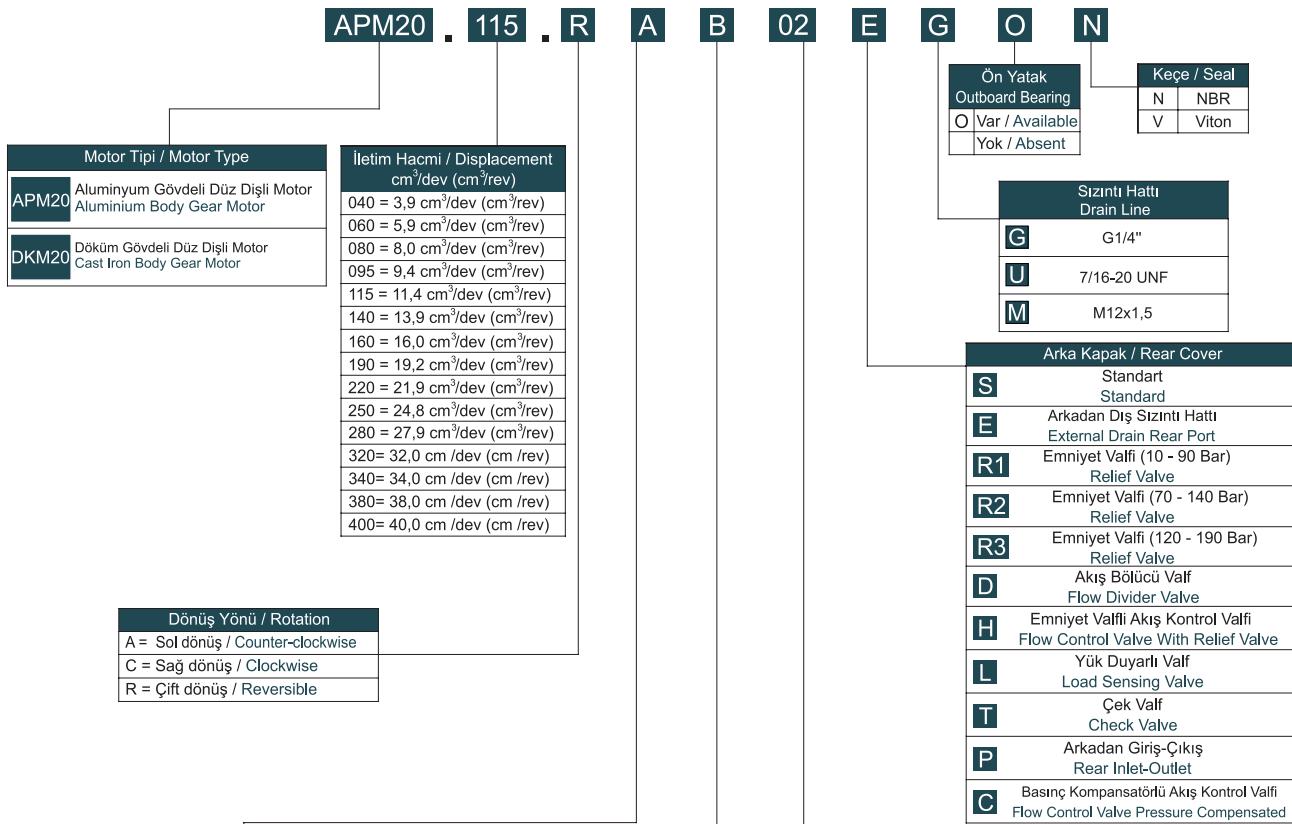
$$\eta t = \eta m \cdot \eta v$$

Tavsiye Edilen Verim
Recommended Efficiency

$$\eta v = \%95$$

$$\eta m = \%87 - \%90$$

$$\eta t = \%82$$

GRUP 20 MOTORLARIN KODLAMA SİSTEMİ
ORDERING CODE OF GROUP 20 MOTORS


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 - Kamallı Tapered key shaft	1:5	B E G
B Konik - Kamallı 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 - Kamallı Tapered key shaft	1:5	H
L Konik - Kamallı Tapered key shaft	1:5	G
M SAE spline şaft J498 10 diş SAE spline shaft 16/32 DP 10T		D
N Konik - Kamallı 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 cc³/dev. 'den 40 cc³/rev. 'e kadar ki iletim hacmine sahip motorlardır. Kendi içinde APM20,DKM20 olarak 2 grubu ayrılr. 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 cc³/rev to 40 cc³/rev. It has 2 sub-groups in itself as APM20, D KM20. 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 basıncı¹
Intermittent pressure

P3 : Ani basınç
Peak pressure

DKM20 TEKNİK ÖZELLİKLER / D KM20 TECHNICAL DATA

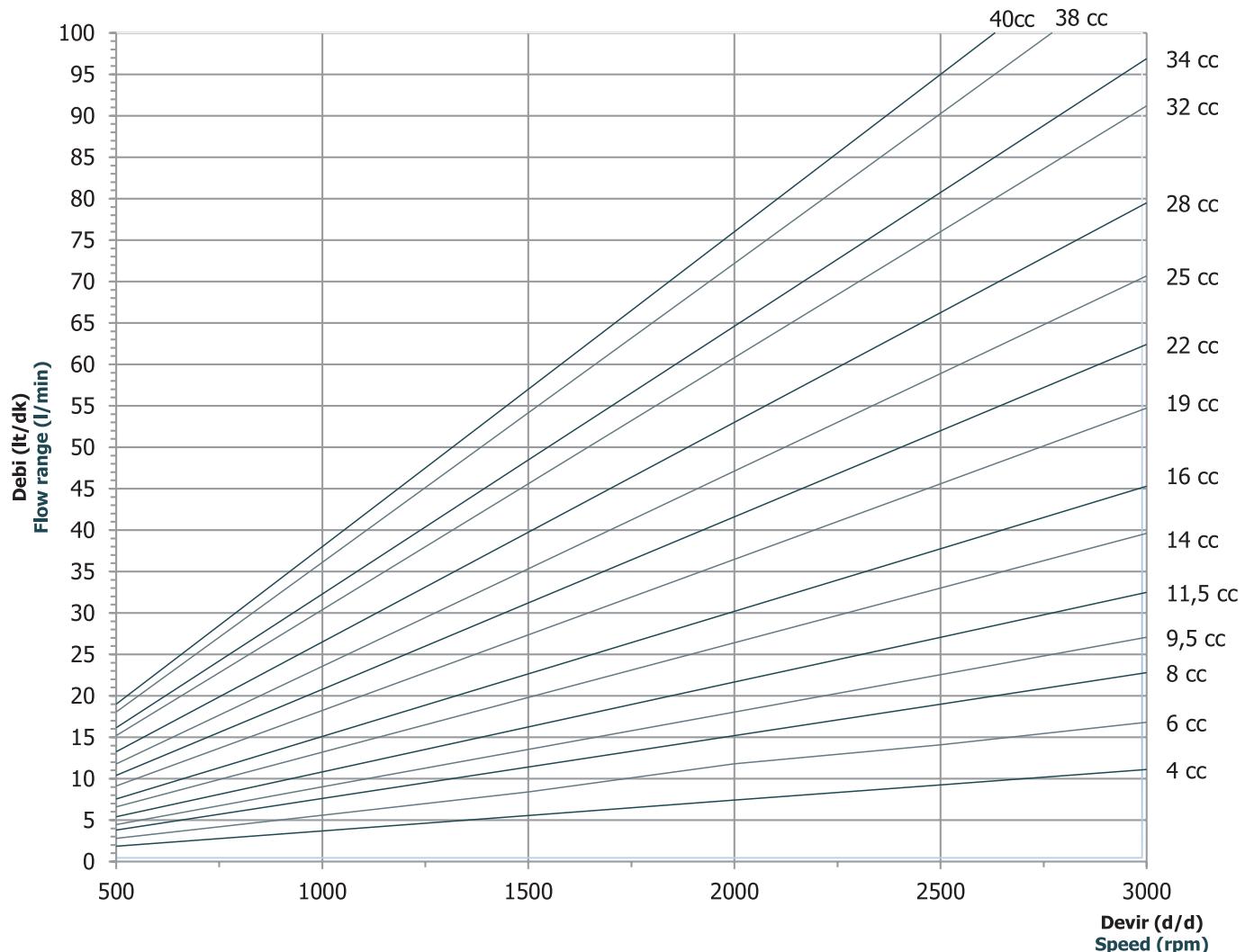
Motor Tipi Motor Type	İletim Hacmi Displacement cm ³ /dev(cm ³ /rev)	Maks. Basınç / Max. Pressure			Maks. Hız Max. Speed	Min. Hız Min. Speed
		P1	P2	P3		
		bar			d/d (rpm)	
DKM20.040	3,9	280	300	320	3500	650
DKM20.060	5,9	280	300	320	3500	650
DKM20.080	8,0	280	300	320	3500	650
DKM20.095	9,4	280	300	320	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

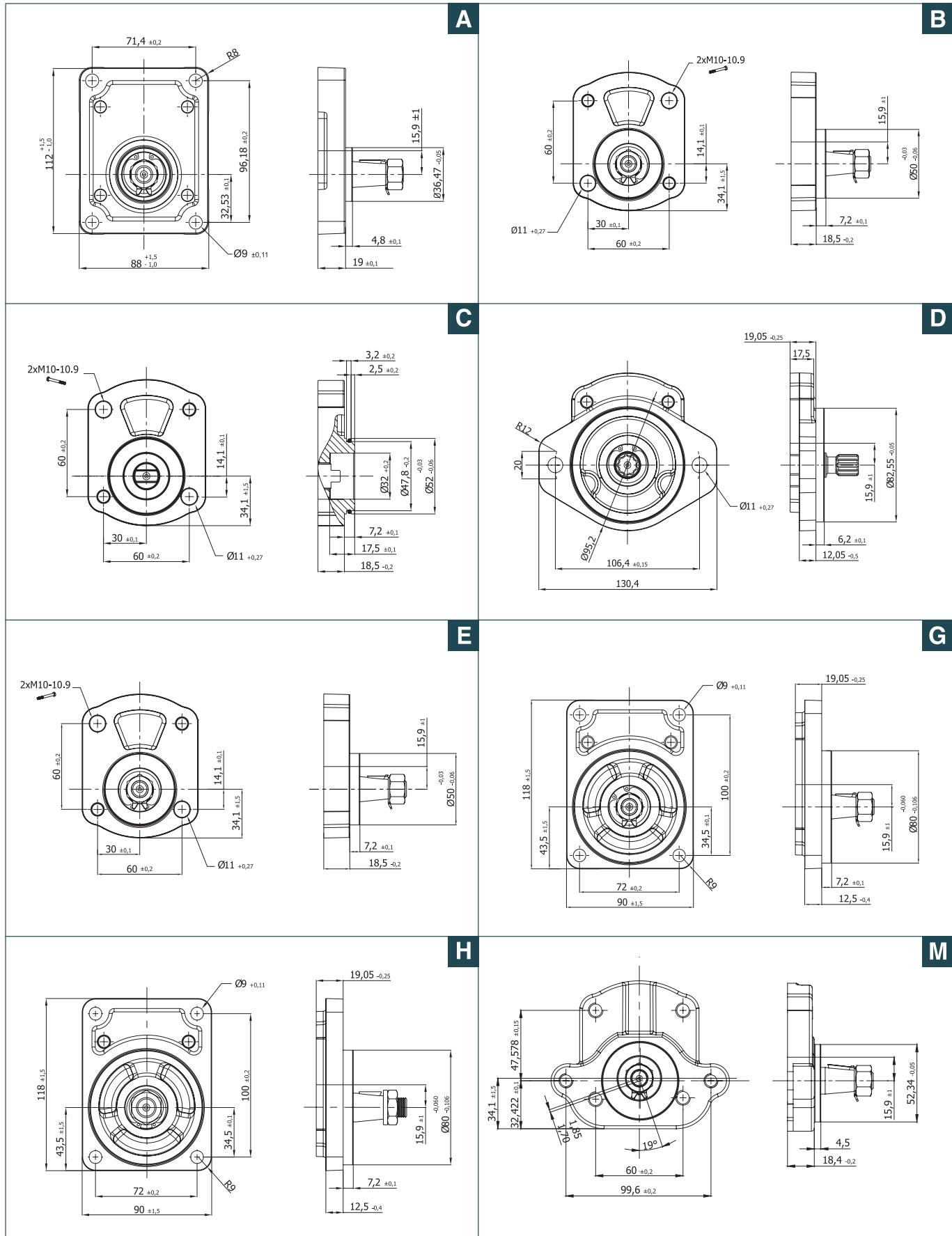
P1: Sürekli çalışma basıncı
Continuous pressure

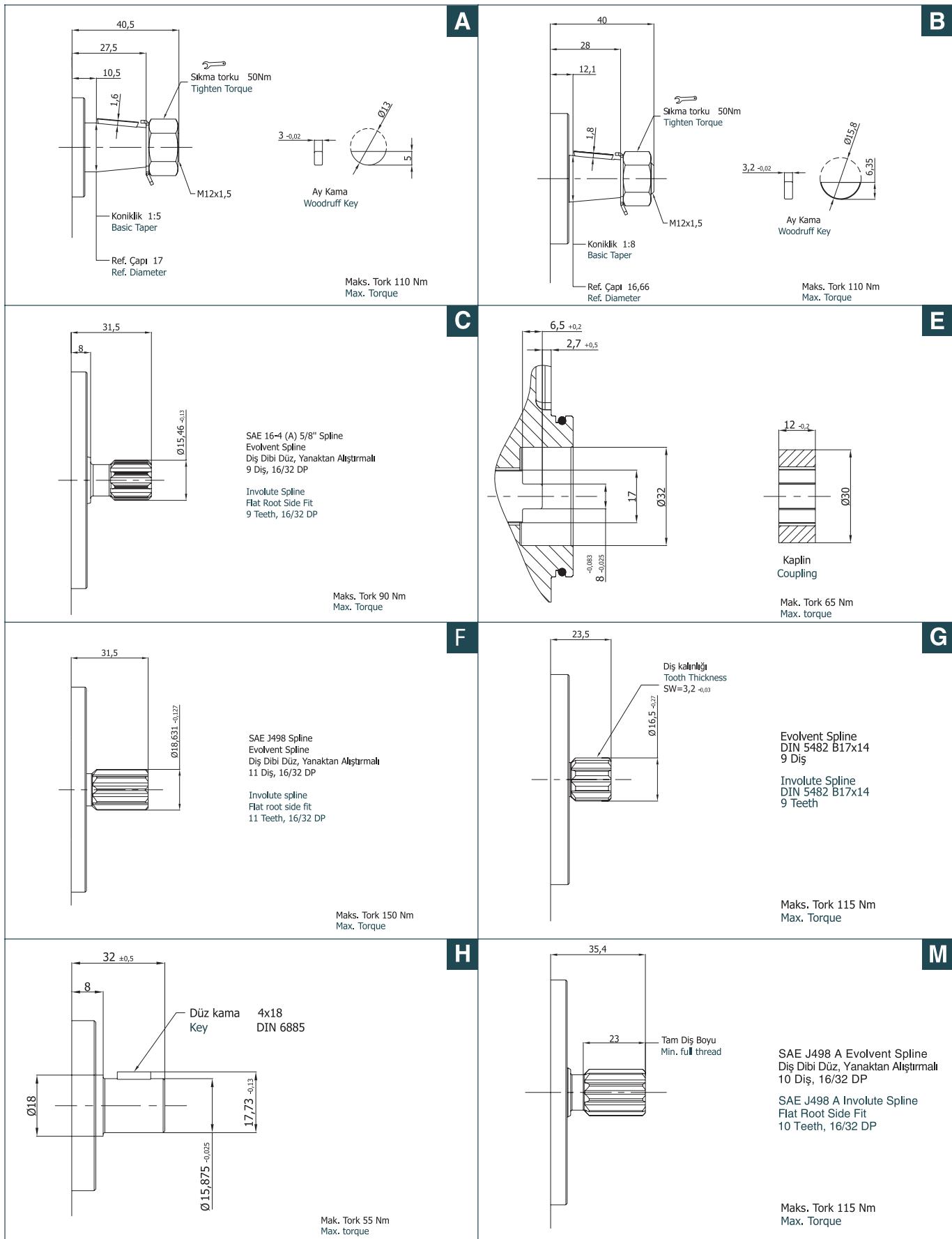
P2 : Aralıklı çalışma basıncı¹
Intermittent pressure

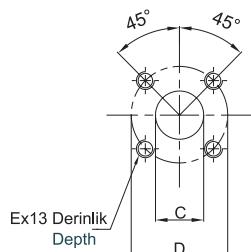
P3 : Ani basınç
Peak pressure

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



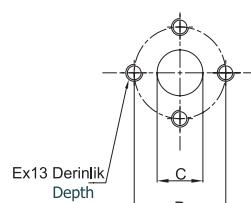






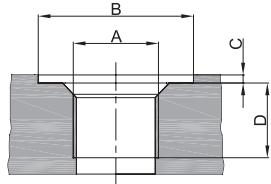
01 Kare Tipi Flanş
Rectangular Flange

Sipariş Kodu Ordering Code	İletim Hacmi Displacement cm³/dev (rev)	Emiş Taraflı Suction Side			Basınç Taraflı 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	



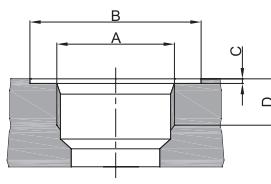
02 Baklava Tipi Flanş
Diamond Flange

Sipariş Kodu Ordering Code	İletim Hacmi Displacement cm³/dev (rev)	Emiş Taraflı Suction Side			Basınç Taraflı 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			20	40	M8
	28 - 40						
	4 - 16	13,5	30,2	M6	13,5	30,2	M6
	19 - 40	20	40		20	40	



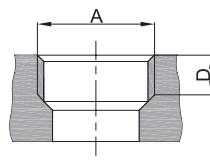
03 Metrik diş / Thread, Oring Boss
Metric ISO 6149 With Seal Ring

Sipariş Kodu Ordering Code	İletim Hacmi Displacement cm³/dev (rev)	Emiş Taraflı Suction Side				Basınç Taraflı 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		19	M22x1,5	35		19
	19 - 40	M26x1,5	40			M26x1,5	40		



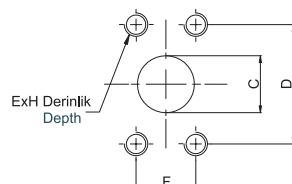
04 Diş / Thread
(UNF-2B) SAE Oring Boss

Sipariş Kodu Ordering Code	İletim Hacmi Displacement cm³/dev (rev)	Emiş Taraflı Suction Side				Basınç Taraflı 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		16	7/8-14 UNF-2B	35		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

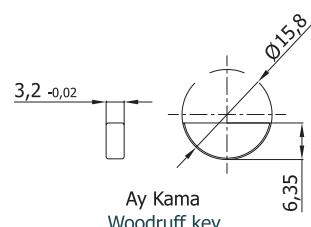
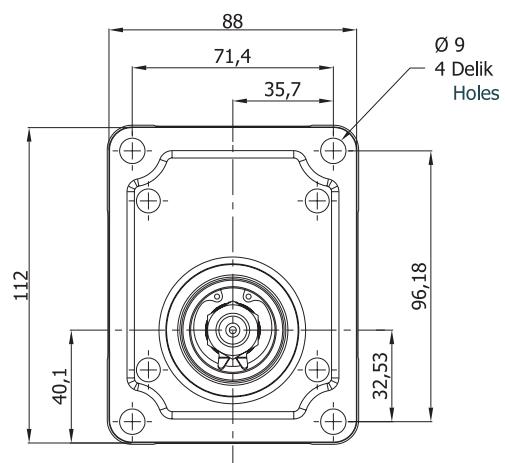
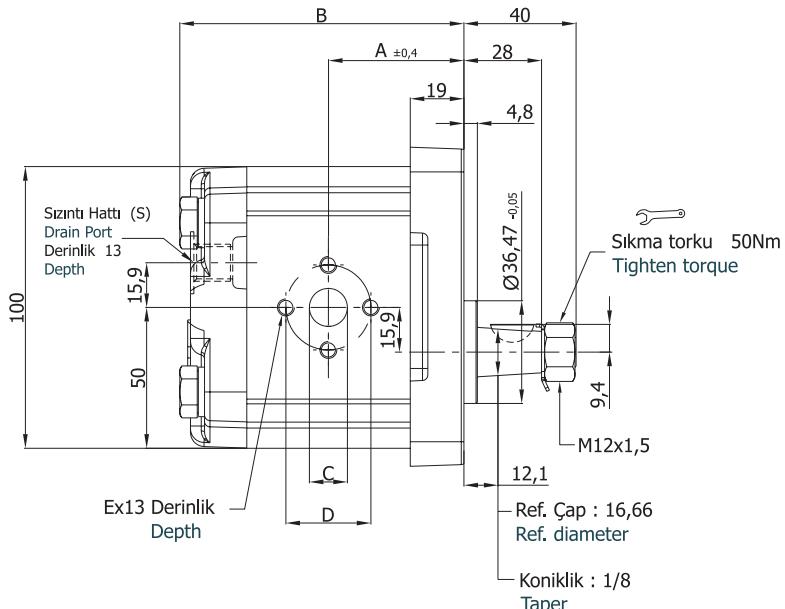
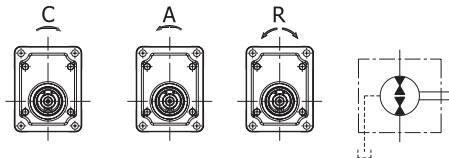
Sipariş Kodu Ordering Code	İletim Hacmi Displacement cm³/dev (rev)	Emiş Taraflı Suction Side		Basınç Taraflı Pressure Side	
		A	D	A	D
	4 - 16	G 3/4	16	G 1/2	16
	19 - 40	G 1		G 3/4	
	4 - 16	G 1/2	16	G 1/2	16
	19 - 40	G 3/4		G 3/4	16



06 SAE Dikdörtgen Flanş Metrik Diş
SAE Square Flange Metric Thread

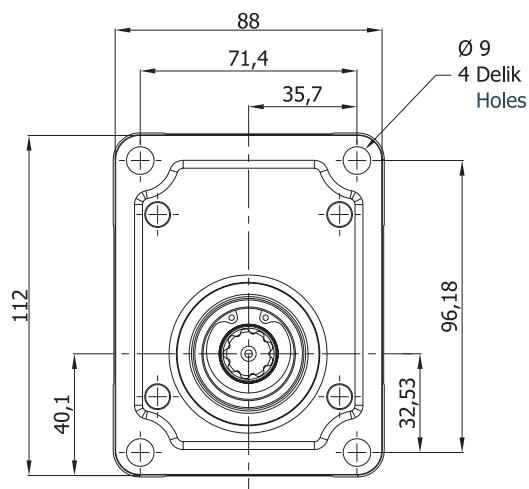
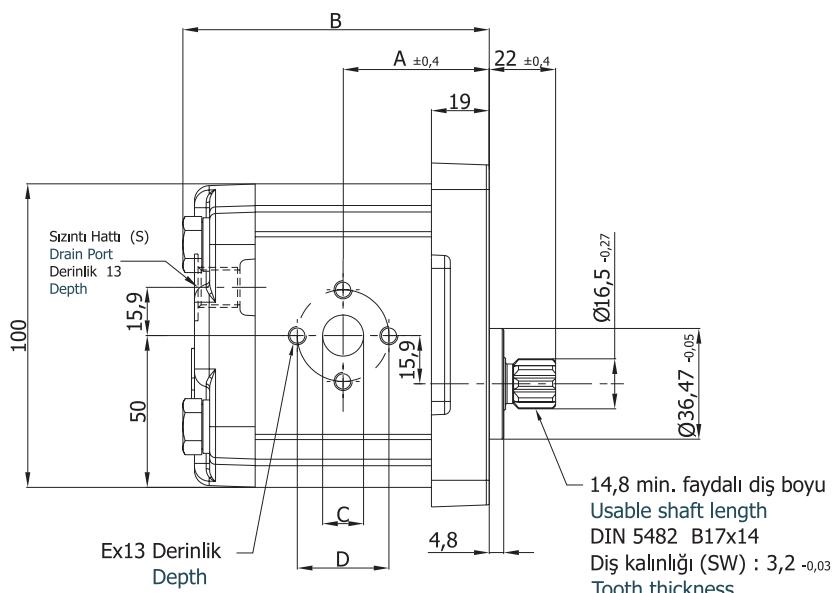
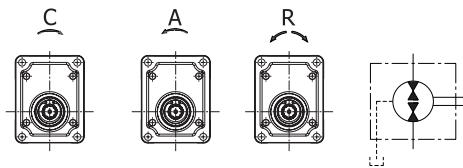
Sipariş Kodu Ordering Code	İletim Hacmi Displacement cm³/dev (rev)	Emiş Taraflı Suction Side					Basınç Taraflı Pressure Side					
		C	D	E	F	H	c	d	e	f	h	
	4 - 11,5	12	38,1	M8	17,5	13	12	38,1	M8	17,5	13	
	14 - 19	20	47,6	M10	22,2	16						
	22 - 40	26	52,4		26,2	20		47,6	M10	22,2		
	4 - 11,5	12	38,1	M8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

A Ön Kapak
Front Cover

B Şaft Tipi
Shaft Type


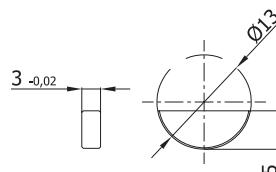
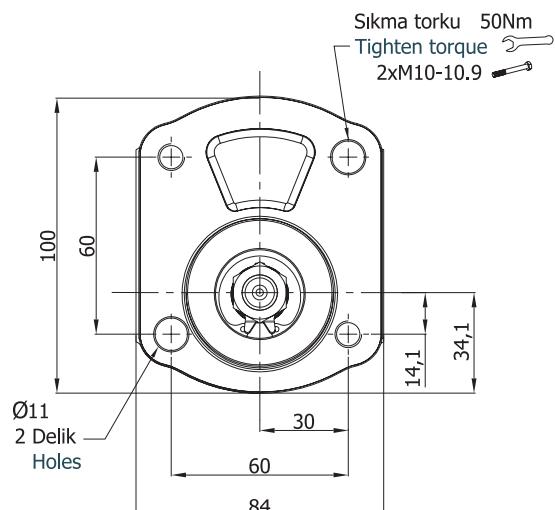
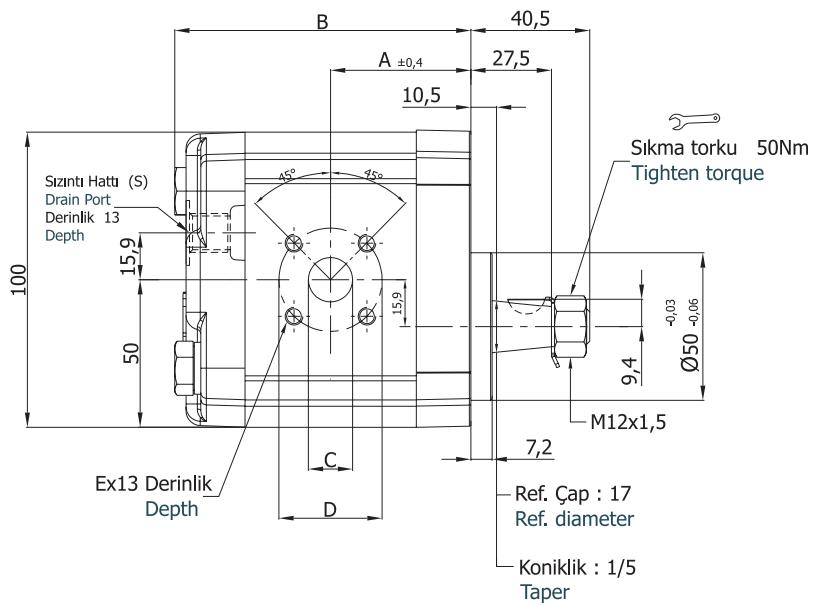
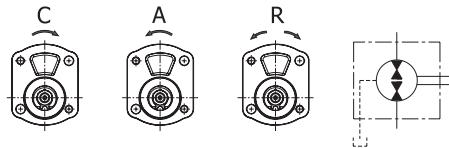
Motor Tipi Motor Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş/Çıkış – Inlet/Outlet			Sızıntı - Drain	
						C	D	E		
APM20.040.RAB02EGN	3,9	250	3500	42,2	89,3	13,5	30,2	M6	G1/4	
APM20.060.RAB02EGN	5,9			43,8	92,4					
APM20.080.RAB02EGN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

A Ön Kapak
Front Cover

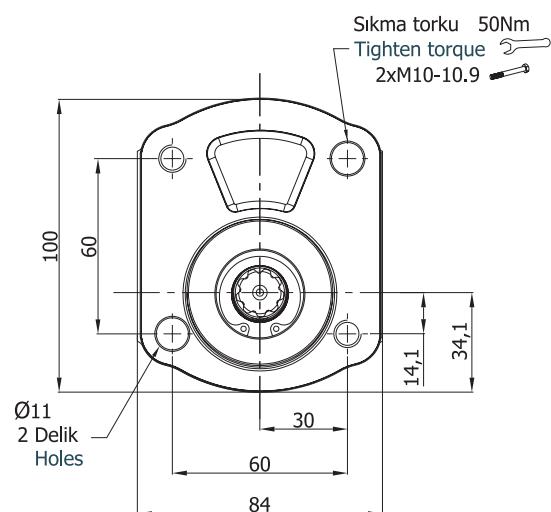
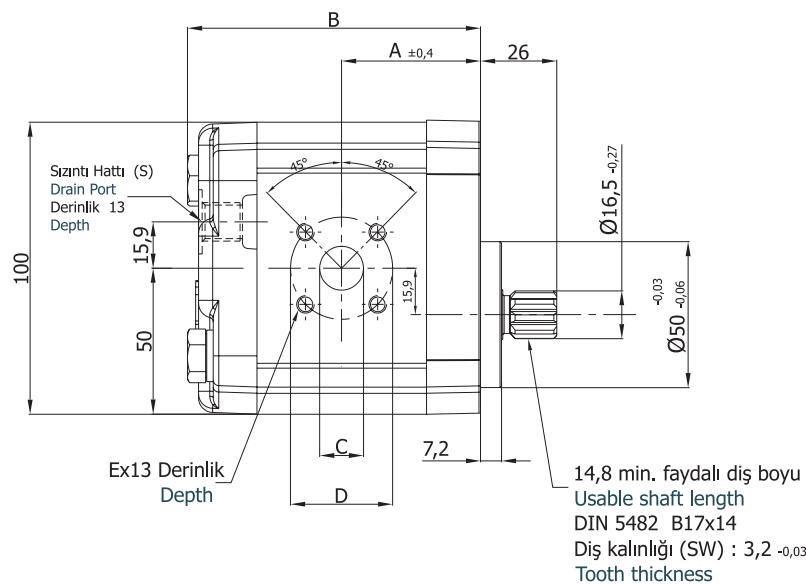
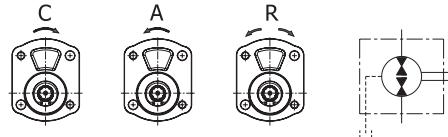
G Şaft Tipi
Shaft Type


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 S	
						C	D	E		
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	20	40	M8		
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					
APM20.220.RAG02EGN	21,9	210	2500	62,3	129,5					
APM20.250.RAG02EGN	24,8			64,8	134,6					
APM20.280.RAG02EGN	27,9			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

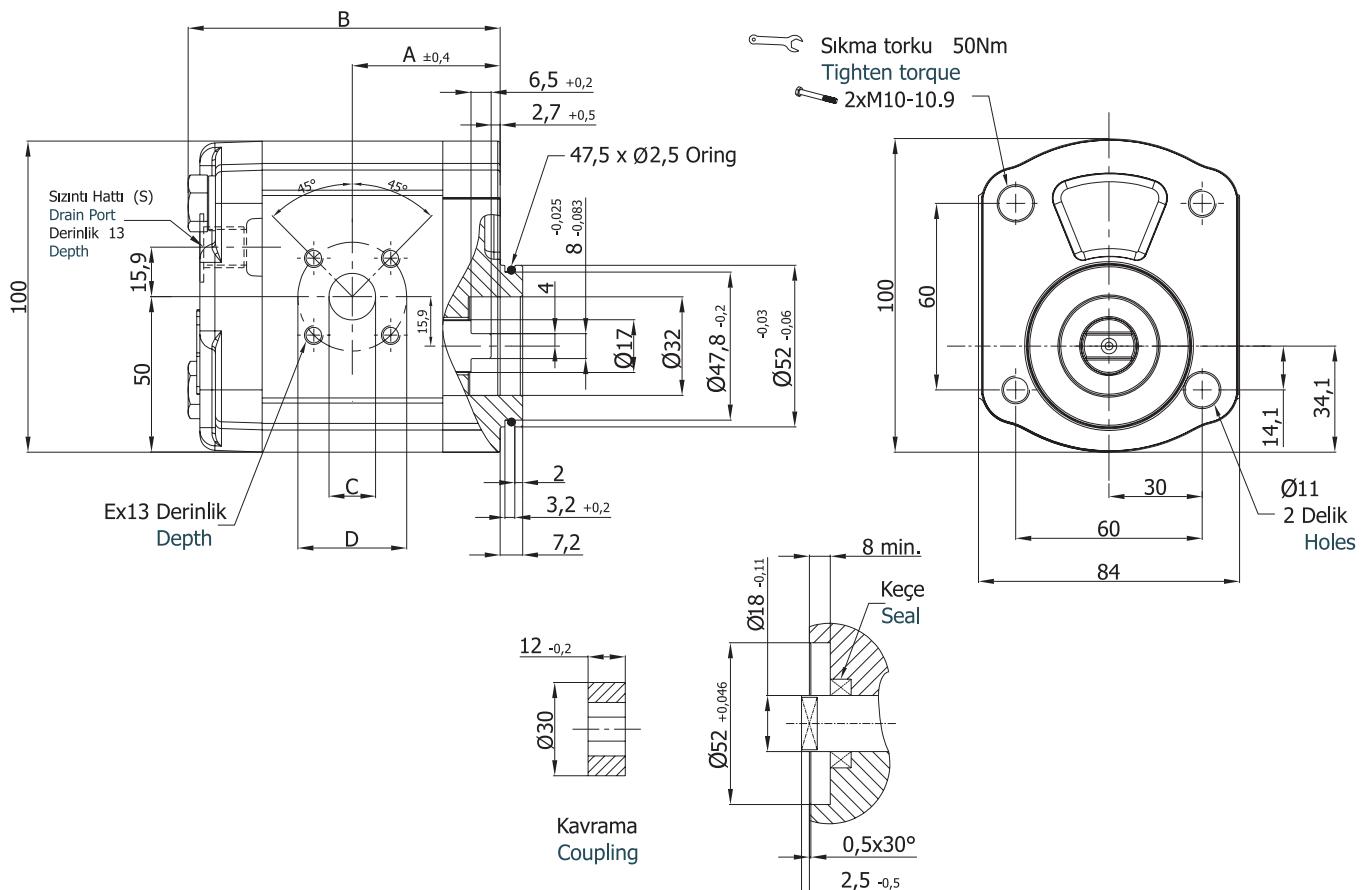
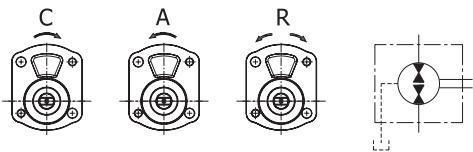
A Şaft Tipi
Shaft Type

Ay Kama
Woodruff key

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 S			
						C	D	E				
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	20	40					
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							
APM20.220.RBA01EMN	21,9	210	2500	61,7	128,9	20	40					
APM20.250.RBA01EMN	24,8			64,2	134,0							
APM20.280.RBA01EMN	27,9	170	2200	66,4	138,3							
APM20.320.RBA01EMN	32,0	160		70,0	144,4							
APM20.340.RBA01EMN	34,0	150	2000	71,5	147,4							
APM20.380.RBA01EMN	38,0	140		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 cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş/Çıkış – İnlet/Outlet			Sızıntı - Drain S		
						C	D	E			
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						
APM20.220.RBG01EMN	21,9	210	2500	61,7	128,9	20	40				
APM20.250.RBG01EMN	24,8			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						

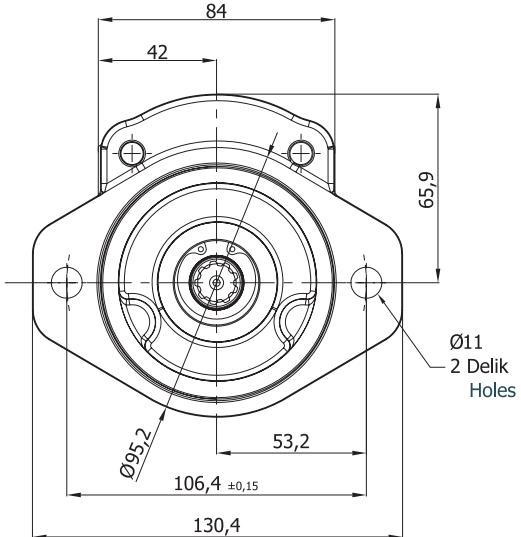
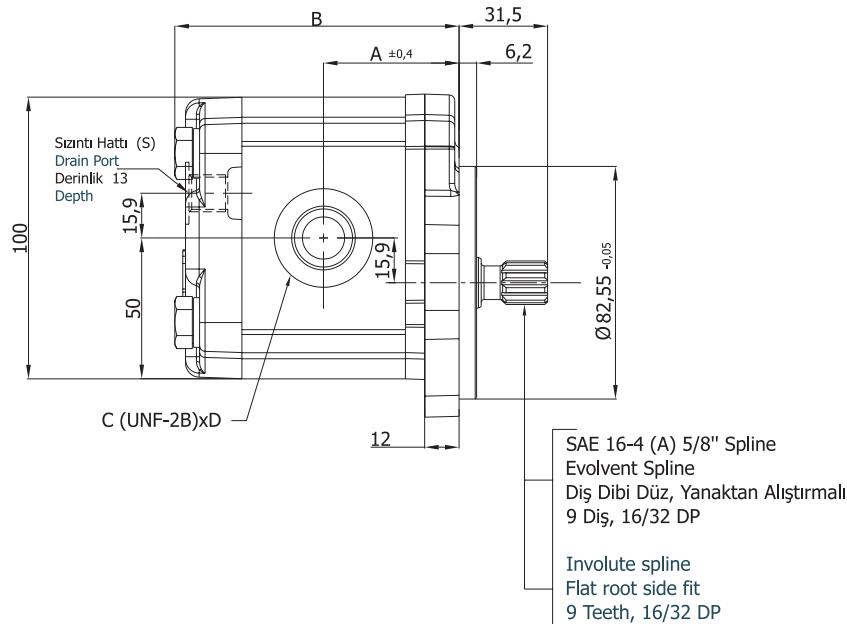
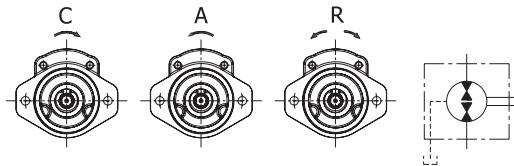
C Ön Kapak
Front Cover

E Şaft Tipi
Shaft Type


Motor Tipi Motor Type	İletim Hacmi Displacement $\text{cm}^3/\text{dev}(\text{cm}^3/\text{rev})$	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	$A \pm 0,4$	B	Giriş/Cıkış – Inlet/Outlet			Sızıntı - Drain S		
						C	D	E			
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	20	40				
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						
APM20.220.RCE01EMN	21,9		2500	61,7	128,9						
APM20.250.RCE01EMN	24,8			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

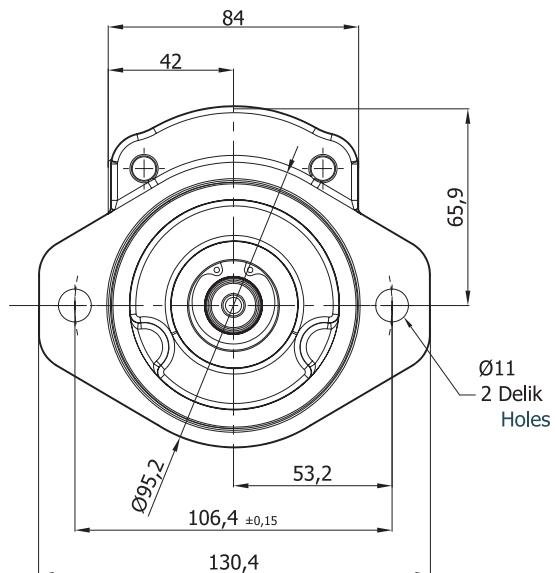
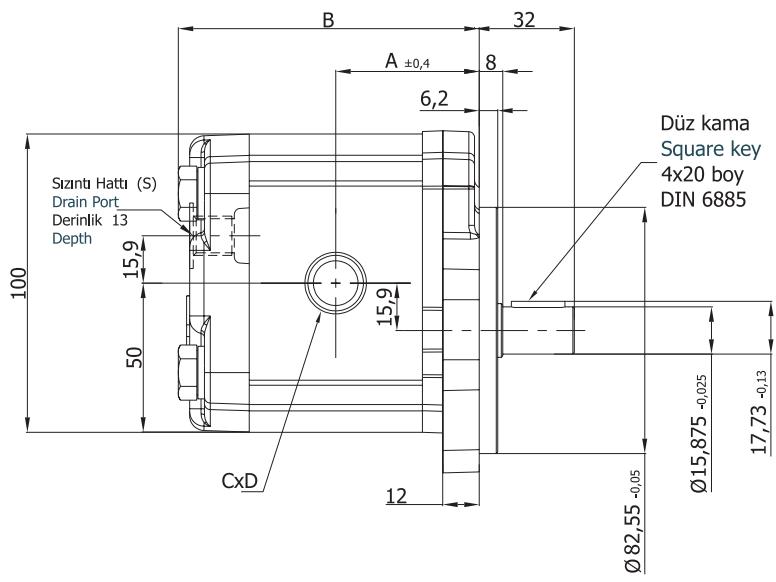
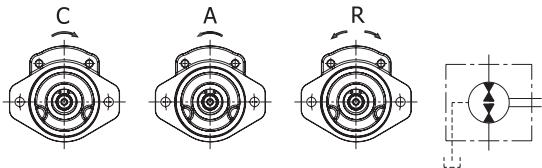
C Şafat Tipi Shaft Type



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	
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			
APM20.220.RDC04EUN	21,9	210	2500	62,3	129,5	1 1/16-12 UNF	20	7/16-20 UNF
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			

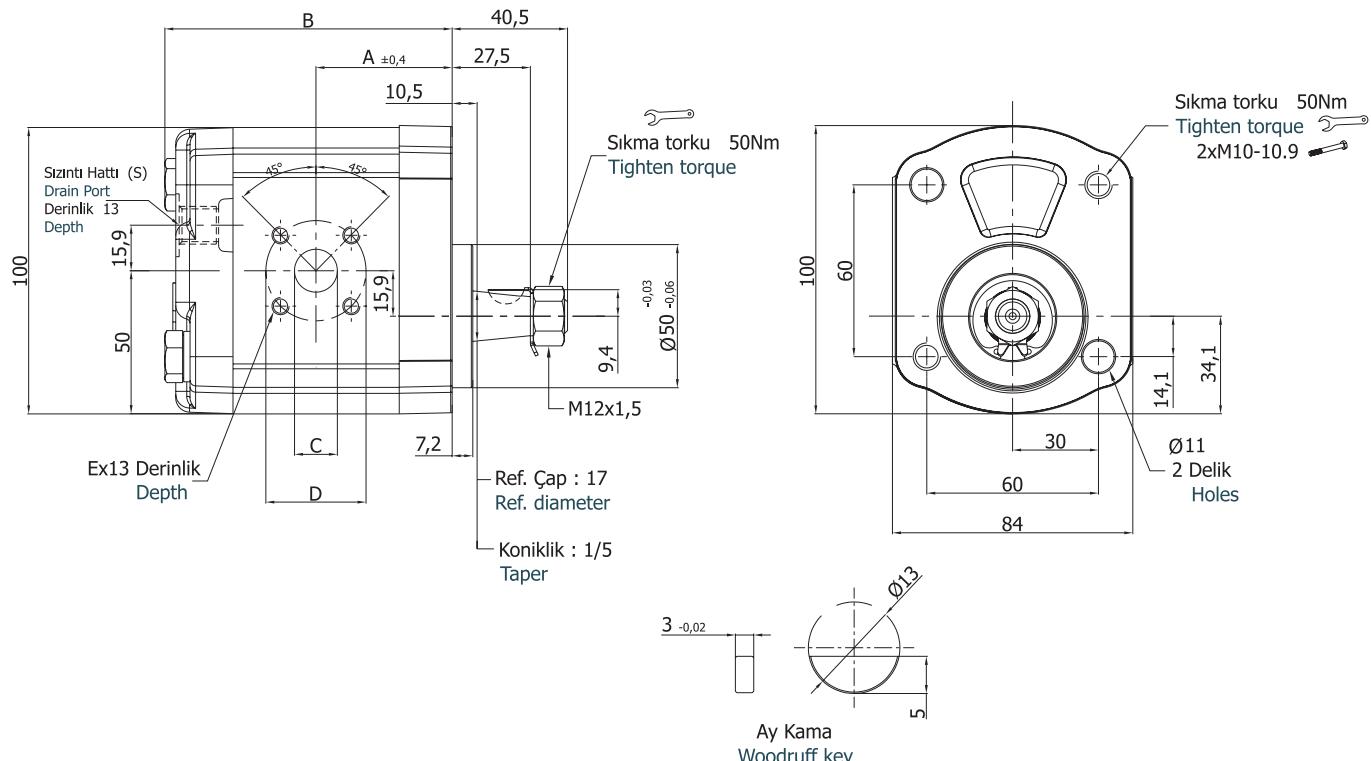
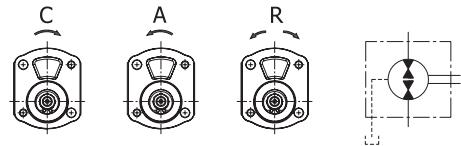
D Ön Kapak
Front Cover

H Şaft Tipi Shaft Type



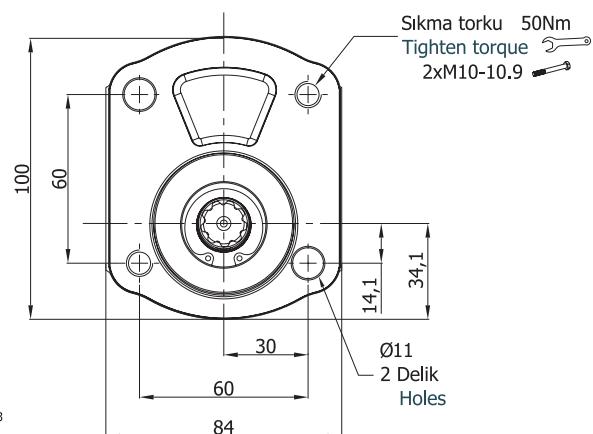
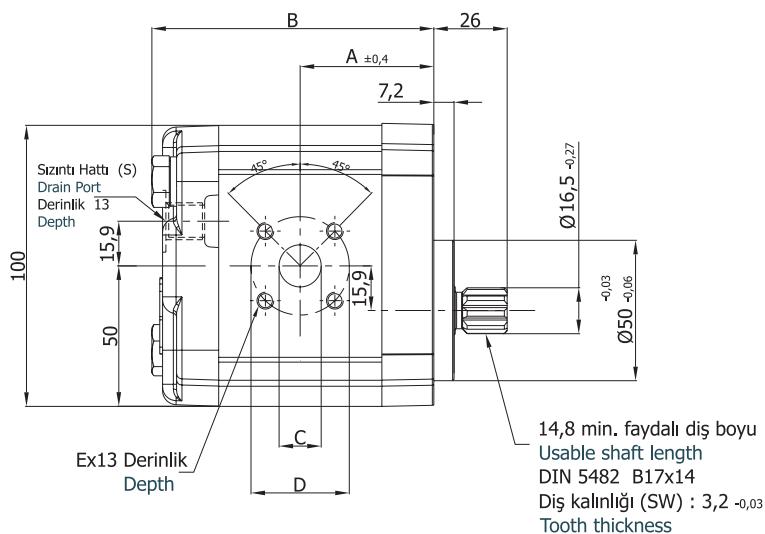
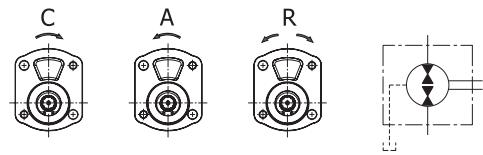
Motor Tipi Motor Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş/Cıkış – Inlet/Outlet		Sızıntı - Drain S	
						C	D		
APM20.040.RDH05EUN	3,9	250	3500	42,2	89,3	G1/2	15	7/16-20 UNF	
APM20.060.RDH05EUN	5,9			43,8	92,4				
APM20.080.RDH05EUN	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				
APM20.220.RDH05EUN	21,9	210	2500	62,3	129,5	G3/4	20		
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


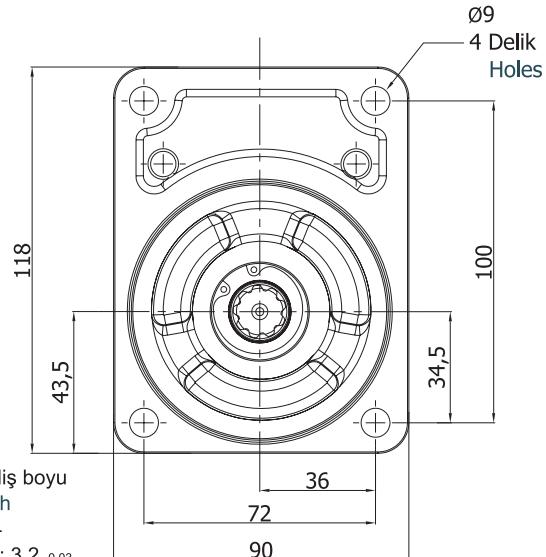
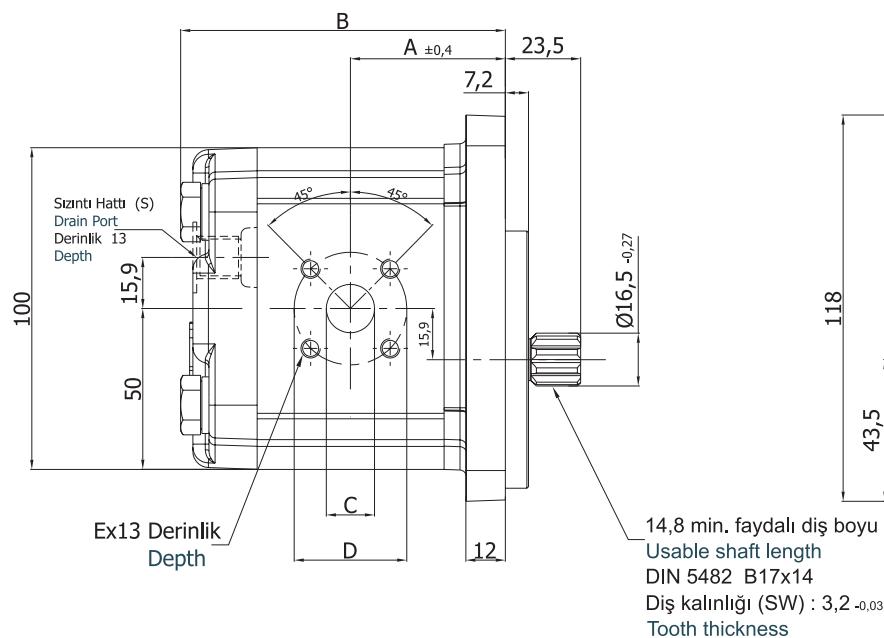
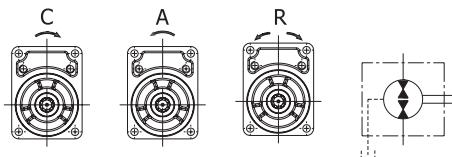
Motor Tipi Motor Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş/Çıkış – Inlet/Outlet			Sızıntı - Drain		
						C	D	E			
APM20.040.REA01EGN	3,9	250	3500	41,6	88,7	15	35	M6	G1/4		
APM20.060.REA01EGN	5,9			43,2	91,8						
APM20.080.REA01EGN	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						
APM20.220.REA01EGN	21,9	210	2500	61,7	128,9	20	40				
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


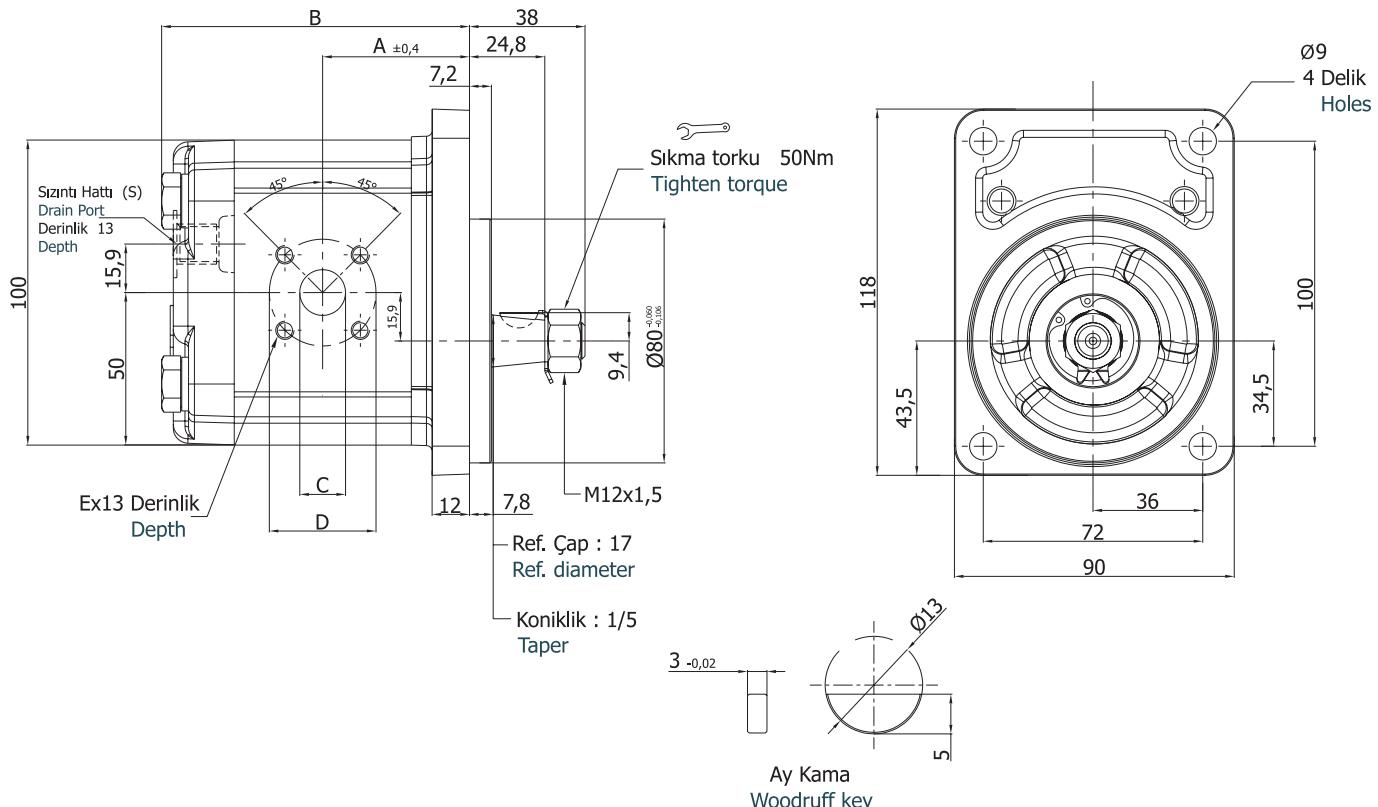
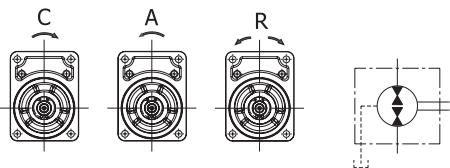
Motor Tipi Motor Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş/Çıkış – İnlet/Outlet			Sızıntı - Drain S		
						C	D	E			
APM20.040.REG01EGN	3,9	250	3500	41,6	88,7	15	35	M6	G1/4		
APM20.060.REG01EGN	5,9			43,2	91,8						
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						
APM20.220.REG01EGN	21,9	210	2500	61,7	128,9	20	40				
APM20.250.REG01EGN	24,8			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

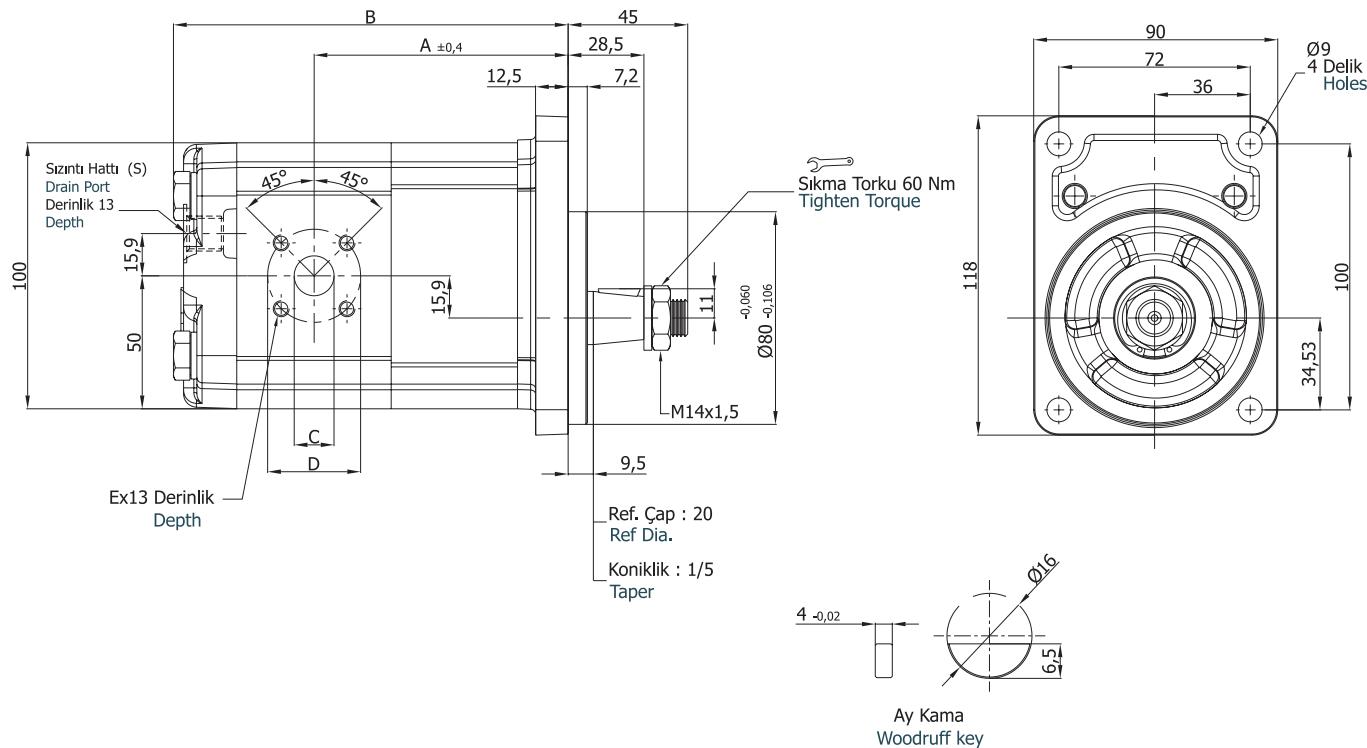
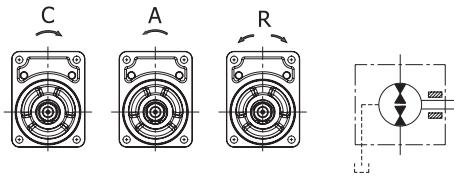
G Şaft Tipi
Shaft Type


Motor Tipi Motor Type	İletim Hacmi Displacement 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 S		
						C	D	E			
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						
APM20.220.RGG01EMN	21,9	210	2500	62,3	129,5	20	40				
APM20.250.RGG01EMN	24,8			64,8	134,6						
APM20.280.RGG01EMN	27,9	170	2200	67,0	138,9						
APM20.320.RGG01EMN	32,0	160		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

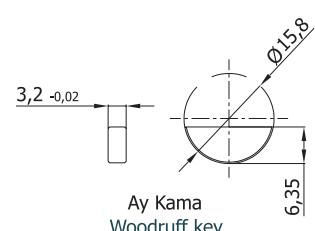
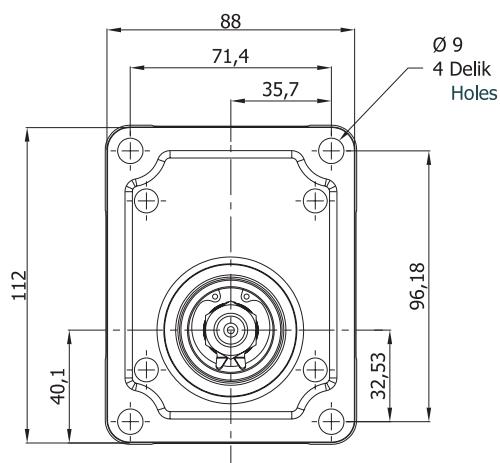
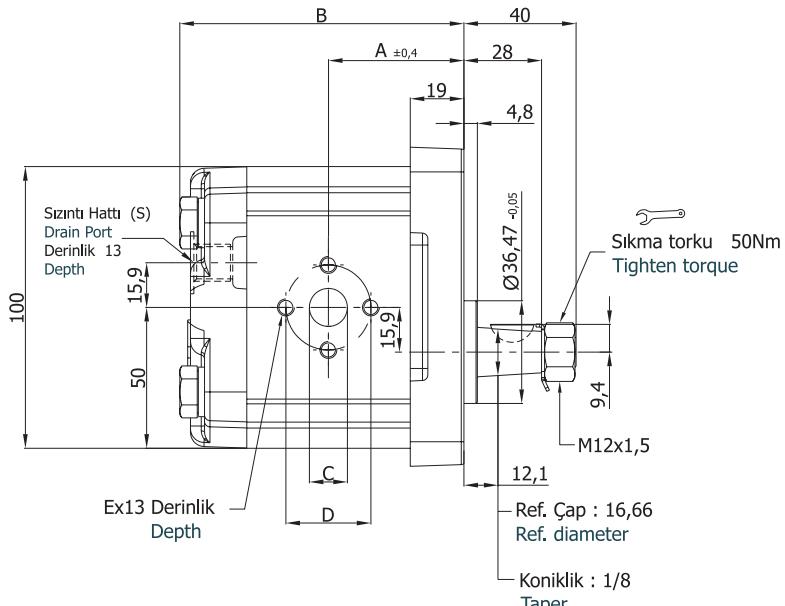
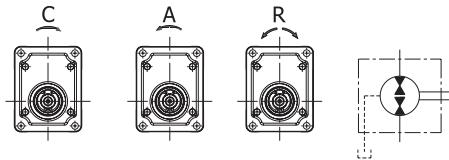
L Şaft Tipi
Shaft Type


Motor Tipi Motor Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş/Cıkış – Inlet/Outlet			Sızıntı - Drain S
						C	D	E	
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		2500	62,3	129,5				
APM20.250.RGL01EMN	24,8			64,8	134,6				
APM20.280.RGL01EMN	27,9	2000	2200	67,0	138,9	20	40	M6	M12x1,5
APM20.320.RGL01EMN	32,0		70,0	145,0					
APM20.340.RGL01EMN	34,0		71,5	148,0					
APM20.380.RGL01EMN	38,0		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 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	
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			99,0	155,4				
APM20.190.RHK01EMON	19,2			107,5	172,4				
APM20.220.RHK01EMON	21,9	2500	109,7	176,8	20	40	M6	M12x1,5	
APM20.250.RHK01EMON	24,8			112,3	181,9				
APM20.280.RHK01EMON	27,9		2200	114,5	186,2				
APM20.320.RHK01EMON	32,0	2000	117,5	192,4					
APM20.340.RHK01EMON	34,0			119,0	195,4				
APM20.380.RHK01EMON	38,0	1750	122,3	201,9					
APM20.400.RHK01EMON	40,0			124,0	205,4				

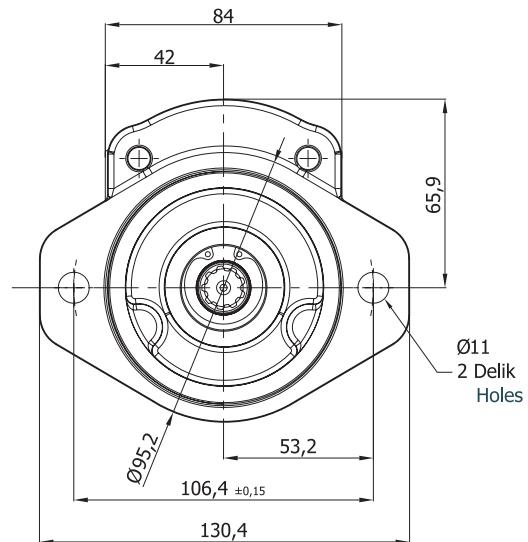
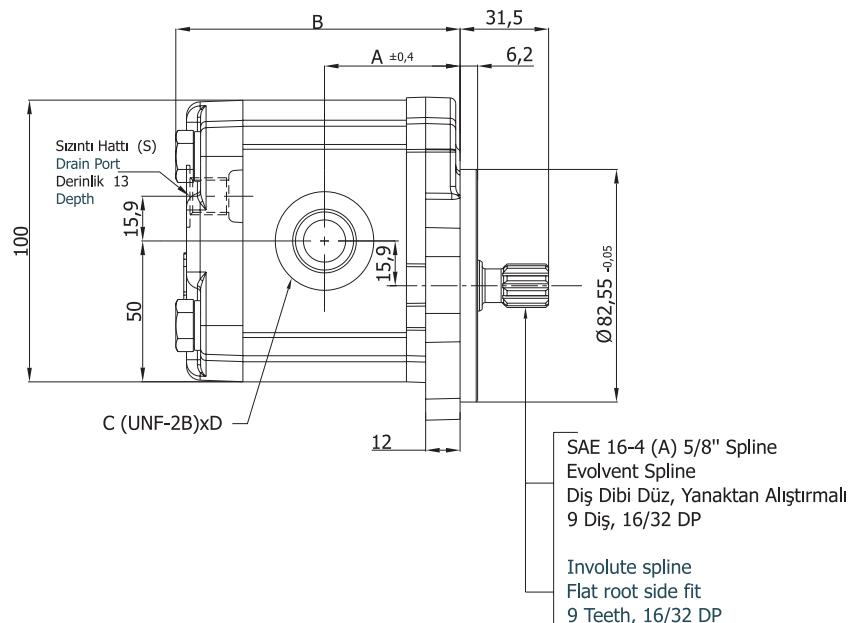
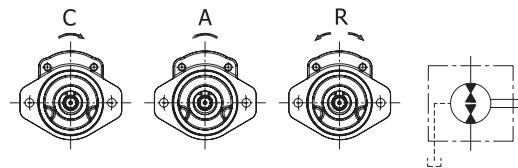
A Ön Kapak
Front Cover

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 – İnlet/Outlet			Sızıntı - Drain	
						C	D	E		
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	20	40	M8		
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					
DKM20.220.RAB02EGN	21,9	240	2500	62,3	129,5	20	40	M8		
DKM20.250.RAB02EGN	24,8			64,8	134,6					
DKM20.280.RAB02EGN	27,9	200	2200	67,0	138,9					

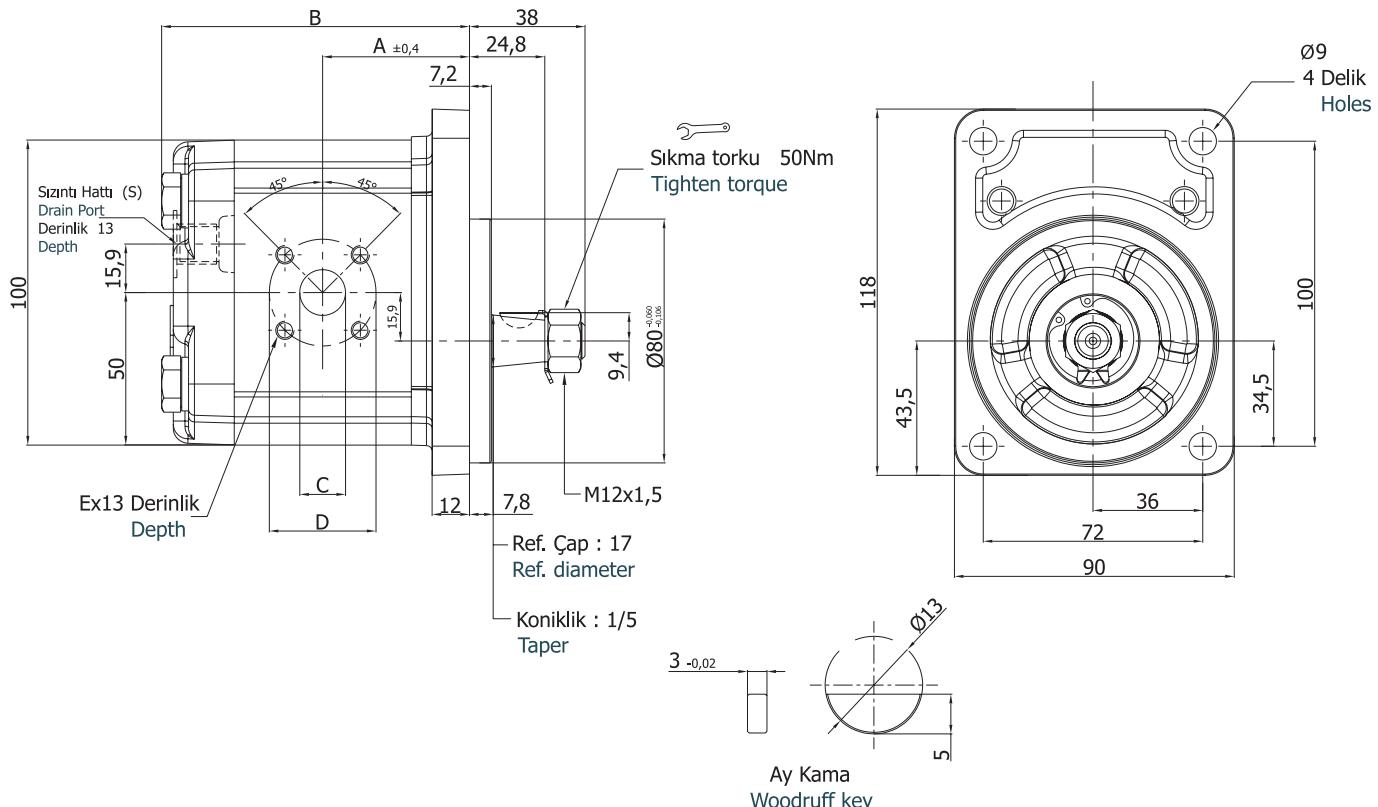
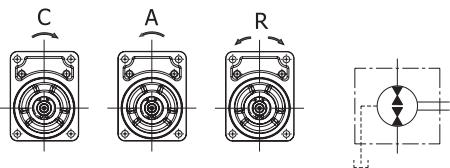
D Ön Kapak
Front Cover

C Şaft Tipi
Shaft Type



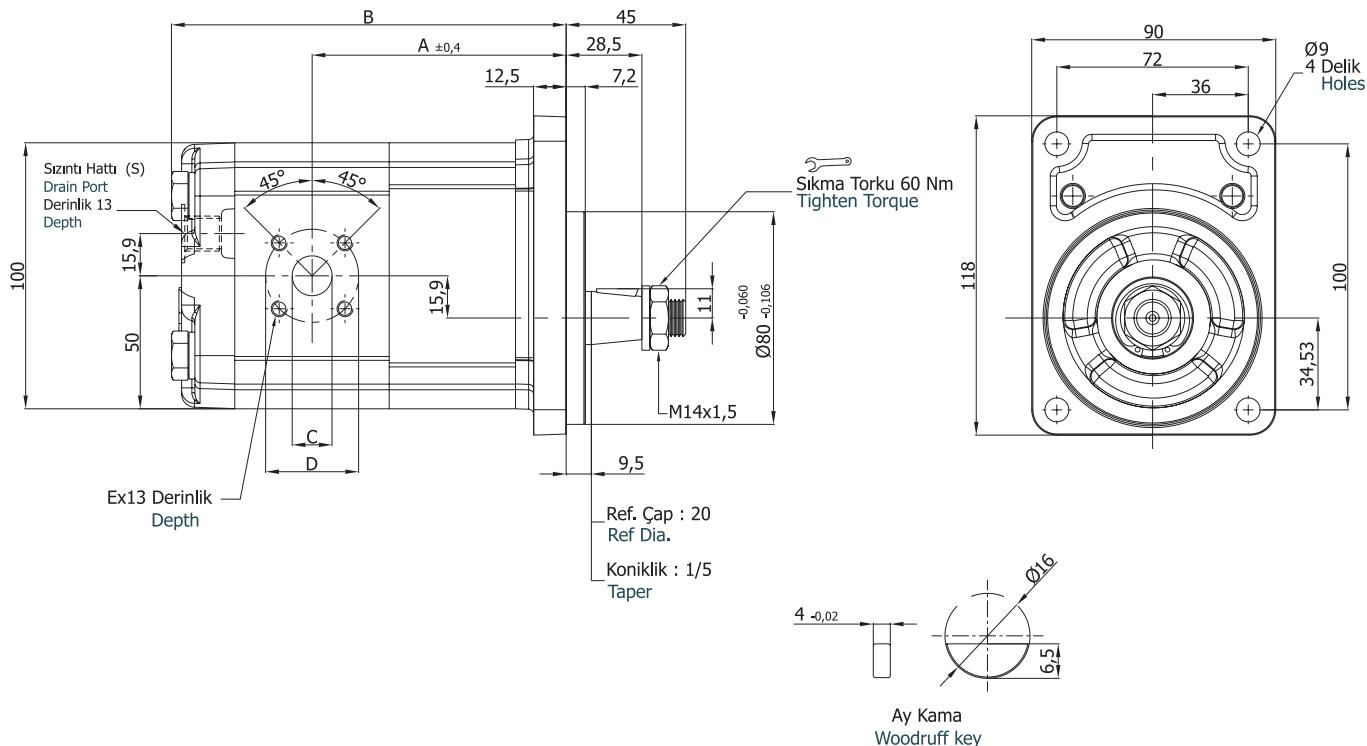
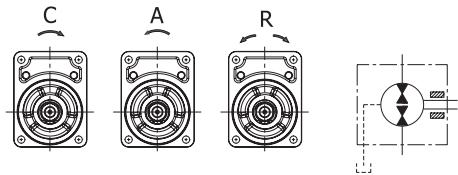
Motor Tipi Motor Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş/Çıkış – Inlet/Outlet		Sıvıntı - Drain S	
						C	D		
DKM20.040.RDC04EUN	3,9	280	3500	42,2	89,3	7/8-14 UNF	15	7/16-20 UNF	
DKM20.060.RDC04EUN	5,9			43,8	92,4				
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	1 1/16-12 UNF	20		
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				
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

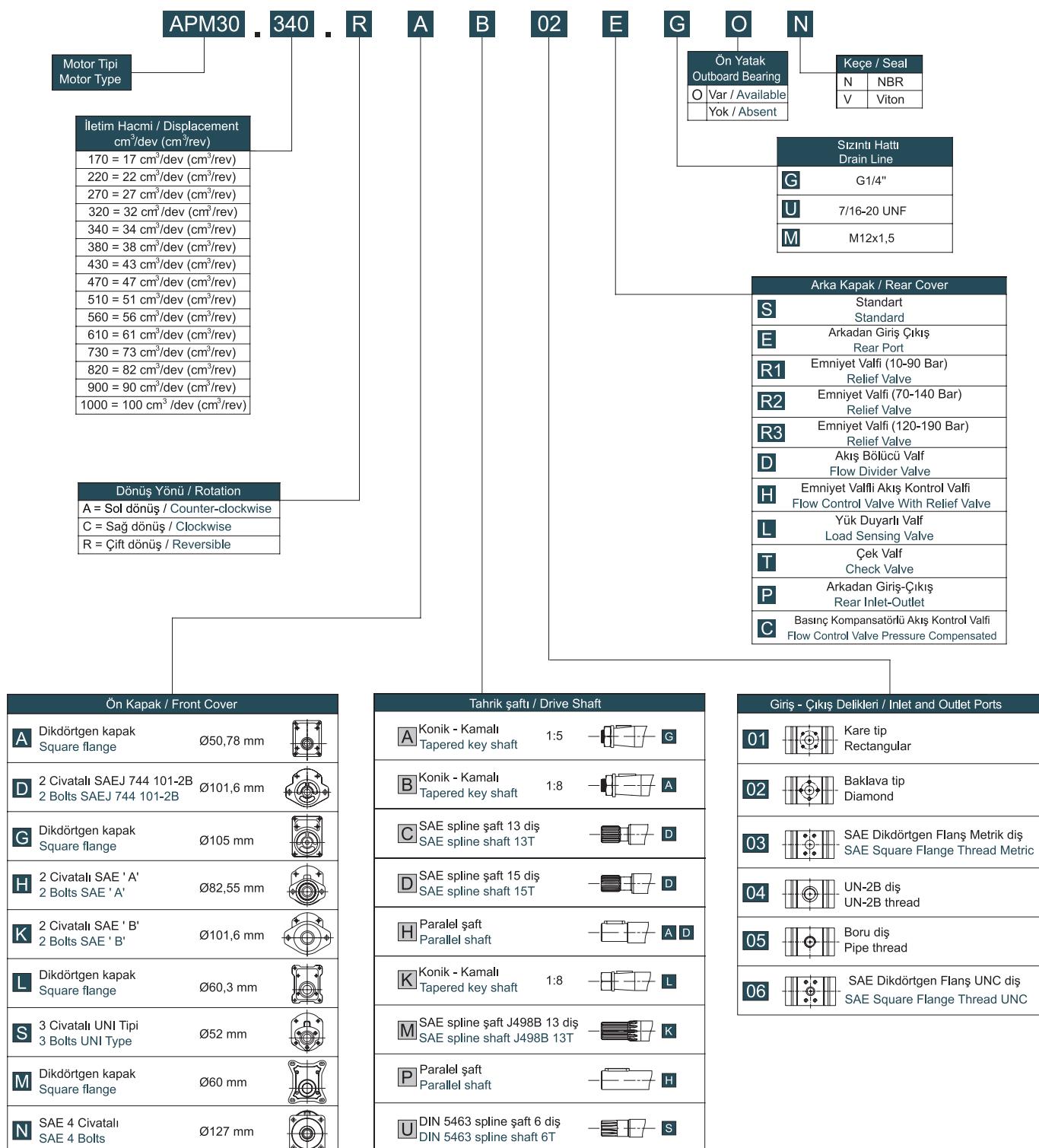
L Şaft Tipi
Shaft Type


Motor Tipi Motor Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş/Cıkış – Inlet/Outlet			Sızıntı - Drain S
						C	D	E	
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		2500	62,3	129,5				
DKM20.250.RGL01EMN	24,8			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 S
						C	D	E	
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			99,0	155,4				
DKM20.190.RHK01EMON	19,2			107,5	172,4				
DKM20.220.RHK01EMON	21,9	160	2500	109,7	176,8	20	40		
DKM20.250.RHK01EMON	24,8			112,3	181,9				
DKM20.280.RHK01EMON	27,9		2200	114,5	186,2				

GRUP 30 MOTORLARIN KODLAMA SİSTEMİ
ORDERING CODE OF GROUP30 MOTORS


- Kodlama Örneği : APM30.340.RAB02EGN
Code Example

APM30 TEKNİK ÖZELLİKLERİ / APM30 TECHNICAL DATA

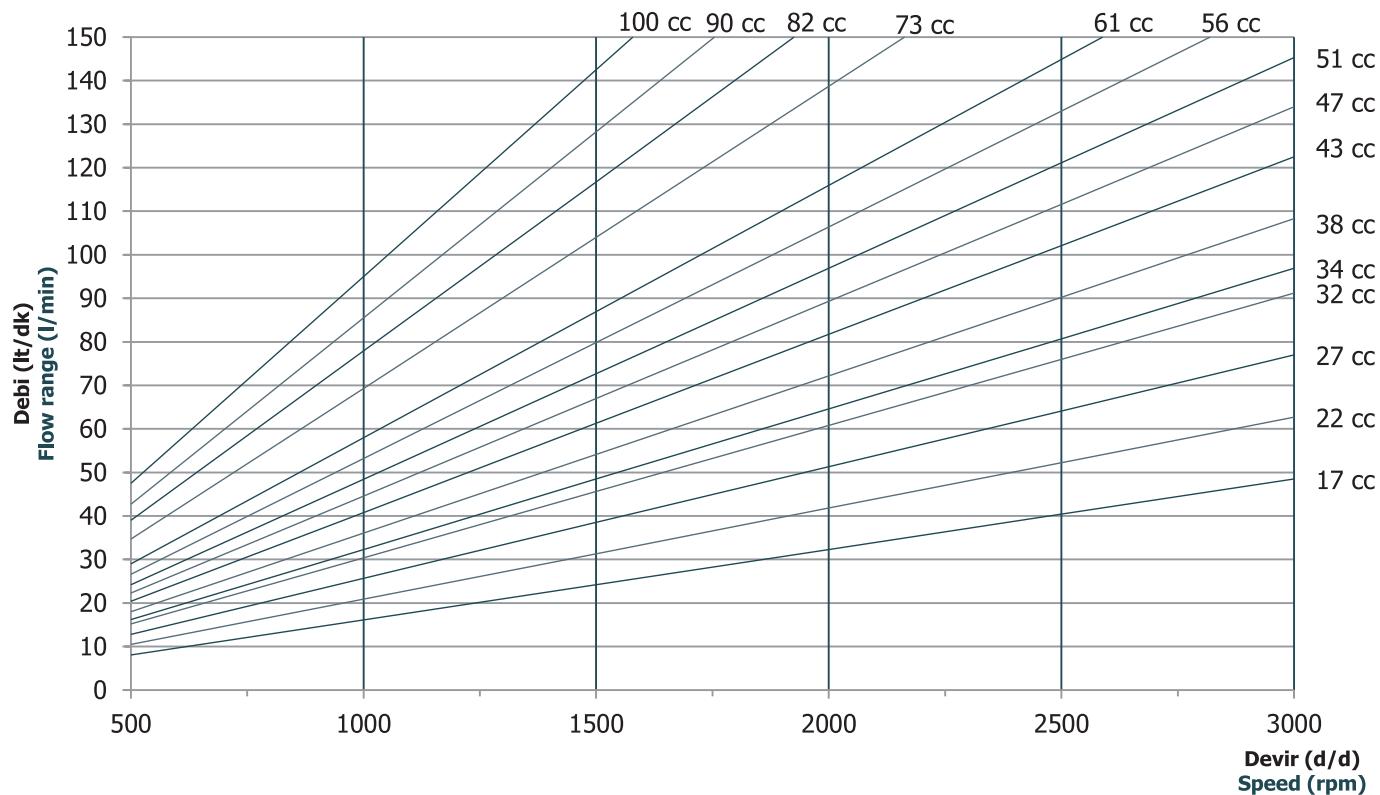
Motor Tipi Motor Type	İletim Hacmi Displacement cm ³ /dev(cm ³ /rev)	Maks. Basınç / Max. Pressure			Maks. Hız Max. Speed	Min. Hız Min. Speed
		P1	P2	P3		
		bar			d/d (rpm)	
APM30.170	17,0	250	270	290	3000	400
APM30.220	22,0	250	270	290	3000	400
APM30.270	27,0	250	270	290	3000	400
APM30.320	32,0	240	260	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

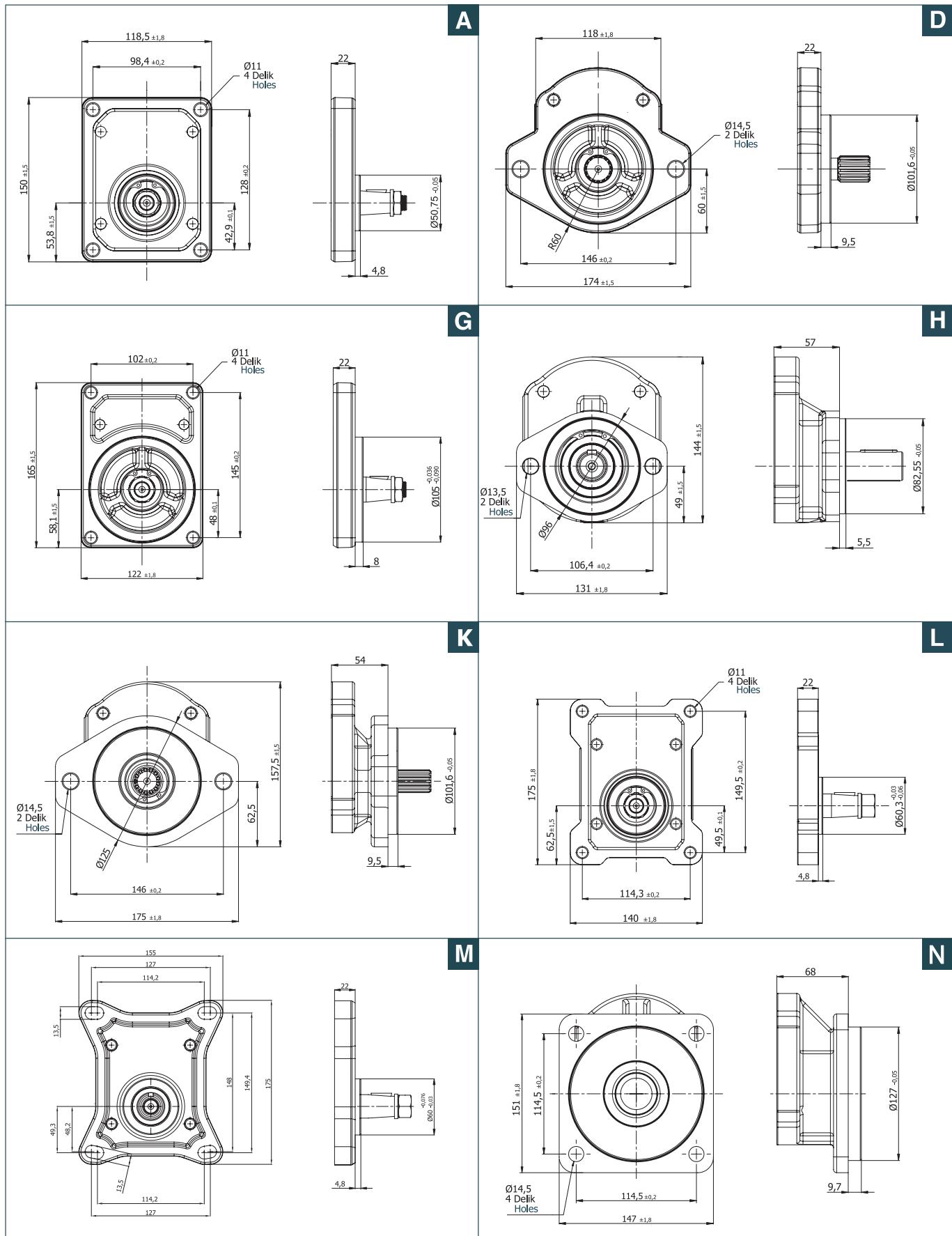
P1: Sürekli çalışma basıncı
Continuous pressure

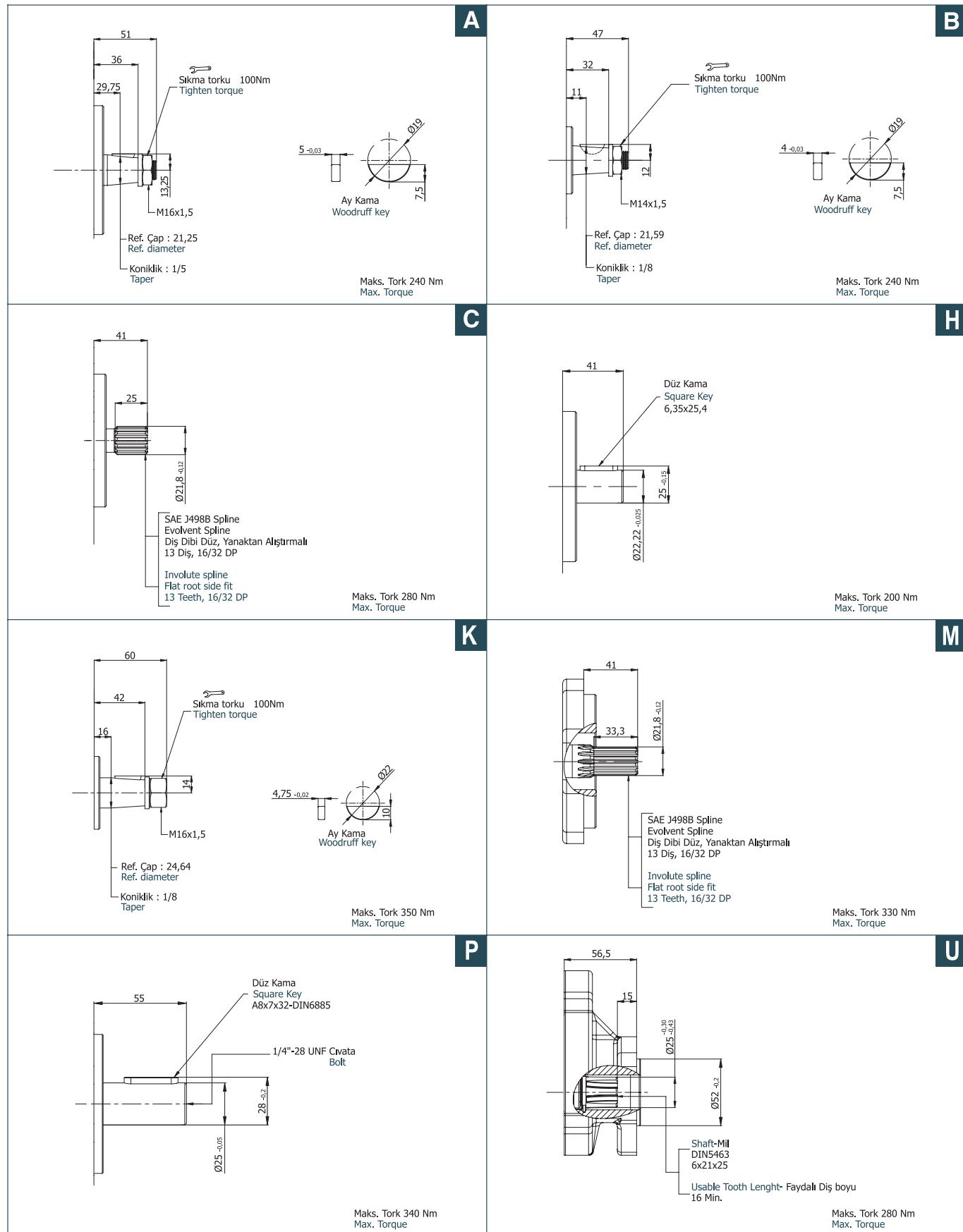
P2 : Aralıklı çalışma basıncı
Intermittent pressure

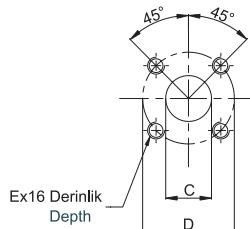
P3 : Ani basınç
Peak pressure

APM30 MOTORLARIN DEBİ EĞRİLERİ / FLOW CURVES OF APM30 MOTORS

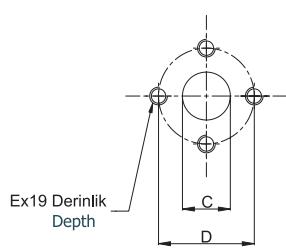




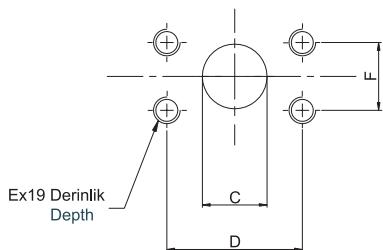



01 Kare Tipi Flanş
 Rectangular Flange

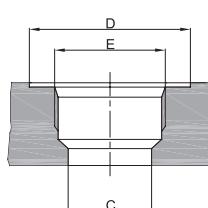
Sipariş Kodu Ordering Code	İletim Hacmi Displacement cm³/dev (rev)	Emis Tarafı Suction Side			Basınç Tarafı Pressure Side		
		C	D	E	c	d	e
	17 - 100	27	55	M8x16	19	55	M8x16
	17 - 32	19			19		
	34 - 100	27		M8x16	27	55	M8x16


02 Baklava Tipi Flanş
 Diamond Flange

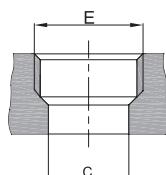
Sipariş Kodu Ordering Code	İletim Hacmi Displacement cm³/dev (rev)	Emis Tarafı Suction Side			Basınç Tarafı Pressure Side		
		C	D	E	c	d	e
	17 - 61	27	51	M10x19	19	40	M8x16
	73 - 100	33	62	M12x19	27	51	M10x19
	17 - 38	20	40	M8x16	20	40	M8x16
	43 - 90	27	51	M10x16	27	51	M10x16
	100	33	62	M12x19	33	62	M12x19


03 SAE Dikdörtgen Flanş Metrik Diş
 SAE Square Flange Metric Thread

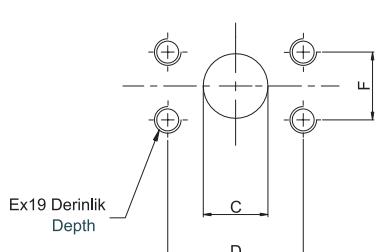
Sipariş Kodu Ordering Code	İletim Hacmi Displacement cm³/dev (rev)	Emis Tarafı Suction Side				Basınç Tarafı Pressure Side			
		C	D	E	F	c	d	e	f
	17 - 22	19	47,6	M8x16	22,2	12,5	38,1	M8x16	17,5
	27 - 34	25,4	52,4	M10x19	26,2	19	47,6	M8x16	22,2
	38 - 51	30,5	58,7	M10x19	30,2	25,4	52,4	M10x19	26,2
	56 - 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

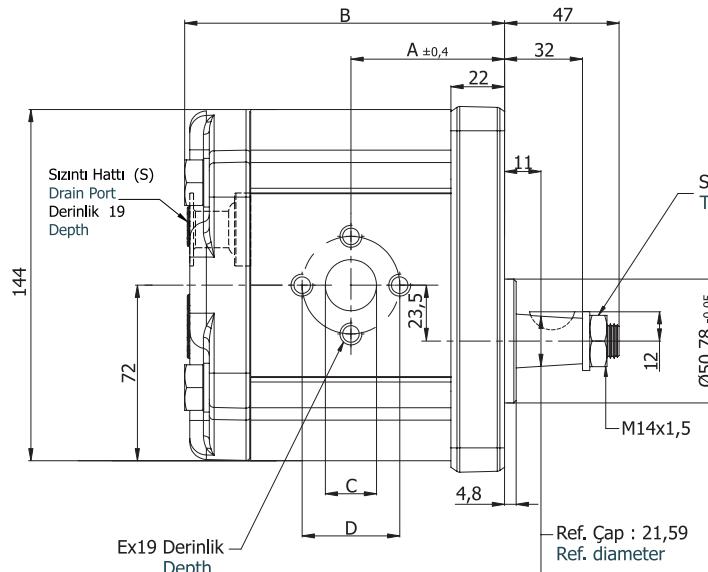
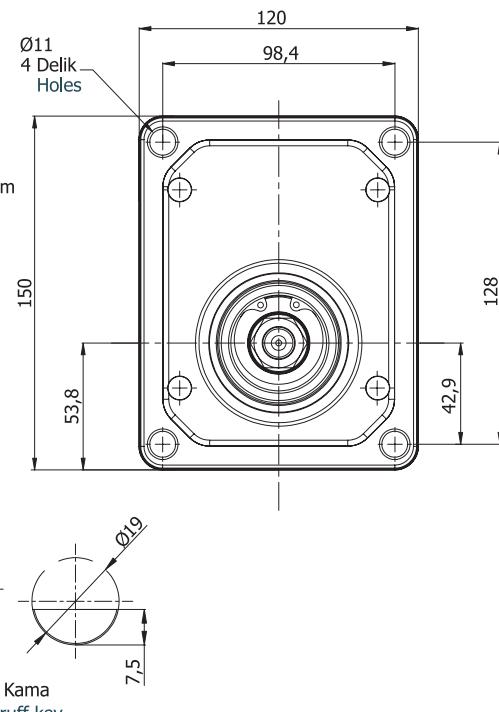
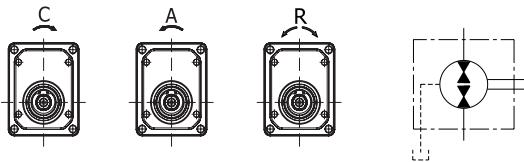
Sipariş Kodu Ordering Code	İletim Hacmi Displacement cm³/dev (rev)	Emis Tarafı Suction Side			Basınç Tarafı Pressure Side		
		C	D	E	c	d	e
	17 - 34	30,5	49	1 5/16"-12 UN-2B	25	42	1 1/16"-12 UN-2B
	38 - 51	39	58	1 5/8"-12 UN-2B	30,5	49	1 5/16"-12 UN-2B
	56 - 100	45	65	1 7/8"-12 UN-2B	39	58	1 5/8"-12 UN-2B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

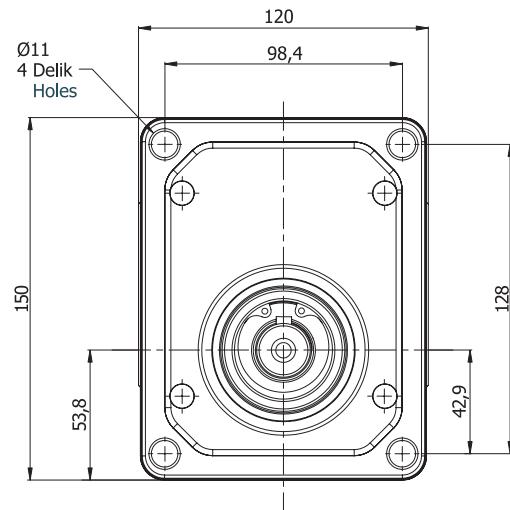
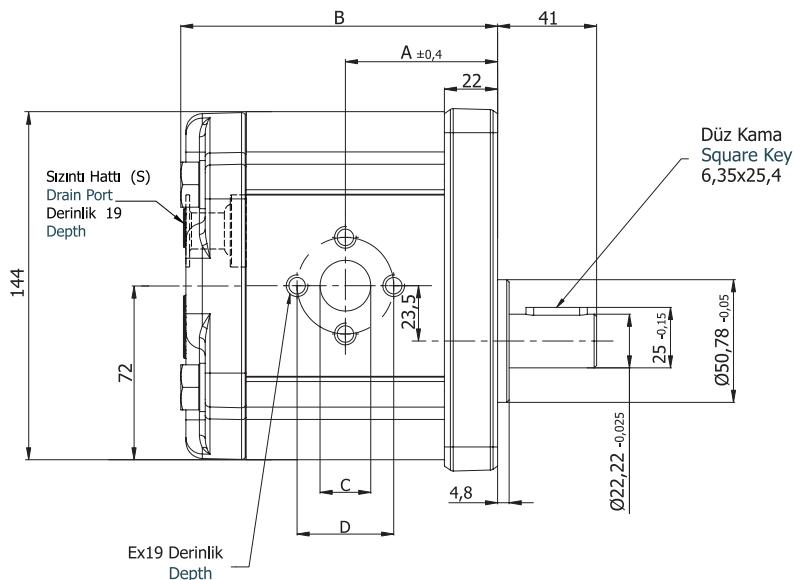
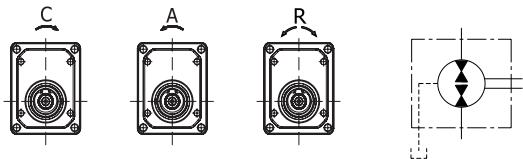

06 SAE Dikdörtgen Flanş UNC Diş
 SAE Square Flange UNC Thread

Sipariş Kodu Ordering Code	İletim Hacmi Displacement cm³/dev (rev)	Emis 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	30,2	25,4	52,4		3/8-16 UNC-2B	26,2
	56 - 82	39,3	69,8	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		3/8-16 UNC-2B	26,2
	47 - 56	30,5	58,7	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	7/16-14 UNC-2B	35,7	

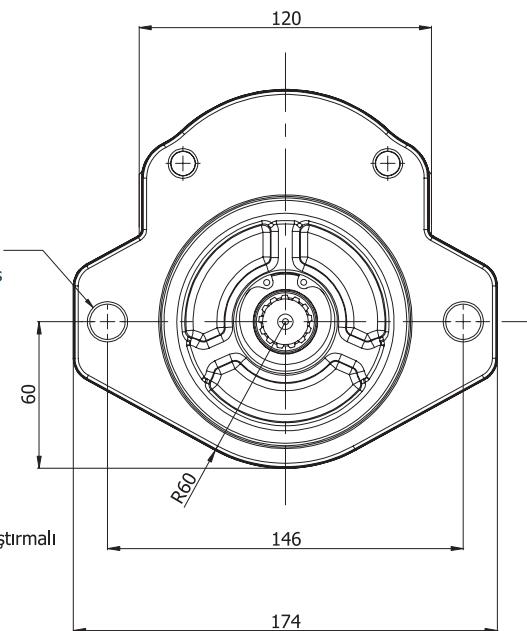
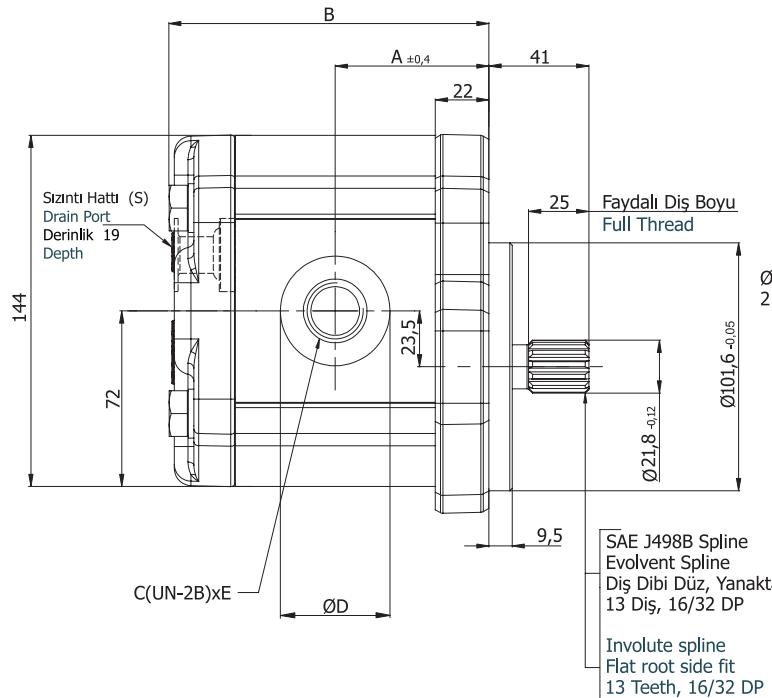
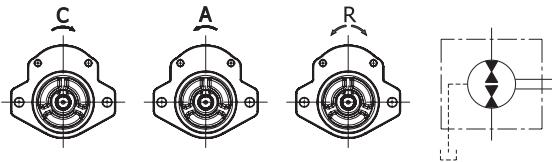
A Ön Kapak
Front Cover**B** Şaft Tipi
Shaft Type

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 S	
						C	D	E		
APM30.170.RAB02EGN	17,0	250	3000	59,5	124,1	20	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			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	2500	68,0	141,1	55	M8x16	G 3/8		
APM30.470.RAB02EGN	47,0			69,5	144,1					
APM30.510.RAB02EGN	51,0			70,5	146,1					
APM30.560.RAB02EGN	56,0	200	1750	71,5	148,1	27				
APM30.610.RAB02EGN	61,0	180		74,0	153,1					
APM30.730.RAB02EGN	73,0	170		77,0	160,1					
APM30.820.RAB02EGN	82,0	160	1500	80,0	166,1	34				
APM30.900.RAB02EGN	90,0	150		83,0	172,1					
APM30.1000.RAB02EGN	100,0	140		86,0	178,1					

A Ön Kapak
Front Cover

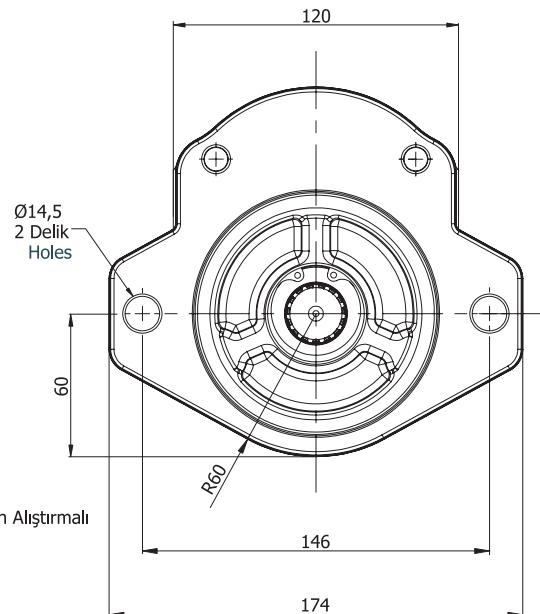
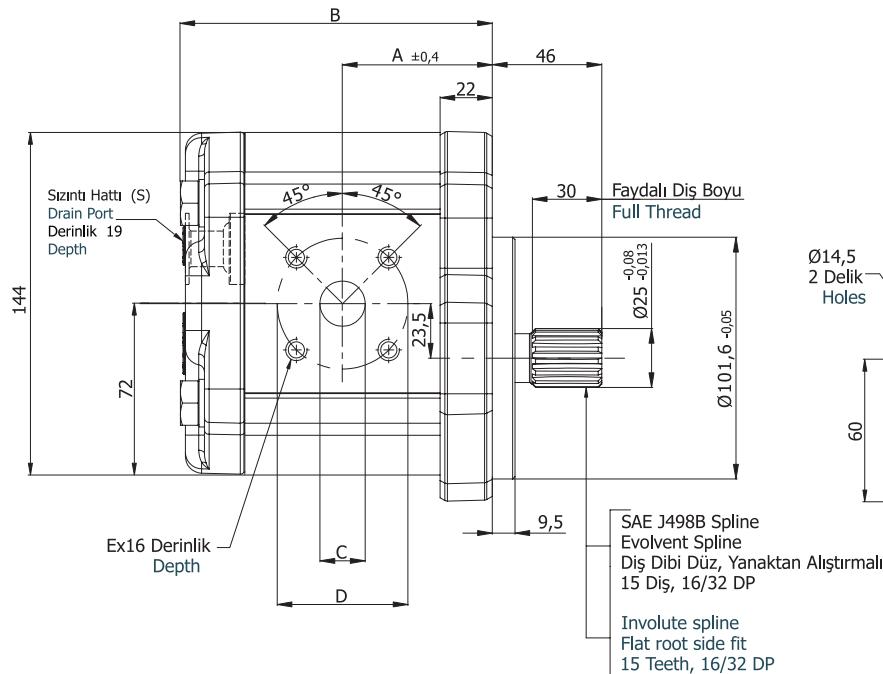
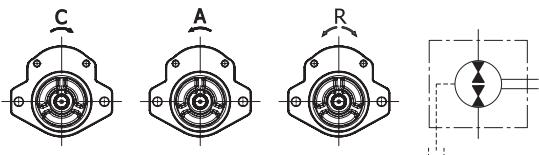
H Şaft Tipi
Shaft Type


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/Cıkış – Inlet/Outlet			Sıvıntı - Drain		
						C	D	E			
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			69,5	144,1						
APM30.510.RAH02EGN	51,0	210	2500	70,5	146,1						
APM30.560.RAH02EGN	56,0	200		71,5	148,1						
APM30.610.RAH02EGN	61,0	180		74,0	153,1						
APM30.730.RAH02EGN	73,0	170	1500	77,0	160,1	33	62	M12x19	G 3/8		
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						

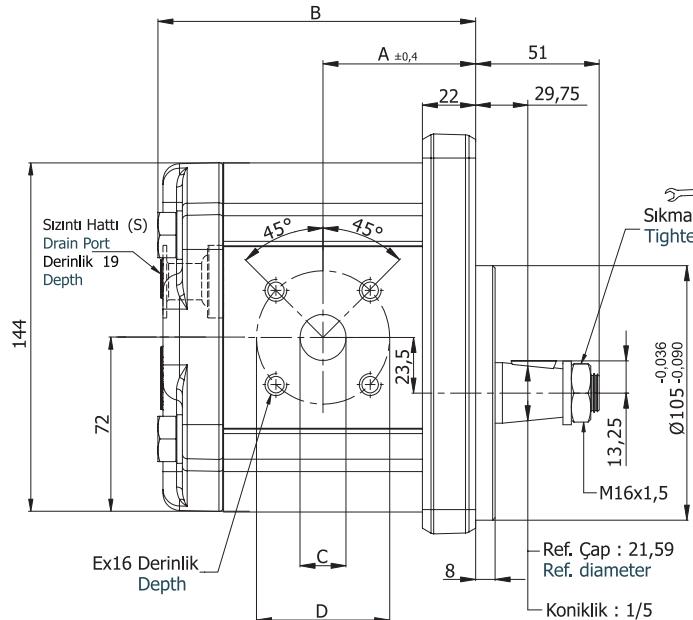
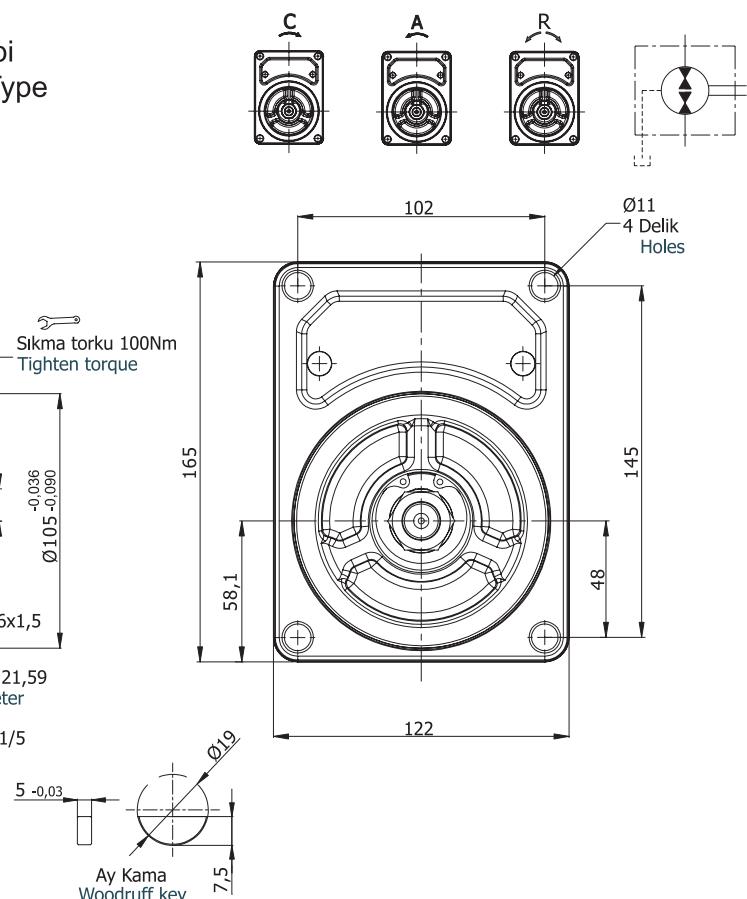
D Ön Kapak
Front Cover**C** Şaft Tipi
Shaft Type

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 S	
						C	D	E		
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			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			68,0	141,1					
APM30.470.RDC04EUN	47,0	230	2500	69,5	144,1	39	58	1 5/8"-12 UNF-2B		
APM30.510.RDC04EUN	51,0			70,5	146,1					
APM30.560.RDC04EUN	56,0			71,5	148,1					
APM30.610.RDC04EUN	61,0			74,0	153,1					
APM30.730.RDC04EUN	73,0			77,0	160,1					
APM30.820.RDC04EUN	82,0	1500	1500	80,0	166,1	45	65	1 7/8"-12 UNF-2B		
APM30.900.RDC04EUN	90,0			83,0	172,1					
APM30.1000.RDC04EUN	100,0			86,0	178,1					

D Ön Kapak
Front Cover

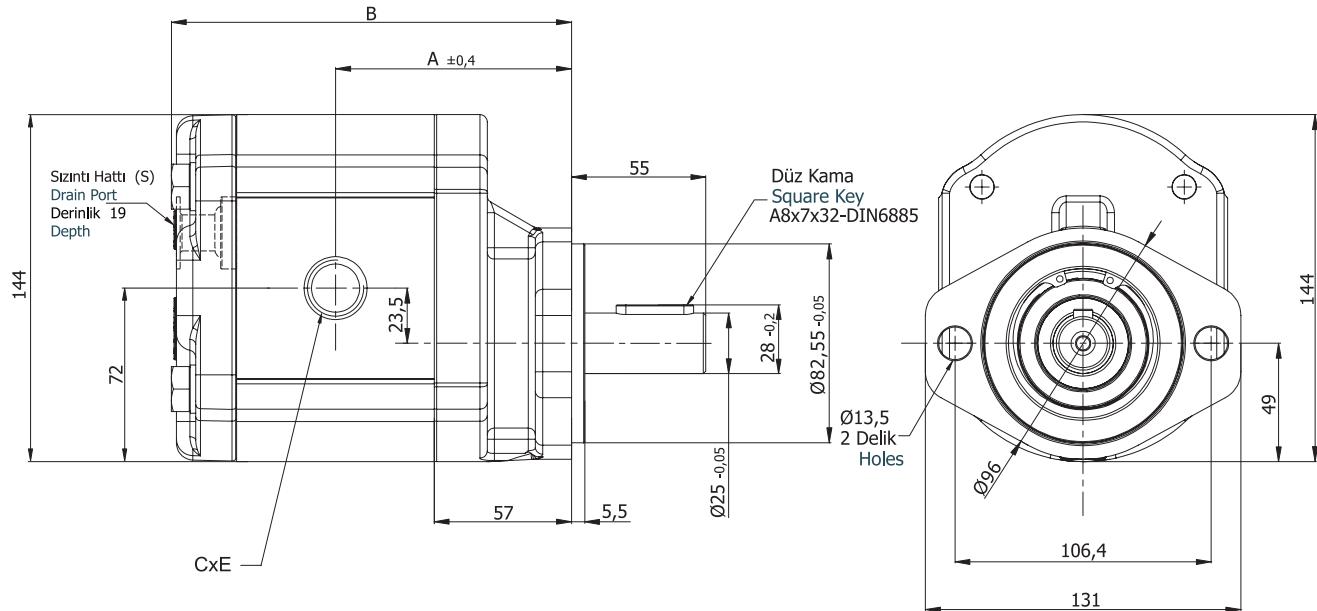
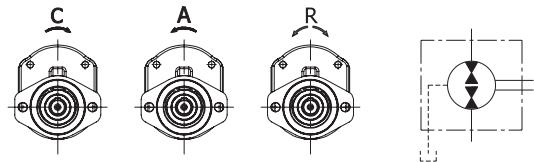
D Şaft Tipi
Shaft Type


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/Cıkış – Inlet/Outlet		Sıvıntı - Drain S
						C	D	
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	230	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	2500	1750	68,0	141,1			
APM30.470.RDD01EGN	47,0			69,5	144,1			
APM30.510.RDD01EGN	51,0			70,5	146,1			
APM30.560.RDD01EGN	56,0	210	1500	71,5	148,1			
APM30.610.RDD01EGN	61,0	180		74,0	153,1			
APM30.730.RDD01EGN	73,0	170		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

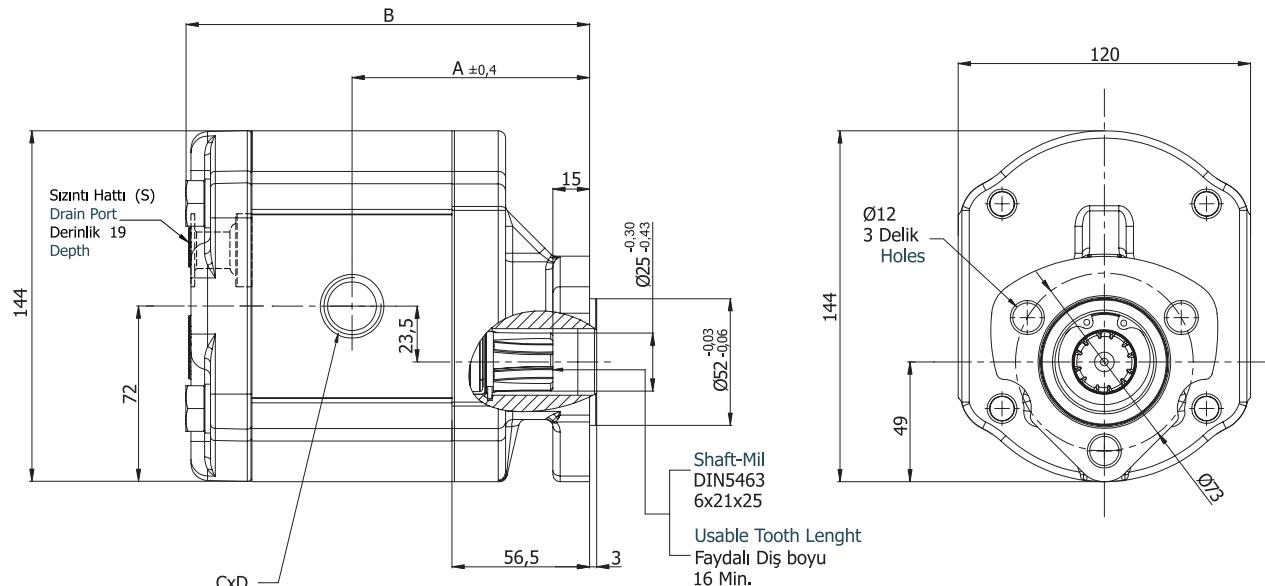
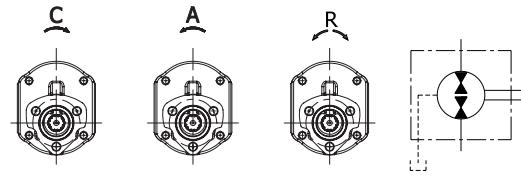
Motor Tipi Motor Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş/Çıkış – Inlet/Outlet			Sızıntı - Drain S
						C	D	E	
APM30.170.RGA01EGN	17,0	250	3000	59,5	124,1	19	M8x16	G 3/8"	27
APM30.220.RGA01EGN	22,0			61,5	128,1				
APM30.270.RGA01EGN	27,0			63,0	131,1				
APM30.320.RGA01EGN	32,0	240	230	64,5	134,1	55			
APM30.340.RGA01EGN	34,0			65,0	135,1				
APM30.380.RGA01EGN	38,0			66,5	138,1				
APM30.430.RGA01EGN	43,0	2500	1750	68,0	141,1	27			
APM30.470.RGA01EGN	47,0			69,5	144,1				
APM30.510.RGA01EGN	51,0			70,5	146,1				
APM30.560.RGA01EGN	56,0	200		71,5	148,1				
APM30.610.RGA01EGN	61,0			74,0	153,1				
APM30.730.RGA01EGN	73,0			77,0	160,1				
APM30.820.RGA01EGN	82,0	150		80,0	166,1				
APM30.900.RGA01EGN	90,0			83,0	172,1				
APM30.1000.RGA01EGN	100,0			86,0	178,1				

H Ön Kapak
Front Cover

P 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 – Inlet		Sızıntı - Drain S
						C	E	
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			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			103,0	176,1			
APM30.470.RHP05EGN	47,0			104,5	179,1			
APM30.510.RHP05EGN	51,0			105,5	181,1			
APM30.560.RHP05EGN	56,0			106,5	183,1			
APM30.610.RHP05EGN	61,0	180	1750	109,0	188,1	39	G 1 1/4"	G 1 1/2"
APM30.730.RHP05EGN	73,0	170		112,0	195,1			
APM30.820.RHP05EGN	82,0	160		115,0	201,1			
APM30.900.RHP05EGN	90,0	150		118,0	207,1			
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 cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş – Inlet		Sızıntı - Drain S	
						C	E		
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			99,0	168,6				
APM30.340.RSU05EGN	34,0		240	99,5	169,6				
APM30.380.RSU05EGN	38,0			101,0	172,6				
APM30.430.RSU05EGN	43,0			102,5	175,6				
APM30.470.RSU05EGN	47,0			104,0	178,6				
APM30.510.RSU05EGN	51,0	210	2500	105,0	180,6				
APM30.560.RSU05EGN	56,0	200		106,0	182,6				
APM30.610.RSU05EGN	61,0	180		108,5	187,6				
APM30.730.RSU05EGN	73,0	170	1500	111,5	194,6	39	G 1 1/4"	G 1 1/2"	
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 cm ³ /dev(cm ³ /rev)
017 = 17,2 cm ³ /dev(rev)
027 = 27,1 cm ³ /dev(rev)
034 = 34,4 cm ³ /dev(rev)
043 = 42,9 cm ³ /dev(rev)
051 = 51,2 cm ³ /dev(rev)
061 = 60,7 cm ³ /dev(rev)
073 = 73,0 cm ³ /dev(rev)
082 = 81,4 cm ³ /dev(rev)
100 = 99,7 cm ³ /dev(rev)

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

Keçeler / Seals

N	NBR
V	VITON

İç sızıntı Hattı /
Internal Drain Port

T	Var / Available
	Yok / Absent

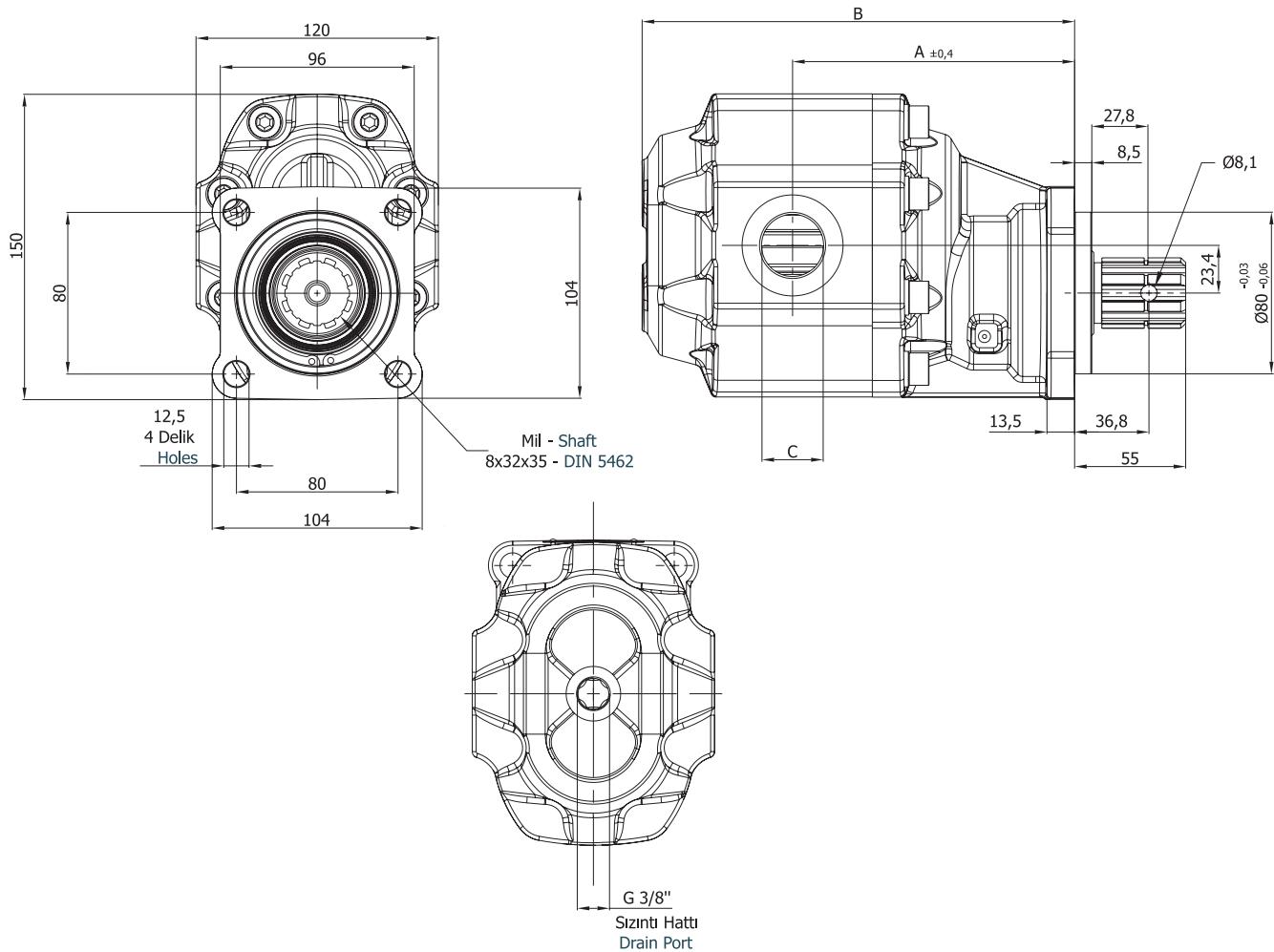
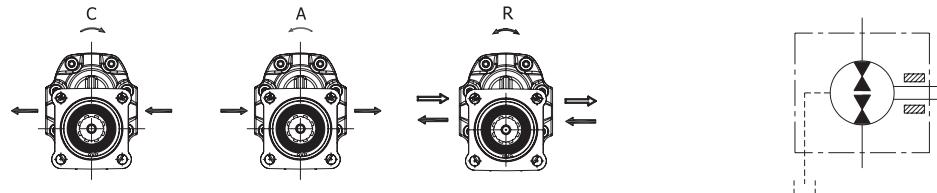
Şaft Tipi / Shaft Type

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

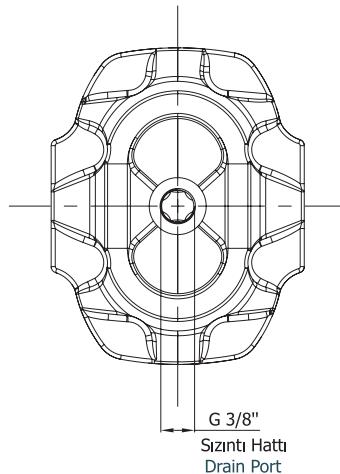
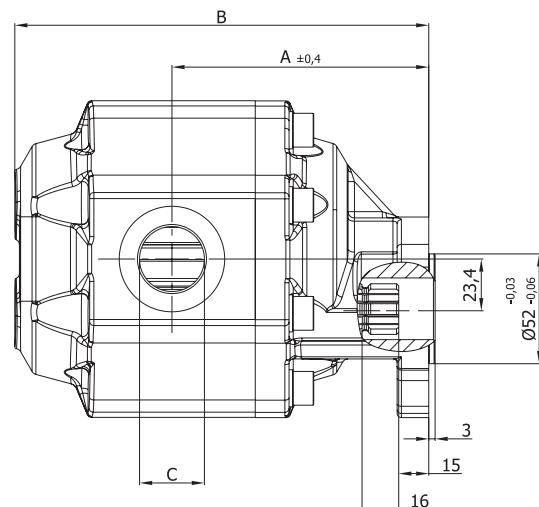
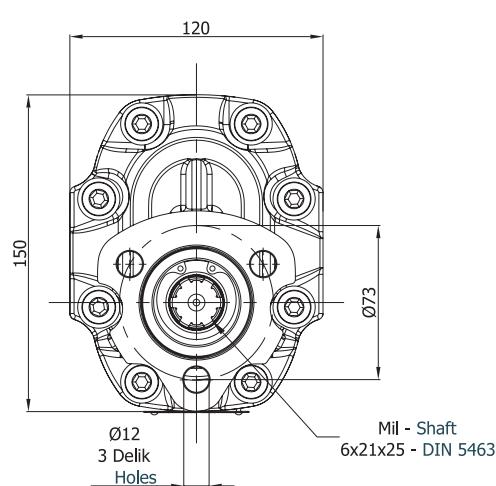
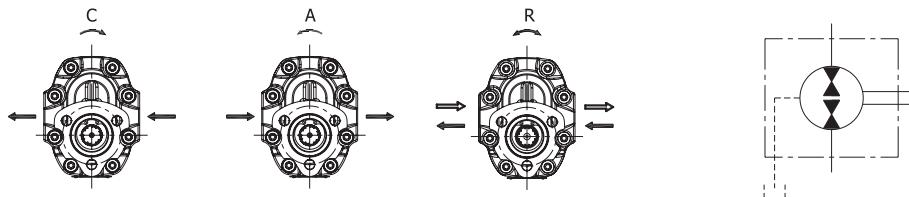
Ön Kapak / Front Cover

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

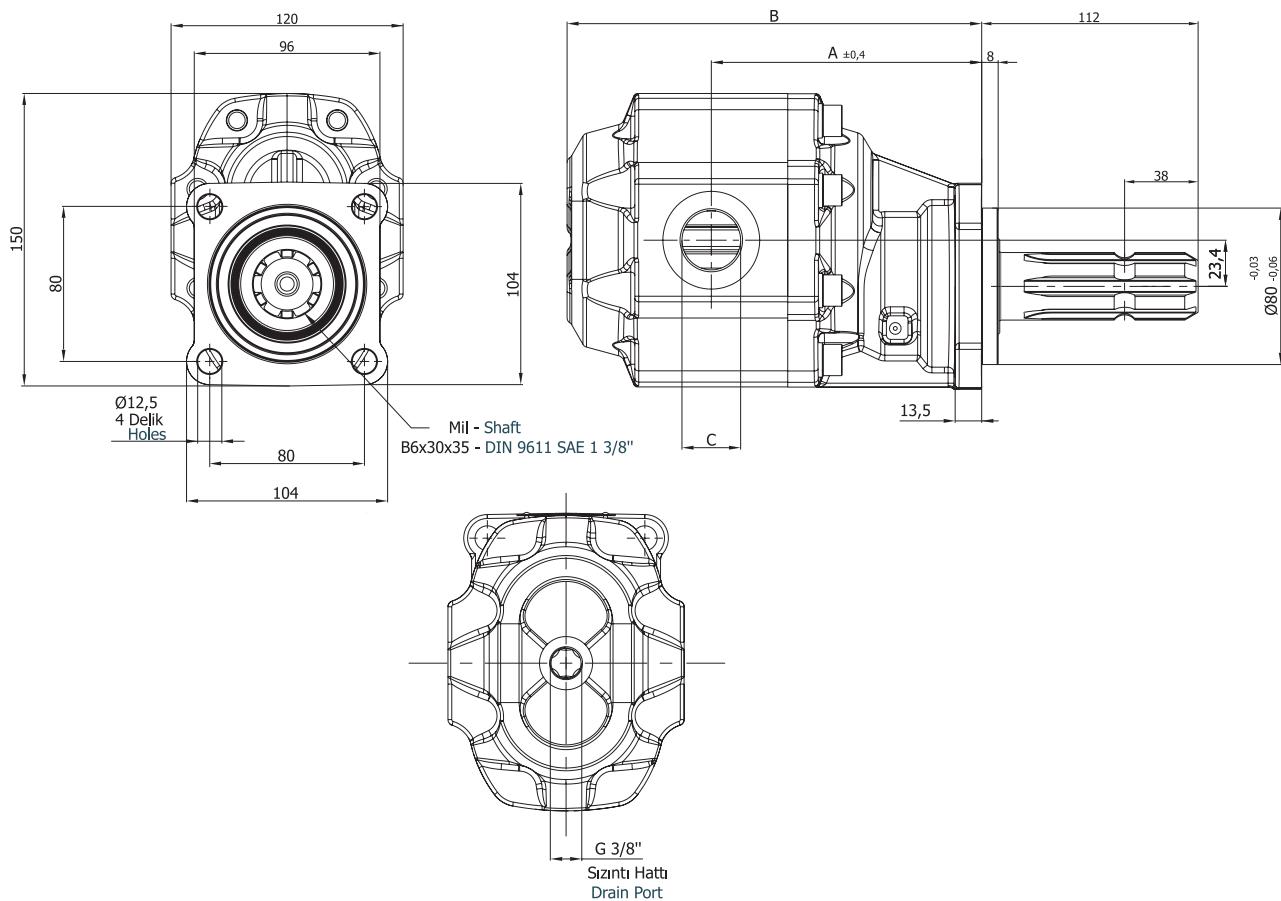
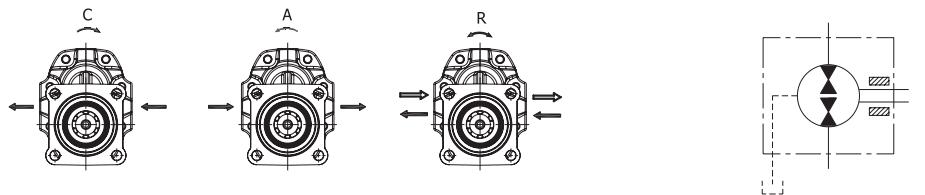
- Kodlama Örneği ; GPM30.082.RST1N
Code Example

ISO TİPİ
TYPE

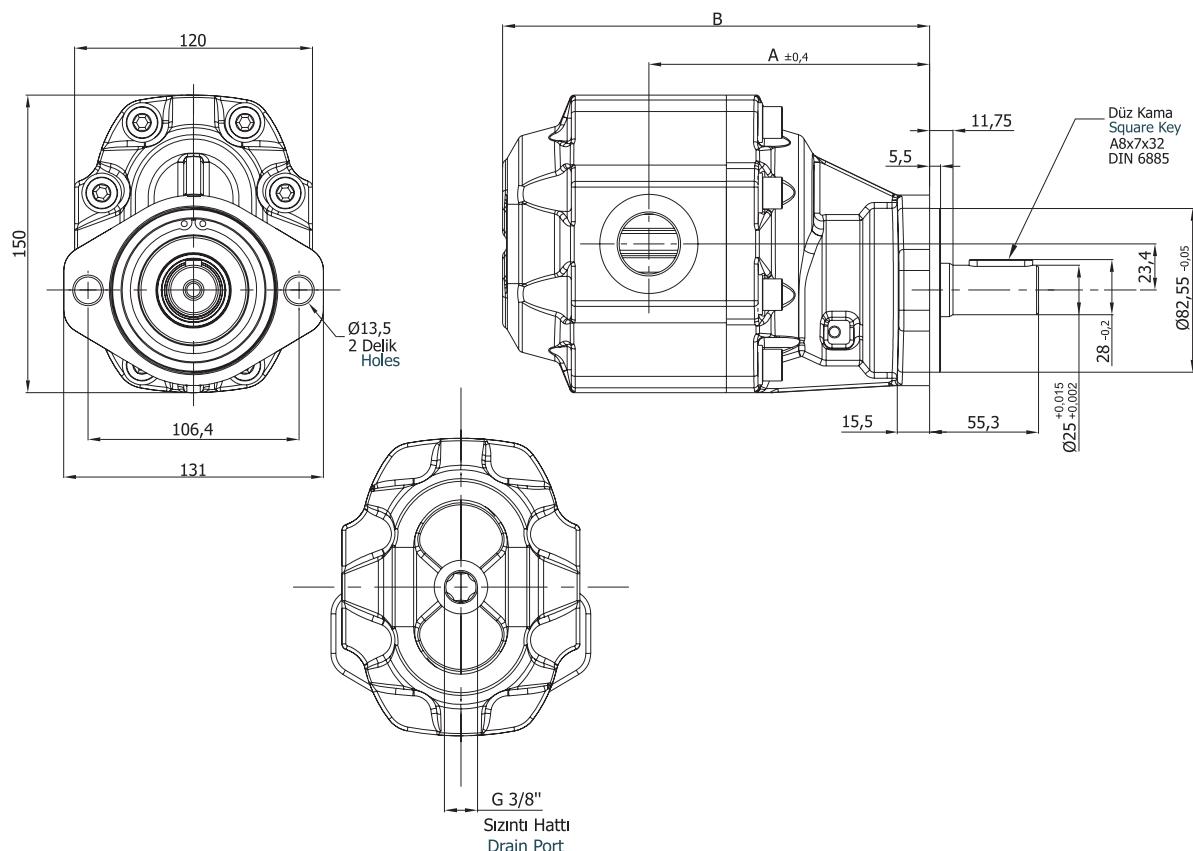
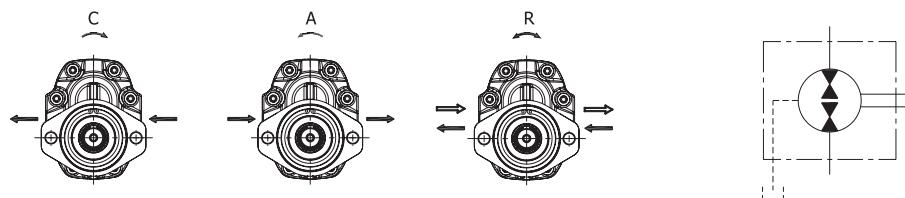
Motor Tipi Motor Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A	B	Giriş - Inlet	Çıkış - Outlet
						C	c
GPM30.017.RRM1N	17,2	300	3000	119,0	172,6	G 1/2"	G 1/2"
GPM30.027.RRM1N	27,1	290		122,2	179,0		
GPM30.034.RRM1N	34,4	280	2750	124,5	183,6	G 3/4"	G 3/4"
GPM30.043.RRM1N	42,9	270		127,4	189,4		
GPM30.051.RRM1N	51,2	240	2500	129,5	193,5		
GPM30.061.RRM1N	60,7	220		133,2	201,0	G 1"	G 1"
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		
GPM30.034.RST1N	34,4	280	2750	106,3	165,4	G 3/4"	G 3/4"
GPM30.043.RST1N	42,9	270		109,2	171,2		
GPM30.051.RST1N	51,2	240	2500	111,3	175,3	G 1"	G 1"
GPM30.061.RST1N	60,7	220		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

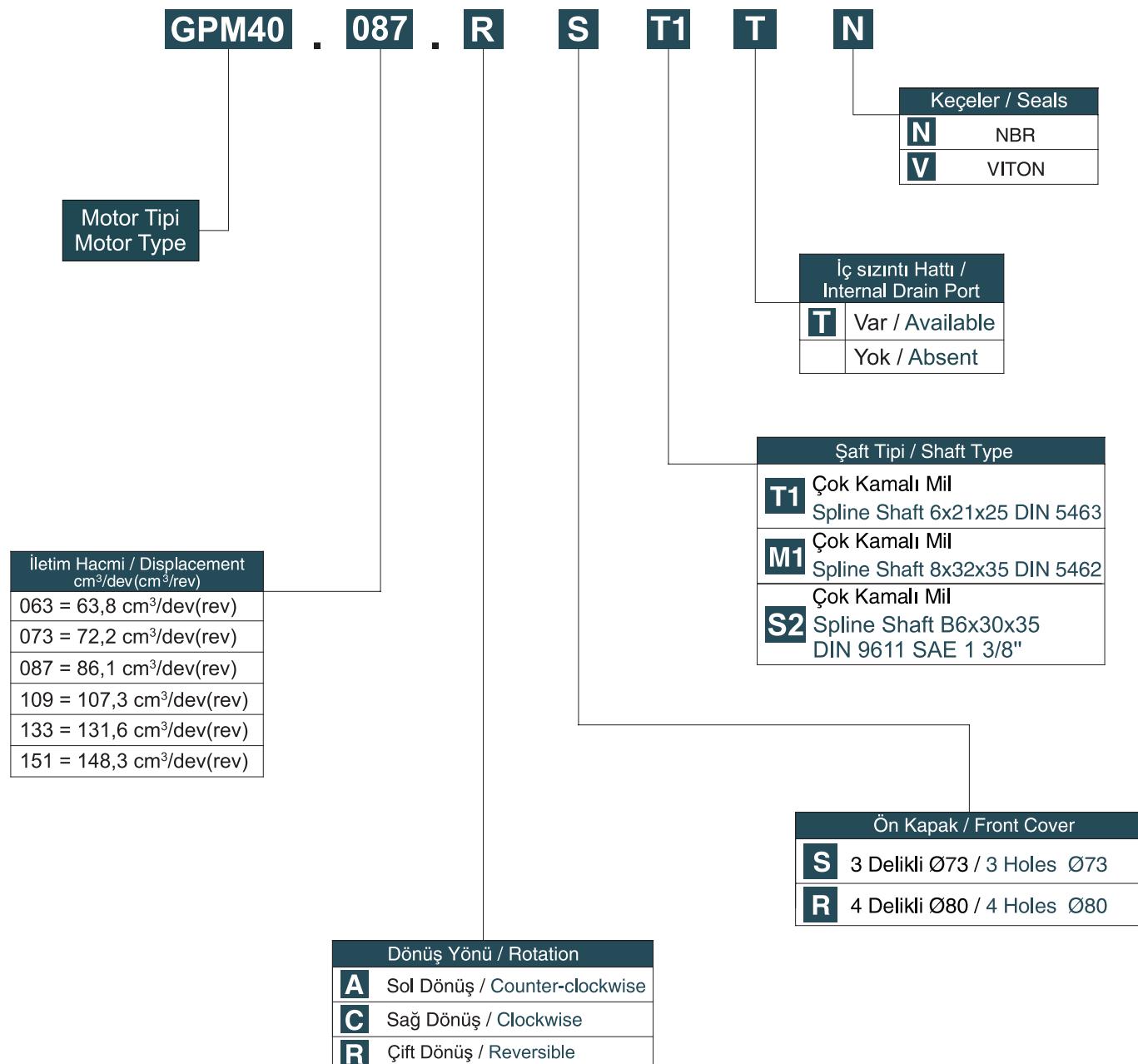
Motor Tipi Motor Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A ±0,4	B	Giriş – Inlet	Çıkış - Outlet
						C	c
GPM30.017.RRS2N	17,2	300	3000	119,0	172,6	G 1/2"	G 1/2"
GPM30.027.RRS2N	27,1	290		122,2	179,0		
GPM30.034.RRS2N	34,4	280	2750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


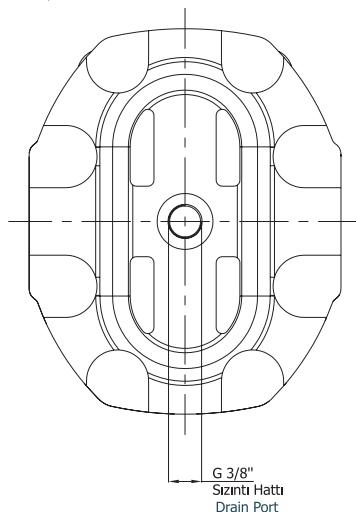
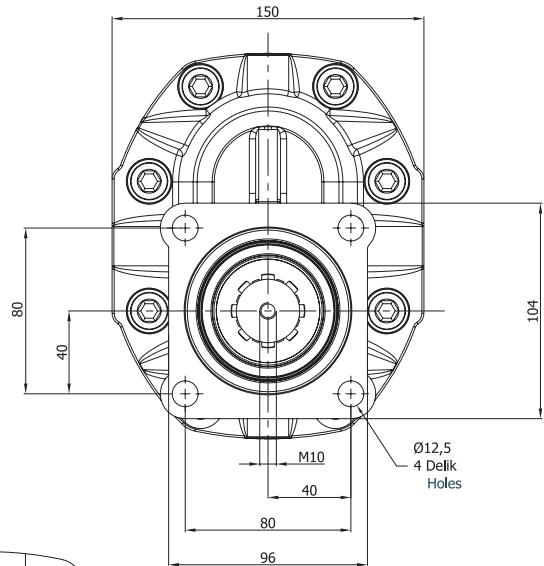
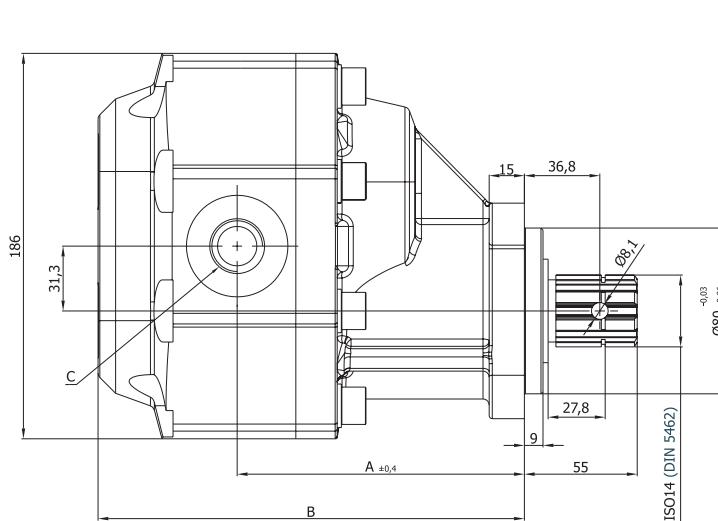
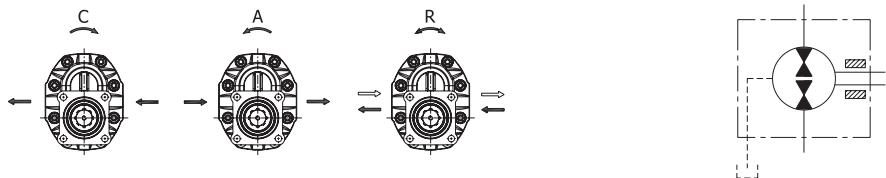
Motor Tipi Motor Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A	B	Giriş – Inlet	Çıkış - Outlet
						C	c
GPM30.017.RDSN	17,2	300	3000	121,0	174,6	G 1/2"	G 1/2"
GPM30.027.RDSN	27,1	290		104,0	181,0	G 3/4"	G 3/4"
GPM30.034.RDSN	34,4	280	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	G 1-1/4"	G 1-1/4"
GPM30.082.RDSN	81,4	190		121,8	216,5		
GPM30.100.RDSN	99,7	180		127,6	228,1		

GPM40 MOTORLARIN KODLAMA SİSTEMİ

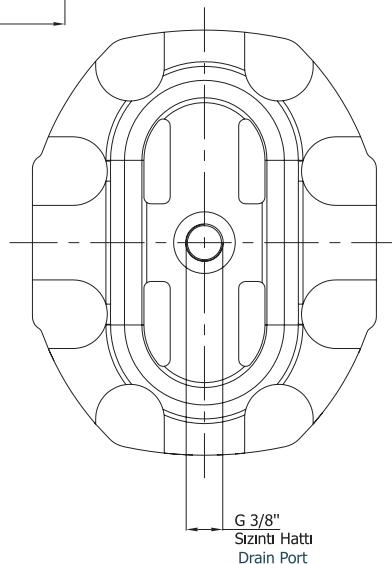
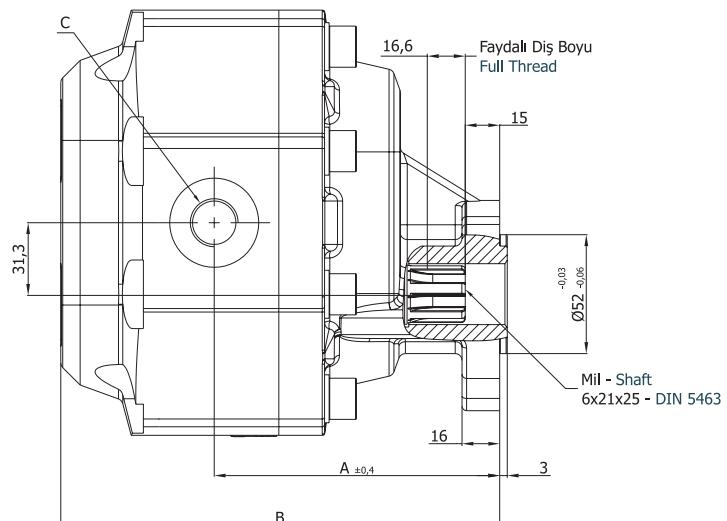
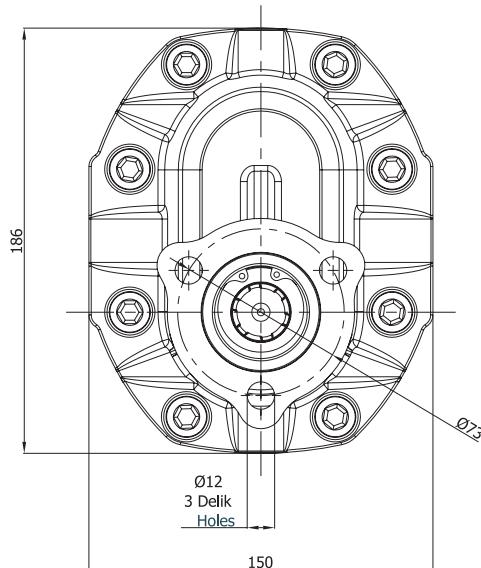
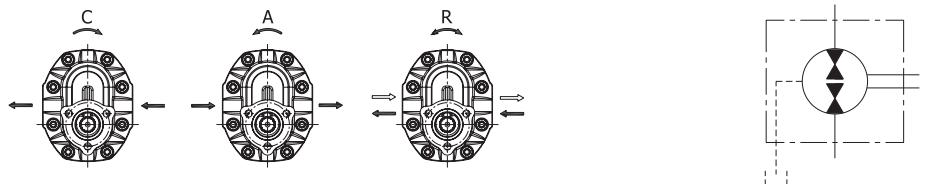
ORDERING CODE OF GPM40 MOTORS



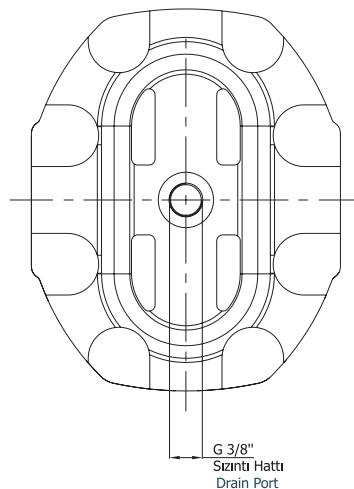
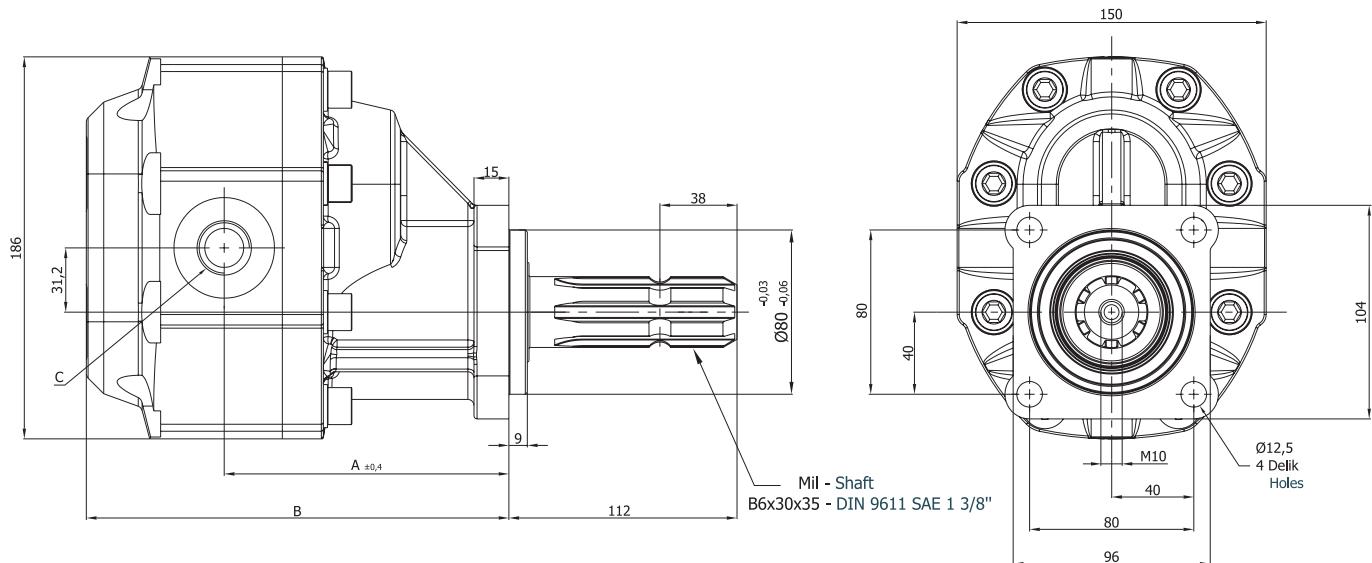
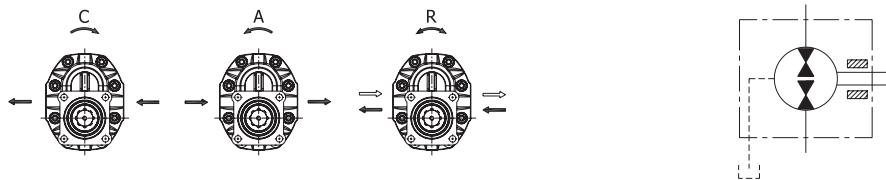
- Kodlama Örneği ; GPM40.087.RST1N
Code Example

ISO TİPİ
TYPE


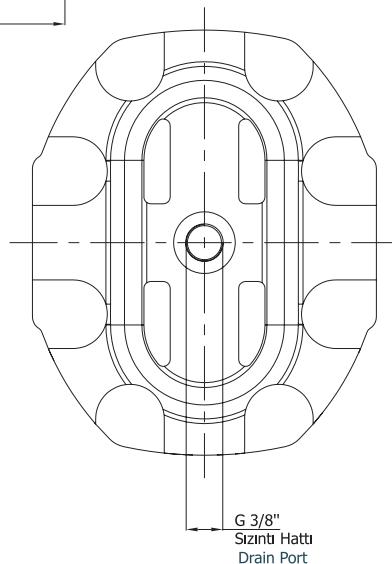
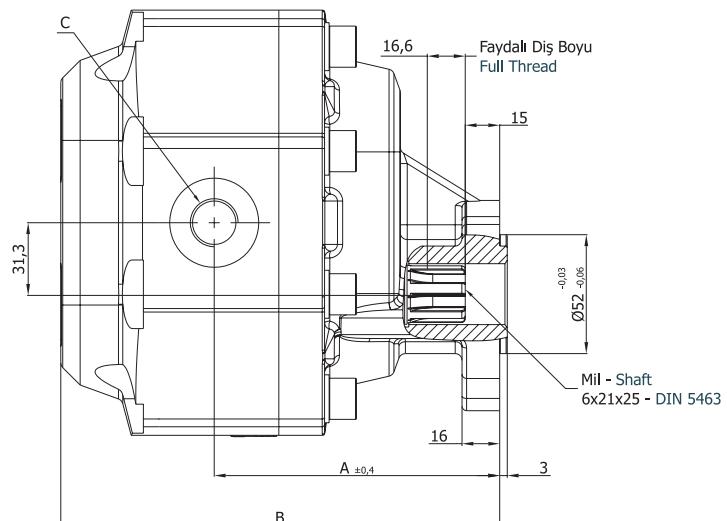
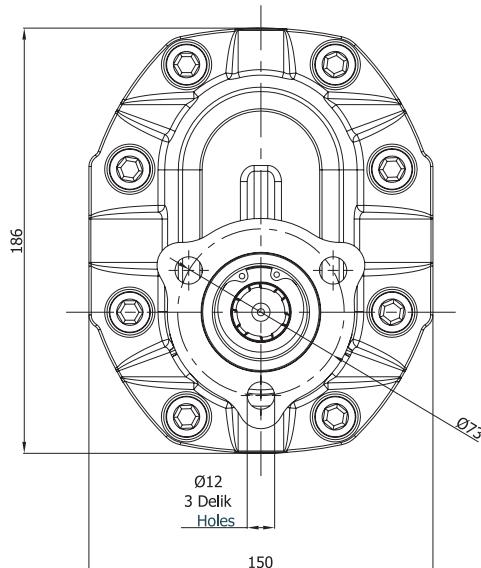
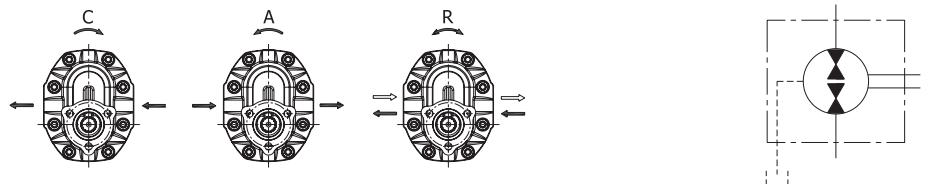
Motor Tipi Motor Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A	B	Giriş – İnlet		Çıkış - Outlet	
						C	c	G 1"	G 1"
GPM40.063.RRM1N	63,8	280	2750	136,3	203,0	G 1"	G 1-1/4"	G 1"	G 1-1/4"
GPM40.073.RRM1N	72,2			137,3	204,6				
GPM40.087.RRM1N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

UNI TİPİ
TYPE

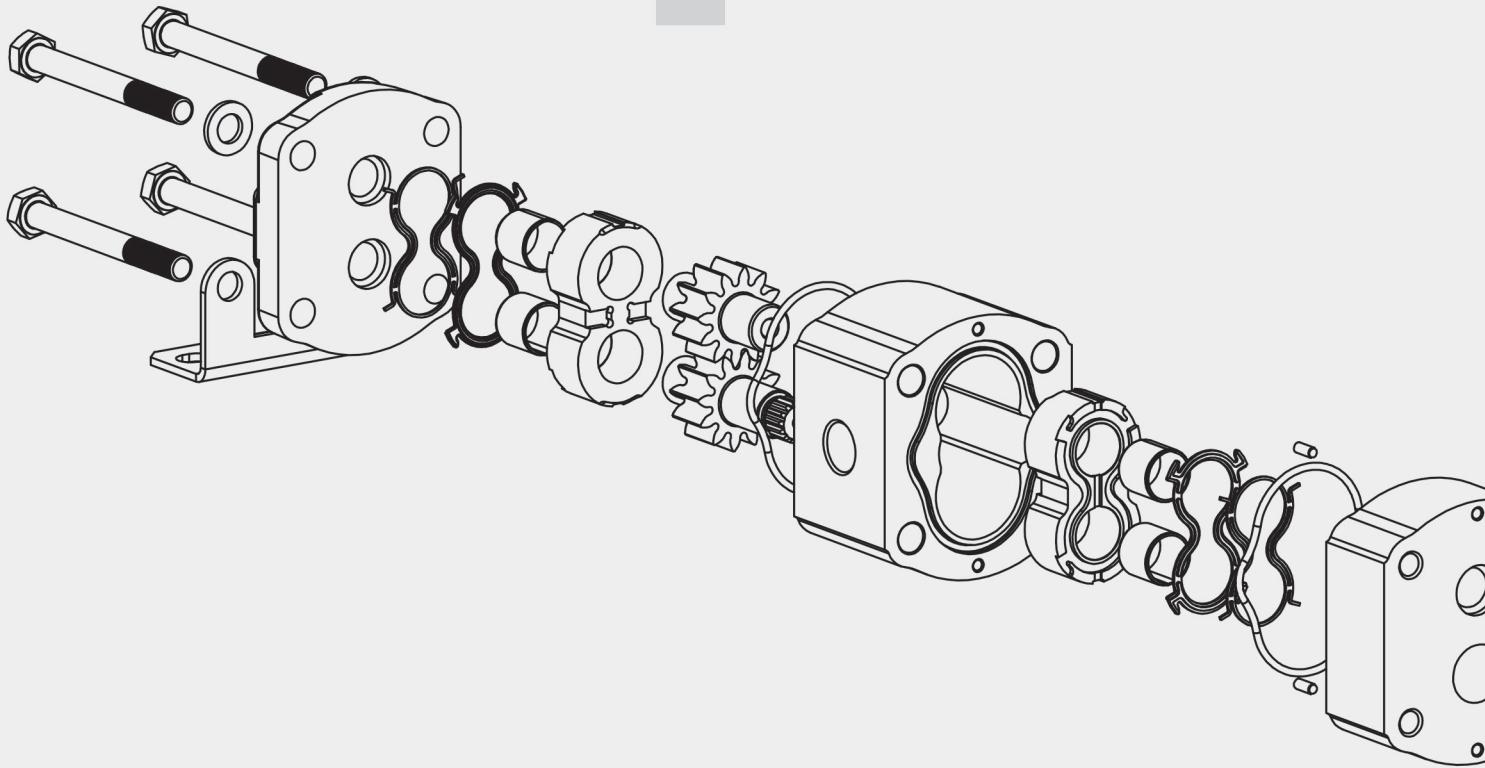
Motor Tipi Motor Type	İletim Hacmi Displacement cm³/dev(cm³/rev)	Maks. Basınç Max. Pressure (bar)	Maks. Hız Max. Speed d/d (rpm)	A	B	Giriş – İnlet	Çıkış - Outlet	
						C	c	
GPM40.063.RST1N	63,8	280	2750	124,0	190,7	G 1"	G 1"	
GPM40.073.RST1N	72,2			125,0	192,3			
GPM40.087.RST1N	86,1	260	2500	128,7	197,3	G 1-1/4"	G 1-1/4"	
GPM40.109.RST1N	107,3			132,7	205,0			
GPM40.133.RST1N	131,6	220		135,7	213,6			
GPM40.151.RST1N	148,3			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 – İnlet	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			145,0	217,3			
GPM40.133.RRS2N	131,6	220	2500	148,0	225,9			
GPM40.151.RRS2N	148,3			153,3	232,3			

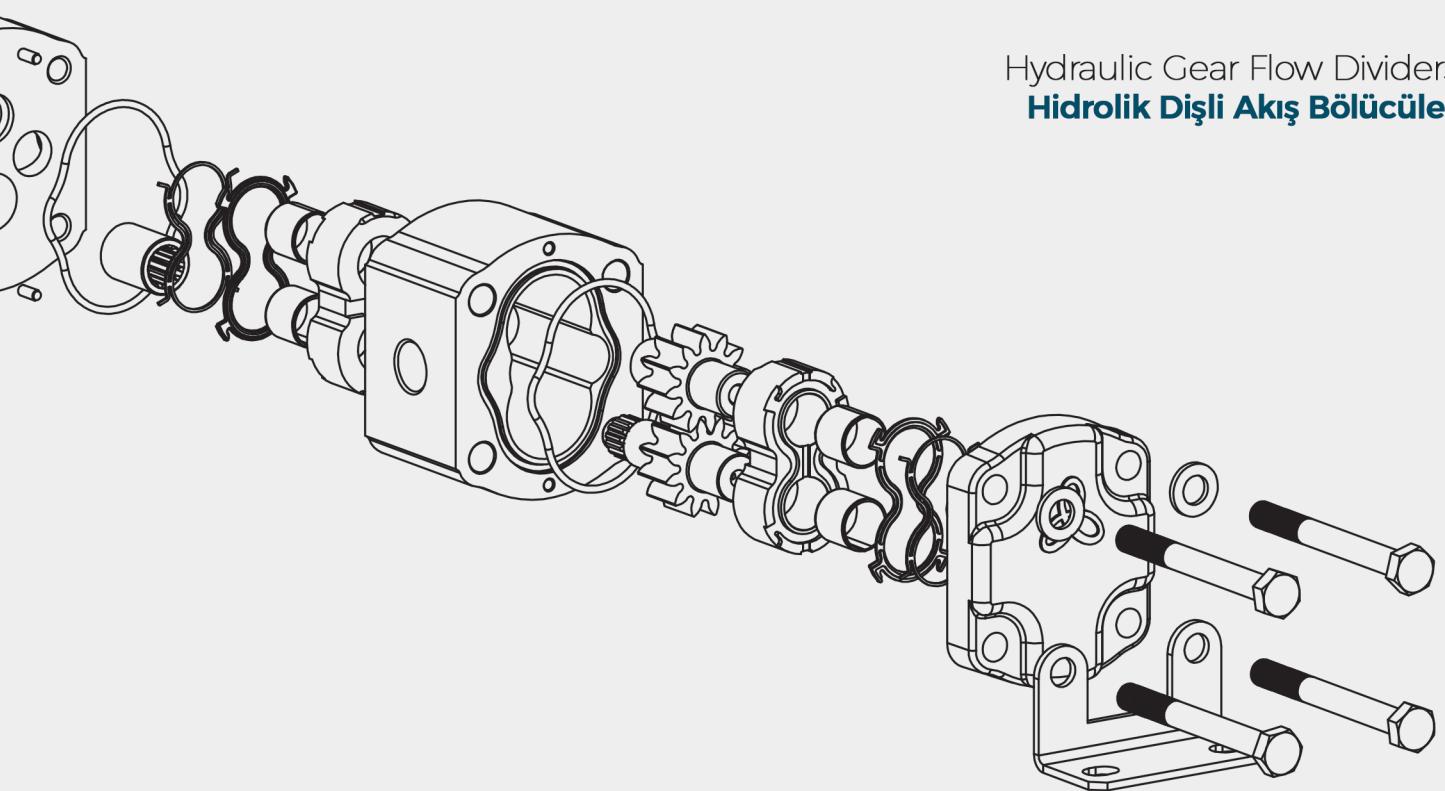
UNI TİPİ
TYPE

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 – İnlet	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			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			



HYDRAULIC GEAR FLOW DIVIDERS

Hydraulic Gear Flow Dividers
Hidrolik Dişli Akış Bölücüleri



1. GENEL BİLGİLER

Akış bölgüsü bir ya da daha fazla dişli gövdenin bir araya gelmesinden oluşur. Farklı gövdeler içindeki dişliler aynı hızda dönmelerini sağlayan bir kaplin ile birbirlerine bağlıdır.

Tandem pompaların aksine, akış bölgüleri gücünü doğrudan bir elektrik motorundan ya da bir şafttan almazlar. Akış bölgüllerin çalışmasını sağlayan güç, bir pompadan gelen basınçlı hidrolik yaşıń eşit bir biçimde akış bölgünün bölmelerini beslemesi ile elde edilir. Böylece akış bölgüleri bir hidrolik devrede ki görevlerini yine getirebilirler.

Her bir akış bölgüsü bölmesinden çıkışacak olan yağ, sadece her bölmenin nominal değeriyle belirlenir. Dişli akış bölgüleri çok daha fazla debi hassasiyetine sahiptir ve güç kaybına sebep olmazlar.

Akış bölgüleri bir hidrolik devrede kullanılan pompa sayısını düşürürler. Bunun yanı sıra sistem de kullanılan elektrik/mekanik motorların, güç aktarma elemanlarının ve bağlantı elemanlarının sayılarını da düşürür.

Küçük kayıplar göz ardı edildiğinde, herhangi bir anda, akış bölgünün tüm bölmelerinden sağlanan toplam çıkış gücü, toplam giriş gücüne eşittir.

Eğer bir süreliye bir bölmeyi beslediği (aktif olmayan ve sizıntı hattı olan) hidrolik devrede ihtiyaç duyulan güç sıfırsa o bölmeyi farklı bir devrede, emis basıncından daha yüksek basınçlarda çalısan devreleri beslemek için kullanılabilir.

2. KULLANIM ALANLARI

- * Lift platformları ve köprüler
- * Hidrolik bükme presleri ve kesme makineleri (testereler)
- * Yük konteynırlarının kaldırıcılarında
- * Makine Yağlama sistemlerinde
- * Hidrolik açılıp/ kapanan kapıarda
- * Otomatik hidrolik sürücülü makinelerde
- * Yapı malzemesi şekillendirme işlerinde
- * Ağaç işleme makinelerinde
- * Gıda endüstrisi cihazlarında
- * Askeri uygulamalarda
- * Hidrolik silindir veya motorlarla hareket eden taşıma arabalarında

Basınç yükseltici olarak :

Bir hidrolik sisteme bir bölüm diğer bölmelerden daha fazla basınç veya pık basınç ihtiyaç duyduğunda, bütün sisteme köklü değişikliğe gitmek yerine, bunu akış bölgüsü ile çözmek daha güvenlidir. İki bölmeli bir akış bölgüsünde, bölmelerden birinin beslediği kısımda basınç ihtiyacı sıfır olursa, akış bölgünün diğer bölmesinin basıncı ani olarak yükselebilir ve istenilen kullanıma cevap verir. Örneğin ; Ani hızlanan presler ve makine takımlarında.

1. GENERAL INFORMATION

A flow divider is made up of two or more modular elements (sections) with gears mechanically linked by an internal shaft that causes them to turn at the same speed.

Unlike multiple pumps, in which the input power is mechanical (shaft connected to a motor), in a flow divider the input power is of a fluid-mechanical nature, i.e. a flow of oil under pressure parallelly supplies the modular elements, which are in turn connected to the hydraulic circuits serving the users.

The portion of flow utilized by each element is solely determined by its nominal flow rate. Therefore, unlike standard static DIVIDERS with variable ports, the flow DIVIDERS do not cause dissipation and are also much more precise.

The use of flow DIVIDERS in a system reduces the number of pumps necessary as well as the associated individual mechanical power takeoffs and complex mechanical couplers (with greater losses). Leaving aside small losses for the time being, at any given moment the total input power is equal to the sum of the powers supplied by all elements making up the flow divider.

Therefore, if in an interval of time the power required by a hydraulic circuit is equal to zero (inactive drained circuit), the power supplied by the element feeding that circuit becomes available for the other elements, which may use it in their own circuits, also operating at higher pressures than the intake pressure.

2. APPLICATION AREA

- * Lifting platforms and bridges
- * Hydraulic bending presses and shearing machines
- * Hoisting of freight containers
- * Lubrication systems
- * Hydraulic opening / closing of gates
- * Automatic hydraulically-driven machines
- * Actuation of formwork for construction
- * Wood processing machinery
- * Equipment for the food industry
- * Military installations
- * Conveyance of trolleys driven by hydraulic cylinders or motors

Pressure amplifiers :

When in a hydraulic system one user requires a much higher operating or peak pressure than all the others, it is more convenient to supply it by means of a flow divider than to upgrade the whole system to work with higher pressure. With a two-element flow divider flow may be discharged from the outlet of one element so that the pressure in the other will become much higher than that of the pump supplying the system.

Examples : presses with rapid approach and machine tools.

3. TAVSİYE EDİLEN YAĞ

Mineral esaslı anti aşınma tip HLP(DIN 51524), HM(ISO 6743/4) veya ISO VG32, ISO VG46 ve ISO VG68 hidrolik yağlarının kullanılması tavsiye edilir.

Tavsiye edilen viskozite aralığı : 20 - 120 (cSt)

3. RECOMMENDED FLUIDS

We recommend using only mineral based hydraulic oils with viscosity range of anti-wear type mineral based hydraulic oil HLP(DIN 51524), HM(ISO 6743/4) or ISO VG32, ISO VG46 and ISO VG68. Recommended viscosity range: 20-120(cSt)

Çalışma basıncı Operating pressure	> 200 bar	< 200 bar
Kirlilik sınıfı Contamination class NAS 1638	8	10
Kirlilik sınıfı Contamination class ISO 4406	17/14	19/16
Filtre Obtain with filter → (Bx=75)	10 µm	25 µm

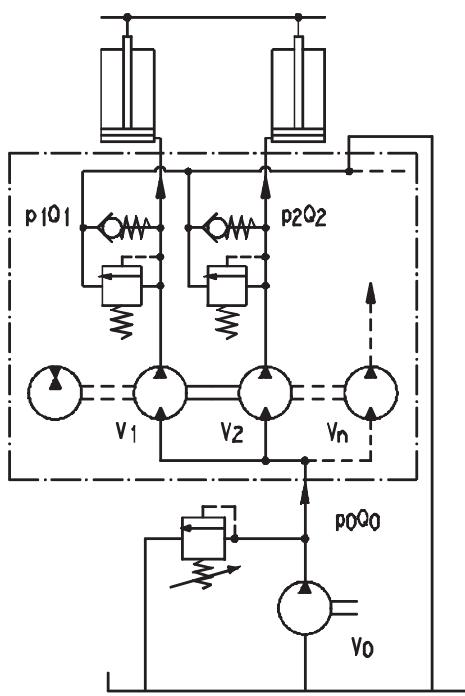
4. ÇALIŞMA SICAKLIĞI

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

4. OPERATION TEMPERATURE

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

İLETİM HACMİ SEÇİMİ DISPLACEMENT SELECTION



V(cm³/ dev) : İletim Hacmi

V(cm³/ rev) : Displacement

Q(lt/dak) : Debi

Q(l/min) : Flow Range

p(bar) : Basınç

p(bar) : Pressure

n(d/d) : Hız

n(rpm) : Speed

$$Q_0 = Q_1 + Q_2 \dots + Q_n$$

$$p_0 Q_0 = p_1 Q_1 + p_2 Q_2 \dots + p_n Q_n$$

$$V_{(..)} = \frac{1000 Q_{(..)}}{n}$$

GRUP 10 AKIŞ BÖLÜCÜLERİN KODLAMA SİSTEMİ
ORDERING CODE OF GROUP 10 FLOW DIVIDERS

AFD10	.	4	-	3,2	/	3,2	/	3,2	/	3,2	R1	N	
Akış Bölücü Tipi Flow Divider Type													
Eleman Sayısı Number of Elements													
2-3-4-5-6-7-8													
İletim Hacmi / Displacement cm³/dev (cm³/rev)													
1,2 = 1,2 cm ³ /dev (cm ³ /rev) 1,7 = 1,7 cm ³ /dev (cm ³ /rev) 2,3 = 2,3 cm ³ /dev (cm ³ /rev) 2,7 = 2,7 cm ³ /dev (cm ³ /rev) 3,2 = 3,2 cm ³ /dev (cm ³ /rev) 3,8 = 3,8 cm ³ /dev (cm ³ /rev) 4,3 = 4,3 cm ³ /dev (cm ³ /rev) 5,0 = 5,0 cm ³ /dev (cm ³ /rev) 6,3 = 6,3 cm ³ /dev (cm ³ /rev) 7,8 = 7,8 cm ³ /dev (cm ³ /rev) 9,5 = 9,5 cm ³ /dev (cm ³ /rev)													
Valf Basınç Ayarı Valve Setting (bar)													
R1 10-90 R2 70-140 R3 120-190 Yok / Absent													
Keçe / Seal													
N NBR V VITON													

- Kodlama Örneği (Eşit iletim hacmi) ; AFD10.3-3,2N
Code Example (Same displacement)

- Kodlama Örneği (Farklı iletim hacmi) ; AFD10.3-3,2/2,7/2,3N
Code Example (Different displacement)

TEKNİK ÖZELLİKLER / TECHNICAL DATA

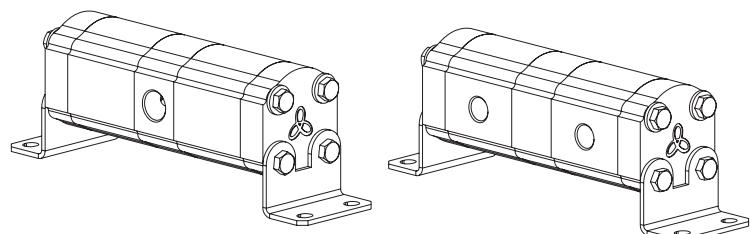
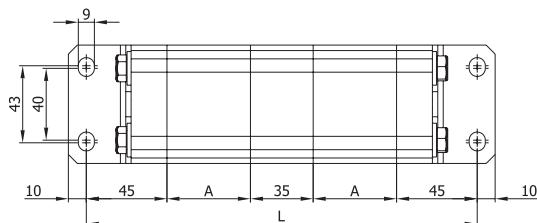
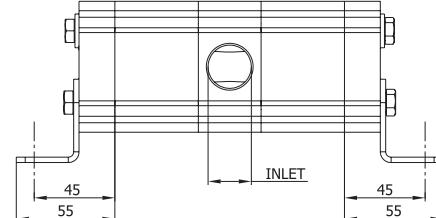
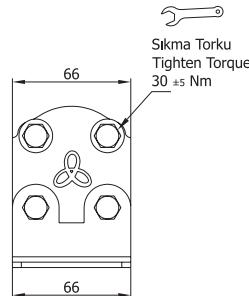
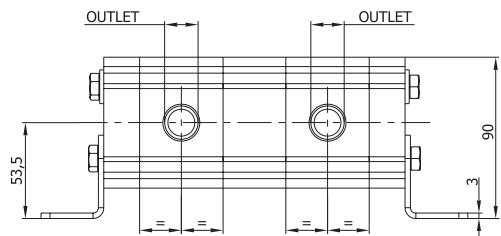
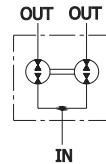
Tipi Type	İletim Hacmi Displacement cm ³ /dev	Maks. Basınç / Max. Pressure		ΔP bar	Maks. Hız Max. Speed d/d (rpm)	Min. Hız Min. Speed	Min. Debi Min. Flow Rate lt/dk (l/min)	Maks. Debi Maks. Flow Rate
		P1 bar	P3					
AFD10.X.1,2N	1,2						1,5	4,2
AFD10.X.1,7N	1,7						2,0	6,0
AFD10.X.2,3N	2,3						2,8	8,0
AFD10.X.2,7N	2,7						3,2	9,5
AFD10.X.3,2N	3,2						3,8	10,8
AFD10.X.3,8N	3,8						4,6	11,4
AFD10.X.4,3N	4,3						5,2	12,9
AFD10.X.5,0N	5,0						6,0	15,0
AFD10.X.6,3N	6,3						7,6	18,9
AFD10.X.7,8N	7,8	210	260				9,4	23,4
AFD10.X.9,5N	9,5	200	240				11,4	28,5

P1: Sürekli çalışma basıncı
Continuous pressure

P3 : Ani basınç
Peak pressure

GİRİŞ PORTUNDAN GEÇEBİLECEK MAKS. DEBİ
MAX. FLOW FOR INLET SECTION

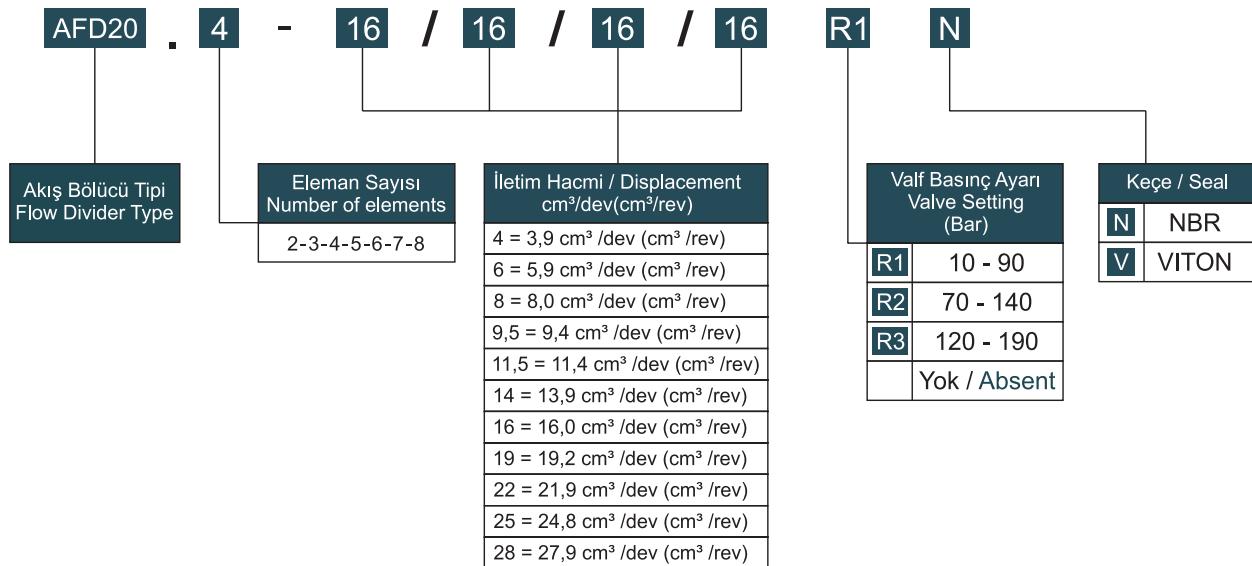
37,5 lt/dk (l/min)



Tipi Type	cm ³ /dev (cm ³ /rev)	A	Giriş Inlet	Çıkış Outlet	(L) Boyu - Length						
					2	3	4	5	6	7	8
AFD10.X.1,2N	1,2	39			203,0	277,0	351,0	425,0	499,0	573,0	647,5
AFD10.X.1,7N	1,7	41			207,0	283,0	359,0	435,0	511,0	587,0	663,5
AFD10.X.2,3N	2,3	43			211,0	289,0	367,0	443,0	523,0	601,0	679,5
AFD10.X.2,7N	2,7	45			215,0	295,0	375,0	455,0	535,0	615,0	695,5
AFD10.X.3,2N	3,2	46,5			218,0	300,0	381,5	463,0	545,0	626,5	708,0
AFD10.X.3,8N	3,8	49			223,0	307,0	391,0	475,0	559,0	643,0	727,5
AFD10.X.4,3N	4,3	51			227,0	313,0	399,0	485,0	571,0	657,0	743,5
AFD10.X.5,0N	5,0	54			233,0	322,0	411,0	500,0	589,0	678,0	767,5
AFD10.X.6,3N	6,3	59			243,0	337,0	431,0	525,0	619,0	713,0	807,5
AFD10.X.7,8N	7,8	65			255,0	355,0	455,0	555,0	655,0	755,0	855,5
AFD10.X.9,5N	9,5	72			269,0	376,0	483,0	590,0	697,0	804,0	911,5

Eleman Sayısı - Number of Elements	2	3	4	5	6	7	8
Giriş Port Sayısı - Number of Inlets	1	1	2	2	3	3	4

GRUP 20 AKIŞ BÖLÜCÜLERİN KODLAMA SİSTEMİ
ORDERING CODE OF GROUP 20 FLOW DIVIDERS



- Kodlama Örneği (Same displacement) ; AFD20.3-16N
Code Example (Same displacement)

- Kodlama Örneği (different displacement) ; AFD20.3-16/14/11,5N
Code Example (Different displacement)

TEKNİK ÖZELLİKLER / TECHNICAL DATA

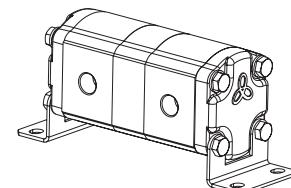
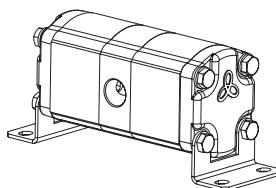
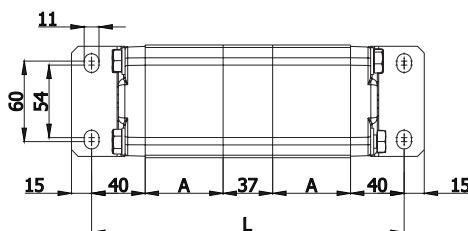
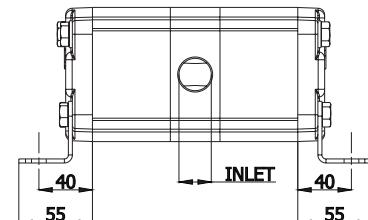
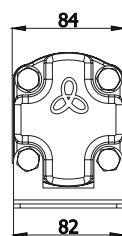
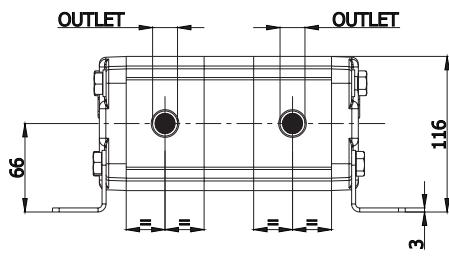
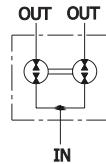
Tipi Type	İletim Hacmi Displacement	Maks. Basınç / Max. Pressure		ΔP	Maks. Hız Max. Speed	Min. Hız Min. Speed	Min. Debi Min. Flow Rate	Maks. Debi Maks. Flow Rate
		P1	P3					
	cm³/dev (cm³/rev)	bar		bar	d/d (rpm)		lt/dk (l/min)	
AFD20.X.4N	3,9						4,8	11,2
AFD20.X.6N	5,9						7,3	16,8
AFD20.X.8N	8,0	250	280	50	3000	1250	10,0	22,8
AFD20.X.9,5N	9,4						11,2	24,6
AFD20.X.11,5N	11,4						13,8	29,8
AFD20.X.14N	13,9						16,6	36,3
AFD20.X.16N	16,0	230	260	40	2750	1200	19,2	38,0
AFD20.X.19N	19,2	210	240		2500		22,0	46,0
AFD20.X.22N	21,9	190	220				25,2	47,8
AFD20.X.25N	24,8	170	200	30	2000	1100	28,5	52,0
AFD20.X.28N	27,9	160	190				32,0	54,7

P1: Sürekli çalışma basıncı
Continuous pressure

P3 : Ani basınç
Peak pressure

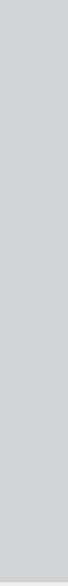
GİRİŞ PORTUNDAN GEÇEBİLECEK MAKS. DEBİ
MAX. FLOW FOR INLET SECTION

80 lt/dk (l/min)



Tipi Type	cm ³ /dev (cm ³ /rev)	A	Giriş Inlet	Çıkış Outlet	(L) Boyu - Length						
					2	3	4	5	6	7	8
AFD20.X.4N	3,9	46,5	G 3/4"	G 1/2"	210,0	293,5	377,0	460,5	544,0	627,4	710,8
AFD20.X.6N	5,9	49,5			216,0	302,5	389,0	475,5	562,0	648,5	735,0
AFD20.X.8N	8,0	52,5			222,0	311,5	401,0	490,5	580,0	669,6	759,2
AFD20.X.9,5N	9,4	55,0			227,0	319,0	411,0	503,0	595,0	686,9	778,8
AFD20.X.11,5N	11,4	58,0			233,0	328,0	423,0	518,0	613,0	708,1	803,2
AFD20.X.14N	13,9	62,0			241,0	340,0	439,0	538,0	637,0	736,0	835,0
AFD20.X.16N	16,0	65,0			247,0	349,0	451,0	553,0	655,0	757,2	859,4
AFD20.X.19N	19,2	82,0			281,0	400,0	519,0	638,0	757,0	876,2	995,4
AFD20.X.22N	21,9	86,5			290,0	413,5	537,0	660,5	784,0	907,5	1031,0
AFD20.X.25N	24,8	91,6			300,0	429,0	557,5	686,0	815,0	943,6	1072,2
AFD20.X.28N	27,9	96,0			309,0	442,0	575,0	708,0	841,0	973,9	1106,9

Eleman Sayısı - Number of Elements	2	3	4	5	6	7	8
Giriş Port Sayısı - Number of Inlets	1	1	2	2	3	3	4



The Future of Hydraulic Power

Hidrolik Gücün Geleceği

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