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# KAZEL®

## HYDRAULIC EQUIPMENTS

**1982**'den bugüne her yükün  
altından başarıyla kalktık...  
we have successfully performed  
all the tasks since 1982



ÜRÜN KATALOĞU  
PRODUCT CATALOGUE **2020**





Kazeloğulları Limited Şirketi 1982 yılında Konya'da kurulmuş olup, yüksek teknolojik alt yapısı ve alanında uzman kadrosuyla; pompa grupları, valf grupları, tank grupları, aktarma ve bağlantı elemanları üretmektedir. Firmamız ISO 9001-2008 KALİTE YÖNETİM SİSTEMİ belgesine sahip, 11000 m<sup>2</sup> açık ve 6000 m<sup>2</sup> kapalı alanda dünya standartlarındaki modern tesisi ile hizmet vermektedir. Teknolojik imkan ve kabiliyetleri yüksek olan tesisimizde;

- Bilgisayar destekli cad/cam programları,
- CNC torna tezgahları,
- CNC işleme merkezleri,
- Standart üstü, hassas takımlar, ürünlere özel modeller ve bağlantı aparatları,
- CNC azdırma ve fellow tezgahları,
- CNC taşlama tezgahı
- Raspa tezgahları,
- Üniversal tezgahlar,
- Çeşitli kapasitelerdeki hidrolik, pnömatik ve eksantrik presler, İle etkin tecrübesini harmanlayarak ürün yelpazesini geliştirerek üretimine devam etmektedir.

Firmamız kalite kontrol laboratuvarı bünyesinde

- Son teknoloji ürünü 3 koordinatlı (CMM) ölçme tezgahı,
- Düzlem ölçüm cihazı,
- Sertlik ölçüm cihazı,
- Tam otomatik ve NC kontrollü deneme tezgahları, ile kalite hedeflerini ürünlerine yansıtmaktadır.

Teknolojimiz ve dünyada edindiğimiz yeri beraberce daha ileriye taşımak dileğiyle.

Kazeloğulları Ltd Company was established in Konya in 1982 and it has been manufacturing pump series, valve series, tank series, power take offs data and fittings with the high-tech infrastructure and its professional staff. Our Firm has ISO 9001-2008 QUALITY MANAGEMENT SYSTEM certificate and serves in its 11000 m<sup>2</sup> open and 6000 m<sup>2</sup> closed modern building is in the world standards. In Our Facility, with high-tech potentiality and capabilities;

- Computer-aided CAD/Cam programs,
  - CNC Turning Lathes,
  - CNC Machining Centers,
  - Over standard, sensitive kits, special moulds for products and connecting devices,
  - CNC Gear Hobbing Machines and Fellow Benches,
  - CNC Grinding machine
  - Scraper Benches,
  - Universal Benches,
  - In Various Capacity Hydraulic, Pneumatic and Eccentric Presses,
- By the help of all above, our firm goes on its production by improving its products range with its wide experience.

Within Our firm Quality Control Laboratory System;

- 3 coordinate (CMM) measuring bench which is state of the art technology product,
- Plane measuring device,
- Hardness measuring device,
- Full automatic and NC controlled test benches, by the help of all above, our firm reflects its quality targets to its products.

We wish to carry our high technology and the place we obtain in the world together further away.



# KAZEL®

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# KAZEL®

## EDNA GEAR PUMP & MOTOR

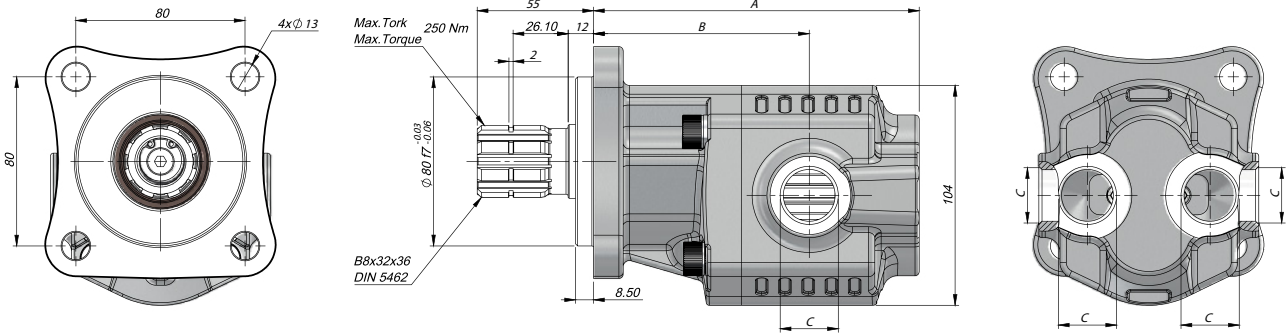
20 SERIES



## TEKNİK VERİLER | TECHNICAL DATA

## 4 DELİKLİ ISO ÇİFT YÖNLÜ DİŞLİ POMPA | 4 HOLES ISO BI-DIRECTIONAL GEAR PUMP

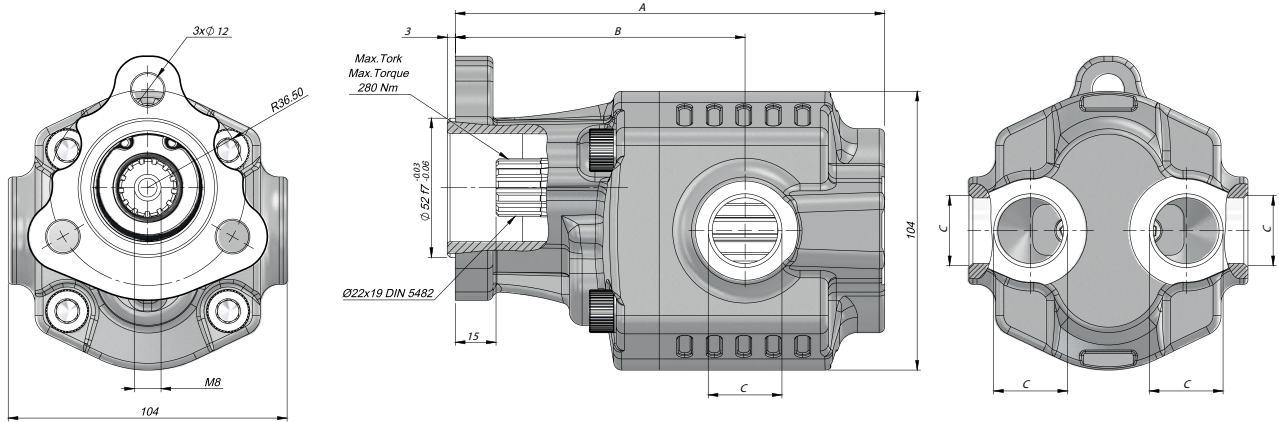
Giriş Basıncı   Inlet Pressure	0.3÷ 2 bar		
Çalışma Viskozite Seviyesi   Operating Viscosity Range	-12:100 cSt		
Sıvı Sıcaklığı   Fluid Temperature	-40 °C+145 °C		
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
20-ISO	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
G20006SF131	6	280	300	2300	124	90	G1/2"	G1/2"
G20010SF131	10				130	96		
G20016SF131	16				140	96		
G20020SF131	20	260		146	100	G3/4"	G3/4"	
G20025SF131	25	220		154	102			
G20032SF131	32	190		2100	165	113	G3/4"	G3/4"
G20040SF131	40	180	1900	178	126			

**TEKNİK VERİLER | TECHNICAL DATA****3 DELİKLİ UNI ÇİFT YÖNLÜ DİŞLİ POMPA | 3 HOLES UNI BI-DIRECTIONAL GEAR PUMP**

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 µm
≤200 bar	12	21/18	40 µm

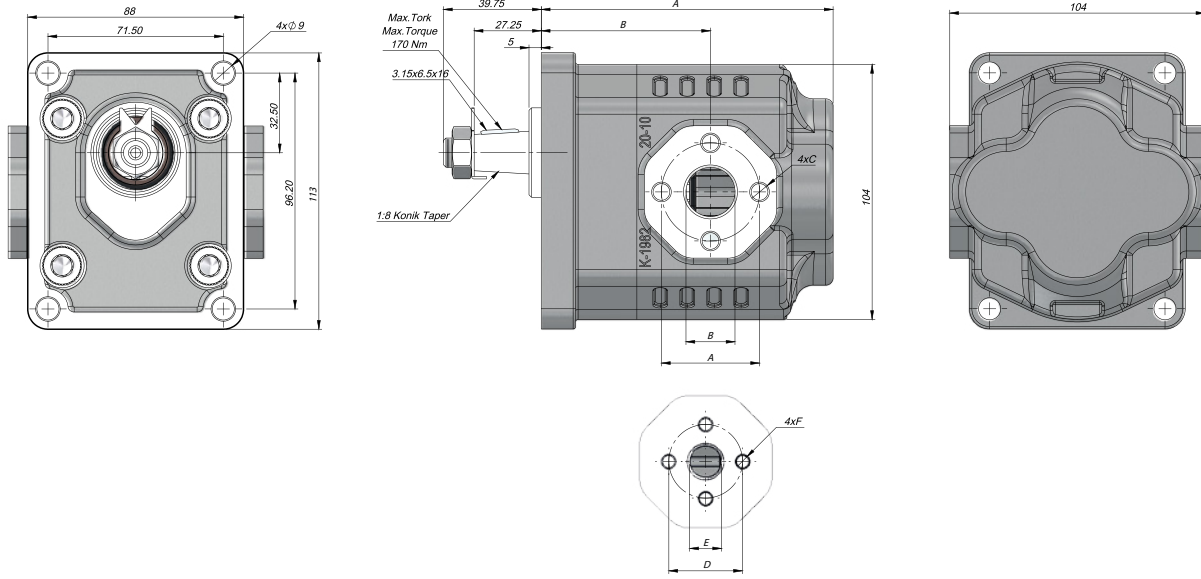


Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
20-UNI	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
G20006UF731	6	280	300	2300	130	96	G1/2"	G1/2"
G20010UF731	10				136	102		
G20016UF731	16				146	102		
G20020UF731	20	260		152	106	G3/4"	G3/4"	
G20025UF731	25	220		160	108			
G20032UF731	32	190		171	119			
G20040UF731	40	180	190	184	132			

## TEKNİK VERİLER | TECHNICAL DATA

## 4 DELİKLİ KAMALI K ADAPTÖRLÜ DİŞLİ POMPA | 4 HOLES KEYED K WITH EUROPAN FLANGED PORT GEAR PUMP

Giriş Basıncı   Inlet Pressure	0.3÷ 2 bar		
Çalışma Viskozite Seviyesi   Operating Viscosity Range	-12:100 cSt		
Sıvı Sıcaklığı   Fluid Temperature	-40 °C+145 °C		
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet			Çıkış Outlet		
20-KA	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D	E	C	D	E
*G2010KK612	10	280	300	2300	119	69	40	20	M8	30	13	M6
*G2010KK622							40	20	M8	30	13	M6
*G2010KK632							40	20	M8	40	20	M8

\* (1) - Left - Sol

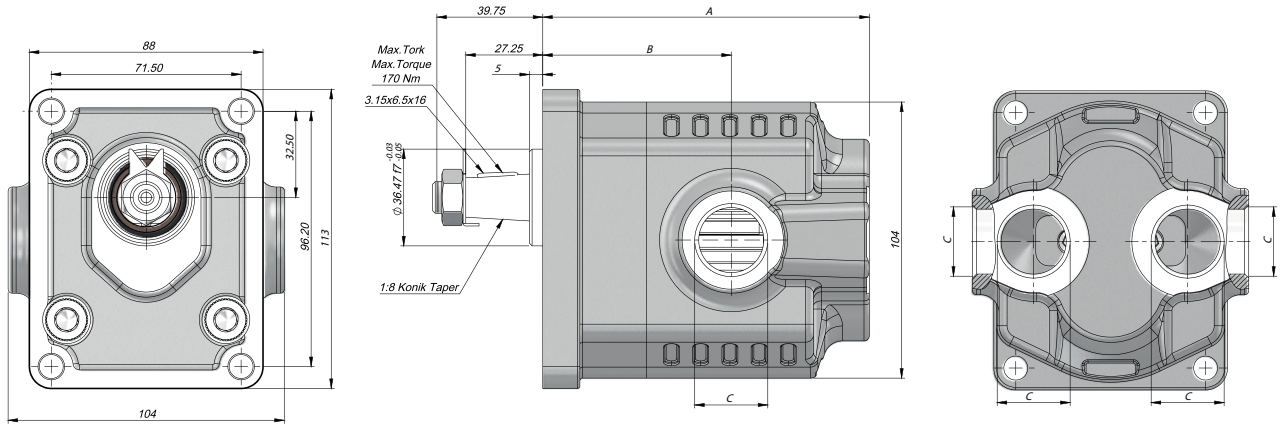
(2) - Right - Sağ

(3) - Bi-Directional (Çift Yönlü)

## TEKNİK VERİLER | TECHNICAL DATA

## 4 DELİKLİ K KAMALI ÇİFT YÖNLÜ DİŞLİ POMPA | 4 HOLES K KEYED BI-DIRECTIONAL GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
$\geq 200$ bar	11	20/17	25 $\mu$ m
$\leq 200$ bar	12	21/18	40 $\mu$ m



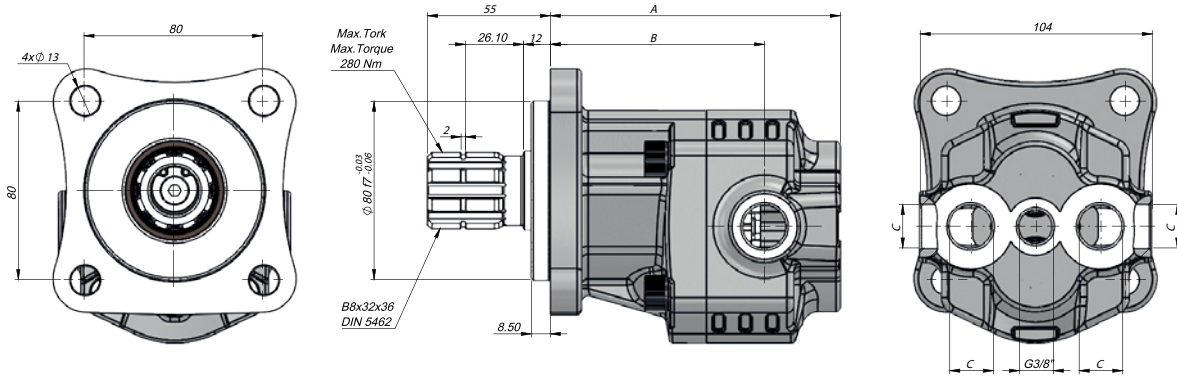
Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
20-KR	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
G20006KK631	6	280	300	2300	93	59	G1/2"	G1/2"
G20010KK631	10				99	65		
G20016KK631	16				109	65		
G20020KK631	20	260		115	69	G3/4"	G3/4"	
G20025KK631	25	220		123	71			
G20032KK631	32	190		134	82	147	95	
G20040KK631	40	180	1900	95				



## TEKNİK VERİLER | TECHNICAL DATA

### 4 DELİKLİ ISO ÇİFT YÖNLÜ DİŞLİ MOTOR | 4 HOLES ISO BI-DIRECTIONAL GEAR MOTOR

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
$\geq 200$ bar	11	20/17	25 $\mu\text{m}$
$\leq 200$ bar	12	21/18	40 $\mu\text{m}$

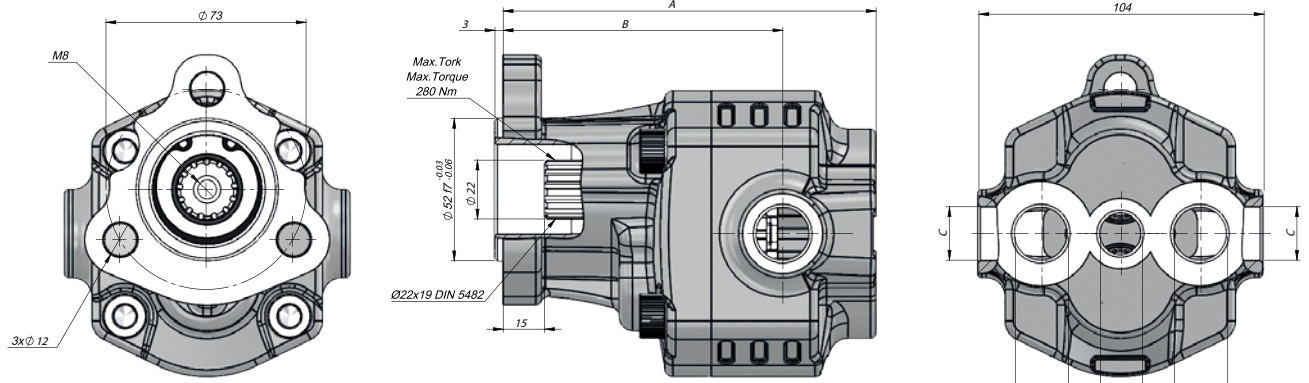


Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
20-ISO	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
GM20006SF131	6	280	300	2300	124	90	G1/2"	G1/2"
GM20010SF131	10				130	96		
GM20016SF131	16				140	96		
GM20020SF131	20	260		2100	146	100	G3/4"	G3/4"
GM20025SF131	25	220			154	102		
GM20032SF131	32	190			165	113		
GM20040SF131	40	180	1900	178	126			

### TEKNİK VERİLER | TECHNICAL DATA

#### 3 DELİKLİ UNI ÇİFT YÖNLÜ DİŞLİ MOTOR | 3 HOLES UNI BI-DIRECTIONAL GEAR MOTOR

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
$\geq 200$ bar	11	20/17	25 $\mu\text{m}$
$\leq 200$ bar	12	21/18	40 $\mu\text{m}$

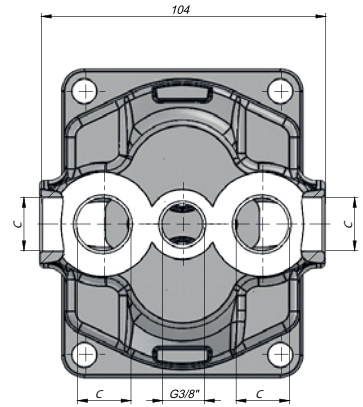
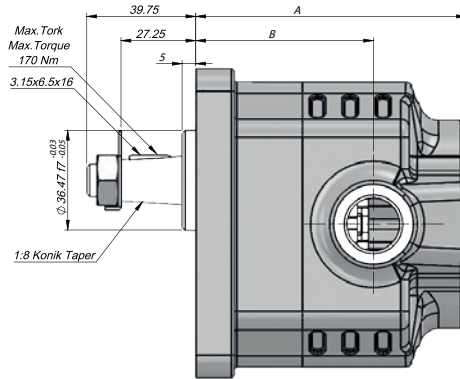
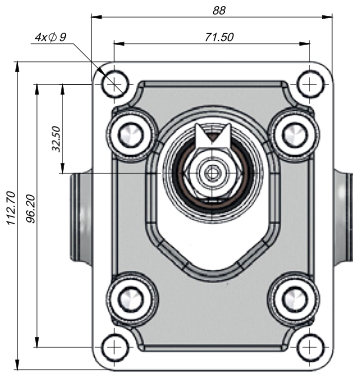


Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
20-UNI	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
GM20006UF731	6	280	300	2300	130	96	G1/2"	G1/2"
GM20010UF731	10				136	102		
GM20016UF731	16				146	102		
GM20020UF731	20	152			106			
GM20025UF731	25	160			108			
GM20032UF731	32	190		2100	171	119	G3/4"	G3/4"
GM20040UF731	40	180	1900	184	132			

## TEKNİK VERİLER | TECHNICAL DATA

4 DELİKLİ K KAMALI ÇİFT YÖNLÜ DİŞLİ MOTOR | 4 HOLES K KEYED BI-DIRECTIONAL GEAR MOTOR

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
$\geq 200$ bar	11	20/17	25 $\mu\text{m}$
$\leq 200$ bar	12	21/18	40 $\mu\text{m}$

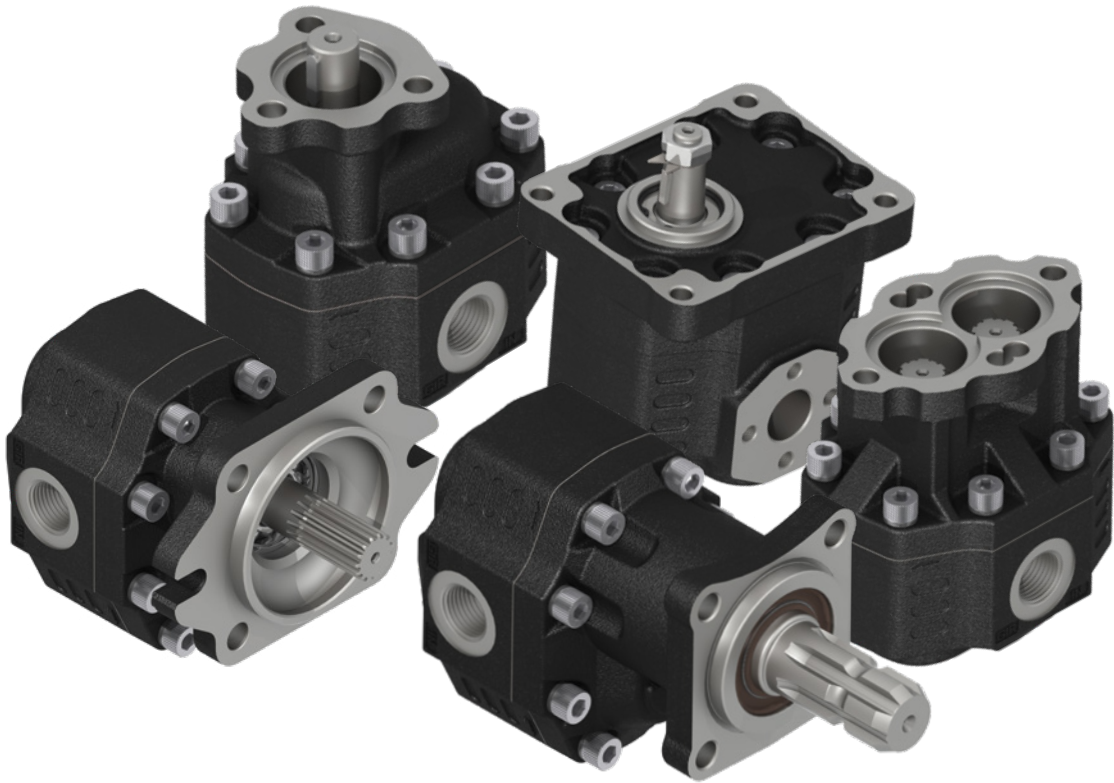


Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
20-KR	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
GM20006KK631	6	280	300	2300	93	59	G1/2"	G1/2"
GM20010KK631	10				99	65		
GM20016KK631	16				109	65		
GM20020KK631	20	260			115	69		
GM20025KK631	25	220			123	71		
GM20032KK631	32	190		2100	134	82	G3/4"	G3/4"
GM20040KK631	40	180	1900	147	95			

# KAZEL<sup>®</sup>

## EHASS GEAR PUMP & MOTOR

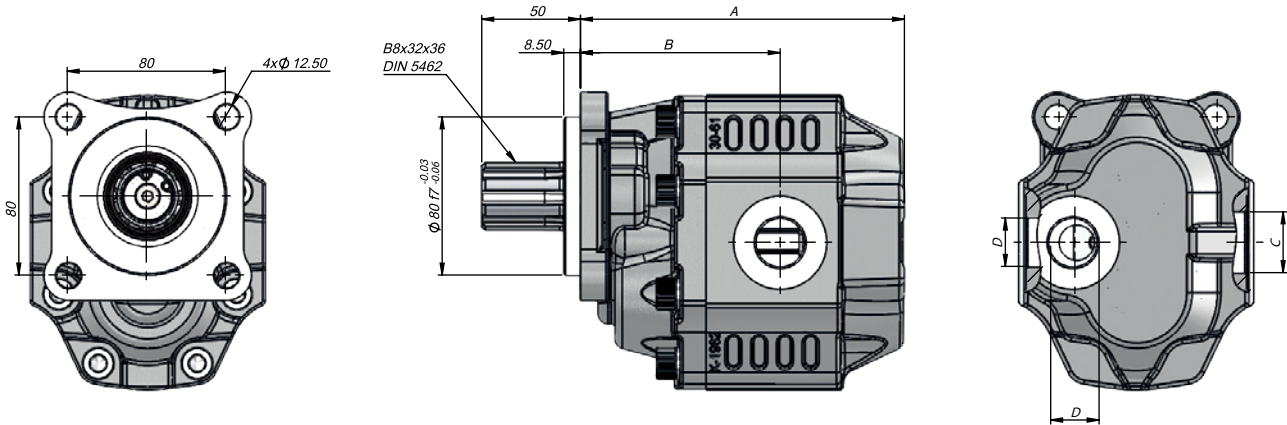
30 SERIES



**TEKNİK VERİLER | TECHNICAL DATA**

**4 DELİKLİ KISA VERİYON ISO DİŞLİ POMPA | 4 HOLES SHORT VERSION ISO GEAR PUMP**

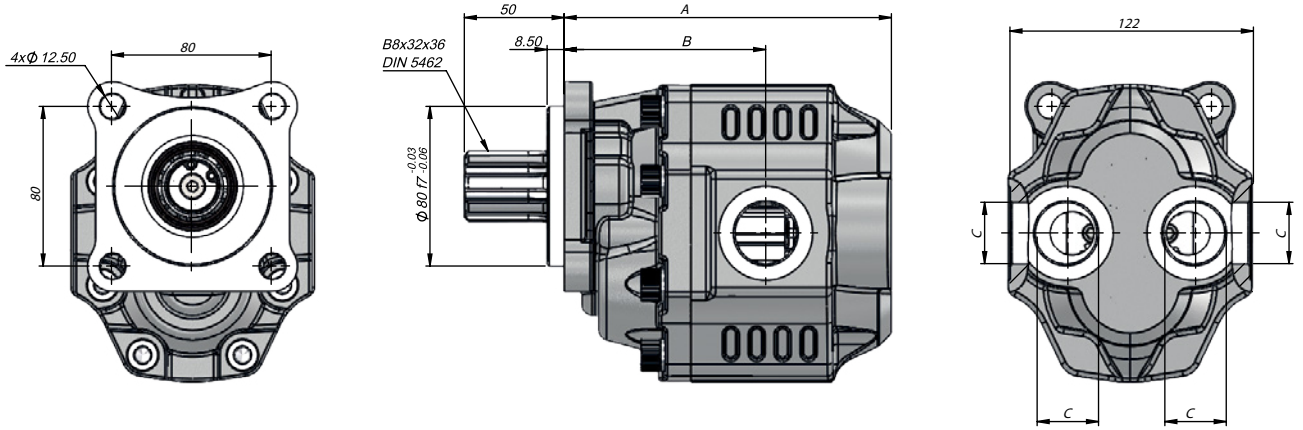
Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D
G30017SSF111	G30017SSF121	17	300	300	2500	132	83,5	G1/2"	G1/2"
G30027SSF111	G30027SSF121	27	290			138	88,5		
G30034SSF111	G30034SSF121	34	285		2200	143	89,5	G3/4"	G3/4"
G30043SSF111	G30043SSF121	43	280						
G30051SSF111	G30051SSF121	51	230		2000	149	94,5	G1"	G3/4"
G30061SSF111	G30061SSF121	61	225						
G30073SSF111	G30073SSF121	73	215		1800	173	103	G1"	G1"
G30082SSF111	G30082SSF121	82	215						
G30100SSF111	G30100SSF121	100	200		1600	173	105	G1 1/4"	G1" G3/4" (Alternative)
G30125SSF111	G30125SSF121	125	170						

**4 DELİKLİ KISA VERİYON ISO DİŞLİ POMPA | 4 HOLES SHORT VERSION ISO GEAR PUMP**

Giriş Basıncı   Inlet Pressure	0.3÷ 2 bar		
Çalışma Viskozite Seviyesi   Operating Viscosity Range	-12:100 cSt		
Sıvı Sıcaklığı   Fluid Temperature	-40 °C+145 °C		
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m

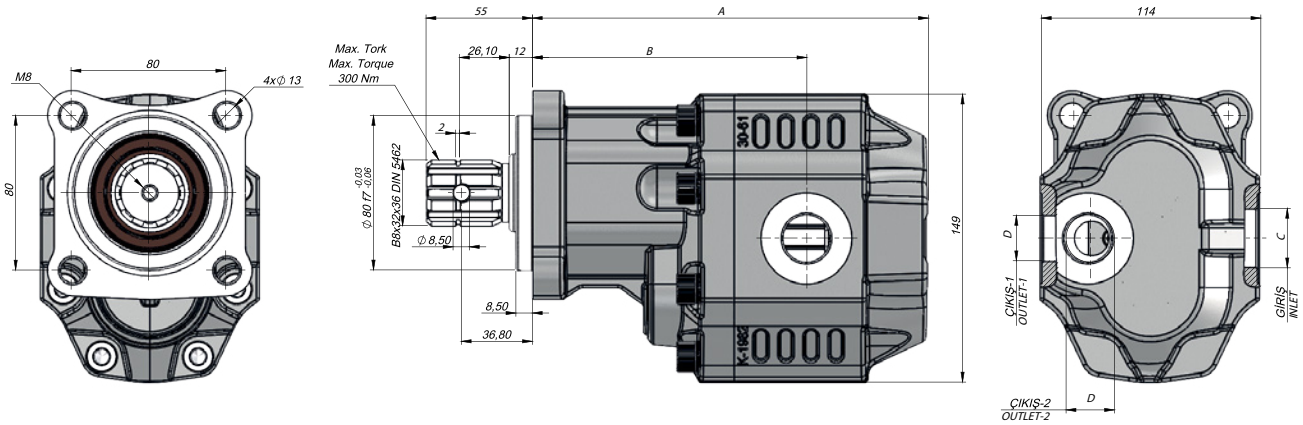


Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
G30034SSF135	34	260	300	2000	145	89,5	G3/4"	C
G30043SSF135	43	250		1800	151	94,5		
G30051SSF135	51	200		1600	156	94,5	G1"	C
G30061SSF135	61	195			164	101		
G30073SSF135	73	190			169	103		
G30082SSF135	82	180			175	105		

### TEKNİK VERİLER | TECHNICAL DATA

#### 4 DELİKLİ ISO DİŞLİ POMPA | 4 HOLES ISO GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu\text{m}$
≤200 bar	12	21/18	40 $\mu\text{m}$

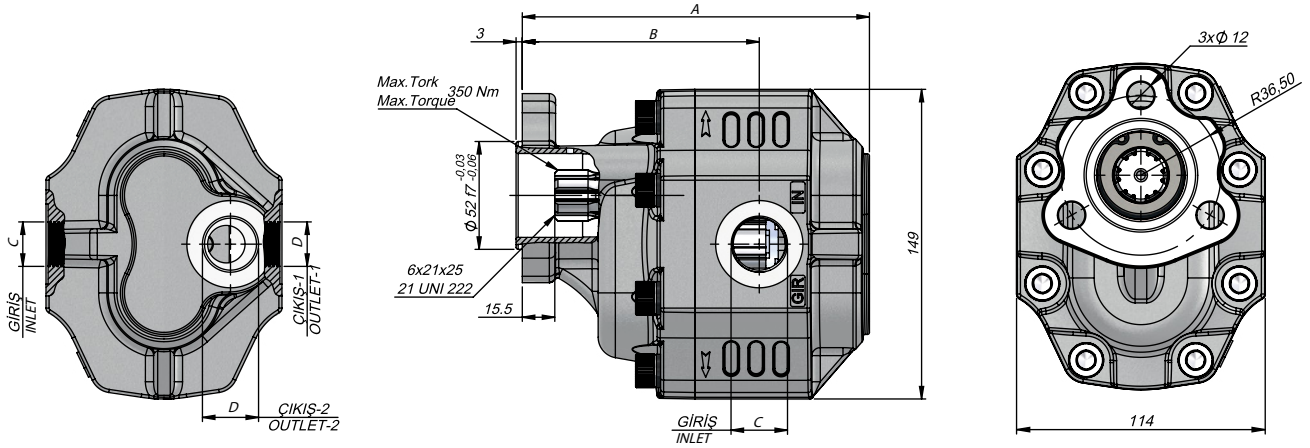


Kod Code		İletim Hacmi Displacement (cm <sup>3</sup> /rev)	Maks.Sürekli Basınç Max.Continuous Pressure (100%)(BAR)	Min. Hız Min.Speed (RPM)	Maks.Sürekli Hız Max.Continuous Speed (RPM)	A (mm)	B (mm)	Giriş Inlet C	Çıkış Outlet D
Sol / Left	Sağ / Right								
G30017SF111	G30017SF121	17	300	300	2500	171,5	124,5	G1/2"	G1/2"
G30027SF111	G30027SF121	27	290			177,5	129,5		
G30034SF111	G30034SF121	34	285		2000	182,5	130,5	G3/4"	G3/4"
G30043SF111	G30043SF121	43	280			188,5	135,5		
G30051SF111	G30051SF121	51	230		1800	193,5	135,5	G1"	G3/4"
G30061SF111	G30061SF121	61	225			201,5	142		
G30073SF111	G30073SF121	73	215		1600	211	144	G1 1/4" (Alternative)	G1" G3/4" (Alternative)
G30082SF111	G30082SF121	82	200		1500	212,5	146		
G30100SF111	G30100SF121	100	190			225,5	160		
G30125SF111	G30125SF121	125	170			241,5	164		

**TEKNİK VERİLER | TECHNICAL DATA**

**3 DELİKLİ UNI DİŞLİ POMPA | 3 HOLES UNI GEAR PUMP**

Giriş Basıncı   Inlet Pressure	0.3÷ 2 bar		
Çalışma Viskozite Seviyesi   Operating Viscosity Range	-12:100 cSt		
Sıvı Sıcaklığı   Fluid Temperature	-40 °C+145 °C		
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



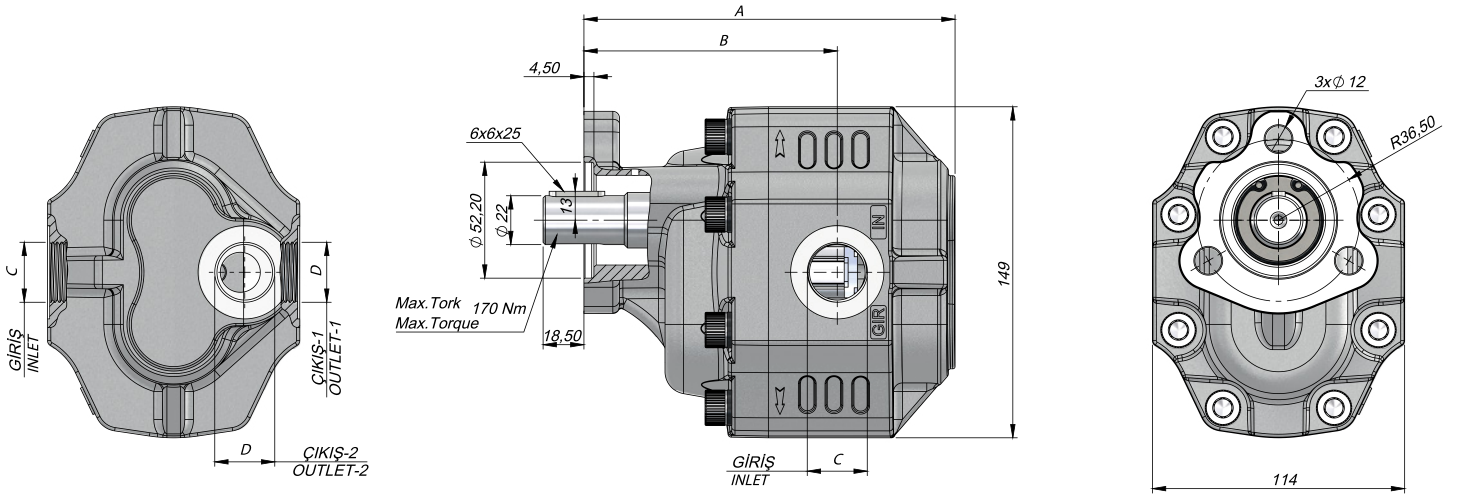
Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D
G30017UF411	G30017UF421	17	300	300	2500	150	103	G1/2"	G1/2"
G30027UF411	G30027UF421	27	290			156	108		
G30034UF411	G30034UF421	34	285		2200	161	109	G3/4"	G3/4"
G30043UF411	G30043UF421	43	280			167	114		
G30051UF411	G30051UF421	51	230		2000	172	114	G1"	G3/4"
G30061UF411	G30061UF421	61	225			180	120,5		
G30073UF411	G30073UF421	73	215		1800	192,5	122,5	G1"	G3/4"
G30082UF411	G30082UF421	82	200			191	124,5		
G30100UF411	G30100UF421	100	190		1600	204	138,5	G1 1/4"	G1" (Alternative)
G30125UF411	G30125UF421	125	170			220	142,5		



## TEKNİK VERİLER | TECHNICAL DATA

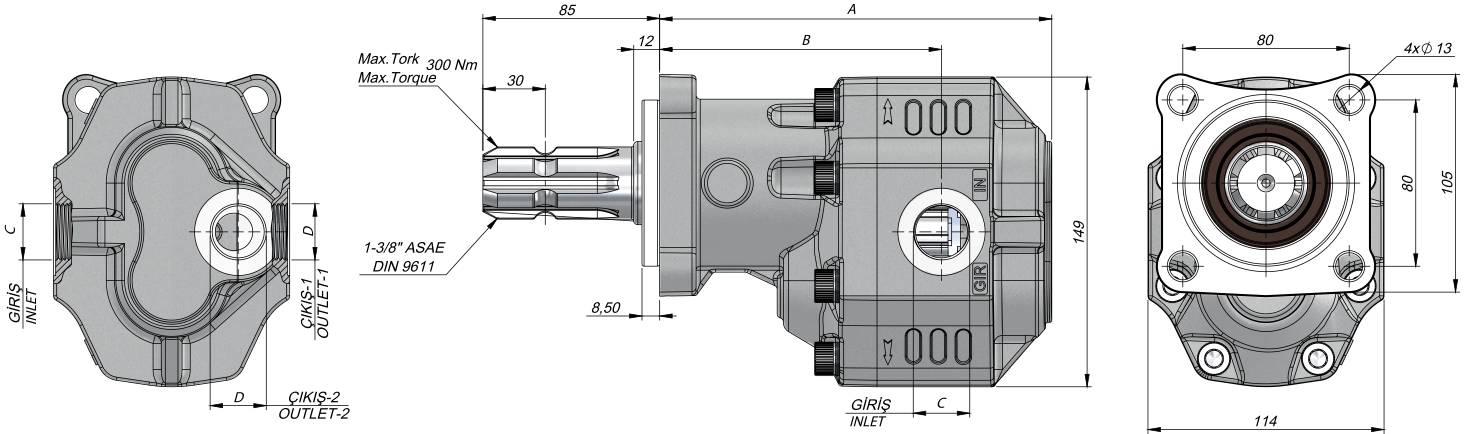
### 3 DELİKLİ F-UNI DİŞLİ POMPA | 3 HOLES F-UNI GEAR PUMP

Giriş Basıncı   Inlet Pressure	0.3÷ 2 bar		
Çalışma Viskozite Seviyesi   Operating Viscosity Range	-12:100 cSt		
Sıvı Sıcaklığı   Fluid Temperature	-40 °C+145 °C		
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu\text{m}$
≤200 bar	12	21/18	40 $\mu\text{m}$



Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D
G30017FK411	G30017FK421	17	300	300	2500	150	103	G1/2"	G1/2"
G30027FK411	G30027FK421	27	290			156	108		
G30034FK411	G30034FK421	34	285		2200	161	109	G3/4"	G3/4"
G30043FK411	G30043FK421	43	280						
G30051FK411	G30051FK421	51	230		2000	172	114	G1"	G3/4"
G30061FK411	G30061FK421	61	225						
G30073FK411	G30073FK421	73	215		1800	192,5	122,5	G1"	G1"
G30082FK411	G30082FK421	82	200						
G30100FK411	G30100FK421	100	190		1600	204	138,5	G1 1/4"	G3/4" (Alternative)
G30125FK411	G30125FK421	125	170						

Giriş Basıncı   Inlet Pressure	0.3÷ 2 bar		
Çalışma Viskozite Seviyesi   Operating Viscosity Range	-12:100 cSt		
Sıvı Sıcaklığı   Fluid Temperature	-40 °C+145 °C		
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m

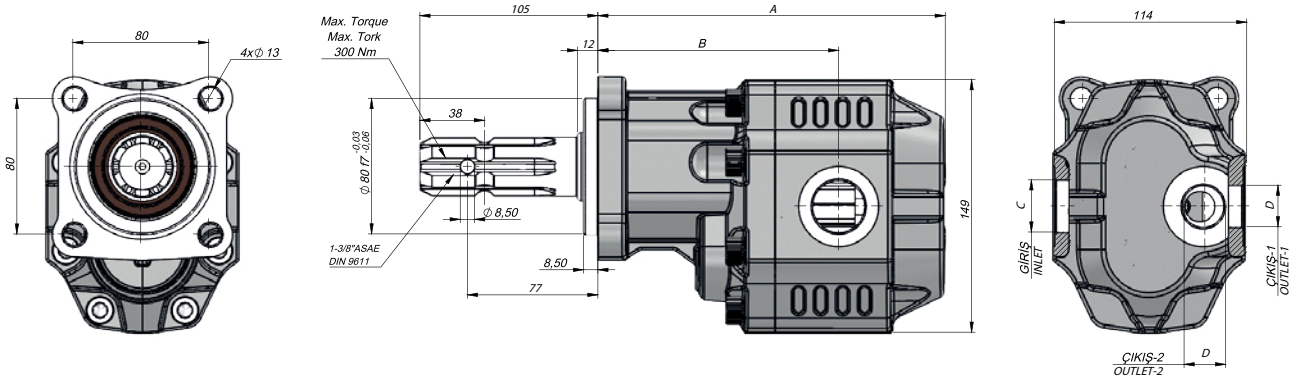


Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(mm)	(mm)	C	D
G30017SF211	G30017SF221	17	300	300	171,5	124,5	G1/2"	G1/2"
G30027SF211	G30027SF221	27	290					
G30034SF211	G30034SF221	34	285		182,5	130,5	G3/4"	G3/4"
G30043SF211	G30043SF221	43	280					
G30051SF211	G30051SF221	51	230		193,5	135,5	G1"	G3/4"
G30061SF211	G30061SF221	61	225					
G30082SF211	G30082SF221	73	200		212,5	146	G1"	G3/4"
G30100SF211	G30100SF221	82	190					
G30125SF211	G30125SF221	100	170		1500	241,5	G1 1/4"	G1" (Alternative)
G30125SF111	G30125SF121	125	170					

### TEKNİK VERİLER | TECHNICAL DATA

#### 4 DELİKLİ ASAE-L DİŞLİ POMPA | 4 HOLE ASAE-L GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m

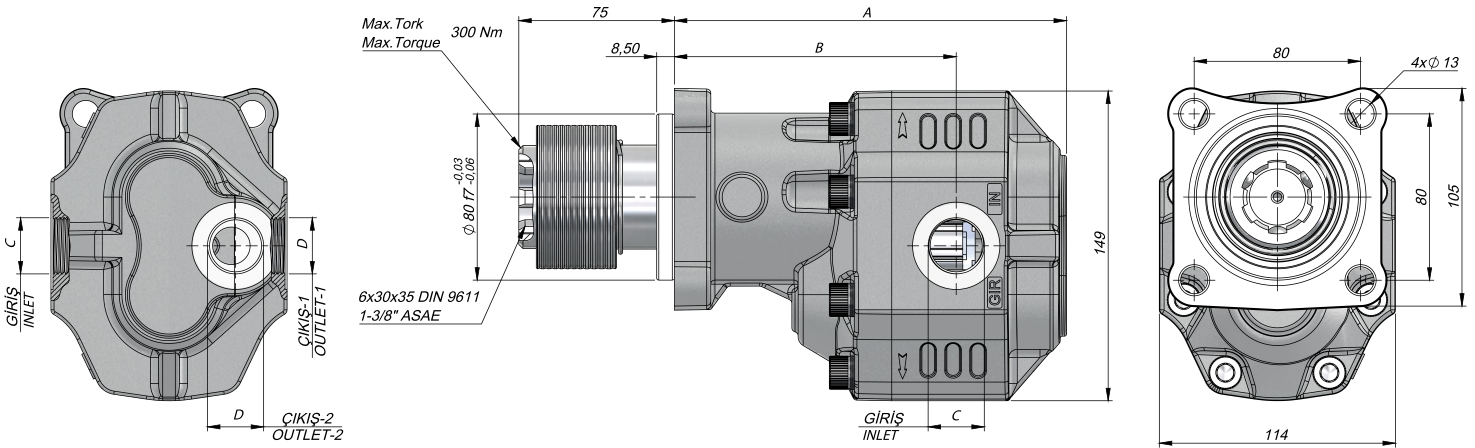


Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D
G30017SF811	G30017SF821	17	300	300	2500	171,5	124,5	G1/2"	G1/2"
G30027SF811	G30027SF821	27	290			177,5	129,5		
G30034SF811	G30034SF821	34	285		2200	182,5	130,5	G3/4"	G3/4"
G30043SF811	G30043SF821	43	280						
G30051SF811	G30051SF821	51	230		2000	188,5	135,5	G1"	G3/4"
G30061SF811	G30061SF821	61	225						
G30073SF811	G30073SF821	73	200		1800	201,5	142	G1"	G3/4"
G30082SF811	G30082SF821	82	190						
G30100SF811	G30100SF821	100	170		1500	212,5	146	G1"	G1"
G30125SF811	G30125SF821	125	170						
				225,5					

### TEKNİK VERİLER | TECHNICAL DATA

#### 4 DELİKLİ TRC DİŞLİ POMPA | 4 HOLES TRC GEAR PUMP

Giriş Basıncı   Inlet Pressure	0.3÷ 2 bar		
Çalışma Viskozite Seviyesi   Operating Viscosity Range	-12:100 cSt		
Sıvı Sıcaklığı   Fluid Temperature	-40 °C+145 °C		
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m

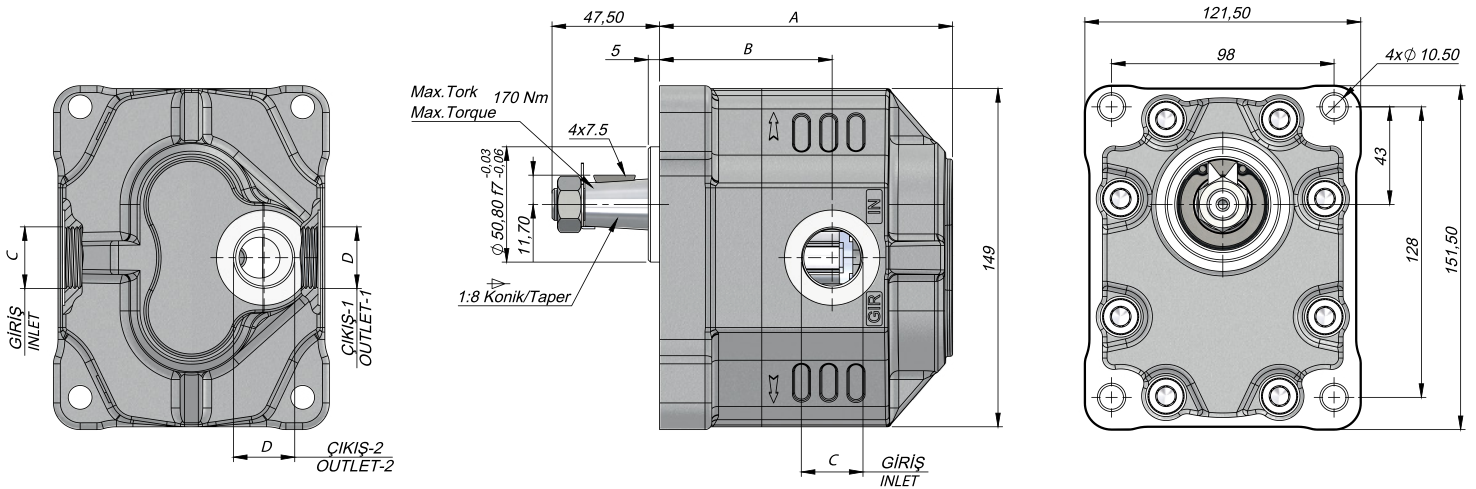


Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D
G30017SF311	G30017SF321	17	300	300	2500	171,5	124,5	G1/2"	G1/2"
G30027SF311	G30027SF321	27	290			177,5	129,5		
G30034SF311	G30034SF321	34	285		2000	182,5	130,5	G3/4"	G3/4"
G30043SF311	G30043SF321	43	280			188,5	135,5		
G30051SF311	G30051SF321	51	230		1800	193,5	135,5	G1"	G3/4"
G30061SF311	G30061SF321	61	225			201,5	142		
G30073SF311	G30073SF321	73	200		1600	212,5	146	G1 1/4"	G1" G3/4" (Alternative)
G30082SF311	G30082SF321	82	190			225,5	160		
G30100SF311	G30100SF321	100	170		1500	241,5	164	G1 1/4"	G1" G3/4" (Alternative)
G30125SF311	G30125SF321	125	170			241,5	164		

## TEKNİK VERİLER | TECHNICAL DATA

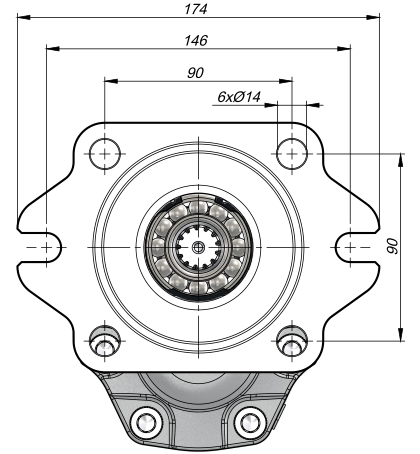
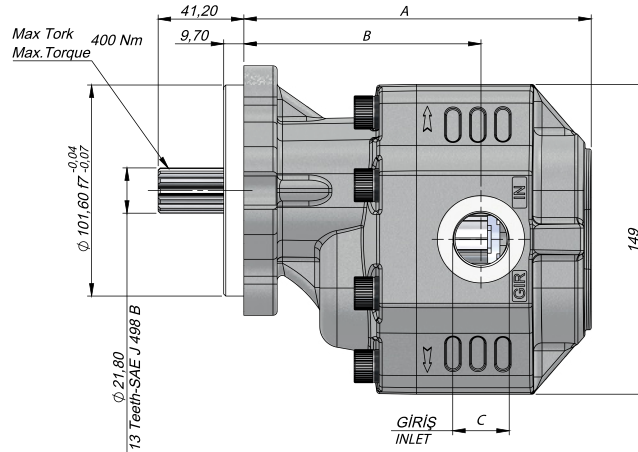
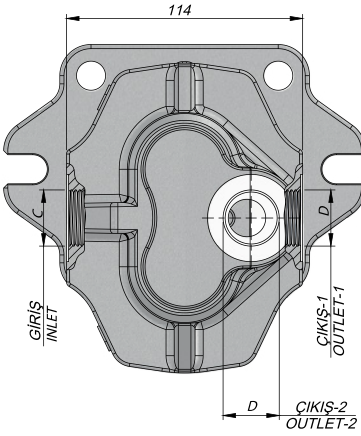
### 4 DELİKLİ K DİŞLİ POMPA | 4 HOLES K GEAR PUMP

Giriş Basıncı   Inlet Pressure	0.3÷ 2 bar		
Çalışma Viskozite Seviyesi   Operating Viscosity Range	-12:100 cSt		
Sıvı Sıcaklığı   Fluid Temperature	-40 °C+145 °C		
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet	
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(mm)	(mm)	C	D	
G30017KK611	G30017KK621	17	300	300	112	65	G1/2"	G1/2"	
G30027KK611	G30027KK621	27	290		118	70			
G30034KK611	G30034KK621	34	285		2200	123	71	G3/4"	
G30043KK611	G30043KK621	43	280			129	76		
G30051KK611	G30051KK621	51	230		2000	134	76	G3/4"	
G30061KK611	G30061KK621	61	225			142	82,5		G1"
G30073KK611	G30073KK621	73	200		1800	154,5	84,50	G1"	
G30082KK611	G30082KK621	82	190			153	86,5		
G30100KK611	G30100KK621	100	170		1600	166	100,5	G1 1/4"	G1" G3/4" (Alternative)
G30125KK611	G30125KK621	125	170			182	104,5		

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m

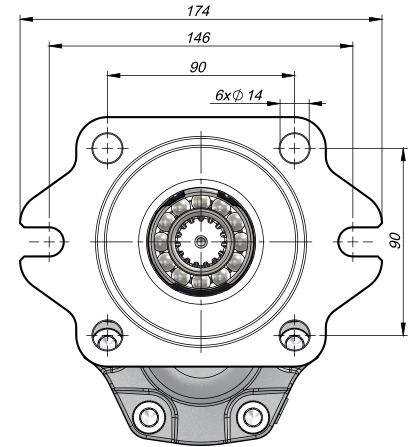
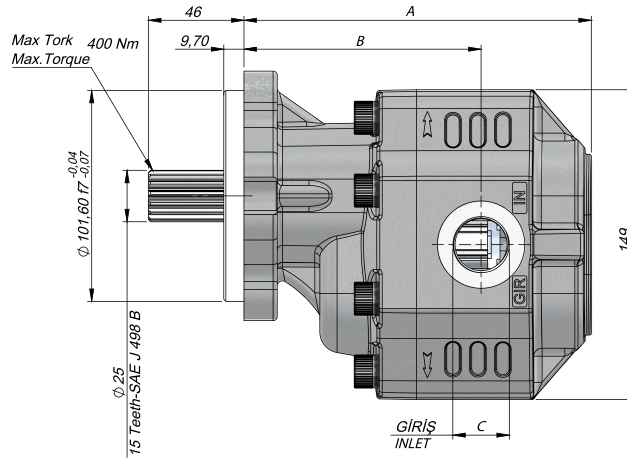
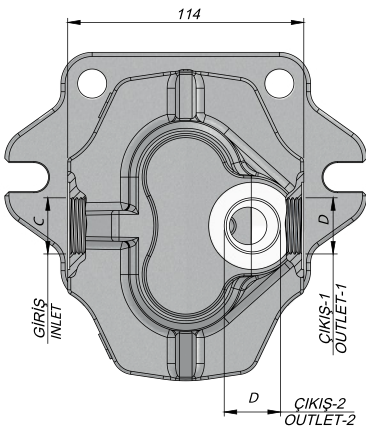


Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D
G30017BF511	G30017BF521	17	300	300	2500	150	103	G1/2"	G1/2"
G30027BF511	G30027BF521	27	290			156	108		
G30034BF511	G30034BF521	34	285		2200	161	109	G3/4"	G3/4"
G30043BF511	G30043BF521	43	280						
G30051BF511	G30051BF521	51	230		2000	172	114	G1"	G3/4"
G30061BF511	G30061BF521	61	225						
G30073BF511	G30073BF521	73	200		1600	192,5	122,5	G1 1/4"	G1" G3/4" (Alternative)
G30082BF511	G30082BF521	82	190						
G30100BF511	G30100BF521	100	170		1500	204	138,5	G1 1/4"	G1" G3/4" (Alternative)
G30125BF511	G30125BF521	125	170						

## TEKNİK VERİLER | TECHNICAL DATA

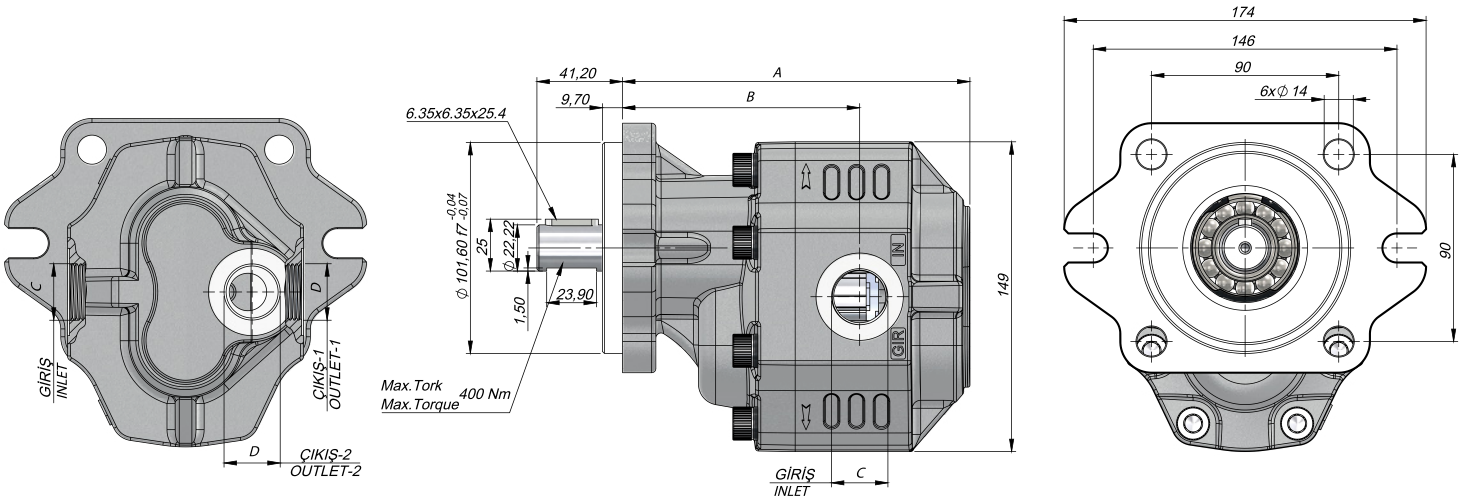
2+4 DELİKLİ SAE B 15 DİŞ DİŞLİ POMPA | 2+4 HOLES SAE B 15 TEETH GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D
G30017BF611	G30017BF621	17	300	300	2500	150	103	G1/2"	G1/2"
G30027BF611	G30027BF621	27	290			156	108		
G30034BF611	G30034BF621	34	285		2200	161	109	G3/4"	G3/4"
G30043BF611	G30043BF621	43	280			167	114		
G30051BF611	G30051BF621	51	230		2000	172	114	G1"	G3/4"
G30061BF611	G30061BF621	61	225			180	120,5		
G30073BF611	G30073BF621	73	200		1600	192,5	122,5	G1"	G1"
G30082BF611	G30082BF621	82	190			191	124,5		
G30100BF611	G30100BF621	100	170		1500	204	138,5	G1 1/4"	G3/4" (Alternative)
G30125BF611	G30125BF621	125	170			220	142,5		

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
$\geq 200$ bar	11	20/17	25 $\mu\text{m}$
$\leq 200$ bar	12	21/18	40 $\mu\text{m}$



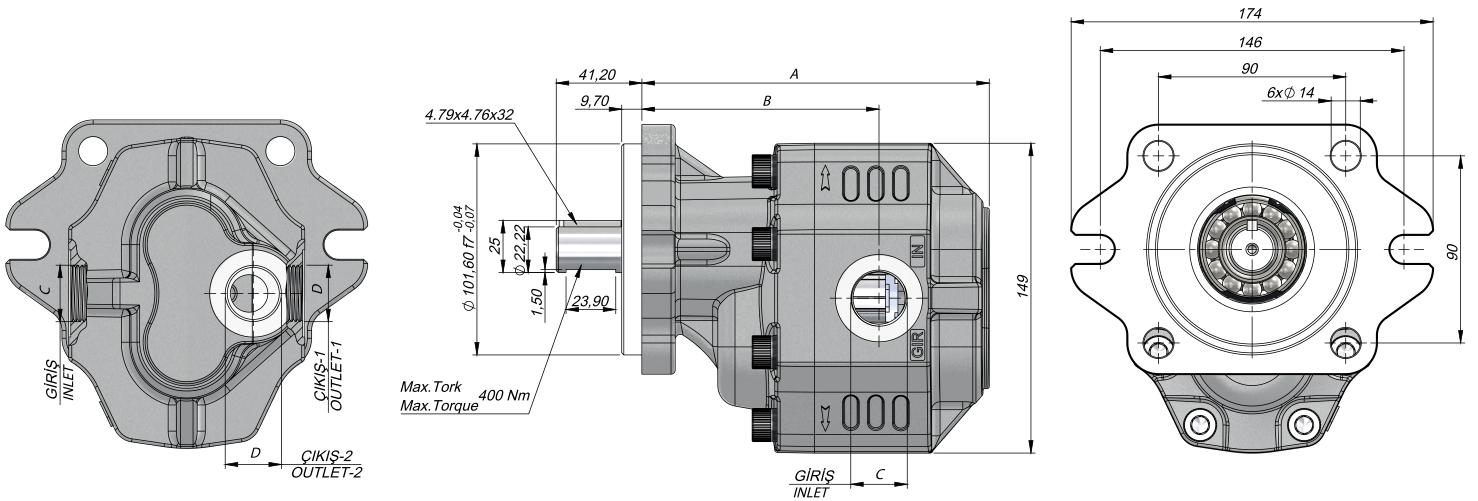
Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet		
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D		
G30017BK111	G30017BK121	17	300	300	2500	150	103	G1/2"	G1/2"		
G30027BK111	G30027BK121	27	290			156	108				
G30034BK111	G30034BK121	34	285		2200	161	109	G3/4"	G3/4"		
G30043BK111	G30043BK121	43	280							2000	167
G30051BK111	G30051BK121	51	230		1800	172	114	G1"			
G30061BK111	G30061BK121	61	225						1600	180	120,5
G30073BK111	G30073BK121	73	200		1500	192,5	122,5				
G30082BK111	G30082BK121	82	190					1500	191	124,5	G1 1/4"
G30100BK111	G30100BK121	100	170		204	138,5					
G30125BK111	G30125BK121	125	170				220				



### TEKNİK VERİLER | TECHNICAL DATA

2+4 DELİKLİ SAE B KAMALI DİŞLİ POMPA | 2+4 HOLES SAE B KEYED GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m

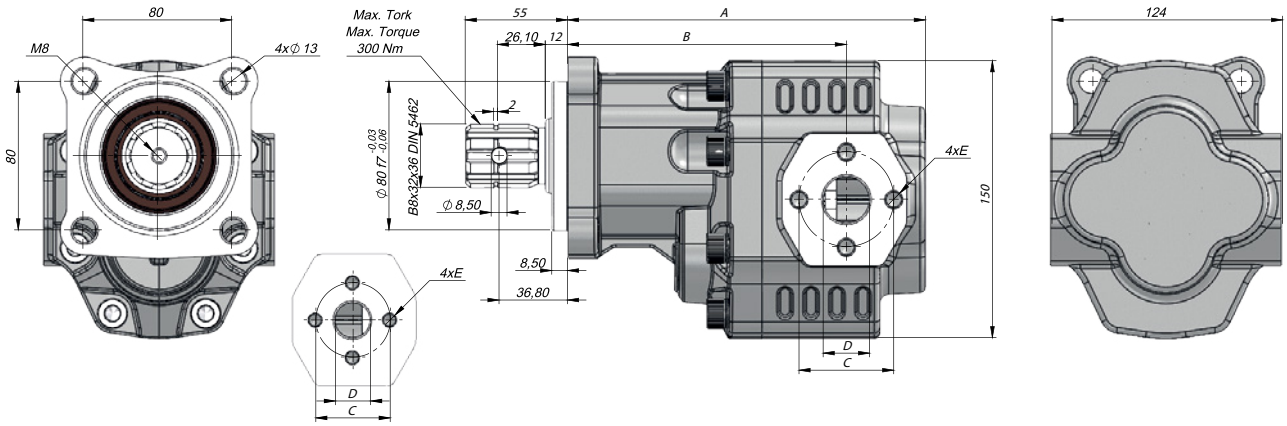


Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D
G30017BK211	G30017BK221	17	300	300	2500	150	103	G1/2"	G1/2"
G30027BK211	G30027BK221	27	290			156	108		
G30034BK211	G30034BK221	34	285		2200	161	109	G3/4"	G3/4"
G30043BK211	G30043BK221	43	280			167	114		
G30051BK211	G30051BK221	51	230		2000	172	114	G1"	G3/4"
G30061BK211	G30061BK221	61	225			180	120,5		
G30073BK211	G30073BK221	73	200		1600	192,5	122,5	G1"	G1"
G30082BK211	G30082BK221	82	190			191	124,5		
G30100BK211	G30100BK221	100	170		1500	204	138,5	G1 1/4"	G3/4" (Alternative)
G30125BK211	G30125BK221	125	170			220	142,5		

### TEKNİK VERİLER | TECHNICAL DATA

#### 4 DELİKLİ ISO ADAPTÖRLÜ DİŞLİ POMPA | 4 HOLES ISO WITH EUROPEAN FLANGED PORT GEAR PUMP

Giriş Basıncı   Inlet Pressure	0.3÷ 2 bar		
Çalışma Viskozite Seviyesi   Operating Viscosity Range	-12:100 cSt		
Sıvı Sıcaklığı   Fluid Temperature	-40 °C+145 °C		
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
$\geq 200$ bar	11	20/17	25 $\mu\text{m}$
$\leq 200$ bar	12	21/18	40 $\mu\text{m}$



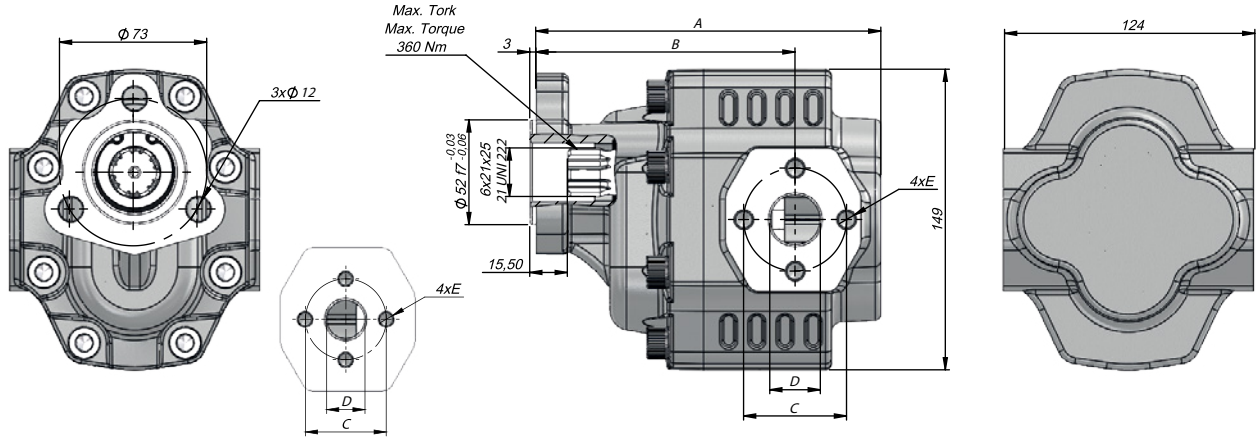
Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basıncı Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet			Çıkış Outlet		
Sol/ Left	Sağ/ Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D	E	C	D	E
G30017SF112	G30017SF122	22	300	300	2500	175,50	140	51	25	M10	40	19	M8
G30027SF112	G30027SF122	27	290			181,50	140						
G30034SF112	G30034SF122	34	285		2000	186,50	144						
G30043SF112	G30043SF122	43	280			192,50	150						
G30051SF112	G30051SF122	51	230			197,50	143						
G30061SF112	G30061SF122	61	225		1800	205,50	145						
G30082SF112	G30082SF122	82	200		1500	216,50	162						

Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basıncı Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet			Çıkış Outlet		
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D	E	C	D	E
G30017SF132	22	300	300	2500	175,50	140	51	25	M10	51	25	M10
G30027SF132	27	290			181,50	140						
G30034SF132	34	285		2000	186,50	144						
G30043SF132	43	280			192,50	150						
G30051SF132	51	230			197,50	143						
G30061SF132	61	225		1800	205,50	145						
G30082SF132	82	200		1500	216,50	162						

**TEKNİK VERİLER | TECHNICAL DATA**

3 DELİKLİ UNI ADAPTÖRLÜ DİŞLİ POMPA | 3 HOLES UNI WITH EUROPEAN FLANGED PORT GEAR PUMP

Giriş Basıncı   Inlet Pressure	0.3÷ 2 bar		
Çalışma Viskozite Seviyesi   Operating Viscosity Range	-12:100 cSt		
Sıvı Sıcaklığı   Fluid Temperature	-40 °C+145 °C		
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



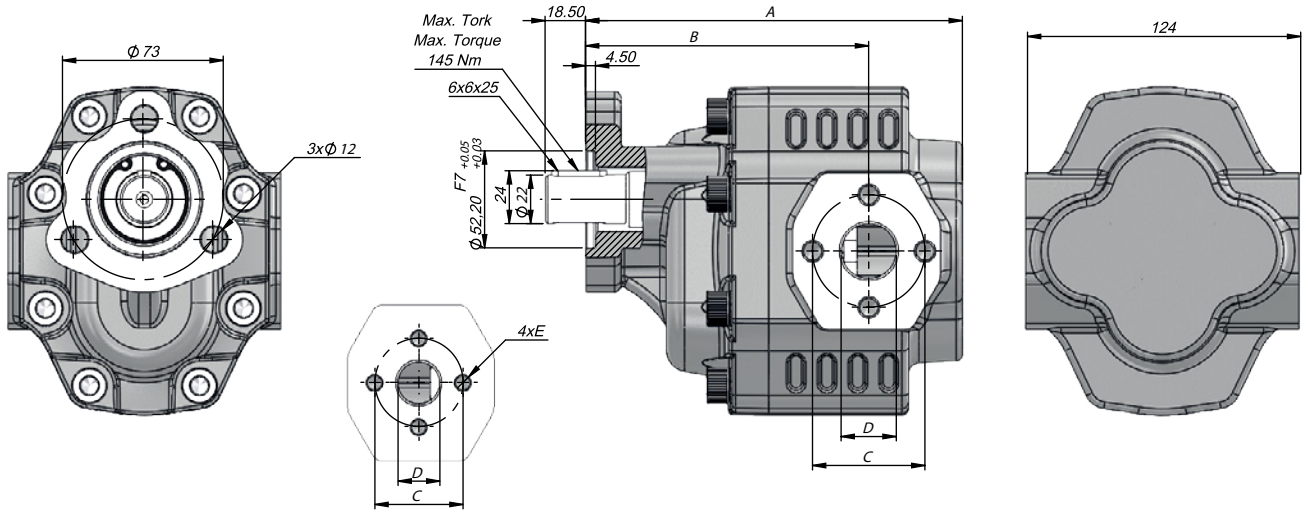
Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet			Çıkış Outlet		
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D	E	C	D	E
G30017UF412	G30017UF422	22	300	300	2500	154	118,50	51	25	M10	40	19	M8
G30027UF412	G30027UF422	27	290		2200	160	118,50						
G30034UF412	G30034UF422	34	285		2000	165	122,50						
G30043UF412	G30043UF422	43	280			171	128,50						
G30051UF412	G30051UF422	51	230			176	125,50						
G30061UF412	G30061UF422	61	225		1800	184	132,50						
G30082UF412	G30082UF422	82	200		1500	195	140,50						

Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet			Çıkış Outlet		
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D	E	C	D	E
G30017UF432	22	300	300	2500	154	118,50	51	25	M10	51	25	M10
G30027UF432	27	290		2200	160	118,50						
G30034UF432	34	285		2000	165	122,50						
G30043UF432	43	280			171	128,50						
G30051UF432	51	230			176	125,50						
G30061UF432	61	225		1800	184	132,50						
G30082UF432	82	200		1500	195	140,50						

### TEKNİK VERİLER | TECHNICAL DATA

#### 3 DELİKLİ F-UNI ADAPTÖRLÜ DİŞLİ POMPA | 3 HOLES F-UNI WITH EUROPEAN FLANGED PORT GEAR PUMP

Giriş Basıncı   Inlet Pressure	0.3÷ 2 bar		
Çalışma Viskozite Seviyesi   Operating Viscosity Range	-12:100 cSt		
Sıvı Sıcaklığı   Fluid Temperature	-40 °C+145 °C		
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



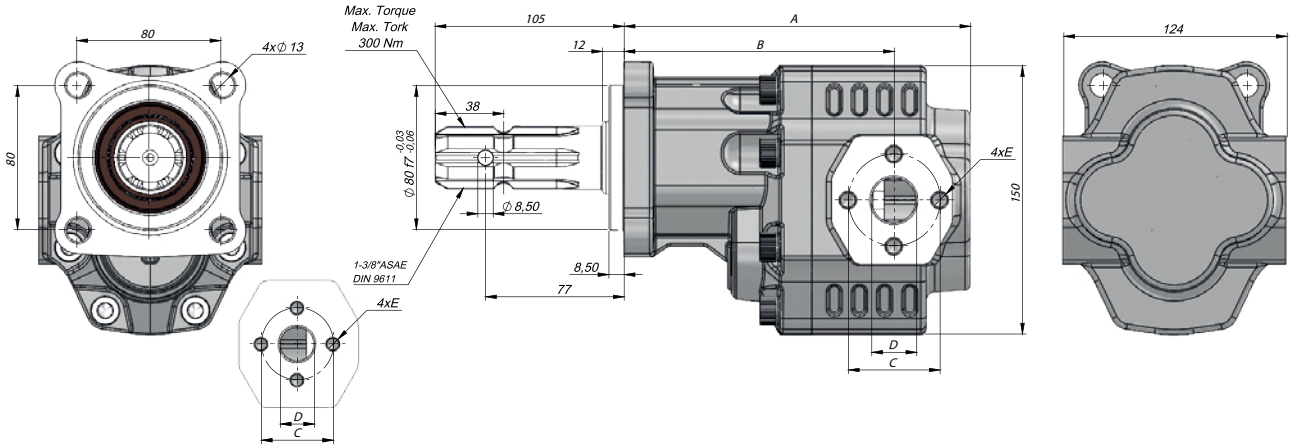
Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet			Çıkış Outlet									
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(RPM)	(RPM)	(mm)	(mm)	C	D	E	C	D	E							
G30017FK412	G30017FK422	22	300	300	2500	154	118,50	51	25	M10	40	19	M8						
G30027FK412	G30027FK422	27	290		2200	160	118,50												
G30034FK412	G30034FK422	34	285		2000	165	122,50												
G30043FK412	G30043FK422	43	280			171	128,50												
G30051FK412	G30051FK422	51	230			176	125,50												
G30061FK412	G30061FK422	61	225		1800	184	132,50							62	33	M12	51	27	M10
G30082FK412	G30082FK422	82	200		1500	195	140,50												

Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet			Çıkış Outlet								
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D	E	C	D	E						
G30017FK432	22	300	300	2500	154	118,50	51	25	M10	51	25	M10						
G30027FK432	27	290			160	118,50												
G30034FK432	34	285		2200	165	122,50												
G30043FK432	43	280			2000	171							128,50					
G30051FK432	51	230				176							125,50					
G30061FK432	61	225		1800	184	132,50							62	33	M12	62	33	M12
G30082FK432	82	200		1500	195	140,50												



#### 4 DELİKLİ ASAE-L ADAPTÖRLÜ DİŞLİ POMPA | 4 HOLES ASAE-L WITH EUROPEAN FLANGED PORT GEAR PUMP

Giriş Basıncı   Inlet Pressure	0.3÷ 2 bar		
Çalışma Viskozite Seviyesi   Operating Viscosity Range	-12:100 cSt		
Sıvı Sıcaklığı   Fluid Temperature	-40 °C+145 °C		
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
$\geq 200$ bar	11	20/17	25 $\mu\text{m}$
$\leq 200$ bar	12	21/18	40 $\mu\text{m}$



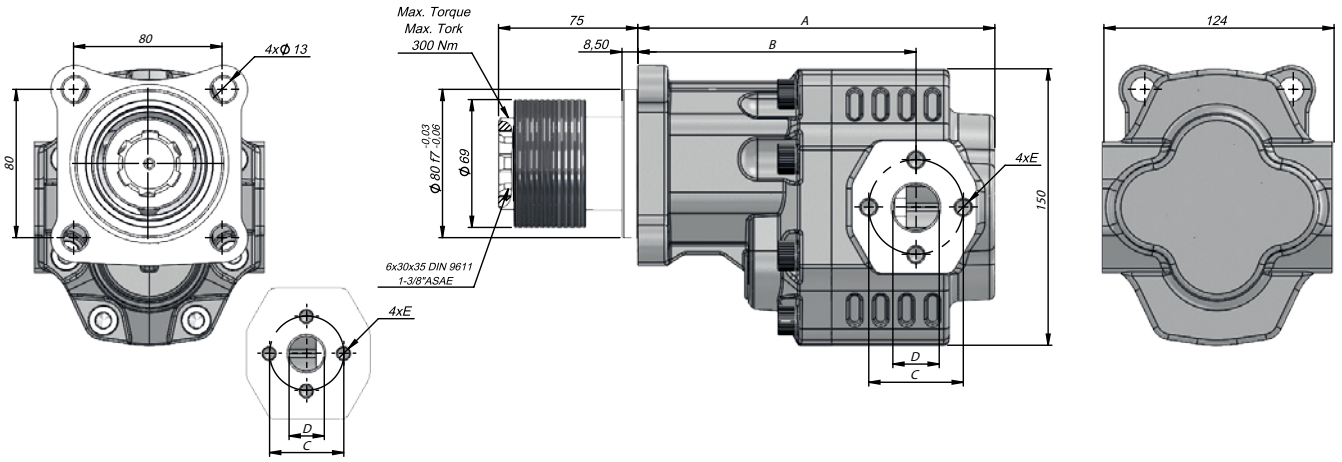
Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet			Çıkış Outlet		
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D	E	C	D	E
G30017SF812	G30017SF822	22	300	300	2500	175,50	140	51	25	M10	40	19	M8
G30027SF812	G30027SF822	27	290			181,50	140						
G30034SF812	G30034SF822	34	285		2000	186,50	144						
G30043SF812	G30043SF822	43	280			192,50	150						
G30051SF812	G30051SF822	51	230			197,50	143						
G30061SF812	G30061SF822	61	225		1800	205,50	145						
G30082SF812	G30082SF822	82	200		1500	216,50	162						

Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet			Çıkış Outlet		
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D	E	C	D	E
G30017SF832	22	300	300	2500	175,50	140	51	25	M10	51	25	M10
G30027SF832	27	290			181,50	140						
G30034SF832	34	285		2000	186,50	144						
G30043SF832	43	280			192,50	150						
G30051SF832	51	230			197,50	143						
G30061SF832	61	225		1800	205,50	145						
G30082SF832	82	200		1500	216,50	162						

**TEKNİK VERİLER | TECHNICAL DATA**

4 DELİKLİ TRC ADAPTÖRLÜ DİŞLİ POMPA | 4 HOLES TRC WITH EUROPEAN FLANGED PORT GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
$\geq 200$ bar	11	20/17	25 $\mu\text{m}$
$\leq 200$ bar	12	21/18	40 $\mu\text{m}$

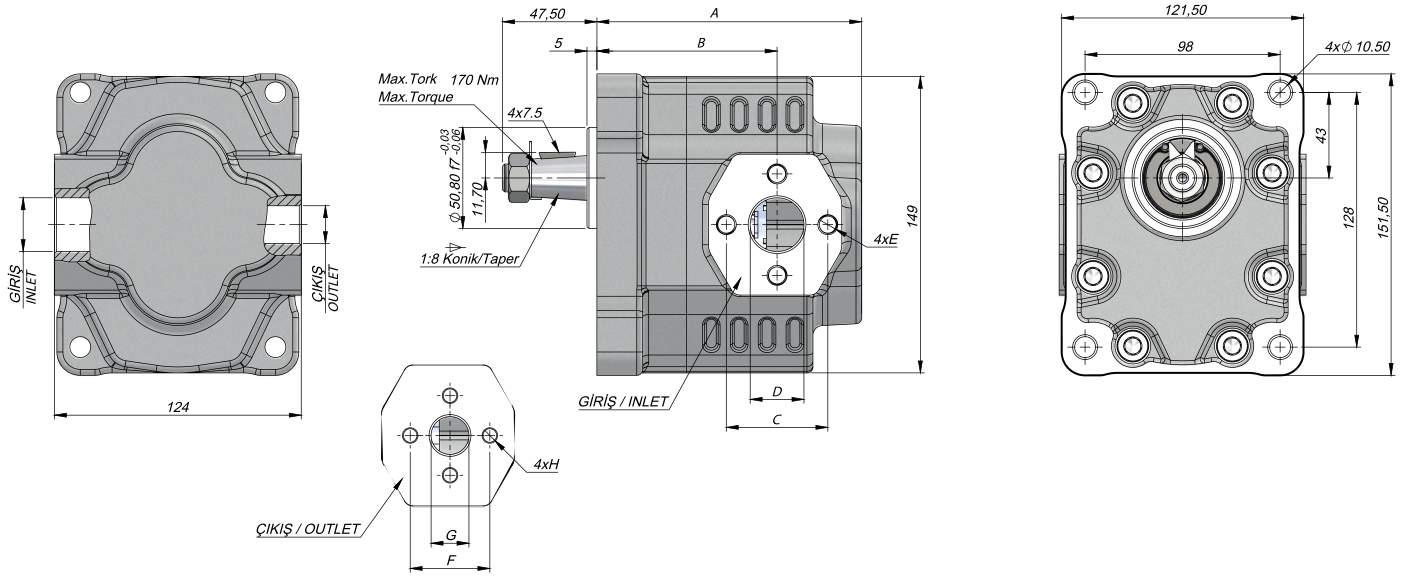


Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet			Çıkış Outlet		
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D	E	C	D	E
G30017SF312	G30017SF322	22	300	300	2500	175,50	140	51	25	M10	40	19	M8
G30027SF312	G30027SF322	27	290			181,50	140						
G30034SF312	G30034SF322	34	285		2200	144							
G30043SF312	G30043SF322	43	280		2000	150							
G30051SF312	G30051SF322	51	230			143							
G30061SF312	G30061SF322	61	225		1800	145							
G30082SF312	G30082SF322	82	200		1500	162	62						

Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet			Çıkış Outlet		
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D	E	C	D	E
G30017SF332	22	300	300	2500	175,50	140	51	25	M10	51	25	M10
G30027SF332	27	290			181,50	140						
G30034SF332	34	285		2200	144							
G30043SF332	43	280		2000	150							
G30051SF332	51	230			143							
G30061SF332	61	225		1800	145							
G30082SF332	82	200		1500	162	62						

**4 DELİKLİ KAMALI K ADAPTÖRLÜ DİŞLİ POMPA | 4 HOLES KEYED K WITH EUROPEAN FLANGED PORT GEAR PUMP**

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	βx=75
≥200 bar	11	20/17	25 μm
≤200 bar	12	21/18	40 μm



Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet			Çıkış Outlet								
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D	E	C	D	E						
G30017KK612	G30017KK622	22	300	300	2500	154	118,50	51	25	M10	40	19	M8						
G30027KK612	G30027KK622	27	290			160	118,50												
G30034KK612	G30034KK622	34	285		2200	165	122,50												
G30043KK612	G30043KK622	43	280			171	128,50												
G30051KK612	G30051KK622	51	230		2000	176	125,50												
G30061KK612	G30061KK622	61	225			184	132,50												
G30082KK612	G30082KK622	82	200		1500	195	140,50							62	33	M12	51	27	M10

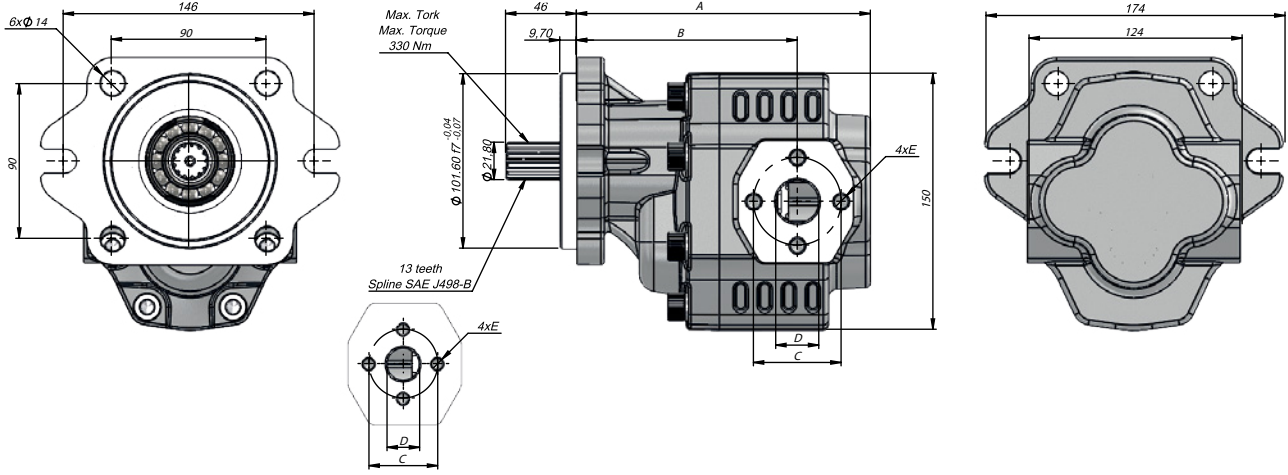
Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet			Çıkış Outlet								
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D	E	C	D	E						
G30017KK632	22	300	300	2500	154	118,50	51	25	M10	51	25	M10						
G30027KK632	27	290			160	118,50												
G30034KK632	34	285		2200	165	122,50												
G30043KK632	43	280			171	128,50												
G30051KK632	51	230		2000	176	125,50												
G30061KK632	61	225			184	132,50												
G30082KK632	82	200		1500	195	140,50							62	33	M12	62	33	M12



**TEKNİK VERİLER | TECHNICAL DATA**

2+4 DELİKLİ SAE B 13 DİŞ ADAPTÖRLÜ DİŞLİ POMPA | 2+4 HOLES SAE B 13 TEETH WITH EUROPEAN PORT GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
$\geq 200$ bar	11	20/17	25 $\mu\text{m}$
$\leq 200$ bar	12	21/18	40 $\mu\text{m}$



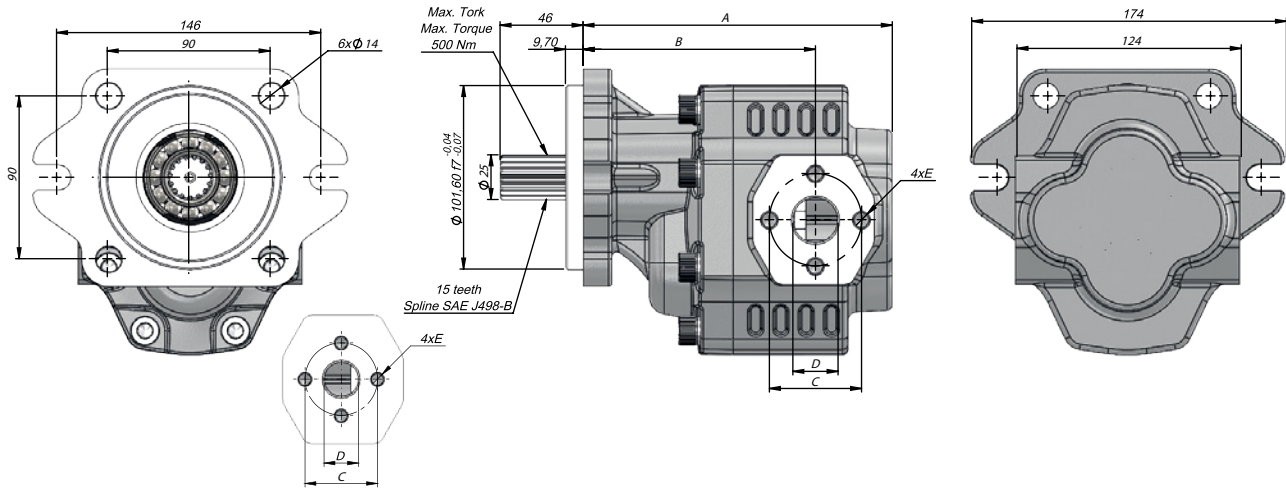
Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet			Çıkış Outlet		
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D	E	C	D	E
G30017BF512	G30017BF522	22	300	300	2500	158	118,50	51	25	M10	40	19	M8
G30027BF512	G30027BF522	27	290			160	118,50						
G30034BF512	G30034BF522	34	285		2000	165	122,50						
G30043BF512	G30043BF522	43	280			171	128,50						
G30051BF512	G30051BF522	51	230			176	125,50						
G30061BF512	G30061BF522	61	225		1800	184	132,50						
G30082BF512	G30082BF522	82	200		1500	195	140,50						

Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet			Çıkış Outlet		
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D	E	C	D	E
G30017BF532	22	300	300	2500	158	118,50	51	25	M10	51	25	M10
G30027BF532	27	290			160	118,50						
G30034BF532	34	285		2000	165	122,50						
G30043BF532	43	280			171	128,50						
G30051BF532	51	230			176	125,50						
G30061BF532	61	225		1800	184	132,50						
G30082BF532	82	200		1500	195	140,50						

### TEKNİK VERİLER | TECHNICAL DATA

2+4 DELİKLİ SAE B 15 DİŞ ADAPTÖRLÜ DİŞLİ POMPA | 2+4 HOLES SAE B 15 TEETH WITH EUROPEAN PORT GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



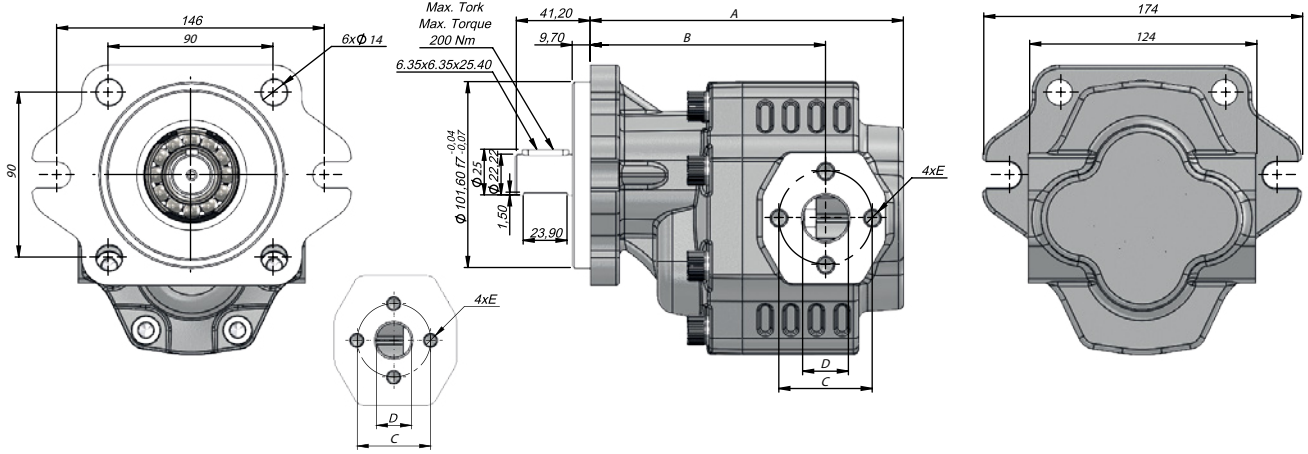
Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet			Çıkış Outlet		
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D	E	C	D	E
G30017BF612	G30017BF622	22	300	300	2500	158	118,50	51	25	M10	40	19	M8
G30027BF612	G30027BF622	27	290		2200	160	118,50						
G30034BF612	G30034BF622	34	285		2000	165	122,50						
G30043BF612	G30043BF622	43	280			171	128,50						
G30051BF612	G30051BF622	51	230		176	125,50							
G30061BF612	G30061BF622	61	225		1800	184	132,50						
G30082BF612	G30082BF622	82	200		1500	195	140,50						

Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet			Çıkış Outlet		
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D	E	C	D	E
G30017BF632	22	300	300	2500	158	118,50	51	25	M10	51	25	M10
G30027BF632	27	290			160	118,50						
G30034BF632	34	285		2200	165	122,50						
G30043BF632	43	280			171	128,50						
G30051BF632	51	230		2000	176	125,50						
G30061BF632	61	225			1800	184						
G30082BF632	82	200		1500	195	140,50						

### TEKNİK VERİLER | TECHNICAL DATA

2+4 DELİKLİ SAE B KAMALI ADAPTÖRLÜ DİŞLİ POMPA | 2+4 HOLES SAE B KEYED WITH EUROPEAN PORT GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
$\geq 200$ bar	11	20/17	25 $\mu$ m
$\leq 200$ bar	12	21/18	40 $\mu$ m



Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet			Çıkış Outlet		
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D	E	C	D	E
G30017BK112	G30017BK122	22	300	300	2500	158	118,50	51	25	M10	40	19	M8
G30027BK112	G30027BK122	27	290			160	118,50						
G30034BK112	G30034BK122	34	285		2000	165	122,50						
G30043BK112	G30043BK122	43	280			171	128,50						
G30051BK112	G30051BK122	51	230			176	125,50						
G30061BK112	G30061BK122	61	225		1800	184	132,50						
G30082BK112	G30082BK122	82	200		1500	195	140,50						

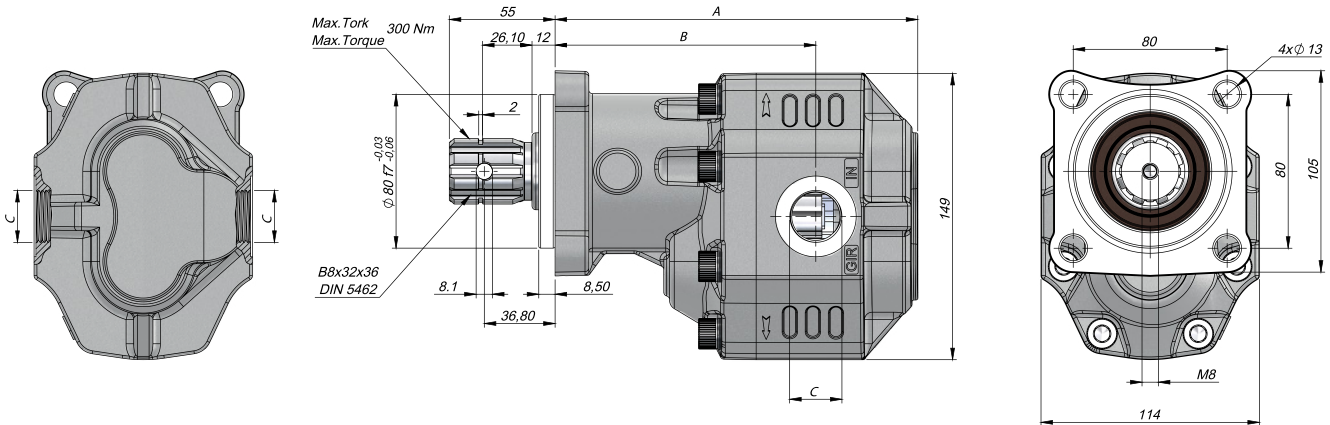
Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet			Çıkış Outlet		
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D	E	C	D	E
G30017BK132	22	300	300	2500	158	118,50	51	25	M10	51	25	M10
G30027BK132	27	290			160	118,50						
G30034BK132	34	285		2000	165	122,50						
G30043BK132	43	280			171	128,50						
G30051BK132	51	230			176	125,50						
G30061BK132	61	225		1800	184	132,50						
G30082BK132	82	200		1500	195	140,50						



## TEKNİK VERİLER | TECHNICAL DATA

4 DELİKLİ ISO ÇİFT YÖNLÜ DİŞLİ POMPA | 4 HOLES ISO BI-DIRECTIONAL GEAR PUMP

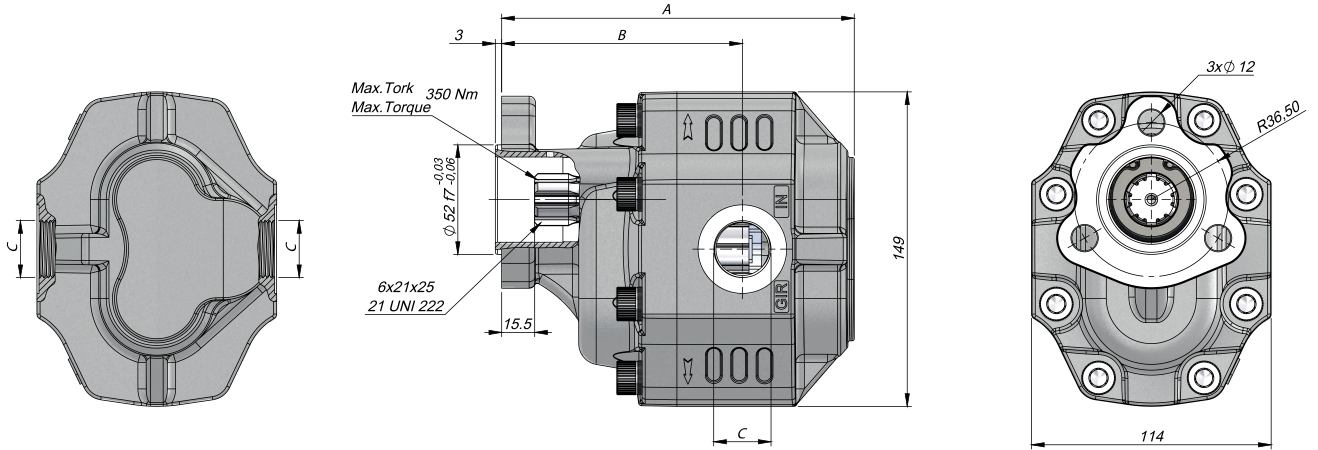
Giriş Basıncı   Inlet Pressure	0.3÷ 2 bar		
Çalışma Viskozite Seviyesi   Operating Viscosity Range	-12:100 cSt		
Sıvı Sıcaklığı   Fluid Temperature	-40 °C+145 °C		
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
G30017SF131	17	270	300	2300	171,5	124,5	G1/2"	G1/2"
G30027SF131	27	265			177,5	129,5		
G30034SF131	34	260		2000	182,5	130,5	G3/4"	G3/4"
G30043SF131	43	250			188,5	135,5		
G30051SF131	51	200		1800	193,5	135,5	G1"	G1"
G30061SF131	61	195			1600	201,5		
G30073SF131	73	180		1500	211	144	G1"	G1"
G30082SF131	82				212,5	146		
G30100SF131	100	170		1400	225,5	160	G1 1/4"	G1 1/4"
G30125SF131	125	160			241,5	164		

**3 DELİKLİ UNI ÇİFT YÖNLÜ DİŞLİ POMPA | 3 HOLES UNI BI-DIRECTIONAL GEAR PUMP**

Giriş Basıncı   Inlet Pressure	0.3÷ 2 bar		
Çalışma Viskozite Seviyesi   Operating Viscosity Range	-12:100 cSt		
Sıvı Sıcaklığı   Fluid Temperature	-40 °C+145 °C		
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
$\geq 200$ bar	11	20/17	25 $\mu\text{m}$
$\leq 200$ bar	12	21/18	40 $\mu\text{m}$

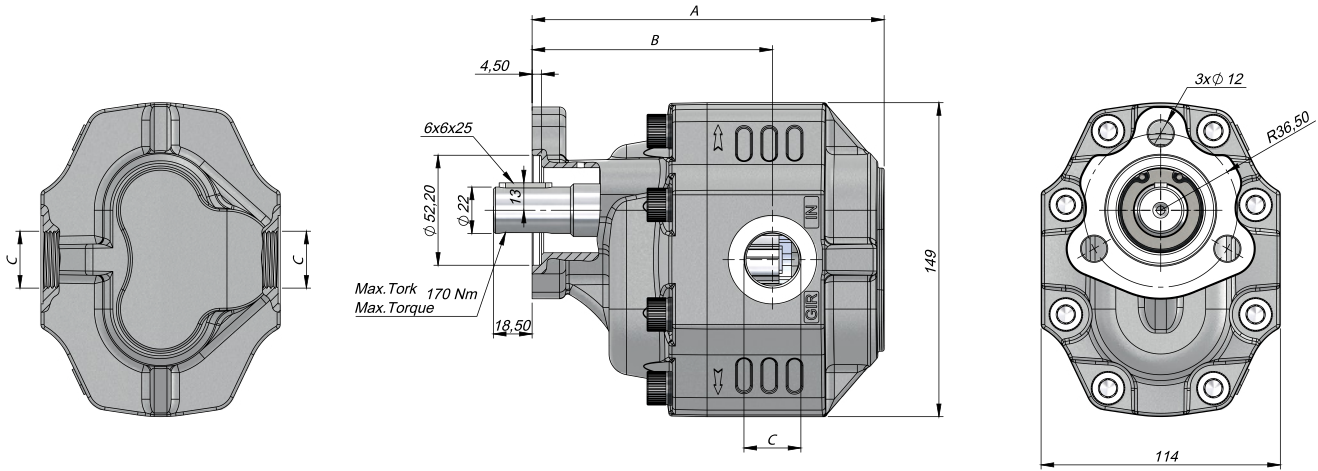


Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
G30017UF431	17	270	300	2300	150	103	G1/2"	G1/2"
G30027UF431	27	265			156	108		
G30034UF431	34	260		2000	161	109	G3/4"	G3/4"
G30043UF431	43	250			167	114		
G30051UF431	51	200		1800	172	114	G1"	G1"
G30061UF431	61	195			180	120,5		
G30073UF431	73	180		1500	192,5	122,5	G1"	G1"
G30082UF431	82				191	124,5		
G30100UF431	100	170		1400	204	138,5	G1 1/4"	G1 1/4"
G30125UF431	125	160			220	142,5		

## TEKNİK VERİLER | TECHNICAL DATA

### 3 DELİKLİ F-UNI ÇİFT YÖNLÜ DİŞLİ POMPA | 3 HOLES F-UNI BI-DIRECTIONAL GEAR PUMP

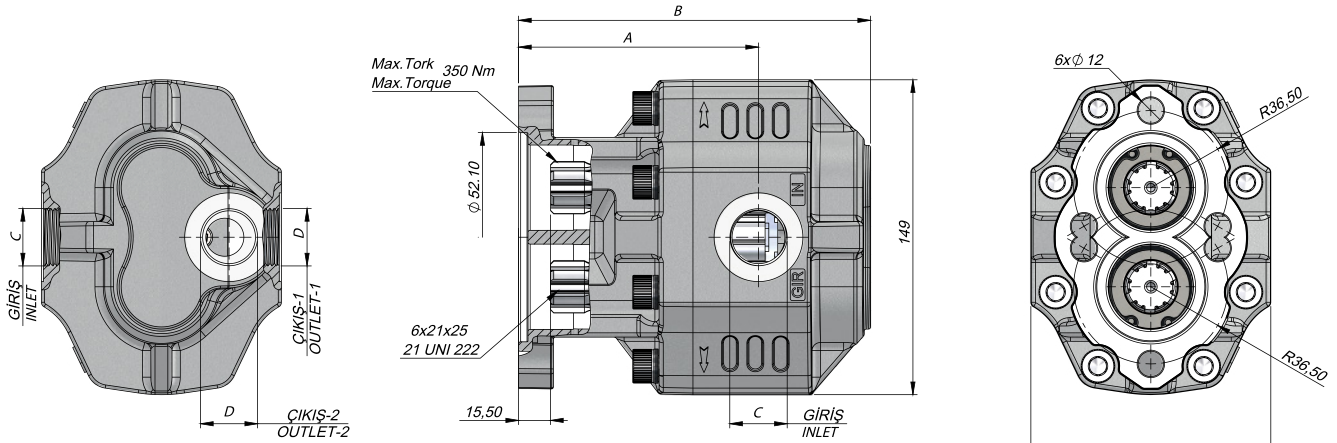
Giriş Basıncı   Inlet Pressure	0.3÷ 2 bar		
Çalışma Viskozite Seviyesi   Operating Viscosity Range	-12:100 cSt		
Sıvı Sıcaklığı   Fluid Temperature	-40 °C+145 °C		
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basıncı Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet	
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C	
G30017FK431	17	270	300	2300	150	103	G1/2"	G1/2"	
G30027FK431	27	265			156	108			
G30034FK431	34	260		2000	161	109	G3/4"	G3/4"	
G30043FK431	43	250			1800	167			114
G30051FK431	51	200				172			114
G30061FK431	61	195		1600	180	120,5	G1"	G1"	
G30073FK431	73	180			1500	192,5			122,5
G30082FK431	82			191		124,5			
G30100FK431	100	170		1400	204	138,5	G1 1/4"	G1 1/4"	
G30125FK431	125	160			220	142,5			

#### 6 DELİKLİ D-UNI ÇİFT YÖNLÜ DİŞLİ POMPA | 6 HOLES D-UNI BI-DIRECTIONAL GEAR PUMP

Giriş Basıncı   Inlet Pressure	0.3÷ 2 bar		
Çalışma Viskozite Seviyesi   Operating Viscosity Range	-12:100 cSt		
Sıvı Sıcaklığı   Fluid Temperature	-40 °C+145 °C		
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
$\geq 200$ bar	11	20/17	25 $\mu\text{m}$
$\leq 200$ bar	12	21/18	40 $\mu\text{m}$



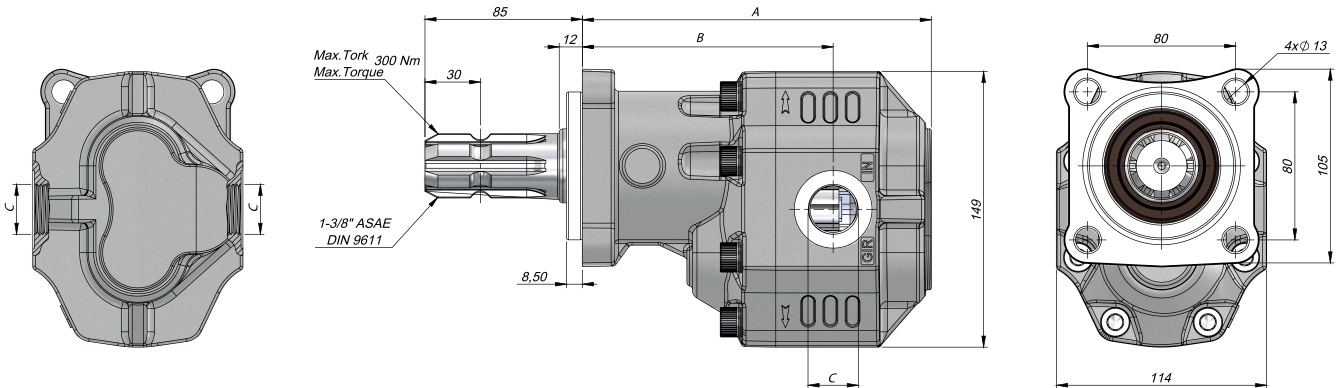
Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
G30017DF431	17	270	300	2300	102.5	149.5	G1/2"	G1/2"
G30027DF431	27	265			107.5	155.5		
G30034DF431	34	260		2000	108.5	160.5	G3/4"	G3/4"
G30043DF431	43	250			113.5	166.5		
G30051DF431	51	200		1800	113.5	171.5	G1"	G1"
G30061DF431	61	195			120	179.5		
G30073DF431	73	180		1500	122	186	G1"	G1"
G30082DF431	82				124	190.5		
G30100DF431	100	170		1400	138	203.5	G1 1/4"	G1 1/4"
G30125DF431	125	160			142	219.5		



## TEKNİK VERİLER | TECHNICAL DATA

4 DELİKLİ ASAE-S ÇİFT YÖNLÜ DİŞLİ POMPA | 4 HOLES ASAE-S BI-DIRECTIONAL GEAR PUMP

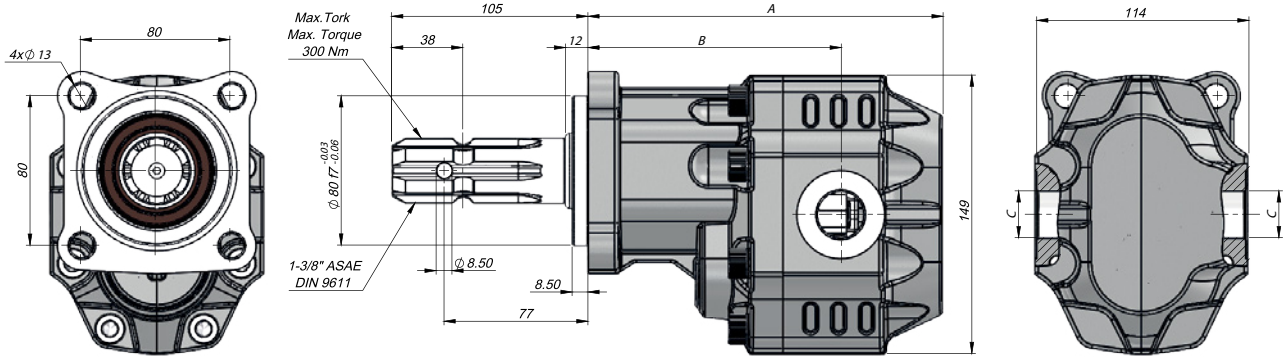
Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
$\geq 200$ bar	11	20/17	25 $\mu\text{m}$
$\leq 200$ bar	12	21/18	40 $\mu\text{m}$



Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
G30017SF231	17	270	300	2300	171,5	124,5	G1/2"	G1/2"
G30027SF231	27	265			177,5	129,5		
G30034SF231	34	260		1800	182,5	130,5	G3/4"	G3/4"
G30043SF231	43	250			188,5	135,5		
G30051SF231	51	200		1500	193,5	135,5	G1"	G1"
G30061SF231	61	195			201,5	142		
G30073SF231	73	180		1400	211	144	G1"	G1"
G30082SF231	82				212,5	146		
G30100SF231	100	170		1400	225,5	160	G1 1/4"	G1 1/4"
G30125SF231	125	160			241,5	164		

**4 DELİKLİ ASAE-L ÇİFT YÖNLÜ DİŞLİ POMPA | 4 HOLES ASAE-L BI-DIRECTIONAL GEAR PUMP**

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m

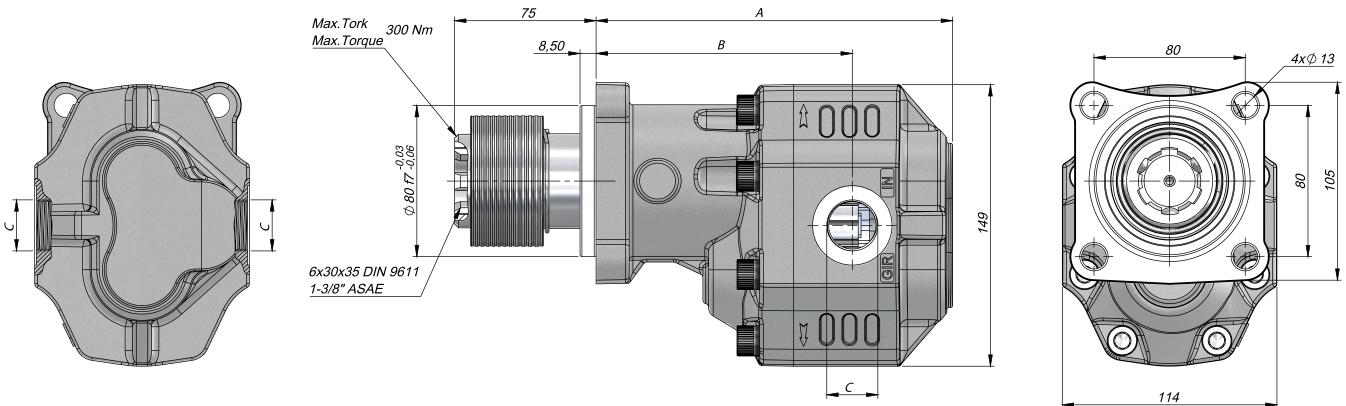


Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
G30017SF831	17	270	300	2300	171,5	124,5	G1/2"	G1/2"
G30027SF831	27	265			177,5	129,5		
G30034SF831	34	260		1800	182,5	130,5	G3/4"	G3/4"
G30043SF831	43	250			188,5	135,5		
G30051SF831	51	200		1600	193,5	135,5	G1"	G1"
G30061SF831	61	195			201,5	142		
G30073SF831	73	180		1500	211	144	G1"	G1"
G30082SF831	82				212,5	146		
G30100SF831	100	170		1400	225,5	160	G1 1/4"	G1 1/4"
G30125SF831	125	160			241,5	164		

### TEKNİK VERİLER | TECHNICAL DATA

#### 4 DELİKLİ TRC ÇİFT YÖNLÜ DİŞLİ POMPA | 4 HOLES TRC BI-DIRECTIONAL GEAR PUMP

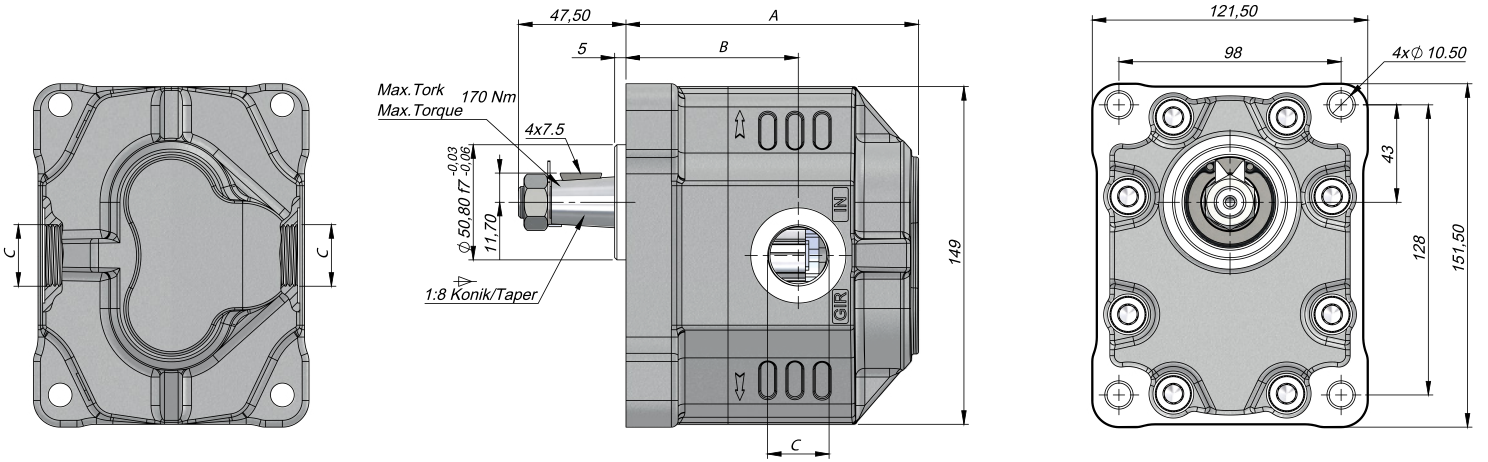
Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
G30017SF331	17	270	300	2300	171,5	124,5	G1/2"	G1/2"
G30027SF331	27	265			177,5	129,5		
G30034SF331	34	260		2000	182,5	130,5	G3/4"	G3/4"
G30043SF331	43	250			188,5	135,5		
G30051SF331	51	200		1800	193,5	135,5	G1"	G1"
G30061SF331	61	195			201,5	142		
G30073SF331	73	180		1500	211	144	G1"	G1"
G30082SF331	82				212,5	146		
G30100SF331	100	170		1400	225,5	160	G1	G1
G30125SF331	125	160			241,5	164		

#### 4 DELİKLİ KAMALI K ÇİFT YÖNLÜ DİŞLİ POMPA | 4 HOLES WITH KEYED K BI-DIRECTIONAL GEAR PUMP

Giriş Basıncı   Inlet Pressure	0.3÷ 2 bar		
Çalışma Viskozite Seviyesi   Operating Viscosity Range	-12:100 cSt		
Sıvı Sıcaklığı   Fluid Temperature	-40 °C+145 °C		
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m

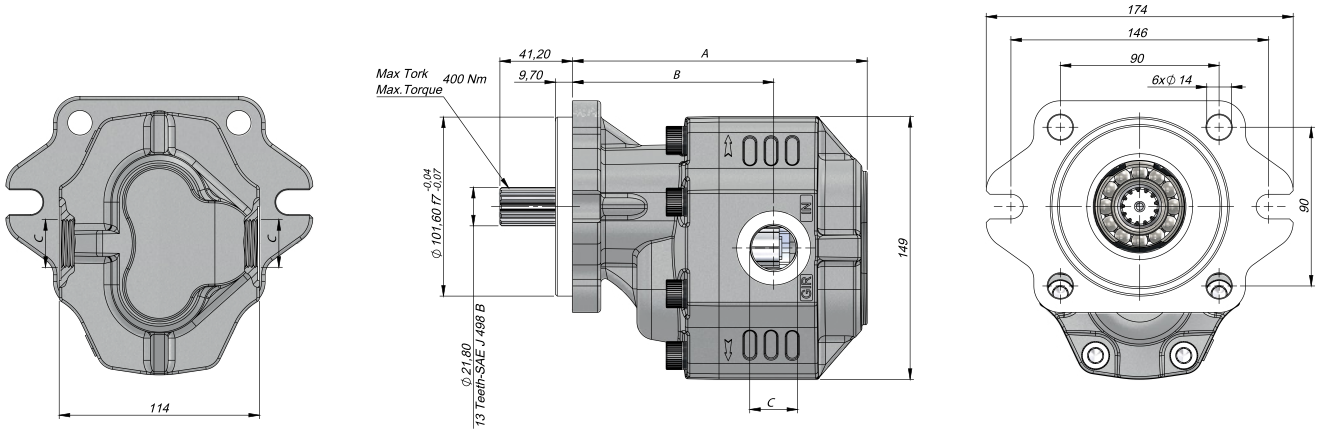


Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basıncı Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
G30017KK631	17	270	300	2300	112	65	G1/2"	G1/2"
G30027KK631	27	265			118	70		
G30034KK631	34	260		1800	123	71	G3/4"	G3/4"
G30043KK631	43	250			129	76		
G30051KK631	51	200		1600	134	76	G1"	G1"
G30061KK631	61	195			142	82,5		
G30073KK631	73	180		1500	154,5	84,50	G1"	G1"
G30082KK631	82				153	86,5		
G30100KK631	100	170		1400	166	100,5	G1 1/4"	G1 1/4"
G30125KK631	125	160			182	104,5		

## TEKNİK VERİLER | TECHNICAL DATA

2+4 DELİKLİ SAE B 13 DİŞ ÇİFT YÖNLÜ DİŞLİ POMPA  
2+4 HOLES SAE B 13 TEETH BI-DIRECTIONAL GEAR PUMP

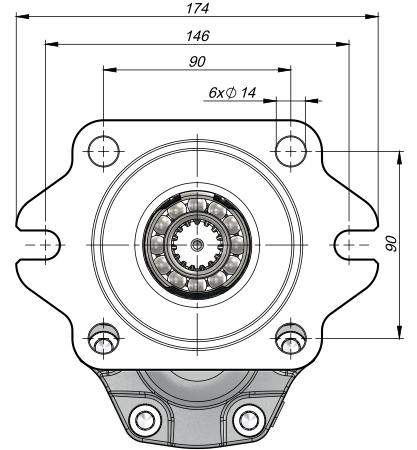
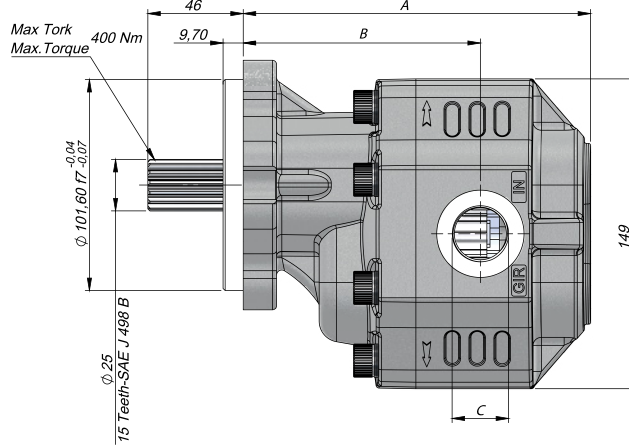
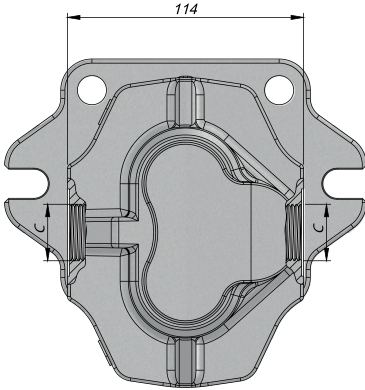
Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
$\geq 200$ bar	11	20/17	25 $\mu\text{m}$
$\leq 200$ bar	12	21/18	40 $\mu\text{m}$



Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
G30017BF531	17	270	300	2300	150	103	G1/2"	G1/2"
G30027BF531	27	265			156	108		
G30034BF531	34	260		1800	161	109	G3/4"	G3/4"
G30043BF531	43	250			167	114		
G30051BF531	51	200		1500	172	114	G1"	G1"
G30061BF531	61	195			180	120,5		
G30073BF531	73	180		1400	192,5	122,5	G1"	G1"
G30082BF531	82				191	124,5		
G30100BF531	100	170		1400	204	138,5	G1"	G1"
G30125BF531	125	160			220	142,5		

**2+4 DELİKLİ SAE B 15 DİŞ ÇİFT YÖNLÜ DİŞLİ POMPA**  
2+4 HOLES SAE B 15 TEETH BI-DIRECTIONAL GEAR PUMP

Giriş Basıncı   Inlet Pressure	0.3÷ 2 bar		
Çalışma Viskozite Seviyesi   Operating Viscosity Range	-12:100 cSt		
Sıvı Sıcaklığı   Fluid Temperature	-40 °C+145 °C		
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m

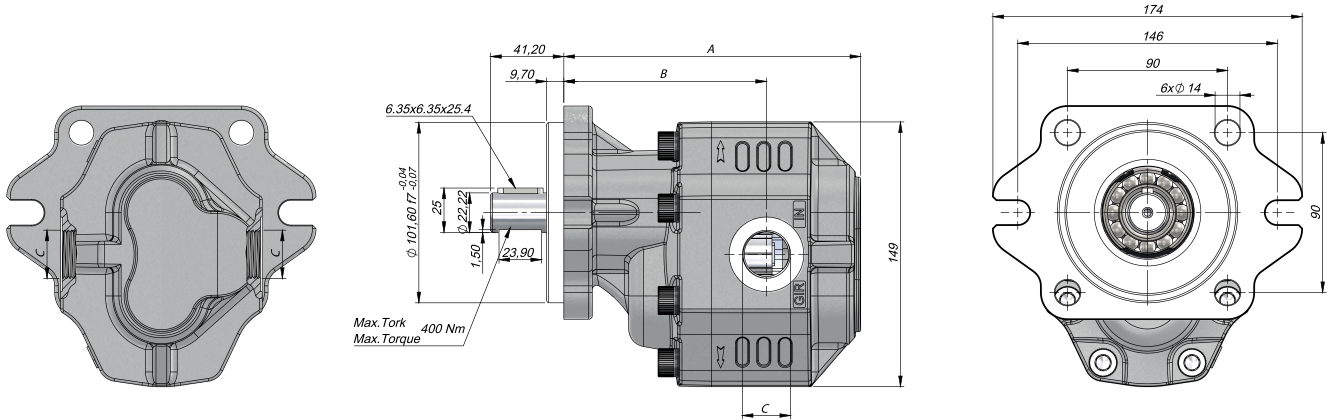


Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
G30017BF631	17	270	300	2300	150	103	G1/2"	G1/2"
G30027BF631	27	265			156	108		
G30034BF631	34	260		2000	161	109	G3/4"	G3/4"
G30043BF631	43	250			167	114		
G30051BF631	51	200		1800	172	114	G1"	G1"
G30061BF631	61	195			180	120,5		
G30073BF631	73	180		1500	192,5	122,5	G1"	G1"
G30082BF631	82				191	124,5		
G30100BF631	100	170		1400	204	138,5	G1 1/4"	G1 1/4"
G30125BF631	125	160			220	142,5		

### TEKNİK VERİLER | TECHNICAL DATA

2+4 DELİKLİ SAE B ÇİFT YÖNLÜ KAMALI DİŞLİ POMPA  
2+4 HOLES SAE B BI-DIRECTIONAL KEYED GEAR PUMP

Giriş Basıncı   Inlet Pressure	0.3÷ 2 bar		
Çalışma Viskozite Seviyesi   Operating Viscosity Range	-12:100 cSt		
Sıvı Sıcaklığı   Fluid Temperature	-40 °C+145 °C		
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 µm
≤200 bar	12	21/18	40 µm

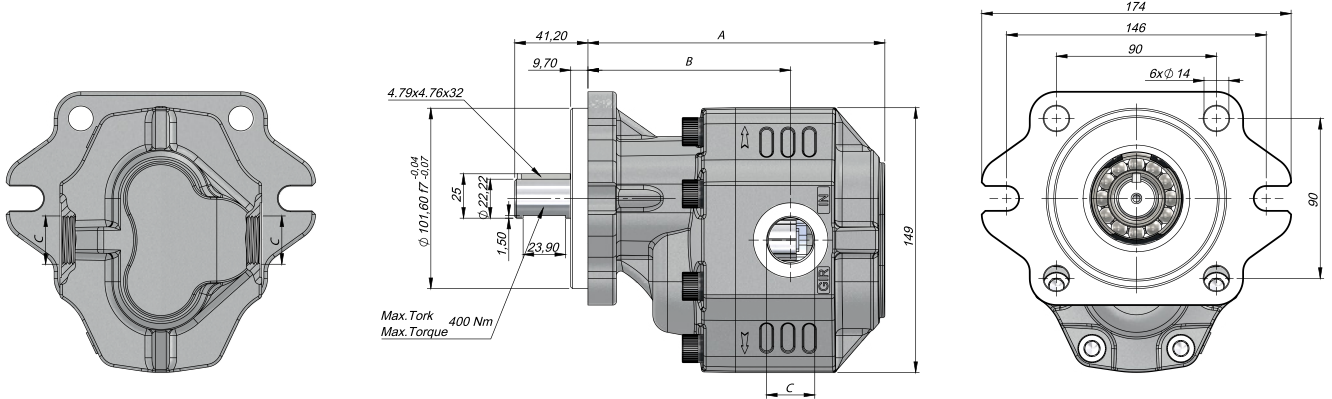


Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
G30017BK131	17	270	300	2300	150	103	G1/2"	G1/2"
G30027BK131	27	265			156	108		
G30034BK131	34	260		1800	161	109	G3/4"	G3/4"
G30043BK131	43	250			167	114		
G30051BK131	51	200		1600	172	114	G1"	G1"
G30061BK131	61	195			192,5	122,5		
G30073BK131	73	180		1500	191	124,5	G1"	G1"
G30082BK131	82				204	138,5		
G30100BK131	100	170		1400	220	142,5	G1 1/4"	G1 1/4"
G30125BK131	125	160			204	138,5		

### TEKNİK VERİLER | TECHNICAL DATA

#### 2+4 DELİKLİ SAE B ÇİFT YÖNLÜ KAMALI DİŞLİ POMPA 2+4 HOLES SAE B BI-DIRECTIONAL KEYS GEAR PUMP

Giriş Basıncı   Inlet Pressure	0.3÷ 2 bar		
Çalışma Viskozite Seviyesi   Operating Viscosity Range	-12:100 cSt		
Sıvı Sıcaklığı   Fluid Temperature	-40 °C+145 °C		
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



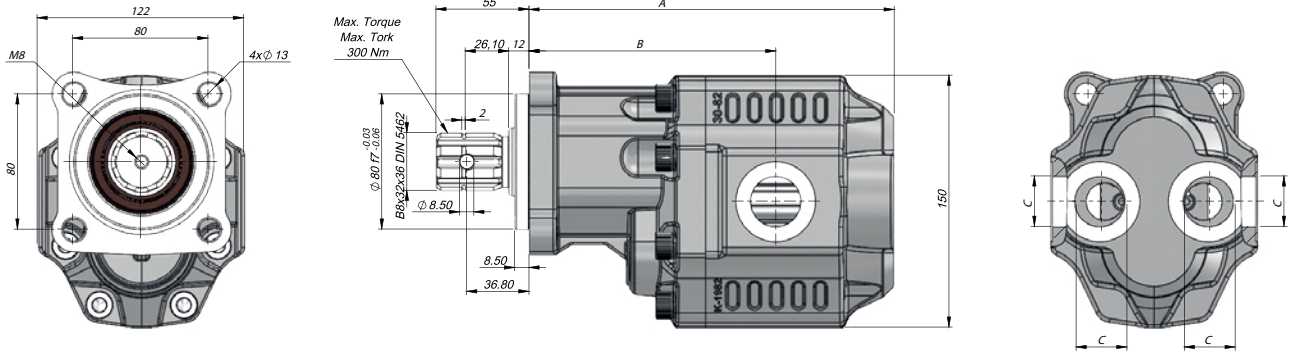
Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
G30017BK231	17	270	300	2300	150	103	G1/2"	G1/2"
G30027BK231	27	265			156	108		
G30034BK231	34	260		2000	161	109	G3/4"	G3/4"
G30043BK231	43	250			167	114		
G30051BK231	51	200		1800	172	114	G1"	G1"
G30061BK231	61	195			180	120,5		
G30073BK231	73	180		1500	192,5	122,5	G1"	G1"
G30082BK231	82				191	124,5		
G30100BK231	100	170		1400	204	138,5	G1 1/4"	G1 1/4"
G30125BK231	125	160			220	142,5		



### TEKNİK VERİLER | TECHNICAL DATA

#### 4 DELİKLİ ISO ÇİFT YÖNLÜ DİŞLİ POMPA | 4 HOLES ISO BI-DIRECTIONAL GEAR PUMP

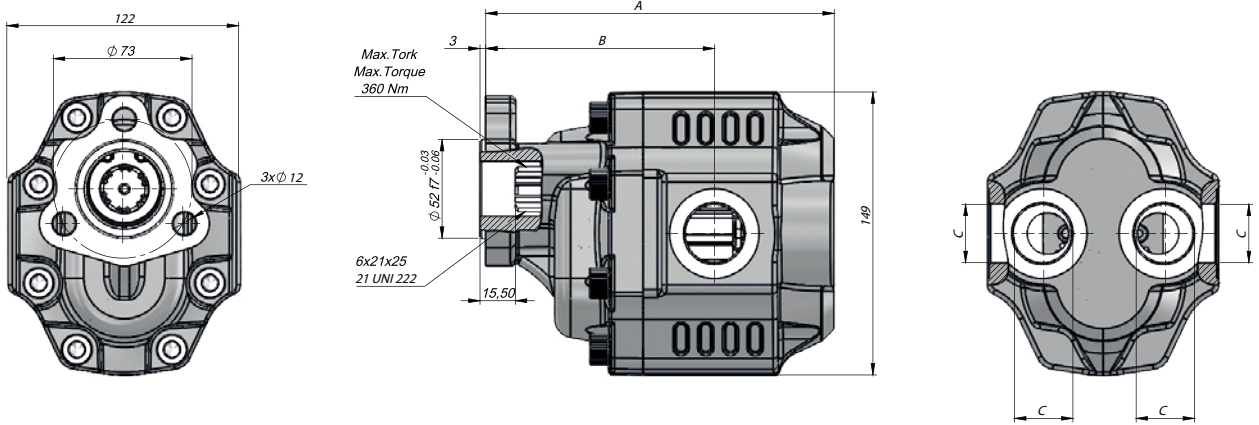
Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 µm
≤200 bar	12	21/18	40 µm



Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
G30034SF135	34	260	300	2000	187	130,5	G3/4"	C
G30043SF135	43	250		1800	193	135,5		
G30051SF135	51	200		1600	198	142	G1"	C
G30061SF135	61	195		1500	206	144		
G30073SF135	73	190			211	147.5		
G30082SF135	82	180						

**3 DELİKLİ UNI ÇİFT YÖNLÜ DİŞLİ POMPA | 3 HOLES UNI BI-DIRECTIONAL GEAR PUMP**

Giriş Basıncı   Inlet Pressure	0.3÷ 2 bar		
Çalışma Viskozite Seviyesi   Operating Viscosity Range	-12:100 cSt		
Sıvı Sıcaklığı   Fluid Temperature	-40 °C+145 °C		
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m

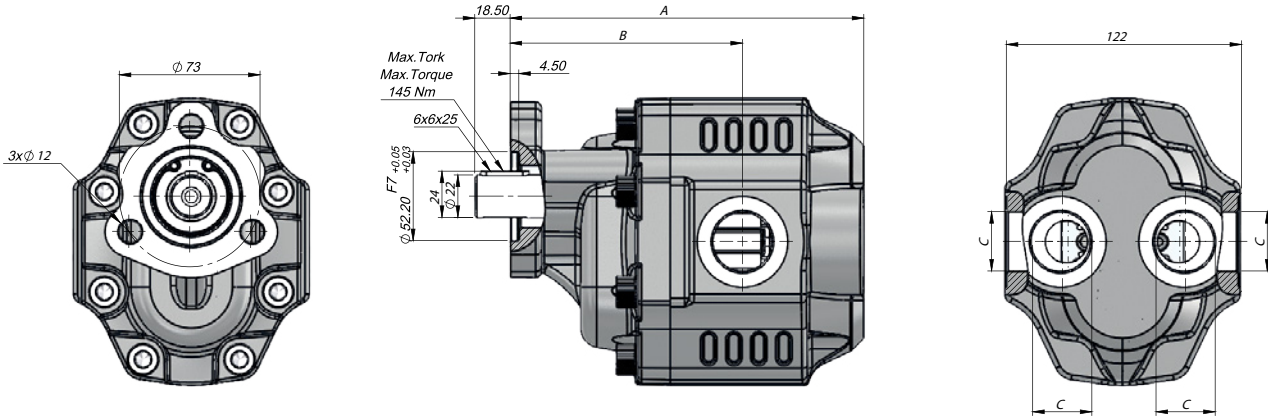


Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
G30034UF435	34	260	300	2000	164,5	109	G3/4"	C
G30043UF435	43	250		1800	170,5	114		
G30051UF435	51	200			175,5	114		
G30061UF435	61	195		1600	183,5	120,5	G1"	C
G30073UF435	73	190			188,5	122,5		
G30082UF435	82	180			1500	194,5		

## TEKNİK VERİLER | TECHNICAL DATA

### 3 DELİKLİ F-UNI ÇİFT YÖNLÜ DİŞLİ POMPA | 3 HOLES F-UNI BI-DIRECTIONAL GEAR PUMP

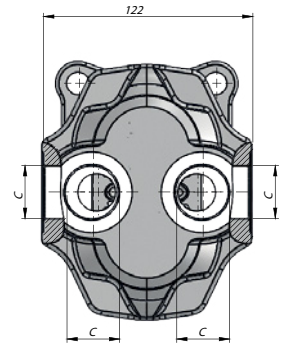
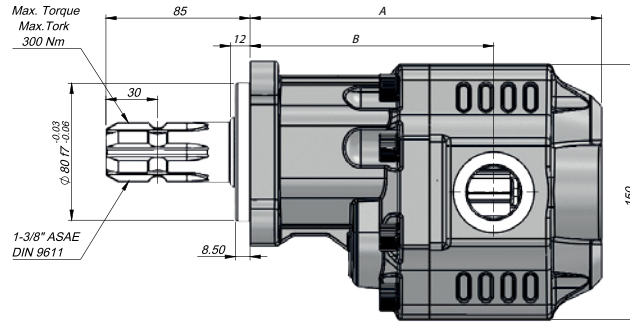
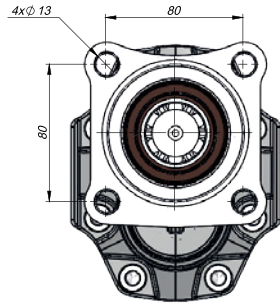
Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu\text{m}$
≤200 bar	12	21/18	40 $\mu\text{m}$



Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
G30034FK435	34	260	300	2000	164,5	109	G3/4"	
G30043FK435	43	250		1800	170,5	114		
G30051FK435	51	200		175,5				
G30061FK435	61	195		1600	183,5	120,5	114	
G30073FK435	73	190			188,5	122,5		
G30082FK435	82	180			194,5	126		

**4 DELİKLİ ASAE-S ÇİFT YÖNLÜ DİŞLİ POMPA | 4 HOLES ASAE-S BI-DIRECTIONAL GEAR PUMP**

Giriş Basıncı   Inlet Pressure	0.3÷ 2 bar		
Çalışma Viskozite Seviyesi   Operating Viscosity Range	-12:100 cSt		
Sıvı Sıcaklığı   Fluid Temperature	-40 °C+145 °C		
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m

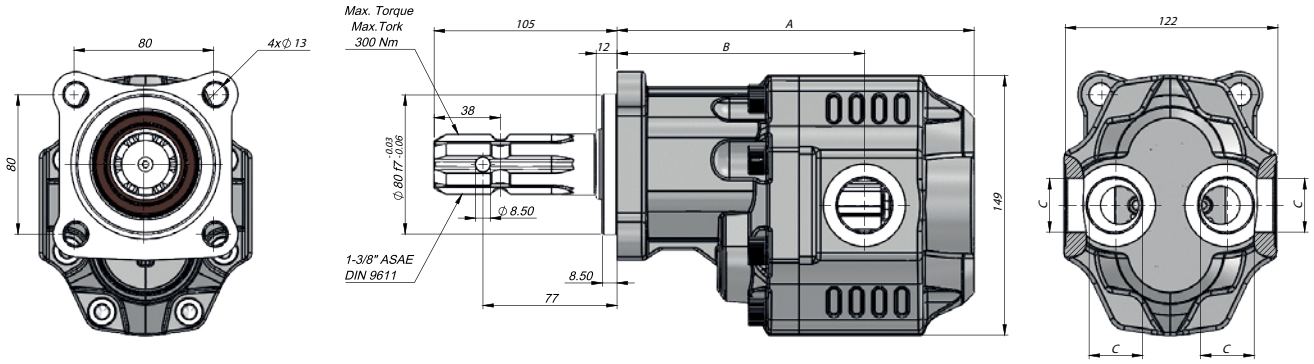


Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
G30034SF235	34	260	300	2000	187	130,5	G3/4"	C
G30043SF235	43	250		1800	193	135,5		
G30051SF235	51	200		198				
G30061SF235	61	195		1600	206	142	G1"	C
G30073SF235	73	190		211	144			
G30082SF235	82	180		1500	216	147,5		

### TEKNİK VERİLER | TECHNICAL DATA

#### 4 DELİKLİ ASAE-L ÇİFT YÖNLÜ DİŞLİ POMPA | 4 HOLES ASAE-L BI-DIRECTIONAL GEAR PUMP

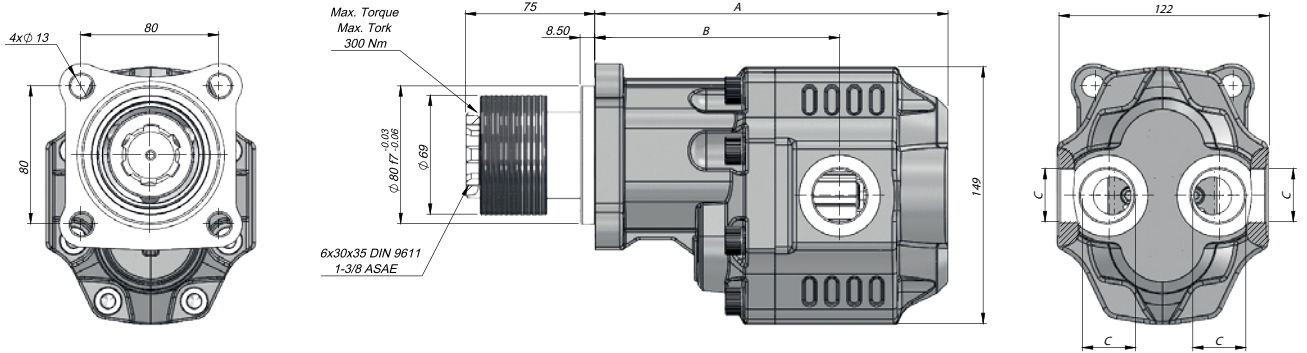
Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu\text{m}$
≤200 bar	12	21/18	40 $\mu\text{m}$



Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
G30034SF835	34	260	300	2000	187	130,5	G3/4"	
G30043SF835	43	250		1800	193	135,5		
G30051SF835	51	200		1600	198	142	G1"	
G30061SF835	61	195		1500	206	144		
G30073SF835	73	190			211	147,5		
G30082SF835	82	180			216			

#### 4 DELİKLİ TRC ÇİFT YÖNLÜ DİŞLİ POMPA | 4 HOLES TRC BI-DIRECTIONAL GEAR PUMP

Giriş Basıncı   Inlet Pressure	0.3÷ 2 bar		
Çalışma Viskozite Seviyesi   Operating Viscosity Range	-12:100 cSt		
Sıvı Sıcaklığı   Fluid Temperature	-40 °C+145 °C		
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m

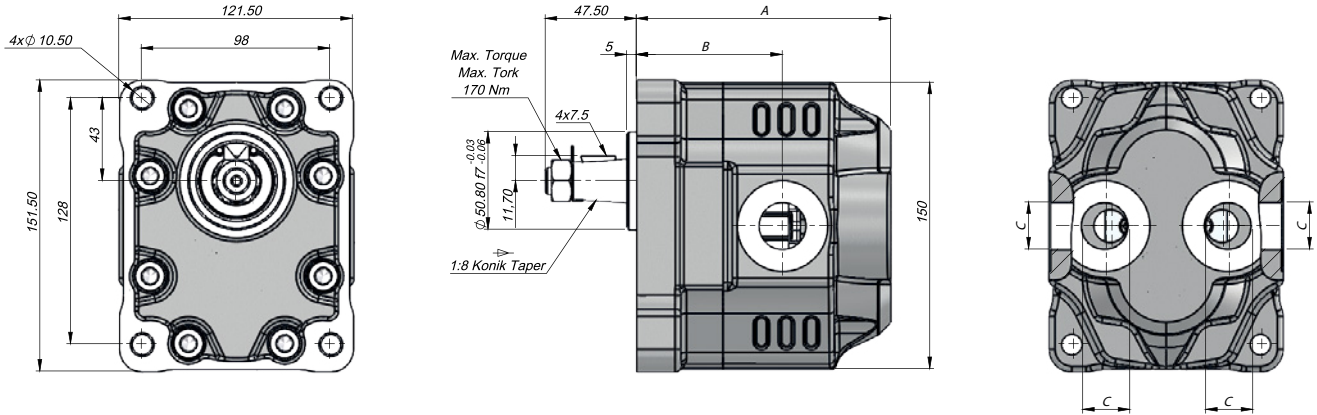


Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
G30034SF335	34	260	300	2000	187	130,5	G3/4"	C
G30043SF335	43	250		1800	193	135,5		
G30051SF335	51	200		198				
G30061SF335	61	195		1600	206	142	G1"	C
G30073SF335	73	190			211	144		
G30082SF335	82	180			216	147,5		

### TEKNİK VERİLER | TECHNICAL DATA

4 DELİKLİ KAMALI K ÇİFT YÖNLÜ DİŞLİ POMPA | 4 HOLES WITH KEYED K BI-DIRECTIONAL GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu\text{m}$
≤200 bar	12	21/18	40 $\mu\text{m}$

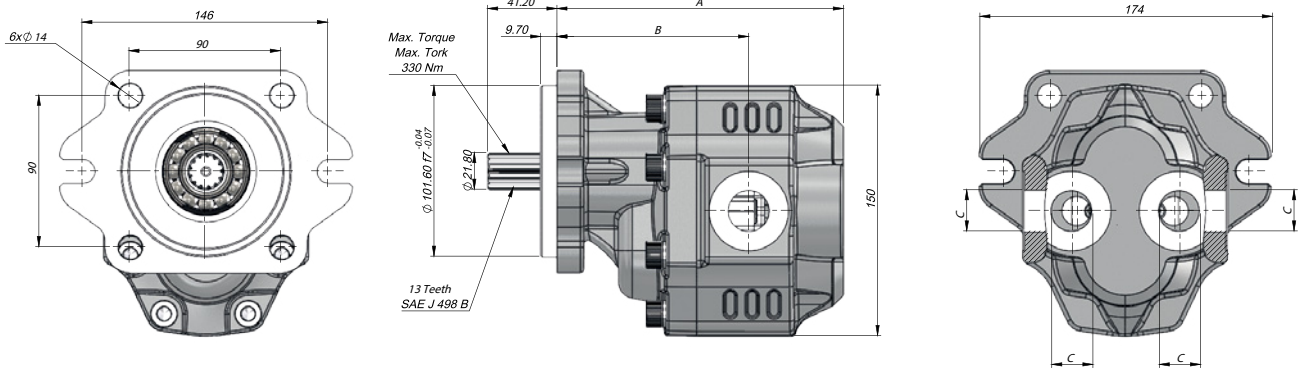


Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
G30034KK635	34	260	300	2000	126.5	71	G3/4"	
G30043KK635	43	250		1800	132.5	76		
G30051KK635	51	200		137.5				
G30061KK635	61	195		1600	145.5	82.5	G1"	
G30073KK635	73	190			150.5	84.5		
G30082KK635	82	180			156.5	86.5		

### TEKNİK VERİLER | TECHNICAL DATA

2+4 DELİKLİ SAE B 13 DİŞ ÇİFT YÖNLÜ DİŞLİ POMPA  
2+4 HOLES SAE B 13 TEETH BI-DIRECTIONAL GEAR PUMP

Giriş Basıncı   Inlet Pressure	0.3÷ 2 bar		
Çalışma Viskozite Seviyesi   Operating Viscosity Range	-12:100 cSt		
Sıvı Sıcaklığı   Fluid Temperature	-40 °C+145 °C		
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



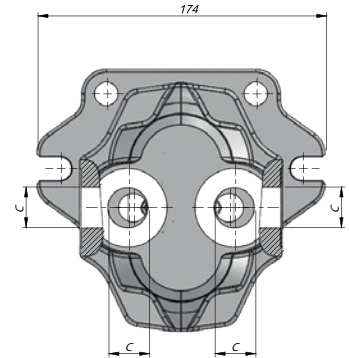
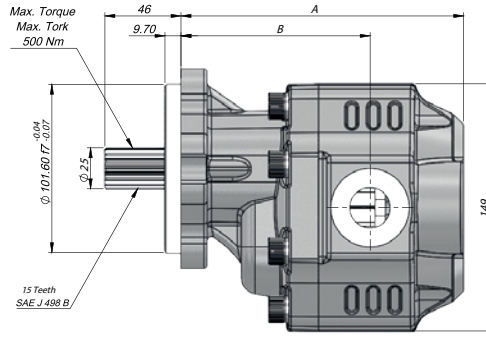
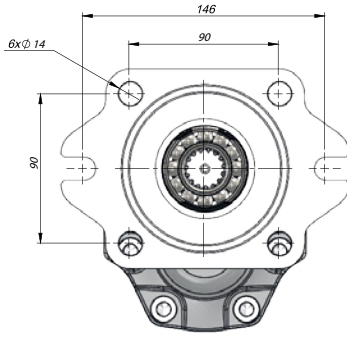
Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
G30034BF535	34	260	300	2000	164,5	109	G3/4"	
G30043BF535	43	250		1800	170,5	114		
G30051BF535	51	200		175,5				
G30061BF535	61	195		1600	183,5	120,5	G1"	
G30073BF535	73	190			188,5	122,5		
G30082BF535	82	180			194,5	126		



## TEKNİK VERİLER | TECHNICAL DATA

2+4 DELİKLİ SAE B 15 DİŞ ÇİFT YÖNLÜ DİŞLİ POMPA  
2+4 HOLES SAE B 15 TEETH BI-DIRECTIONAL GEAR PUMP

Giriş Basıncı   Inlet Pressure	0.3÷ 2 bar		
Çalışma Viskozite Seviyesi   Operating Viscosity Range	-12:100 cSt		
Sıvı Sıcaklığı   Fluid Temperature	-40 °C+145 °C		
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu\text{m}$
≤200 bar	12	21/18	40 $\mu\text{m}$

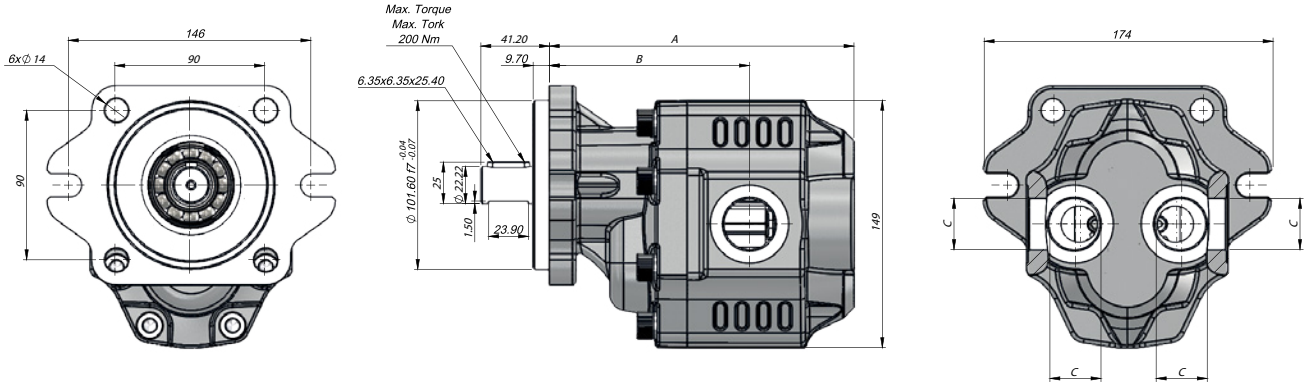


Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
G30034BF635	34	260	300	2000	164,5	109	G3/4"	C
G30043BF635	43	250		1800	170,5	114		
G30051BF635	51	200		175,5	G1"	C		
G30061BF635	61	195		1600			183,5	120,5
G30073BF635	73	190		188,5			122,5	
G30082BF635	82	180		1500			194,5	126

## TEKNİK VERİLER | TECHNICAL DATA

### 2+4 DELİKLİ SAE B KAMALI ÇİFT YÖNLÜ DİŞLİ POMPA 2+4 HOLES SAE B KEYED BI-DIRECTIONAL GEAR PUMP

Giriş Basıncı   Inlet Pressure	0.3÷ 2 bar		
Çalışma Viskozite Seviyesi   Operating Viscosity Range	-12:100 cSt		
Sıvı Sıcaklığı   Fluid Temperature	-40 °C+145 °C		
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m

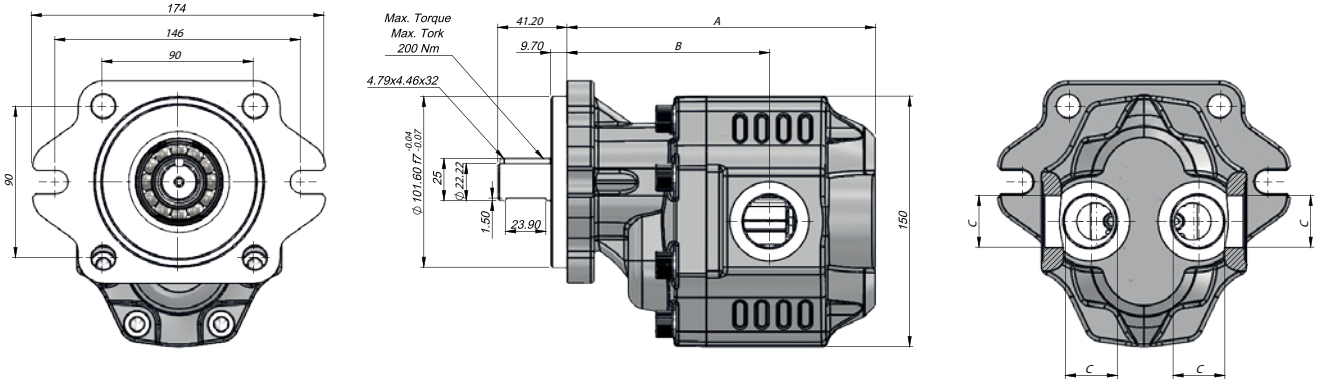


Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
G30034BK135	34	260	300	2000	164,5	109	G3/4"	C
G30043BK135	43	250		1800	170,5	114		
G30051BK135	51	200		175,5				
G30061BK135	61	195		1600	183,5	120,5	G1"	C
G30073BK135	73	190			188,5	122,5		
G30082BK135	82	180			194,5	126		

## TEKNİK VERİLER | TECHNICAL DATA

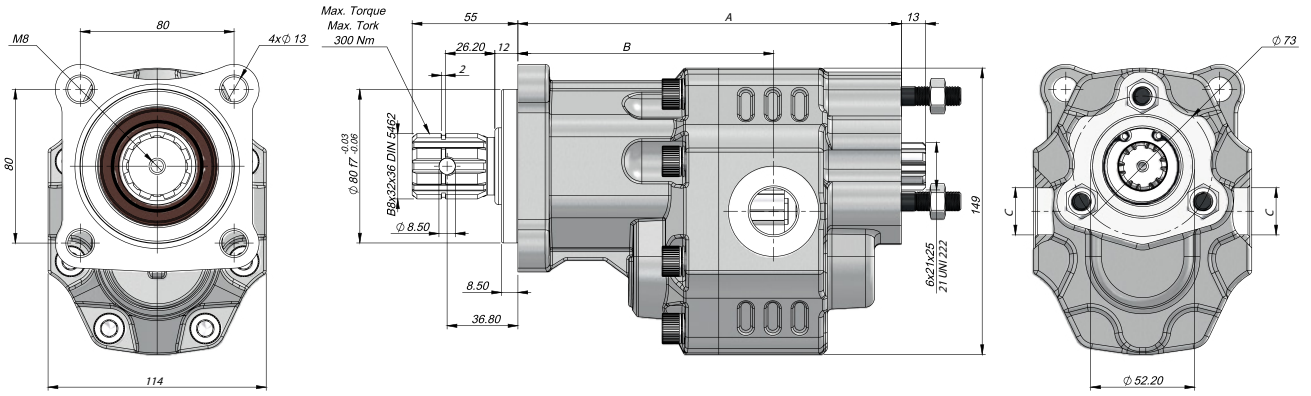
2+4 DELİKLİ SAE B KAMALI ÇİFT YÖNLÜ DİŞLİ POMPA  
2+4 HOLES SAE B KEYED BI-DIRECTIONAL GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu\text{m}$
≤200 bar	12	21/18	40 $\mu\text{m}$



Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
G30034BK235	34	260	300	2000	164,5	109	G3/4"	
G30043BK235	43	250		1800	170,5	114		
G30051BK235	51	200		175,5				
G30061BK235	61	195		1600	183,5	120,5	G1"	
G30073BK235	73	190			188,5	122,5		
G30082BK235	82	180			194,5	126		

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	βx=75
≥200 bar	11	20/17	25 μm
≤200 bar	12	21/18	40 μm



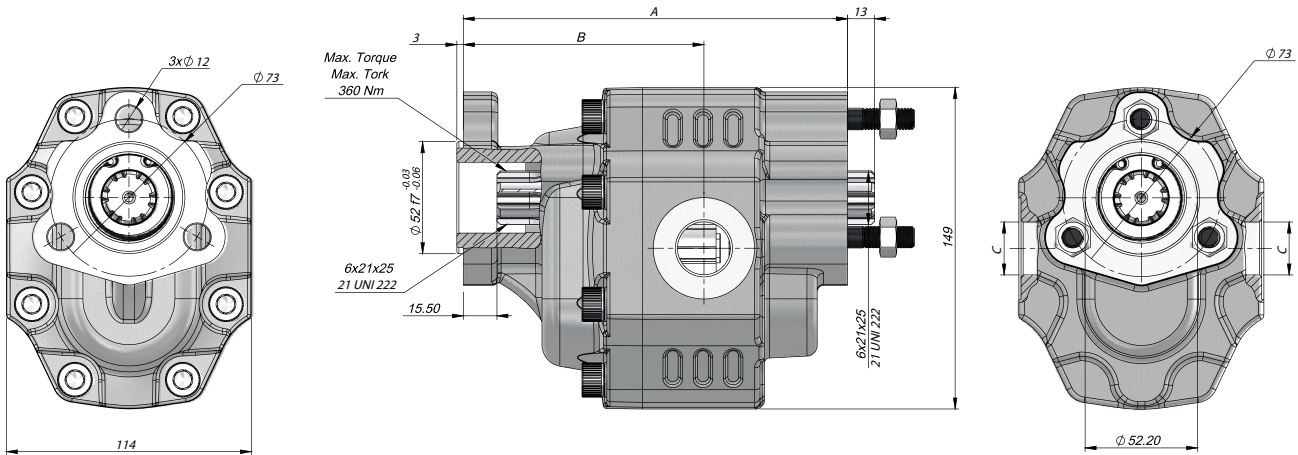
Kod Code			İletim Hacmi Displacement (cm <sup>3</sup> /rev)	Maks.Sürekli Basıncı Max.Continuous Pressure (100%)(BAR)	Min. Hız Min.Speed (RPM)	Maks.Sürekli Hız Max.Continuous Speed (RPM)	A (mm)	B (mm)	Giriş Inlet C	Çıkış Outlet D
Sol / Left	Sağ / Right	BD								
GT30017SF111	GT30017SF121	GT30017SF131	17	300	300	2600	182,5	123,5	G1/2"	G1/2"
GT30027SF111	GT30027SF121	GT30027SF131	27	290			188,5	126,5		
GT30034SF111	GT30034SF121	GT30034SF131	34	285		2300	193,5	128,5	G3/4"	G3/4"
GT30036SF111	GT30036SF121	GT30036SF131	36				195	128,5		
GT30038SF111	GT30038SF121	GT30038SF131	38	193,5		128,5				
GT30043SF111	GT30043SF121	GT30043SF131	43	280		2100	199,5	133		
GT30051SF111	GT30051SF121	GT30051SF131	51	230		204,5	134,5			
GT30061SF111	GT30061SF121	GT30061SF131	61	225		2000	212,5	138,5	G1"	G1"
GT30073SF111	GT30073SF121	GT30073SF131	73	215		1800	217,5	146,5		
GT30082SF111	GT30082SF121	GT30082SF131	82	200		1700	223,5	146		
GT30100SF111	GT30100SF121	GT30100SF131	100	190		1600	236,5	160	G1 1/4"	G1 1/4"
GT30125SF111	GT30125SF121	GT30125SF131	125	170			252,5	164		

\*The values in the table refer to unidirectional pumps. Reversible pump max pressures are 10% lower than those shown in table.  
For different working conditions please consult our sales department.

## TEKNİK VERİLER | TECHNICAL DATA

### 3 DELİKLİ UNI TANDEM DİŞLİ POMPA | 3 HOLES UNI TANDEM GEAR PUMP

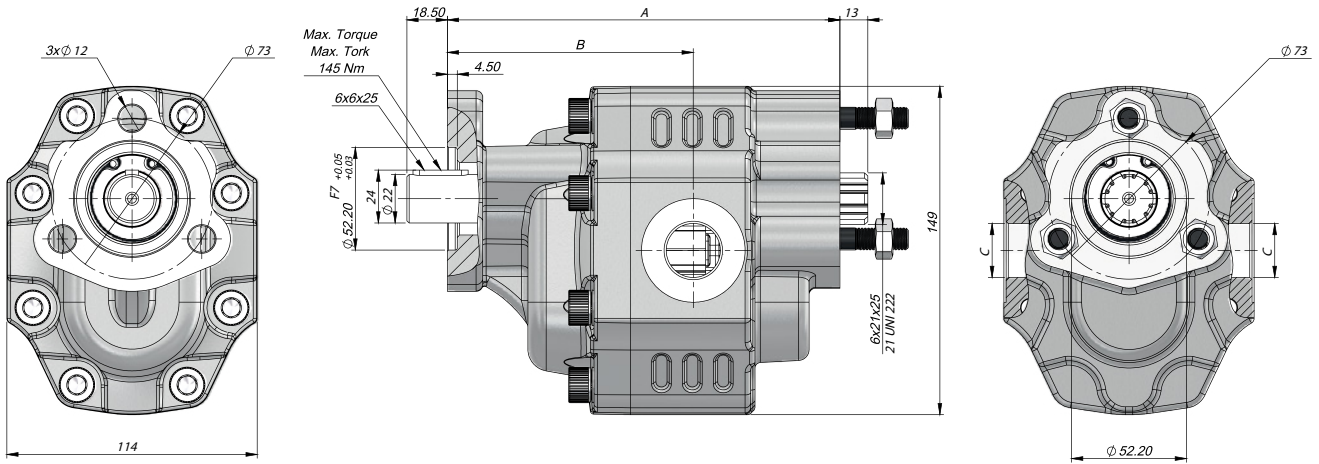
Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D
GT30017UF411	GT30017UF421	GT30017UF431	17	300	2600	161	102	G1/2"	G1/2"
GT30027UF411	GT30027UF421	GT30027UF431	27	290		167	105		
GT30034UF411	GT30034UF421	GT30034UF431	34	285	2300	172	107	G3/4"	G3/4"
GT30036UF411	GT30036UF421	GT30036UF431	36			173,5	118,5		
GT30038UF411	GT30038UF421	GT30038UF431	38	280	2100	174	118,5	G1"	G1"
GT30043UF411	GT30043UF421	GT30043UF431	43			176	111,5		
GT30051UF411	GT30051UF421	GT30051UF431	51	225	2000	183	113	G1 1/4"	G1 1/4"
GT30061UF411	GT30061UF421	GT30061UF431	61			191	117		
GT30073UF411	GT30073UF421	GT30073UF431	73	215	1800	196	125	G1"	G1"
GT30082UF411	GT30082UF421	GT30082UF431	82			202	124,5		
GT30100UF411	GT30100UF421	GT30100UF431	100	190	1600	215	138,5	G1 1/4"	G1 1/4"
GT30125UF411	GT30125UF421	GT30125UF431	125			231	142,5		

\*The values in the table refer to unidirectional pumps. Reversible pump max pressures are 10% lower than those shown in table. For different working conditions please consult our sales department.

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



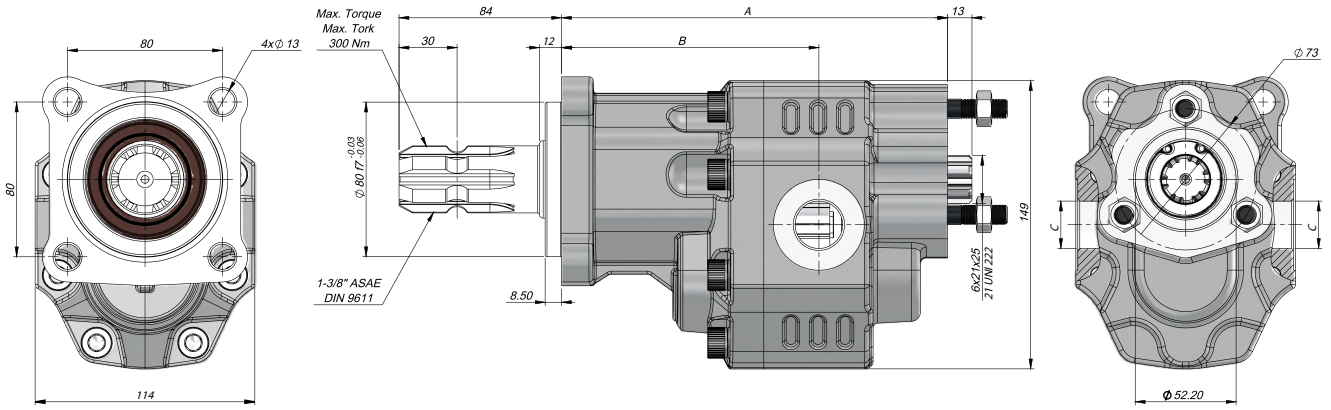
Kod Code			İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
Sol / Left	Sağ / Right	BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D
GT30017FK411	GT30017FK421	GT30017FK431	17	300	300	2600	161	102	G1/2"	G1/2"
GT30027FK411	GT30027FK421	GT30027FK431	27	290			167	105		
GT30034FK411	GT30034FK421	GT30034FK431	34	285		2300	172	107	G3/4"	G3/4"
GT30036FK411	GT30036FK421	GT30036FK431	36				173,5	118,5		
GT30038FK411	GT30038FK421	GT30038FK431	38				174	118,5		
GT30043FK411	GT30043FK421	GT30043FK431	43				176	111,5		
GT30051FK411	GT30051FK421	GT30051FK431	51	230		2100	183	113	G1"	G1"
GT30061FK411	GT30061FK421	GT30061FK431	61	225			191	117		
GT30073FK411	GT30073FK421	GT30073FK431	73	215		1800	196	125	G1"	G1"
GT30082FK411	GT30082FK421	GT30082FK431	82	200			202	124,5		
GT30100FK411	GT30100FK421	GT30100FK431	100	190		1600	215	138,5	G1 1/4"	G1 1/4"
GT30125FK411	GT30125FK421	GT30125FK431	125	170			231	142,5		

\*The values in the table refer to unidirectional pumps. Reversible pump max pressures are 10% lower than those shown in table. For different working conditions please consult our sales department.

## TEKNİK VERİLER | TECHNICAL DATA

### 4 DELİKLİ ASAE-S TANDEM DİŞLİ POMPA | 4 HOLES ASAE-S TANDEM GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu\text{m}$
≤200 bar	12	21/18	40 $\mu\text{m}$

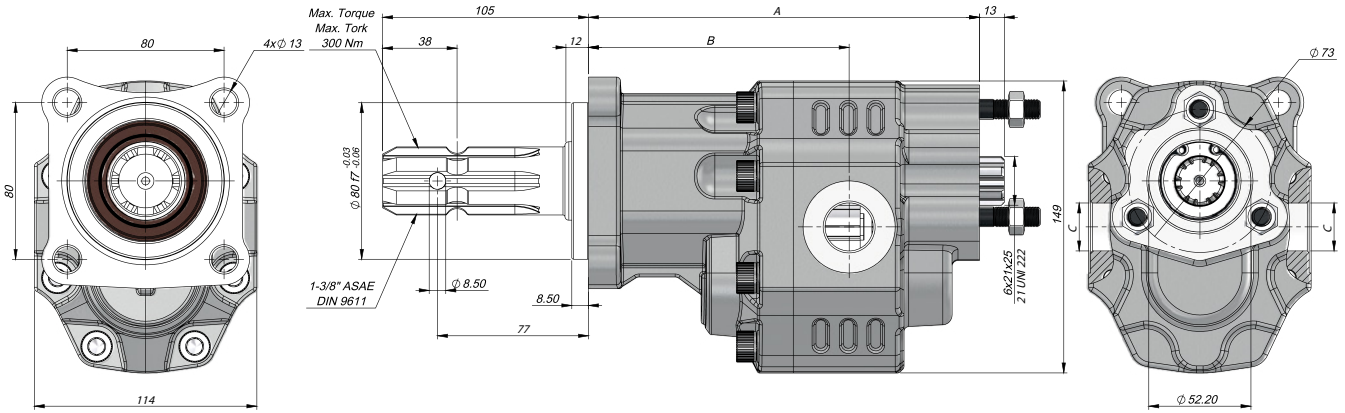


Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basıncı Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet	
Sol / Left	Sağ / Right	BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(mm)	(mm)	C	D	
GT30017SF211	GT30017SF221	GT30017SF231	17	300	300	182,5	123,5	G1/2"	G1/2"	
GT30027SF211	GT30027SF221	GT30027SF231	27	290		188,5	126,5			
GT30034SF211	GT30034SF221	GT30034SF231	34	285		193,5	128,5	G3/4"	G3/4"	
GT30036SF211	GT30036SF221	GT30036SF231	36			195	128,5			
GT30038SF211	GT30038SF221	GT30038SF231	38			193,5	128,5			
GT30043SF211	GT30043SF221	GT30043SF231	43	280		2100	199,5	133	G1"	G1"
GT30051SF211	GT30051SF221	GT30051SF231	51	230		204,5	134,5			
GT30061SF211	GT30061SF221	GT30061SF231	61	225		212,5	138,5			
GT30073SF211	GT30073SF221	GT30073SF231	73	215		1800	217,5	146,5	G1 1/4"	G1 1/4"
GT30082SF211	GT30082SF221	GT30082SF231	82	200		1700	223,5	146		
GT30100SF211	GT30100SF221	GT30100SF231	100	190		1600	236,5	160	G1 1/4"	G1 1/4"
GT30125SF211	GT30125SF221	GT30125SF231	125	170			252,5	164		

\*The values in the table refer to unidirectional pumps. Reversible pump max pressures are 10% lower than those shown in table. For different working conditions please consult our sales department.

**4 DELİKLİ ASAE-L TANDEM DİŞLİ POMPA | 4 HOLES ASAE-L TANDEM GEAR PUMP**

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



Kod Code			İletim Hacmi Displacement (cm <sup>3</sup> /rev)	Basınç Max.Continuous Pressure (100%)(BAR)	Min. Hız Min.Speed (RPM)	Hız Max.Continuous Speed (RPM)	A (mm)	B (mm)	Giriş Inlet C	Çıkış Outlet D
Sol / Left	Sağ / Right	BD								
GT30017SF811	GT30017SF821	GT30017SF831	17	300	300	2600	182,5	123,5	G1/2"	G1/2"
GT30027SF811	GT30027SF821	GT30027SF831	27	290			188,5	126,5		
GT30034SF811	GT30034SF821	GT30034SF831	34	285		2300	193,5	128,5	G3/4"	G3/4"
GT30036SF811	GT30036SF821	GT30036SF831	36				195	128,5		
GT30038SF811	GT30038SF821	GT30038SF831	38				193,5	128,5		
GT30043SF811	GT30043SF821	GT30043SF831	43	280		2100	199,5	133	G1"	G1"
GT30051SF811	GT30051SF821	GT30051SF831	51	230			204,5	134,5		
GT30061SF811	GT30061SF821	GT30061SF831	61	225			212,5	138,5		
GT30073SF811	GT30073SF821	GT30073SF831	73	215		1800	217,5	146,5	G1"	G1"
GT30082SF811	GT30082SF821	GT30082SF831	82	200			223,5	146		
GT30100SF811	GT30100SF821	GT30100SF831	100	190	1600	236,5	160	G1 1/4"	G1 1/4"	
GT30125SF811	GT30125SF821	GT30125SF831	125	170		252,5	164			

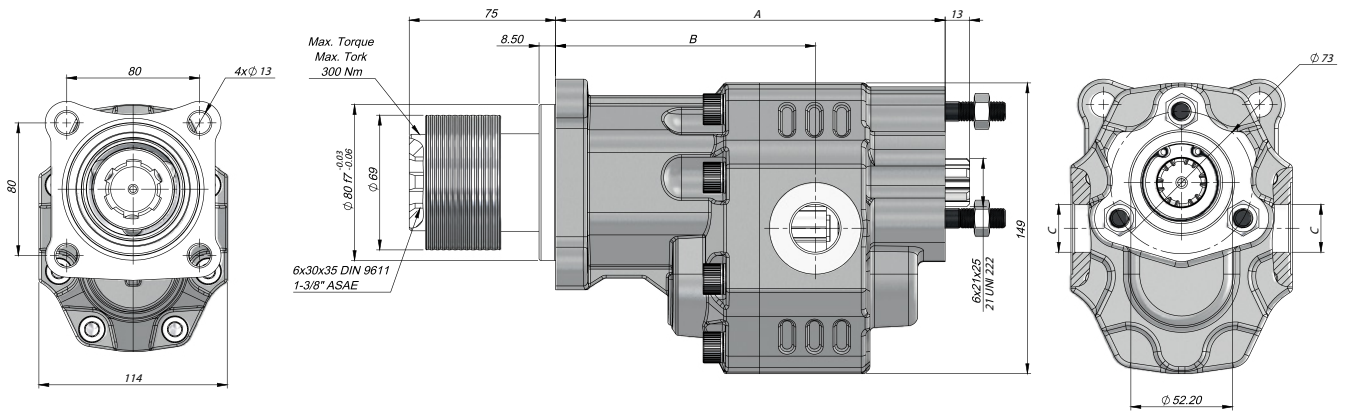
\*The values in the table refer to unidirectional pumps. Reversible pump max pressures are 10% lower than those shown in table. For different working conditions please consult our sales department.



### TEKNİK VERİLER | TECHNICAL DATA

#### 4 DELİKLİ TRC TANDEM DİŞLİ POMPA | 4 HOLES TRC TANDEM GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 µm
≤200 bar	12	21/18	40 µm

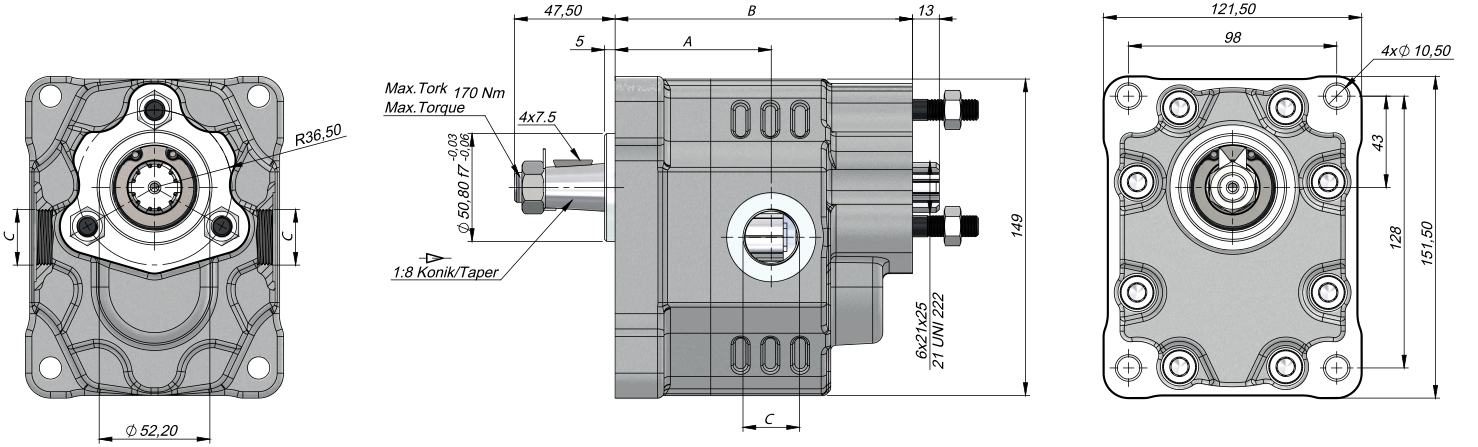


Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet	
Sol / Left	Sağ / Right	BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(mm)	(mm)	C	D	
GT30017SF311	GT30017SF321	GT30017SF331	17	300	300	182,5	123,5	G1/2"	G1/2"	
GT30027SF311	GT30027SF321	GT30027SF331	27	290		188,5	126,5			
GT30034SF311	GT30034SF321	GT30034SF331	34	285		193,5	128,5	G3/4"	G3/4"	
GT30036SF311	GT30036SF321	GT30036SF331	36			195	128,5			
GT30038SF311	GT30038SF321	GT30038SF331	38			193,5	128,5			
GT30043SF311	GT30043SF321	GT30043SF331	43			199,5	133			
GT30051SF311	GT30051SF321	GT30051SF331	51	230		204,5	134,5	G1"	G1"	
GT30061SF311	GT30061SF321	GT30061SF331	61	225		212,5	138,5			
GT30073SF311	GT30073SF321	GT30073SF331	73	215		1800	217,5			146,5
GT30082SF311	GT30082SF321	GT30082SF331	82	200		1700	223,5			146
GT30100SF311	GT30100SF321	GT30100SF331	100	190		1600	236,5	160	G1 1/4"	G1 1/4"
GT30125SF311	GT30125SF321	GT30125SF331	125	170			252,5	164		

\*The values in the table refer to unidirectional pumps. Reversible pump max pressures are 10% lower than those shown in table. For different working conditions please consult our sales department.

**4 DELİKLİ KAMALI K TANDEM DİŞLİ POMPA | 4 HOLES WITH KEYED K TANDEM GEAR PUMP**

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
$\geq 200$ bar	11	20/17	25 $\mu\text{m}$
$\leq 200$ bar	12	21/18	40 $\mu\text{m}$



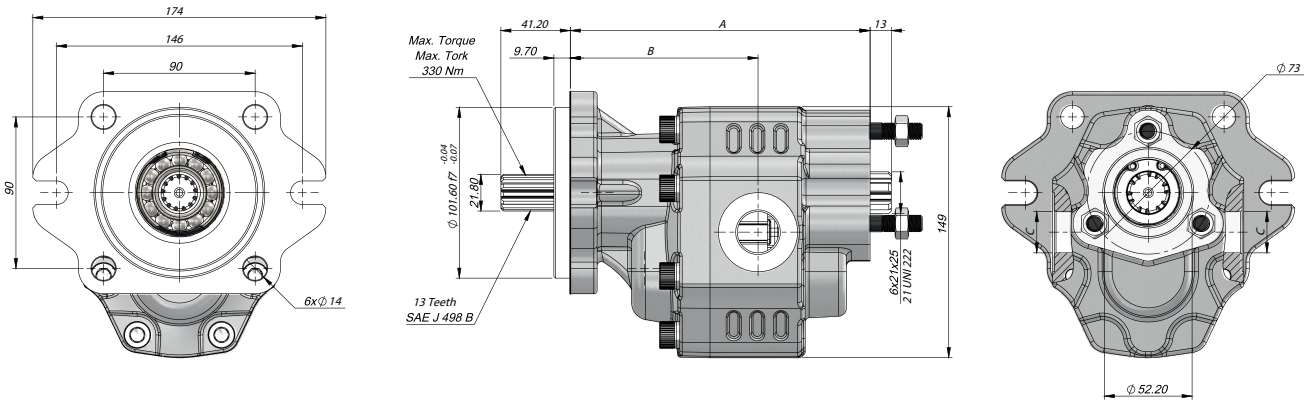
Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D
GT30017KK611	GT30017KK621	17	300	300	2600	182,5	123,5	G1/2"	G1/2"
GT30027KK611	GT30027KK621	27	290			188,5	126,5		
GT30034KK611	GT30034KK621	34	285		2300	193,5	128,5	G3/4"	G3/4"
GT30036KK611	GT30036KK621	36				195	128,5		
GT30038KK611	GT30038KK621	38				193,5	128,5		
GT30043KK611	GT30043KK621	43	280		2100	199,5	133	G1"	G1"
GT30051KK611	GT30051KK621	51	230			204,5	134,5		
GT30061KK611	GT30061KK621	61	225		2000	212,5	138,5	G1"	G1"
GT30073KK611	GT30073KK621	73	215		1800	217,5	146,5		
GT30082KK611	GT30082KK621	82	200		1700	223,5	146		
GT30100KK611	GT30100KK621	100	190		1600	236,5	160	G1 1/4"	G1 1/4"
GT30125KK611	GT30125KK621	125	170			252,5	164		

\*The values in the table refer to unidirectional pumps. Reversible pump max pressures are 10% lower than those shown in table. For different working conditions please consult our sales department.

### TEKNİK VERİLER | TECHNICAL DATA

2+4 DELİKLİ SAE B 13 DİŞ TANDEM DİŞLİ POMPA  
2+4 HOLES SAE B 13 TEETH TANDEM GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 µm
≤200 bar	12	21/18	40 µm



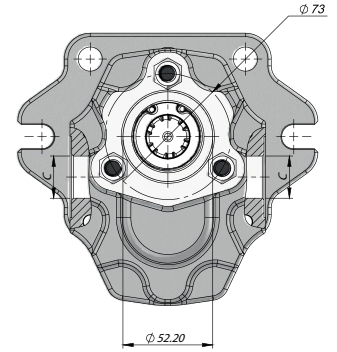
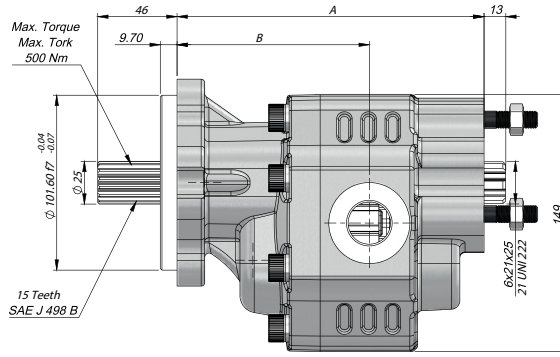
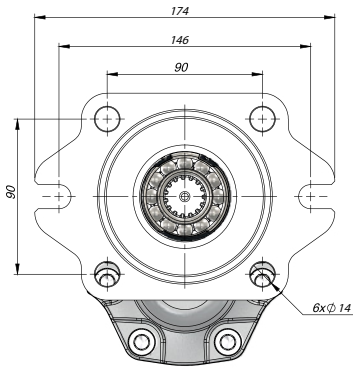
Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basıncı Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet	
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D	
GT30017BF511	GT30017BF521	GT30017BF531	17	300	2600	182,5	123,5	G1/2"	G1/2"	
GT30027BF511	GT30027BF521	GT30027BF531	27	290		188,5	126,5			
GT30034BF511	GT30034BF521	GT30034BF531	34	285	2300	193,5	128,5	G3/4"	G3/4"	
GT30036BF511	GT30036BF521	GT30036BF531	36			195	128,5			
GT30038BF511	GT30038BF521	GT30038BF531	38	300	2100	193,5	128,5	G1"	G1"	
GT30043BF511	GT30043BF521	GT30043BF531	43			280	199,5			133
GT30051BF511	GT30051BF521	GT30051BF531	51			230	204,5			134,5
GT30061BF511	GT30061BF521	GT30061BF531	61	225	2000	212,5	138,5	G1 1/4"	G1 1/4"	
GT30073BF511	GT30073BF521	GT30073BF531	73	215	1800	217,5	146,5			
GT30082BF511	GT30082BF521	GT30082BF531	82	200	1700	223,5	146	G1 1/4"	G1 1/4"	
GT30100BF511	GT30100BF521	GT30100BF531	100	190	1600	236,5	160			
GT30125BF511	GT30125BF521	GT30125BF531	125	170		252,5	164			

\*The values in the table refer to unidirectional pumps. Reversible pump max pressures are 10% lower than those shown in table. For different working conditions please consult our sales department.

## TEKNİK VERİLER | TECHNICAL DATA

### 2+4 DELİKLİ SAE B 15 DİŞ TANDEM DİŞLİ POMPA 2+4 HOLES SAE B 15 TEETH TANDEM GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



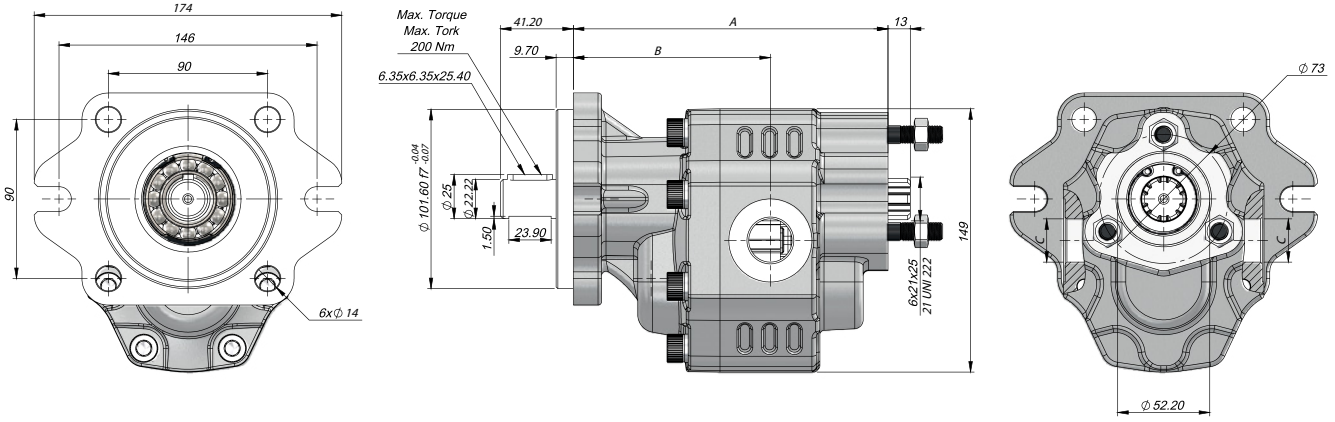
Kod Code			İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
Sol / Left	Sağ / Right	BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D
GT30017BF511	GT30017BF521	GT30017BF531	17	300	300	2600	182,5	123,5	G1/2"	G1/2"
GT30027BF511	GT30027BF521	GT30027BF531	27	290			188,5	126,5		
GT30034BF511	GT30034BF521	GT30034BF531	34	285		2300	193,5	128,5	G3/4"	G3/4"
GT30036BF511	GT30036BF521	GT30036BF531	36				195	128,5		
GT30038BF511	GT30038BF521	GT30038BF531	38				193,5	128,5		
GT30043BF511	GT30043BF521	GT30043BF531	43	280		2100	199,5	133	G1"	G1"
GT30051BF511	GT30051BF521	GT30051BF531	51	230			204,5	134,5		
GT30061BF511	GT30061BF521	GT30061BF531	61	225		1800	212,5	138,5	G1 1/4"	G1 1/4"
GT30073BF511	GT30073BF521	GT30073BF531	73	215			217,5	146,5		
GT30082BF511	GT30082BF521	GT30082BF531	82	200			223,5	146		
GT30100BF511	GT30100BF521	GT30100BF531	100	190		1600	236,5	160	G1 1/4"	G1 1/4"
GT30125BF511	GT30125BF521	GT30125BF531	125	170			252,5	164		

\*The values in the table refer to unidirectional pumps. Reversible pump max pressures are 10% lower than those shown in table. For different working conditions please consult our sales department.

### TEKNİK VERİLER | TECHNICAL DATA

2+4 DELİKLİ SAE B KAMALI TANDEM DİŞLİ POMPA  
2+4 HOLES SAE B WITH KEYED TANDEM GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



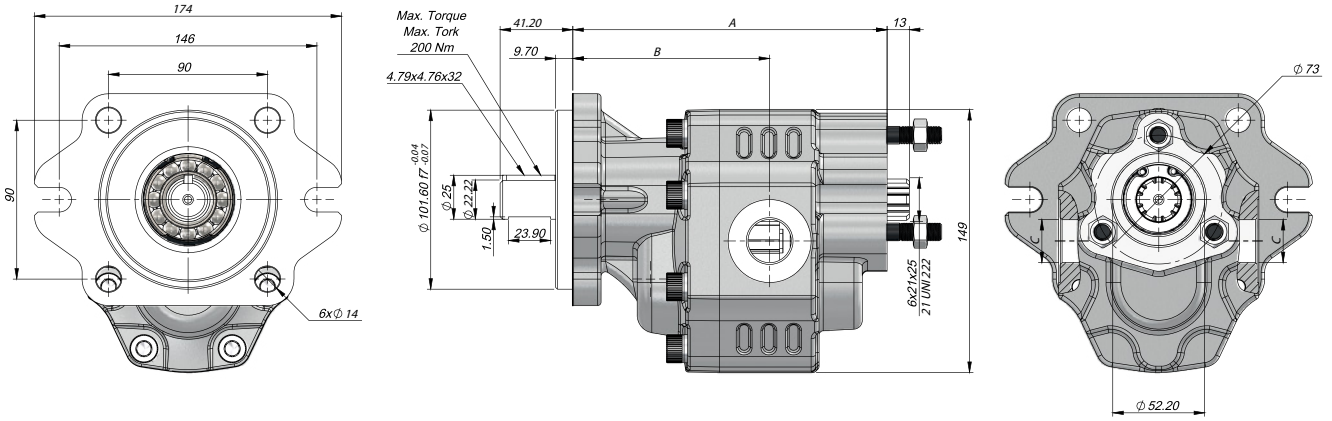
Kod Code			İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet	
Sol / Left	Sağ / Right	BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D	
GT30017BK111	GT30017BK121	GT30017BK131	17	300	300	2600	182,5	123,5	G1/2"	G1/2"	
GT30027BK111	GT30027BK121	GT30027BK131	27	290			188,5	126,5			
GT30034BK111	GT30034BK121	GT30034BK131	34	285		2300	193,5	128,5	G3/4"	G3/4"	
GT30036BK111	GT30036BK121	GT30036BK131	36				195	128,5			
GT30038BK111	GT30038BK121	GT30038BK131	38				193,5	128,5			
GT30043BK111	GT30043BK121	GT30043BK131	43	280		2100	199,5	133	G1"	G1"	
GT30051BK111	GT30051BK121	GT30051BK131	51	230			204,5	134,5			
GT30061BK111	GT30061BK121	GT30061BK131	61	225		2000	212,5	138,5	G1"	G1"	
GT30073BK111	GT30073BK121	GT30073BK131	73	215			1800	217,5			146,5
GT30082BK111	GT30082BK121	GT30082BK131	82	200		1700	223,5	146	G1 1/4"	G1 1/4"	
GT30100BK111	GT30100BK121	GT30100BK131	100	190			1600	236,5			160
GT30125BK111	GT30125BK121	GT30125BK131	125	170				252,5			164

\*The values in the table refer to unidirectional pumps. Reversible pump max pressures are 10% lower than those shown in table. For different working conditions please consult our sales department.

## TEKNİK VERİLER | TECHNICAL DATA

### 2+4 DELİKLİ SAE B KAMALI TANDEM DİŞLİ POMPA 2+4 HOLES SAE B WITH KEYED TANDEM GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
$\geq 200$ bar	11	20/17	25 $\mu\text{m}$
$\leq 200$ bar	12	21/18	40 $\mu\text{m}$



Kod Code			İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
Sol / Left	Sağ / Right	BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D
GT30017BK211	GT30017BK221	GT30017BK231	17	300	300	2600	182,5	123,5	G1/2"	G1/2"
GT30027BK211	GT30027BK221	GT30027BK231	27	290			188,5	126,5		
GT30034BK211	GT30034BK221	GT30034BK231	34	285		2300	193,5	128,5	G3/4"	G3/4"
GT30036BK211	GT30036BK221	GT30036BK231	36				195	128,5		
GT30038BK211	GT30038BK221	GT30038BK231	38				193,5	128,5		
GT30043BK211	GT30043BK221	GT30043BK231	43	280		2100	199,5	133	G1"	G1"
GT30051BK211	GT30051BK221	GT30051BK231	51	230			204,5	134,5		
GT30061BK211	GT30061BK221	GT30061BK231	61	225		2000	212,5	138,5	G1"	G1"
GT30073BK211	GT30073BK221	GT30073BK231	73	215			1800	217,5		
GT30082BK211	GT30082BK221	GT30082BK231	82	200		1700	223,5	146	G1 1/4"	G1 1/4"
GT30100BK211	GT30100BK221	GT30100BK231	100	190			1600	236,5		
GT30125BK211	GT30125BK221	GT30125BK231	125	170		1600	252,5	164		

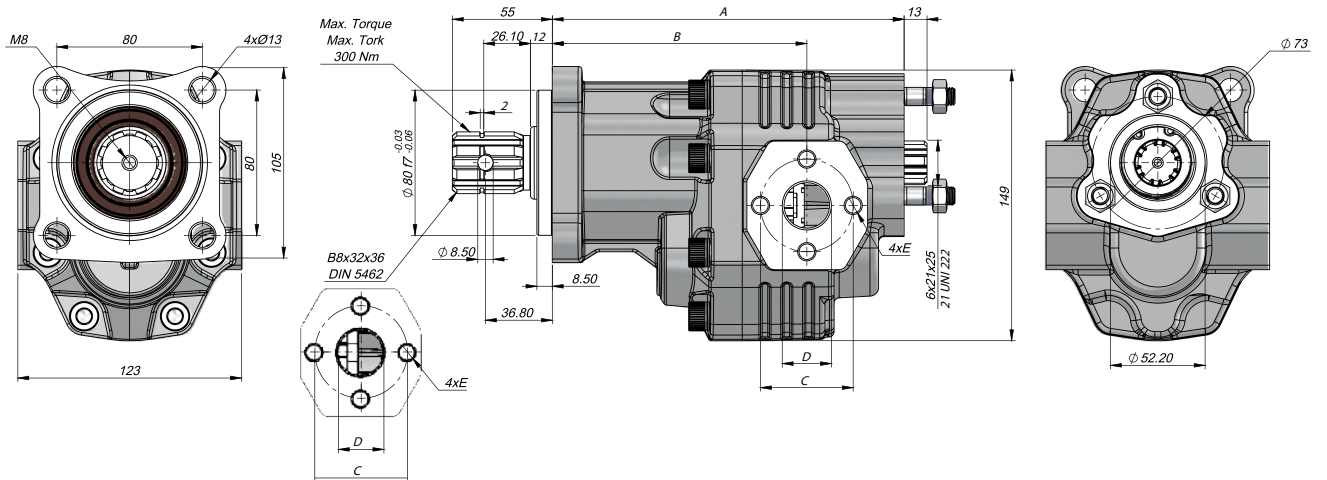
\*The values in the table refer to unidirectional pumps. Reversible pump max pressures are 10% lower than those shown in table. For different working conditions please consult our sales department.

## TEKNİK VERİLER | TECHNICAL DATA

### 4 DELİKLİ ISO ADAPTÖRLÜ TANDEM DİŞLİ POMPA

### 4 HOLES ISO WITH EUROPEAN FLANGED PORT TANDEM GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 µm
≤200 bar	12	21/18	40 µm



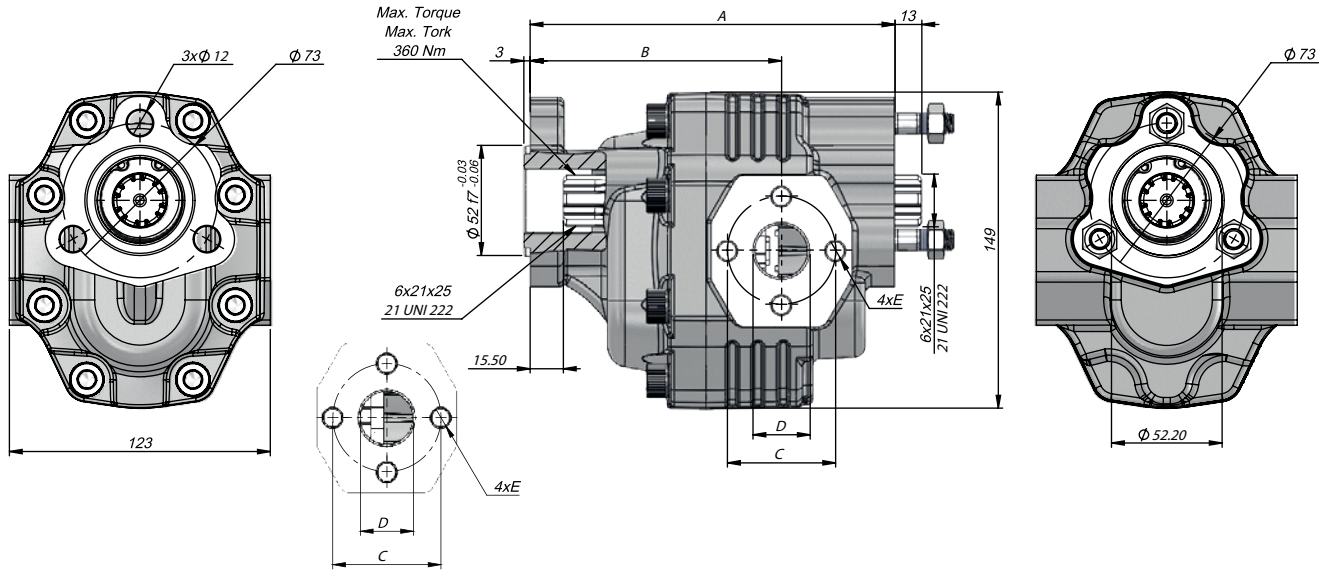
Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet			Çıkış Outlet		
Sol / Left	Sağ / Right	(cm³/rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D	E	C	D	E
GT30034SF112	GT30034SF122	34	285	300	2900	193.5	140	51	25	M10	51	25	M10
GT30036SF112	GT30036SF122	36				195							
GT30038SF112	GT30038SF122	38	280	300	2600	199.5	140	51	25	M10	51	25	M10
GT30043SF112	GT30043SF122	43				199.5							

Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet			Çıkış Outlet		
BD	(cm³/rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D	E	C	D	E
GT30034SF132	34	285	300	2900	193.5	140	51	25	M10	51	25	M10
GT30036SF132	36				195							
GT30038SF132	38	280	300	2600	199.5	140	51	25	M10	51	25	M10
GT30043SF132	43				199.5							

## TEKNİK VERİLER | TECHNICAL DATA

### 3 DELİKLİ UNI ADAPTÖRLÜ TANDEM DİŞLİ POMPA 3 HOLES UNI WITH EUROPEAN FLANGED PORT TANDEM GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet			Çıkış Outlet		
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D	E	C	D	E
GT30034UF412	GT30034UF422	34	285	300	2900	172	118.5	51	25	M10	51	25	M10
GT30036UF412	GT30036UF422	36				173.5							
GT30038UF412	GT30038UF422	38	280		2600	178							
GT30043UF412	GT30043UF422	43											

Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet			Çıkış Outlet		
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D	E	C	D	E
GT30034UF432	34	285	300	2900	172	118.5	51	25	M10	51	25	M10
GT30036UF432	36				173.5							
GT30038UF432	38	280		2600	178							
GT30043UF432	43											

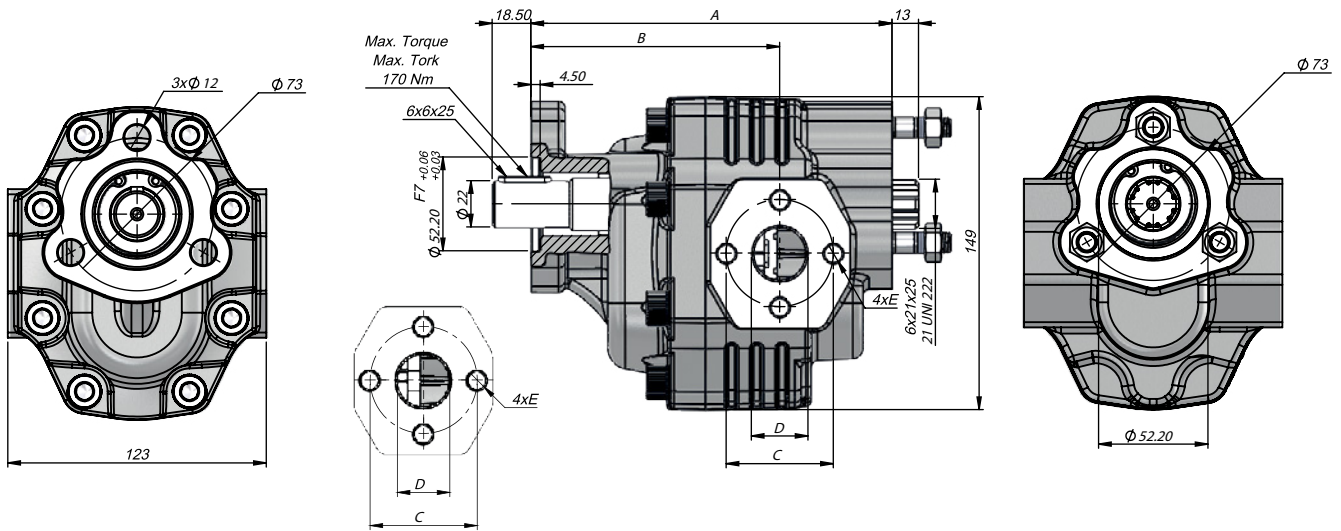


## TEKNİK VERİLER | TECHNICAL DATA

### 3 DELİKLİ F-UNI ADAPTÖRLÜ TANDEM DİŞLİ POMPA

### 3 HOLES F-UNI WITH EUROPEAN FLANGED PORT TANDEM GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



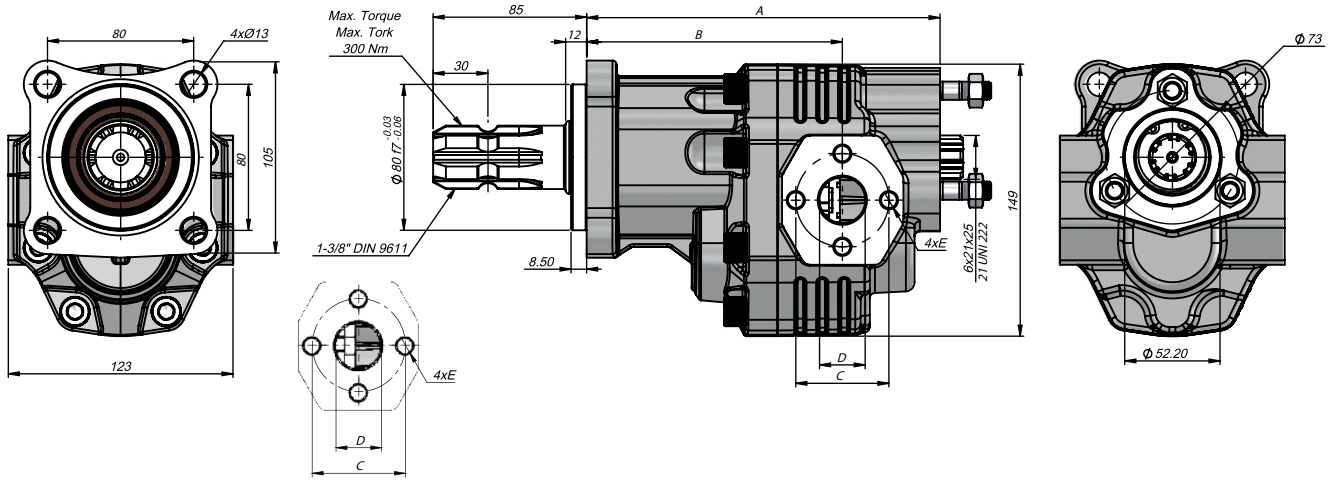
Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet			Çıkış Outlet		
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D	E	C	D	E
GT30034FK412	GT30034FK422	34	285	300	2900	172	118.5	51	25	M10	51	25	M10
GT30036FK412	GT30036FK422	36				173.5							
GT30038FK412	GT30038FK422	38	280		2600	178							
GT30043FK412	GT30043FK422	43											

Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet			Çıkış Outlet		
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D	E	C	D	E
GT30034FK432	34	285	300	2900	172	118.5	51	25	M10	51	25	M10
GT30036FK432	36				173.5							
GT30038FK432	38	280		2600	178							
GT30043FK432	43											

## TEKNİK VERİLER | TECHNICAL DATA

### 4 DELİKLİ ASAE-S ADAPTÖRLÜ TANDEM DİŞLİ POMPA 4 HOLES ASAE-S WITH EUROPEAN FLANGED PORT TANDEM GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu\text{m}$
≤200 bar	12	21/18	40 $\mu\text{m}$



Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet			Çıkış Outlet		
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D	E	C	D	E
GT30034SF212	GT30034SF222	34	285	300	2900	193.5	140	51	25	M10	51	25	M10
GT30036SF212	GT30036SF222	36				195							
GT30038SF212	GT30038SF222	38	280		2600	199.5							
GT30043SF212	GT30043SF222	43											

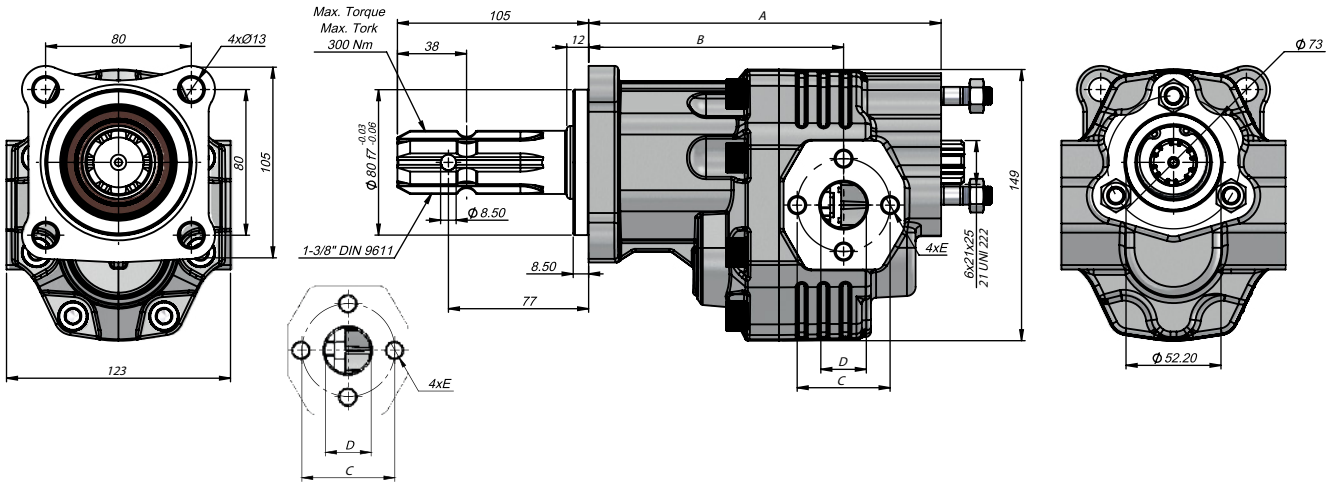
Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet			Çıkış Outlet		
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D	E	C	D	E
GT30034SF232	34	285	300	2900	193.5	140	51	25	M10	51	25	M10
GT30036SF232	36				195							
GT30038SF232	38	280		2600	199.5							
GT30043SF232	43											

## TEKNİK VERİLER | TECHNICAL DATA

### 4 DELİKLİ ASAE-L ADAPTÖRLÜ TANDEM DİŞLİ POMPA

4 HOLES ASAE-L WITH EUROPEAN FLANGED PORT TANDEM GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



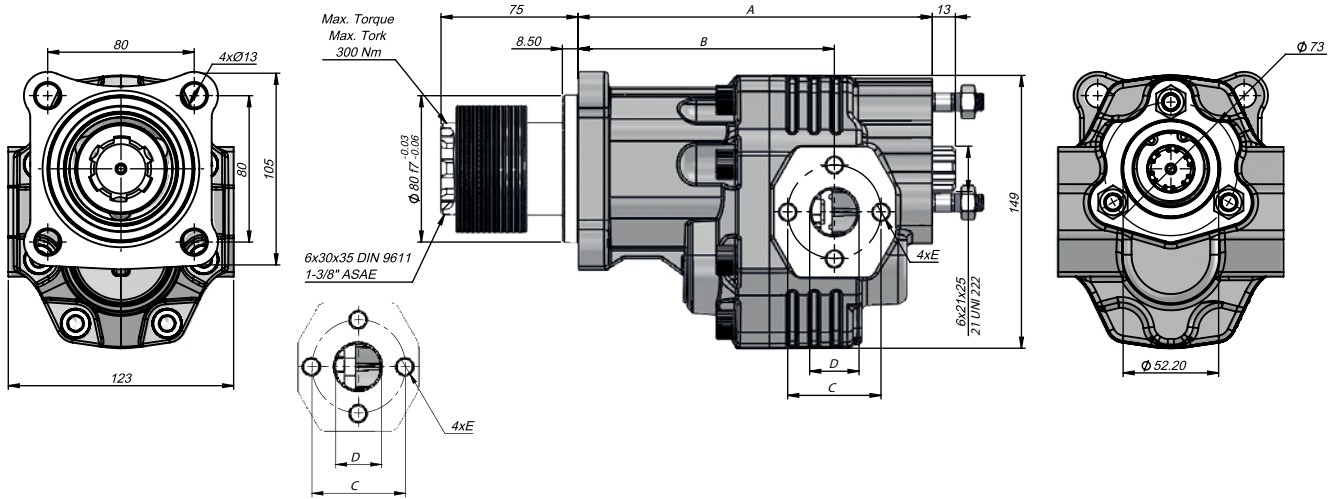
Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet			Çıkış Outlet		
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D	E	C	D	E
GT30034SF812	GT30034SF822	34	285	300	2900	193.5	140	51	25	M10	51	25	M10
GT30036SF812	GT30036SF822	36				195							
GT30038SF812	GT30038SF822	38	280	2600	199.5								
GT30043SF812	GT30043SF822	43											

Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet			Çıkış Outlet		
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D	E	C	D	E
GT30034SF832	34	285	300	2900	193.5	140	51	25	M10	51	25	M10
GT30036SF832	36				195							
GT30038SF832	38	280	2600	199.5								
GT30043SF832	43											

### TEKNİK VERİLER | TECHNICAL DATA

#### 4 DELİKLİ TRC ADAPTÖRLÜ TANDEM DİŞLİ POMPA 4 HOLES TRC WITH EUROPEAN FLANGED PORT TANDEM GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



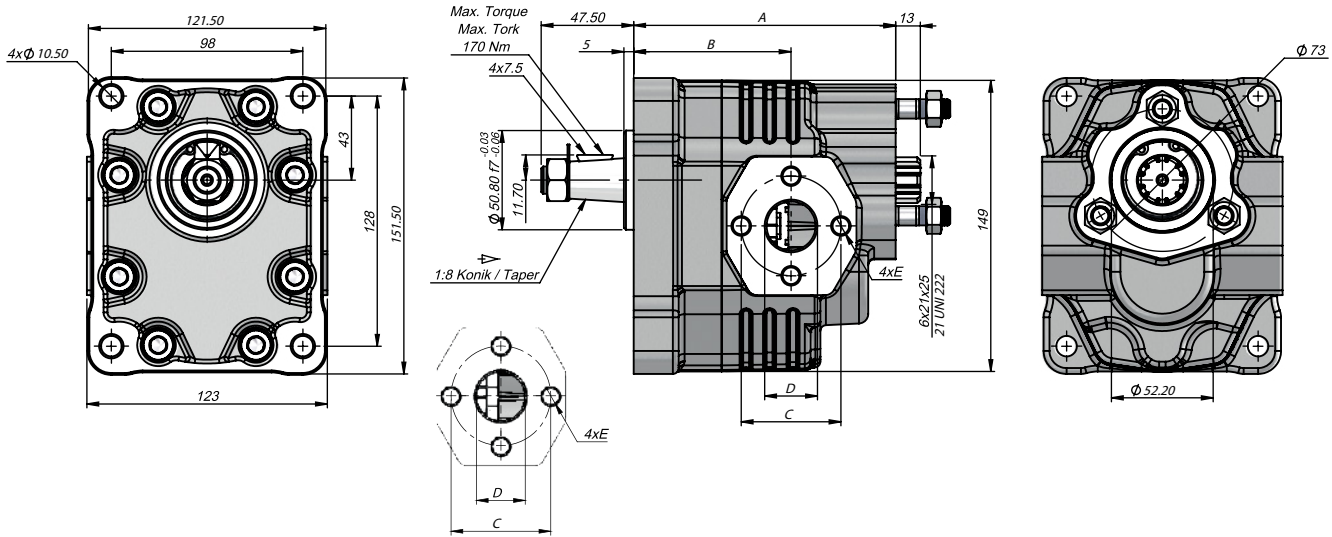
Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet			Çıkış Outlet		
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D	E	C	D	E
GT30034SF312	GT30034SF322	34	285	300	2900	193.5	140	51	25	M10	51	25	M10
GT30036SF312	GT30036SF322	36				195							
GT30038SF312	GT30038SF322	38	280		2600	199.5							
GT30043SF312	GT30043SF322	43											

Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet			Çıkış Outlet		
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D	E	C	D	E
GT30034SF332	34	285	300	2900	193.5	140	51	25	M10	51	25	M10
GT30036SF332	36				195							
GT30038SF332	38	280		2600	199.5							
GT30043SF332	43											

### TEKNİK VERİLER | TECHNICAL DATA

#### 4 DELİKLİ KAMALI K ADAPTÖRLÜ TANDEM DİŞLİ POMPA 4 HOLES KEYED K WITH EUROPEAN FLANGED PORT TANDEM GEAR PUMP

Giriş Basıncı   Inlet Pressure	0.3÷ 2 bar		
Çalışma Viskozite Seviyesi   Operating Viscosity Range	-12:100 cSt		
Sıvı Sıcaklığı   Fluid Temperature	-40 °C+145 °C		
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



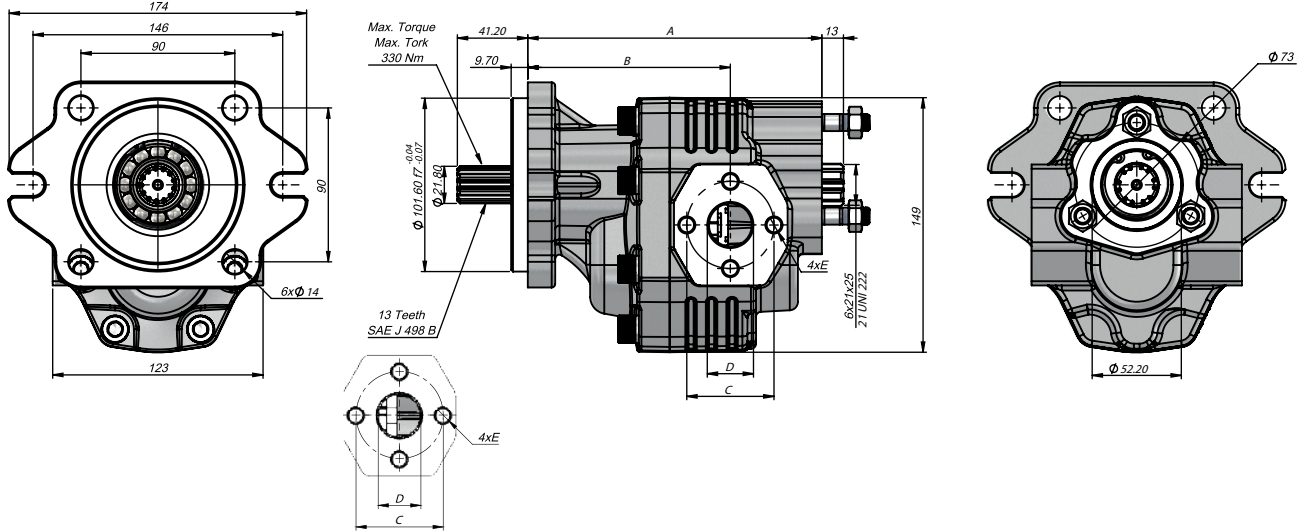
Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet			Çıkış Outlet		
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D	E	C	D	E
GT30034KK612	GT30034KK622	34	285	300	2900	134	80.5	51	25	M10	51	25	M10
GT30036KK612	GT30036KK622	36				135.5							
GT30038KK612	GT30038KK622	38	280		2600	140							
GT30043KK612	GT30043KK622	43											

Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet			Çıkış Outlet		
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D	E	C	D	E
GT30034KK632	34	285	300	2900	134	80.5	51	25	M10	51	25	M10
GT30036KK632	36				135.5							
GT30038KK632	38	280		2600	140							
GT30043KK632	43											

## TEKNİK VERİLER | TECHNICAL DATA

2+4 DELİKLİ SAE B 13 DİŞ ADAPTÖRLÜ TANDEM DİŞLİ POMPA  
2+4 HOLES SAE B 13 TEETH KEYED WITH EUROPEAN FLANGED PORT TANDEM GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet			Çıkış Outlet		
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D	E	C	D	E
GT30034BF512	GT30034BF522	34	285	300	2900	172	118.5	51	25	M10	51	25	M10
GT30036BF512	GT30036BF522	36				195							
GT30038BF512	GT30038BF522	38	280		2600	199.5							
GT30043BF512	GT30043BF522	43											

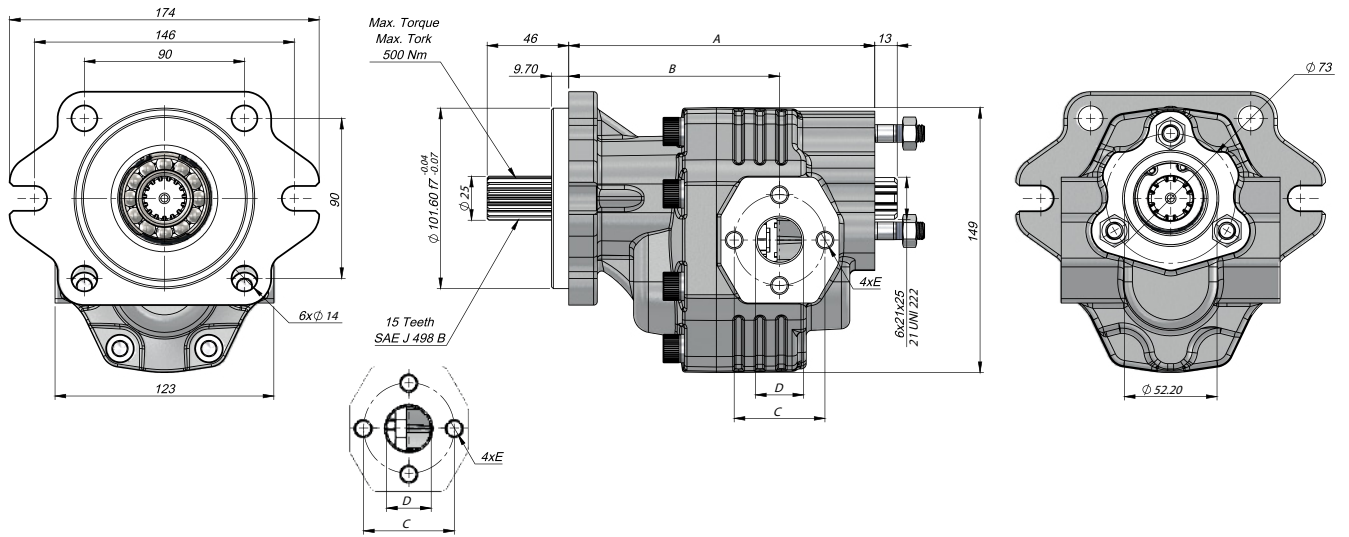
Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet			Çıkış Outlet		
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D	E	C	D	E
GT30034BF532	34	285	300	2900	172	118.5	51	25	M10	51	25	M10
GT30036BF532	36				195							
GT30038BF532	38	280		2600	199.5							
GT30043BF532	43											

### TEKNİK VERİLER | TECHNICAL DATA

#### 2+4 DELİKLİ SAE B 15 DİŞ ADAPTÖRLÜ TANDEM DİŞLİ POMPA

#### 2+4 HOLES SAE B 15 TEETH WITH EUROPEAN FLANGED PORT TANDEM GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 µm
≤200 bar	12	21/18	40 µm



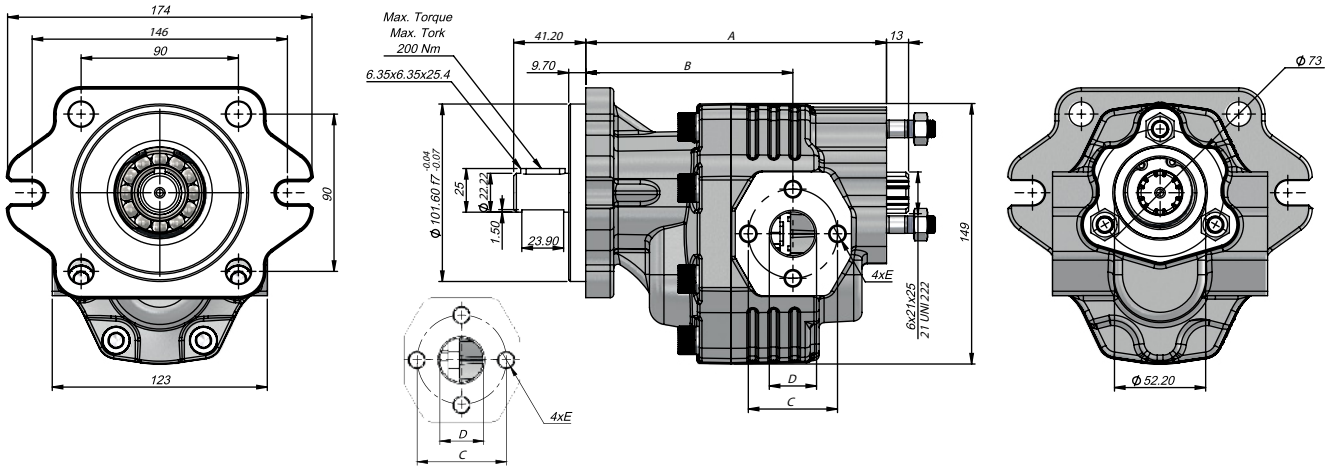
Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet			Çıkış Outlet		
Sol / Left	Sağ / Right	(cm³/rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D	E	C	D	E
GT30034BF612	GT30034BF622	34	285	300	2900	172	118.5	51	25	M10	51	25	M10
GT30036BF612	GT30036BF622	36				195							
GT30038BF612	GT30038BF622	38	280	2600	199.5								
GT30043BF612	GT30043BF622	43											

Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet			Çıkış Outlet		
BD	(cm³/rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D	E	C	D	E
GT30034BF632	34	285	300	2900	172	118.5	51	25	M10	51	25	M10
GT30036BF632	36				195							
GT30038BF632	38	280	2600	199.5								
GT30043BF632	43											

## TEKNİK VERİLER | TECHNICAL DATA

### 2+4 DELİKLİ SAE B KAMALI ADAPTÖRLÜ TANDEM DİŞLİ POMPA 2+4 HOLES SAE B KEYED WITH EUROPEAN FLANGED PORT TANDEM GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet			Çıkış Outlet		
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D	E	C	D	E
GT30034BK112	GT30034BK122	34	285	300	2900	172	118.5	51	25	M10	51	25	M10
GT30036BK112	GT30036BK122	36				195							
GT30038BK112	GT30038BK122	38				199.5							
GT30043BK112	GT30043BK122	43	280		2600								

Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet			Çıkış Outlet		
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D	E	C	D	E
GT30034BK132	34	285	300	2900	172	118.5	51	25	M10	51	25	M10
GT30036BK132	36				195							
GT30038BK132	38				199.5							
GT30043BK132	43	280		2600								

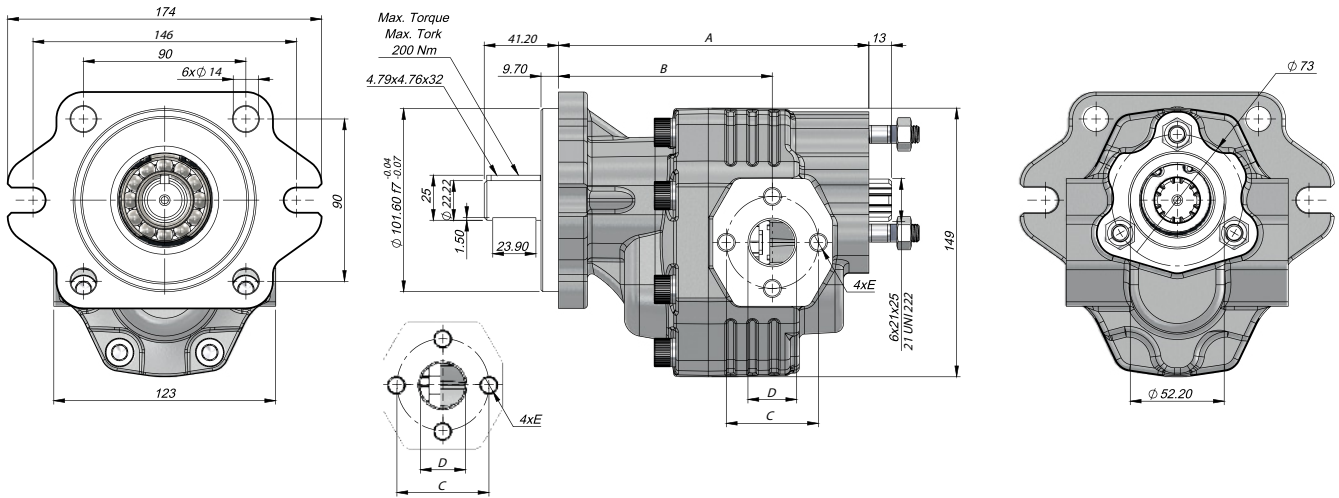


### TEKNİK VERİLER | TECHNICAL DATA

#### 2+4 DELİKLİ SAE B KAMALI ADAPTÖRLÜ TANDEM DİŞLİ POMPA

#### 2+4 HOLES SAE B KEYED WITH EUROPEAN FLANGED PORT TANDEM GEAR PUMP

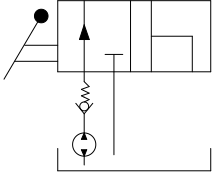
Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



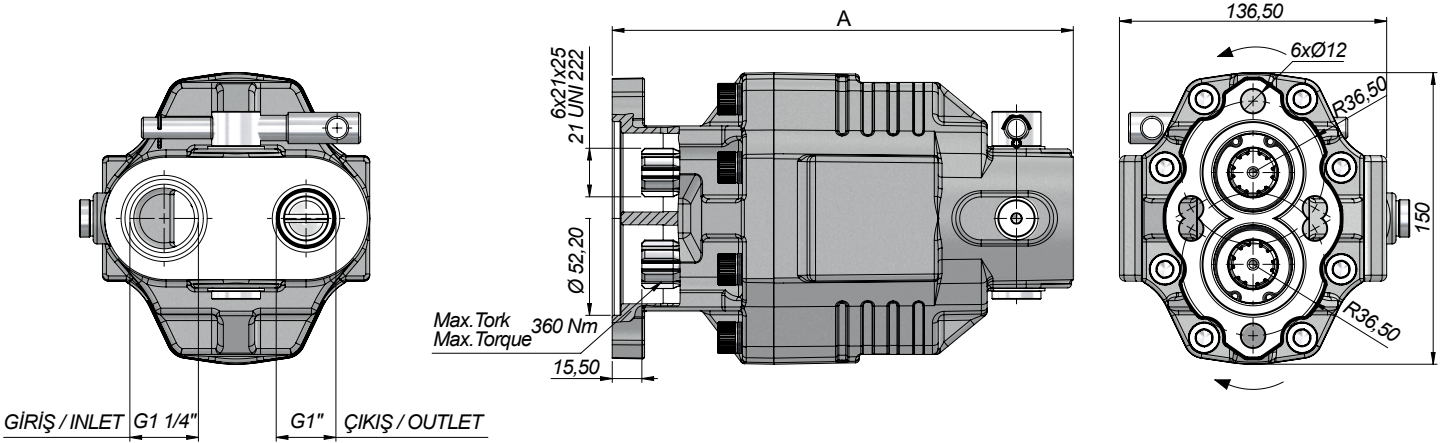
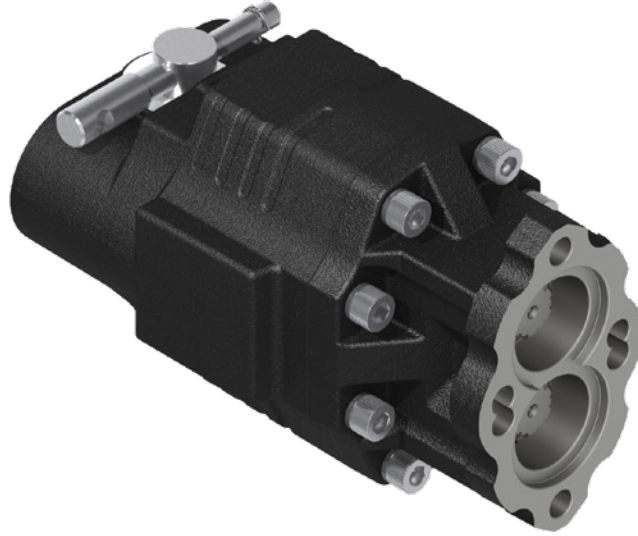
Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet			Çıkış Outlet		
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D	E	C	D	E
GT30034BK212	GT30034BK222	34	285	300	2900	172	118.5	51	25	M10	51	25	M10
GT30036BK212	GT30036BK222	36				195							
GT30038BK212	GT30038BK222	38	280		2600	199.5							
GT30043BK212	GT30043BK222	43											

Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet			Çıkış Outlet		
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D	E	C	D	E
GT30034BK232	34	285	300	2900	172	118.5	51	25	M10	51	25	M10
GT30036BK232	36				195							
GT30038BK232	38	280		2600	199.5							
GT30043BK232	43											

**6 DELİKLİ D-UNI ÇİFT YÖNLÜ MEKANİK VALF DİŞLİ POMPA**  
**6 HOLES D-UNI BI-DIRECTIONAL GEAR PUMP WITH MECHANIC VALVE**



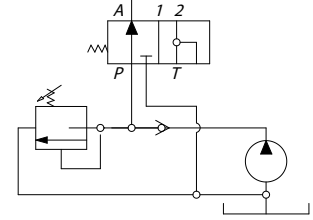
**HİDROLİK SEMBOL**  
HYDRAULIC SYMBOL



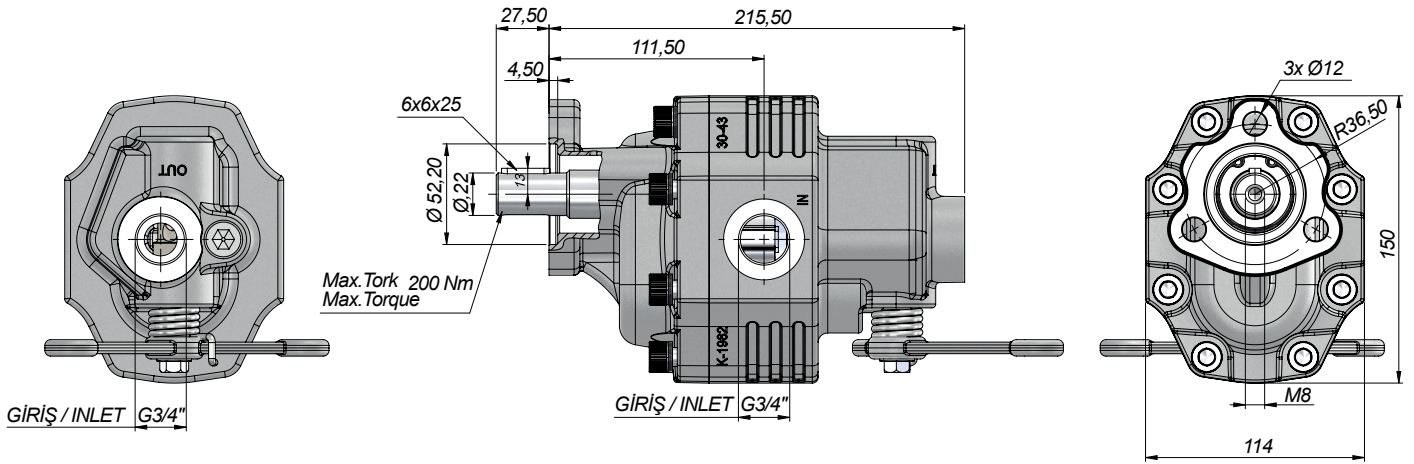
Kod Code	İletim Hacmi Displacement (cm <sup>3</sup> /rev)	A Ölçüsü Dimension A (mm)	Maks.Sürekli Basınç Max.Continuous Pressure (100%)(BAR)	Min. Hız Min.Speed (RPM)	Maks.Sürekli Hız Max.Continuous Speed (RPM)
G3043DF43MV	43,8	212,5	280	300	2100
G3082DF43MV	82,13	235,5	200		1700

## TEKNİK VERİLER | TECHNICAL DATA

3 DELİKLİ F-UNI MEKANİK VALFLİ DİŞLİ POMPA  
3 HOLES F-UNI GEAR PUMP WITH MECHANICAL VALVE



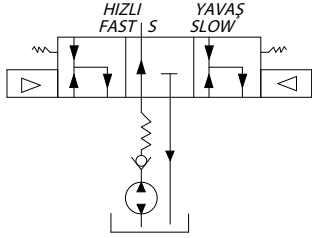
HİDROLİK SEMBOL  
HYDRAULIC SYMBOL



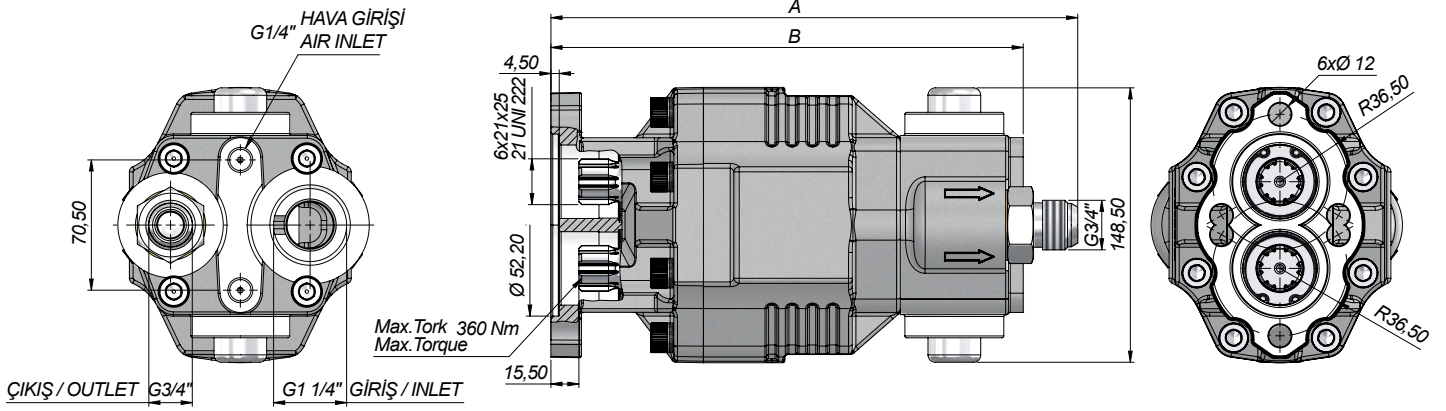
Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed
	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)
G3043FK81MVK	43,8	280	300	2100

**TEKNİK VERİLER | TECHNICAL DATA**

**6 DELİKLİ D-UNI ÇİFT YÖNLÜ PNÖMATİK VALF DİŞLİ POMPA**  
6 HOLES D-UNI BI-DIRECTIONAL GEAR PUMP WITH PNEUMATIC VALVE



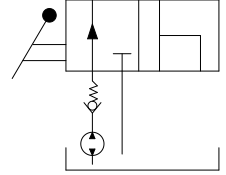
**HİDROLİK SEMBOL**  
HYDRAULIC SYMBOL



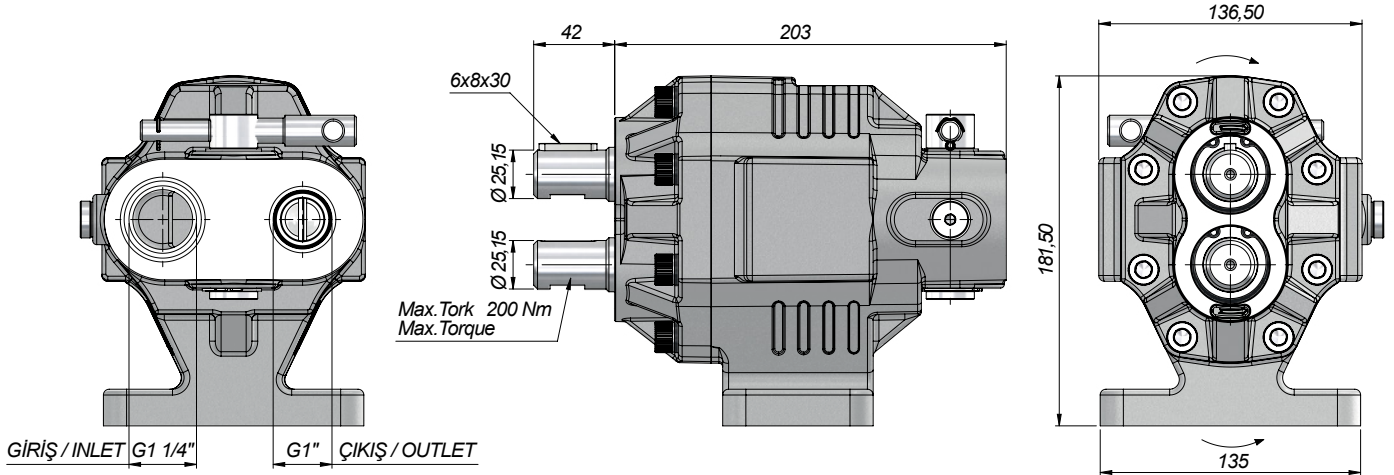
Kod Code	İletim Hacmi Displacement	A Ölçüsü Dimension A	B Ölçüsü Dimension B	Maks.Sürekli Basiç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed
	(cm <sup>3</sup> /rev)	(mm)	(mm)	(100%)(BAR)	(RPM)	(RPM)
G30082DF43V	82,13	282,5	255	200	300	1700
G30109DF43V	109	300,5	273	180	300	1600

## TEKNİK VERİLER | TECHNICAL DATA

MEKANİK VALFLİ ÇİFT YÖNLÜ DİŞLİ POMPA  
BI-DIRECTIONAL GEAR PUMP WITH MECHANICAL VALVE



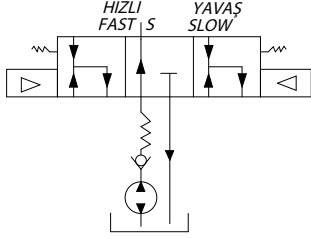
HİDROLİK SEMBOL  
HYDRAULIC SYMBOL



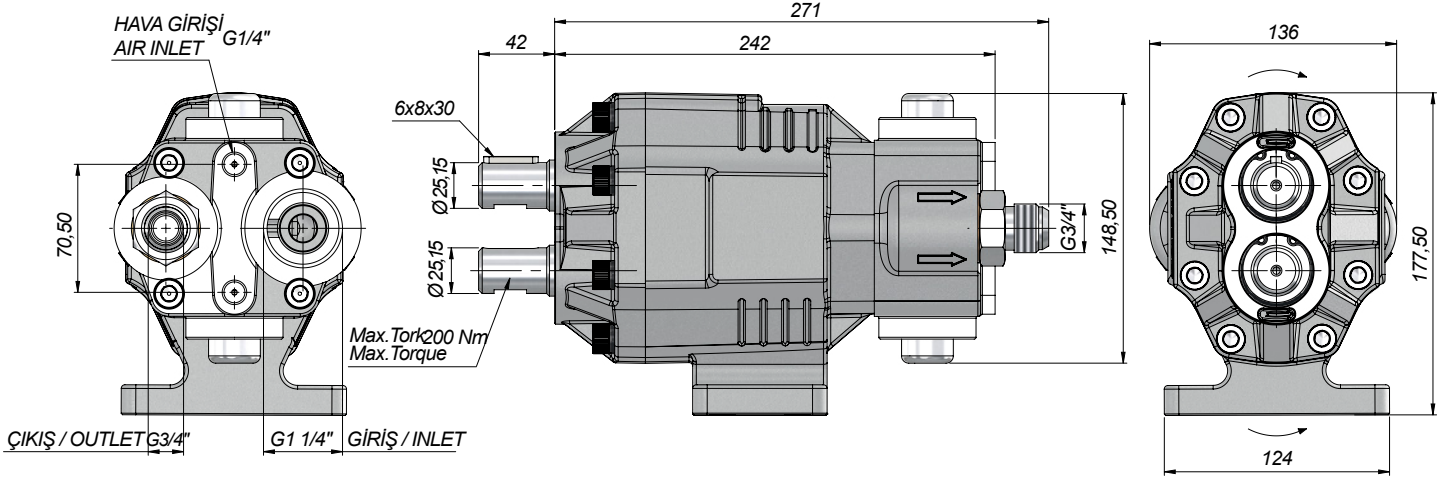
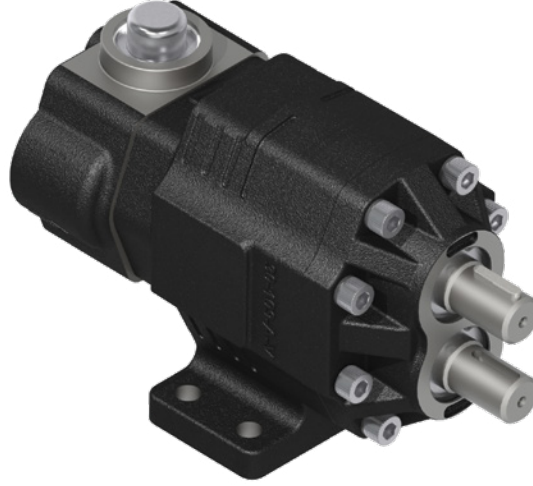
Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed
	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)
G3082VK73MVA	82,13	200	300	1700

**TEKNİK VERİLER | TECHNICAL DATA**

**PNÖMATİK VALFLİ ÇİFT YÖNLÜ DİŞLİ POMPA  
BI-DIRECTIONAL GEAR PUMP WITH PNEUMATIC VALVE**



**HİDROLİK SEMBOL  
HYDRAULIC SYMBOL**

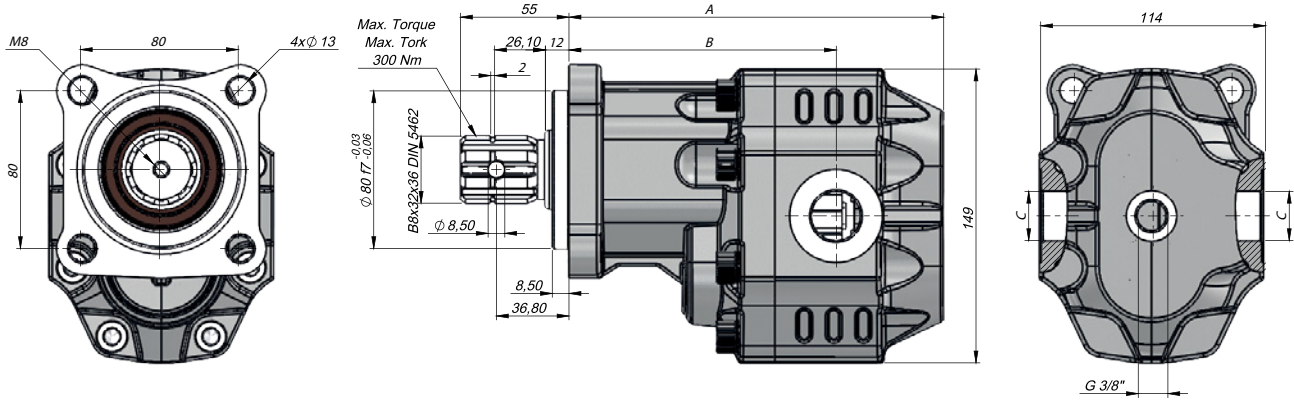


Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed
	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)
G30109VK73VA	110	180	300	1600

**TEKNİK VERİLER | TECHNICAL DATA**

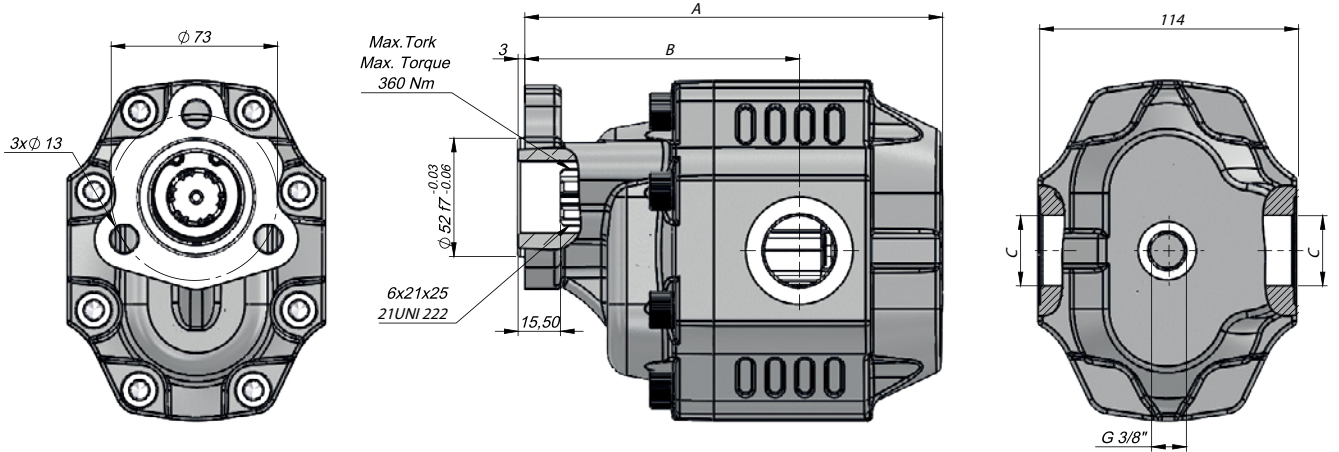
**4 DELİKLİ ISO ÇİFT YÖNLÜ DİŞLİ MOTOR | 4 HOLES ISO BI-DIRECTIONAL GEAR MOTOR**

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
$\geq 200$ bar	11	20/17	25 $\mu$ m
$\leq 200$ bar	12	21/18	40 $\mu$ m



Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
GM30017SF131	17	300	300	2500	171,5	124,5	G1/2"	G1/2"
GM30027SF131	27	290			177,5	129,5		
GM30034SF131	34	285		2200	182,5	130,5	G3/4"	G3/4"
GM30043SF131	43	280			188,5	135,5		
GM30051SF131	51	230		2000	193,5	135,5	G1"	G1"
GM30061SF131	61	225			1800	201,5		
GM30073SF131	73	215		1600	211	144	G1"	G1"
GM30082SF131	82	200			212,5	146		
GM30100SF131	100	190		1500	225,5	160	G1 1/4"	G1 1/4"
GM30125SF131	125	170			241,5	164		

Giriş Basıncı   Inlet Pressure	0.3÷ 2 bar		
Çalışma Viskozite Seviyesi   Operating Viscosity Range	-12:100 cSt		
Sıvı Sıcaklığı   Fluid Temperature	-40 °C+145 °C		
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



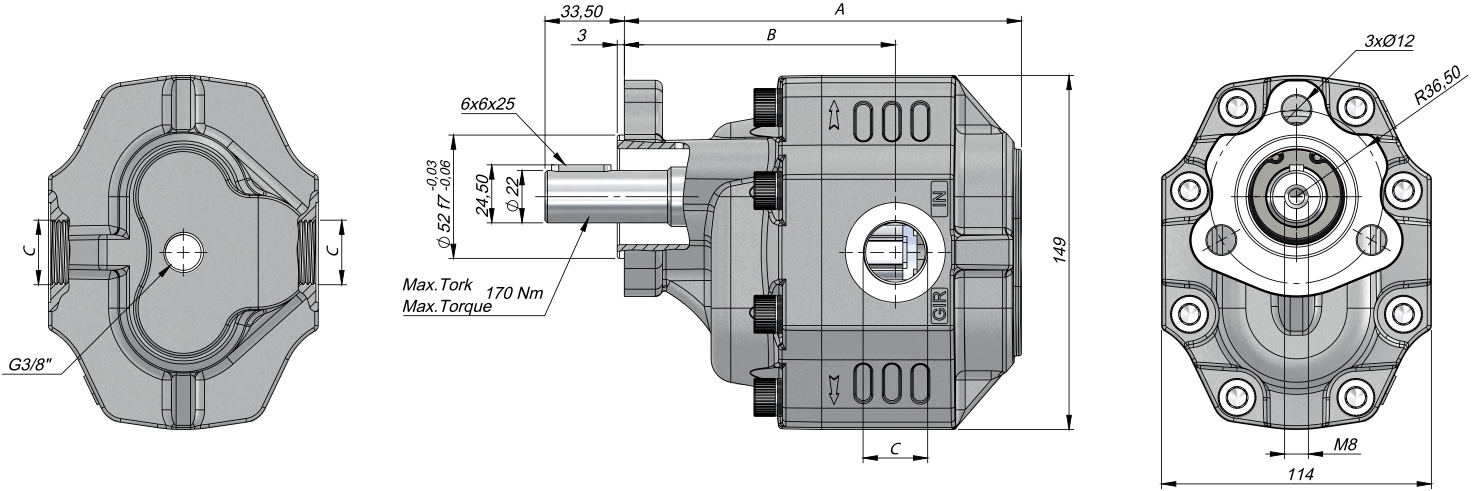
Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
GM30017UF431	17	300	300	2500	150	103	G1/2"	G1/2"
GM30027UF431	27	290			156	108		
GM30034UF431	34	285			161	109		
GM30043UF431	43	280		2000	167	114	G3/4"	G3/4"
GM30051UF431	51	230			172	114		
GM30061UF431	61	225		1800	180	120,5	G1"	G1"
GM30073UF431	73	215		1600	192,5	122,5		
GM30082UF431	82	200		1500	191	124,5		
GM30100UF431	100	190		1500	204	138,5	G1 1/4"	G1 1/4"
GM30125UF431	125	170			220	142,5		



## TEKNİK VERİLER | TECHNICAL DATA

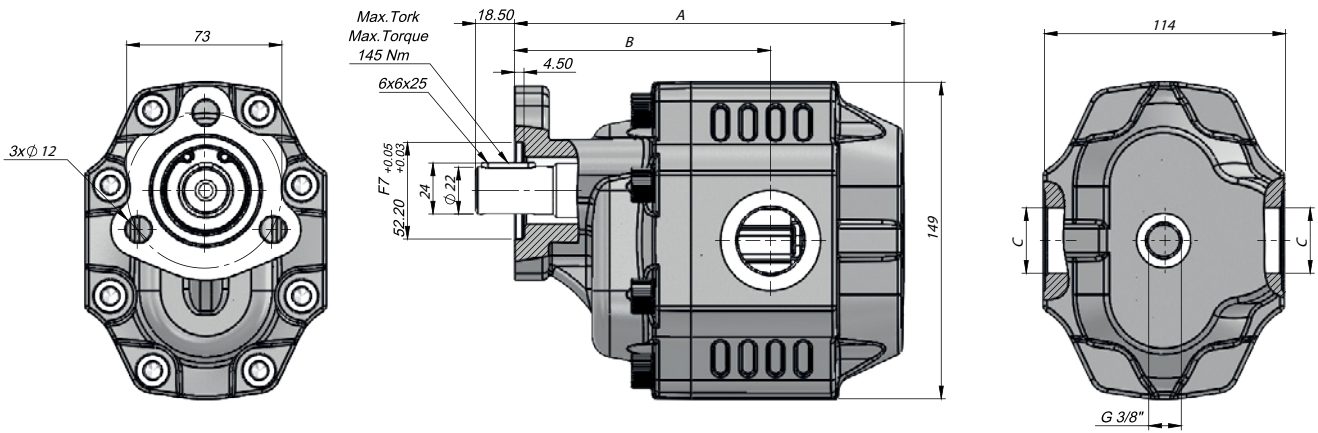
### 3 DELİKLİ KAMALI UNI ÇİFT YÖNLÜ DİŞLİ MOTOR 3 HOLES KEYED UNI BI-DIRECTIONAL GEAR MOTOR

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
$\geq 200$ bar	11	20/17	25 $\mu$ m
$\leq 200$ bar	12	21/18	40 $\mu$ m



Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
GM30017UK531	17	300	300	2500	171,5	124,5	G1/2"	G1/2"
GM30027UK531	27	290			177,5	129,5		
GM30034UK531	34	285		2000	182,5	130,5	G3/4"	G3/4"
GM30043UK531	43	280			188,5	135,5		
GM30051UK531	51	230		1800	193,5	135,5	G1"	G1"
GM30061UK531	61	225			201,5	142		
GM30073UK531	73	215		1600	211	144	G1"	G1"
GM30082UK531	82	200			212,5	146		
GM30100UK531	100	190		1500	150	225,5	160	G1
GM30125UK531	125	170	241,5			164		

Giriş Basıncı   Inlet Pressure	0.3÷ 2 bar		
Çalışma Viskozite Seviyesi   Operating Viscosity Range	-12:100 cSt		
Sıvı Sıcaklığı   Fluid Temperature	-40 °C+145 °C		
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m

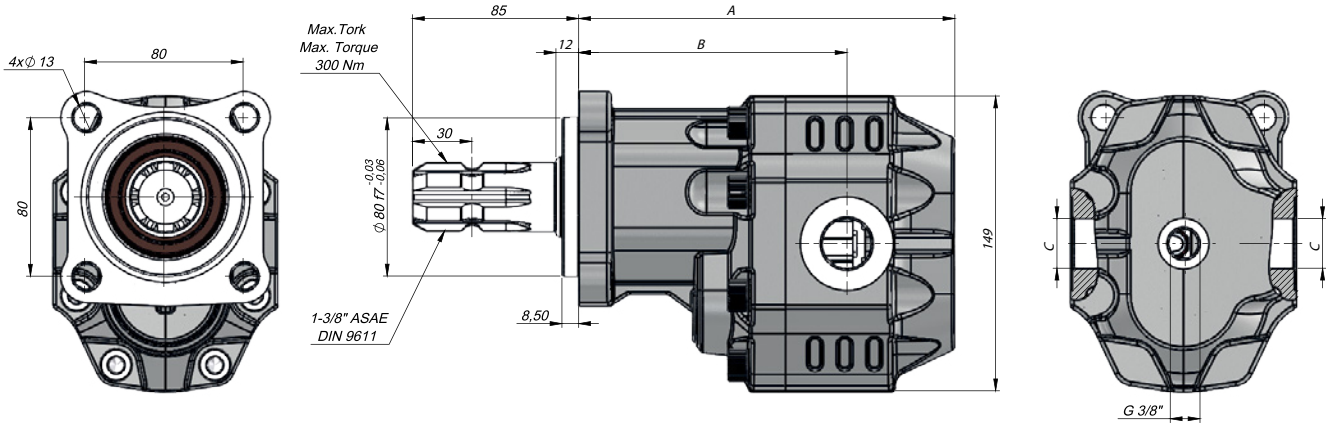


Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
GM30017FK431	17	300	300	2500	150	103	G1/2"	G1/2"
GM30027FK431	27	290			156	108		
GM30034FK431	34	285		2200	161	109	G3/4"	G3/4"
GM30043FK431	43	280			167	114		
GM30051FK431	51	230		2000	172	114	G1"	G1"
GM30061FK431	61	225			180	120,5		
GM30073FK431	73	215		1800	192,5	122,5	G1"	G1"
GM30082FK431	82	200			191	124,5		
GM30100FK431	100	190		1500	204	138,5	G1 1/4"	G1 1/4"
GM30125FK431	125	170			220	142,5		

**TEKNİK VERİLER | TECHNICAL DATA**

**4 DELİKLİ ASAE-S ÇİFT YÖNLÜ DİŞLİ MOTOR | 4 HOLES ASAE-S BI-DIRECTIONAL GEAR MOTOR**

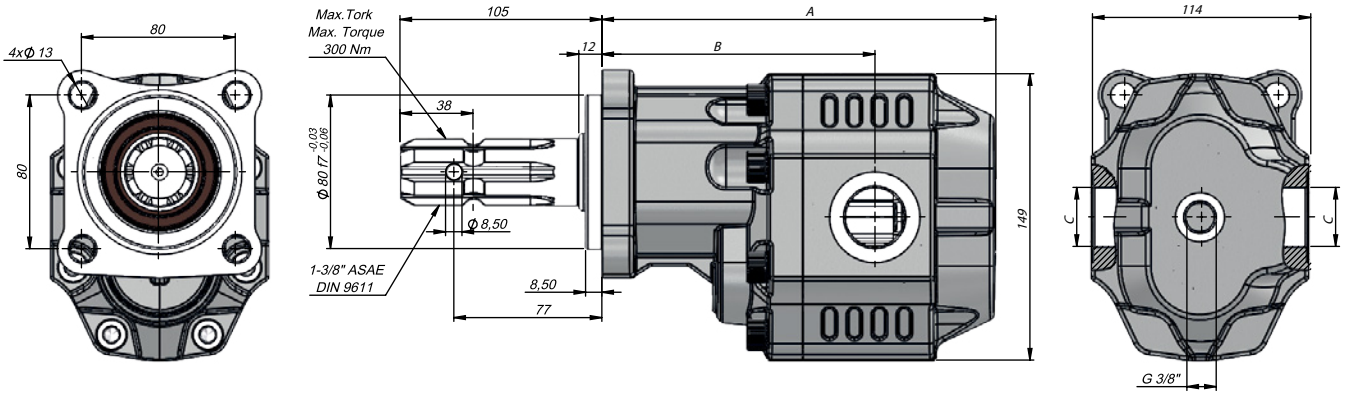
Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
$\geq 200$ bar	11	20/17	25 $\mu$ m
$\leq 200$ bar	12	21/18	40 $\mu$ m



Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet	
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C	
GM30017SF231	17	300	300	2500	171,5	124,5	G1/2"	G1/2"	
GM30027SF231	27	290			177,5	129,5			
GM30034SF231	34	285		2000	182,5	130,5	G3/4"	G3/4"	
GM30043SF231	43	280			188,5	135,5			
GM30051SF231	51	230		1800	193,5	135,5	G1"	G1"	
GM30061SF231	61	225			201,5	142			
GM30073SF231	73	215		1600	211	144	G1"	G1"	
GM30082SF231	82	200			212,5	146			
GM30100SF231	100	190		1500	241,5	225,5	160	G1	G1
GM30125SF231	125	170				241,5	164	G1 1/4"	G1 1/4"

**4 DELİKLİ ASAE-L ÇİFT YÖNLÜ DİŞLİ MOTOR | 4 HOLES ASAE-L BI-DIRECTIONAL GEAR MOTOR**

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
$\geq 200$ bar	11	20/17	25 $\mu\text{m}$
$\leq 200$ bar	12	21/18	40 $\mu\text{m}$

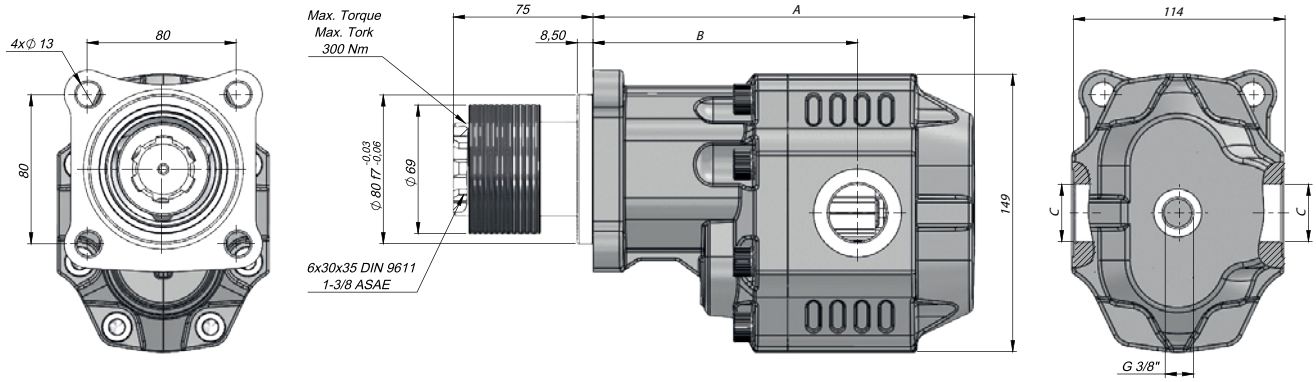


Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
GM30017SF831	17	300	300	2500	171,5	124,5	G1/2"	G1/2"
GM30027SF831	27	290			177,5	129,5		
GM30034SF831	34	285		2000	182,5	130,5	G3/4"	G3/4"
GM30043SF831	43	280			188,5	135,5		
GM30051SF831	51	230		1800	193,5	135,5	G1"	G1"
GM30061SF831	61	225			201,5	142		
GM30073SF831	73	215		1600	211	144	G1"	G1"
GM30082SF831	82	200			212,5	146		
GM30100SF831	100	190		1500	225,5	160	G1	G1
GM30125SF831	125	170			241,5	164		

### TEKNİK VERİLER | TECHNICAL DATA

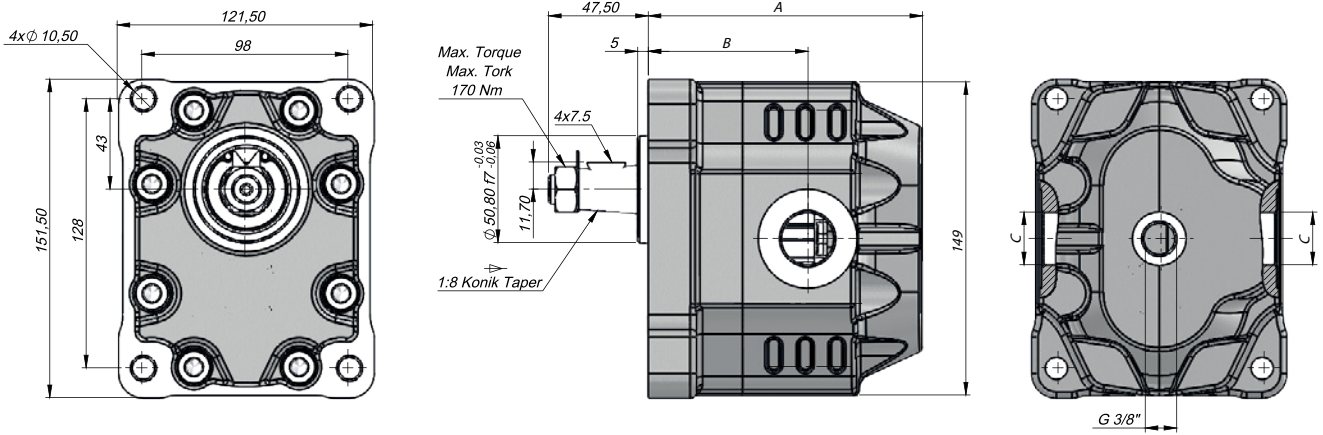
#### 4 DELİKLİ TRC ÇİFT YÖNLÜ DİŞLİ MOTOR | 4 HOLES TRC BI-DIRECTIONAL GEAR MOTOR

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
$\geq 200$ bar	11	20/17	25 $\mu$ m
$\leq 200$ bar	12	21/18	40 $\mu$ m



Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
GM30017SF331	17	300	300	2500	171,5	124,5	G1/2"	G1/2"
GM30027SF331	27	290			177,5	129,5		
GM30034SF331	34	285		2000	182,5	130,5	G3/4"	G3/4"
GM30043SF331	43	280			188,5	135,5		
GM30051SF331	51	230		1800	193,5	135,5	G1"	G1"
GM30061SF331	61	225			201,5	142		
GM30073SF331	73	215		1600	211	144	G1"	G1"
GM30082SF331	82	200			212,5	146		
GM30100SF331	100	190		1500	225,5	160	G1 1/4"	G1 1/4"
GM30125SF331	125	170			241,5	164		

Giriş Basıncı   Inlet Pressure	0.3÷ 2 bar		
Çalışma Viskozite Seviyesi   Operating Viscosity Range	-12:100 cSt		
Sıvı Sıcaklığı   Fluid Temperature	-40 °C+145 °C		
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m

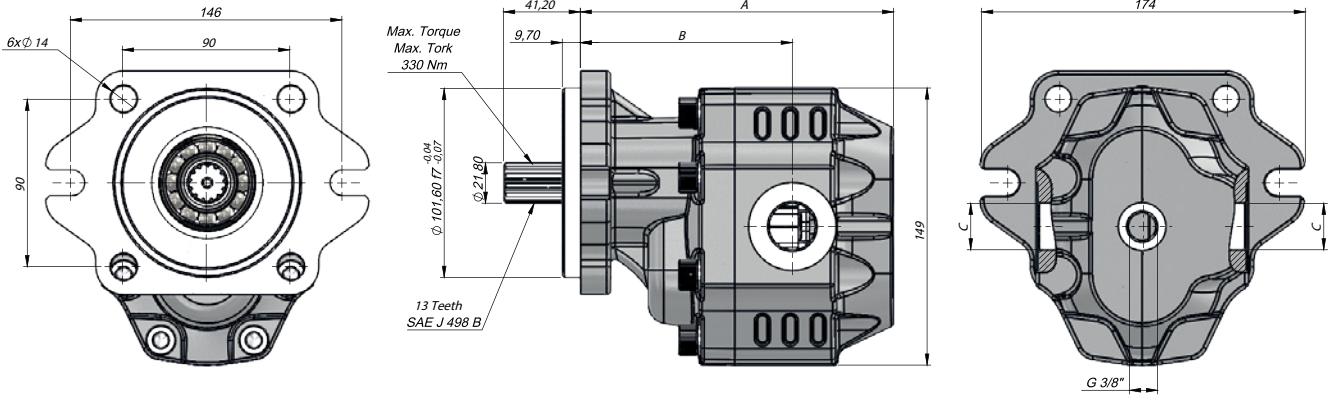


Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
GM30017KK631	17	300	300	2500	112	65	G1/2"	G1/2"
GM30027KK631	27	290			118	70		
GM30034KK631	34	285		2200	123	71	G3/4"	G3/4"
GM30043KK631	43	280			129	76		
GM30051KK631	51	230		2000	134	76	G1"	G1"
GM30061KK631	61	225			142	82,5		
GM30073KK631	73	215		1600	154,5	84,50	G1"	G1"
GM30082KK631	82	200			153	86,5		
GM30100KK631	100	190		1500	166	100,5	G1 1/4"	G1 1/4"
GM30125KK631	125	170			182	104,5		

## TEKNİK VERİLER | TECHNICAL DATA

2+4 DELİKLİ SAE B 13 DİŞ ÇİFT YÖNLÜ DİŞLİ MOTOR  
2+4 HOLES SAE B 13 TEETH BI-DIRECTIONAL GEAR MOTOR

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
$\geq 200$ bar	11	20/17	25 $\mu$ m
$\leq 200$ bar	12	21/18	40 $\mu$ m

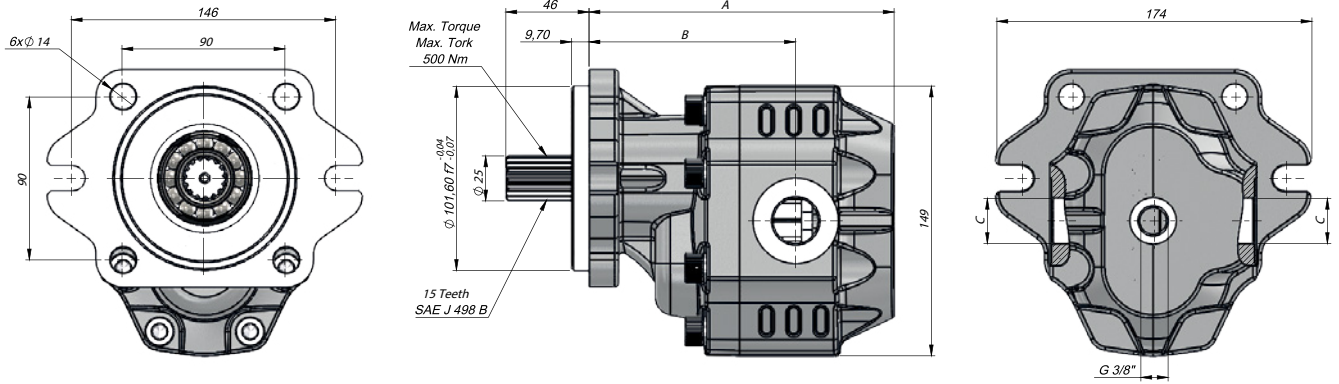


Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
GM30017BF531	17	300	300	2500	150	103	G1/2"	G1/2"
GM30027BF531	27	290			156	108		
GM30034BF531	34	285			161	109		
GM30043BF531	43	280		2000	167	114	G3/4"	G3/4"
GM30051BF531	51	230						
GM30061BF531	61	225						
GM30073BF531	73	215		1600	192,5	122,5	G1"	G1"
GM30082BF531	82	200						
GM30100BF531	100	190						
GM30125BF531	125	170	1500	204	138,5	G1 1/4"	G1 1/4"	
								220

### TEKNİK VERİLER | TECHNICAL DATA

2+4 DELİKLİ SAE B 15 DİŞ ÇİFT YÖNLÜ DİŞLİ MOTOR  
2+4 HOLES SAE B 15 TEETH BI-DIRECTIONAL GEAR MOTOR

Giriş Basıncı   Inlet Pressure	0.3÷ 2 bar		
Çalışma Viskozite Seviyesi   Operating Viscosity Range	-12:100 cSt		
Sıvı Sıcaklığı   Fluid Temperature	-40 °C+145 °C		
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
$\geq 200$ bar	11	20/17	25 $\mu$ m
$\leq 200$ bar	12	21/18	40 $\mu$ m



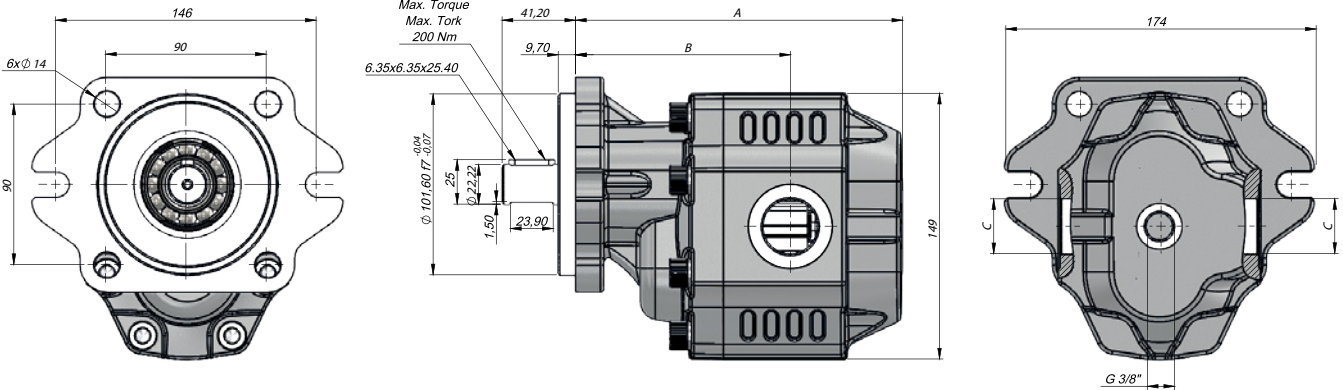
Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
GM30017BF631	17	300	300	2500	150	103	G1/2"	G1/2"
GM30027BF631	27	290		156	108			
GM30034BF631	34	285		2000	161	109	G3/4"	G3/4"
GM30043BF631	43	280			167	114		
GM30051BF631	51	230			172	114		
GM30061BF631	61	225		1800	180	120,5	G1"	G1"
GM30073BF631	73	215		1600	192,5	122,5		
GM30082BF631	82	200		1500	191	124,5	G1 1/4"	G1 1/4"
GM30100BF631	100	190			204	138,5		
GM30125BF631	125	170			220	142,5		



## TEKNİK VERİLER | TECHNICAL DATA

2+4 DELİKLİ SAE B KAMALI ÇİFT YÖNLÜ DİŞLİ MOTOR  
2+4 HOLES SAE B KEYED BI-DIRECTIONAL GEAR MOTOR

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m

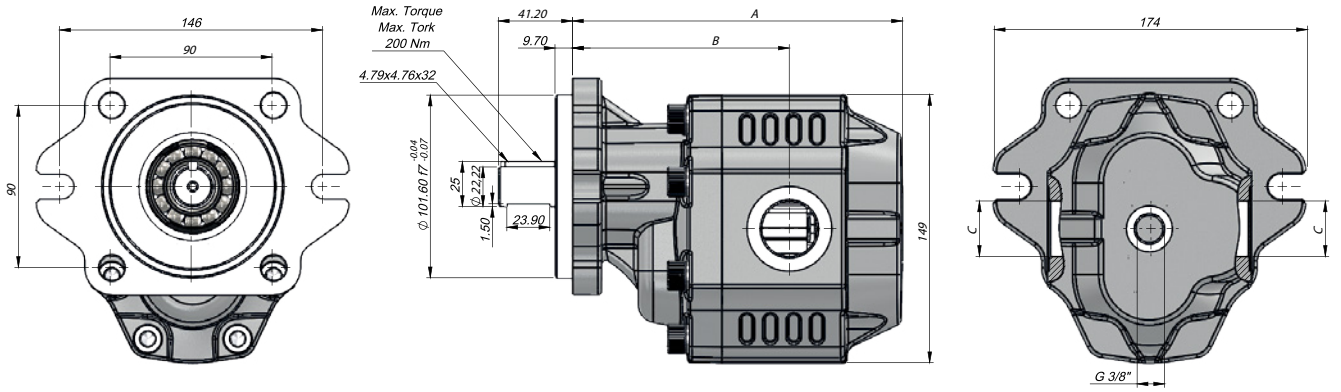


Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
GM30017BK131	17	300	300	2500	150	103	G1/2"	G1/2"
GM30027BK131	27	290			156	108		
GM30034BK131	34	285		2200	161	109	G3/4"	G3/4"
GM30043BK131	43	280			167	114		
GM30051BK131	51	230		2000	172	114	G1"	G1"
GM30061BK131	61	225			180	120,5		
GM30073BK131	73	215		1600	192,5	122,5	G1"	G1"
GM30082BK131	82	200			191	124,5		
GM30100BK131	100	190		1500	204	138,5	G1 1/4"	G1 1/4"
GM30125BK131	125	170			220	142,5		

### TEKNİK VERİLER | TECHNICAL DATA

2+4 DELİKLİ SAE B KAMALI ÇİFT YÖNLÜ DİŞLİ MOTOR  
2+4 HOLES SAE B KEYED BI-DIRECTIONAL GEAR MOTOR

Giriş Basıncı   Inlet Pressure	0.3÷ 2 bar		
Çalışma Viskozite Seviyesi   Operating Viscosity Range	-12:100 cSt		
Sıvı Sıcaklığı   Fluid Temperature	-40 °C+145 °C		
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 µm
≤200 bar	12	21/18	40 µm

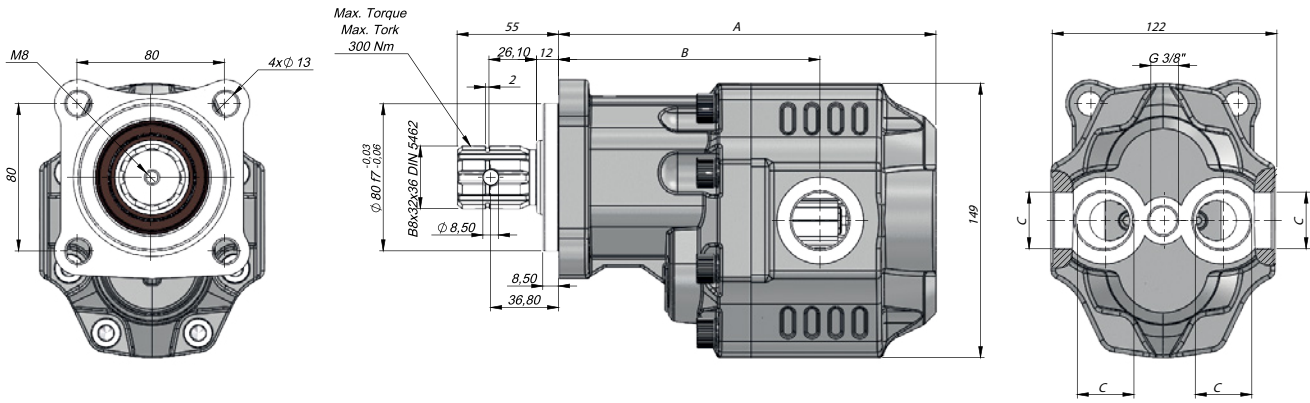


Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
GM30017BK231	17	300	300	2500	150	103	G1/2"	G1/2"
GM30027BK231	27	290			156	108		
GM30034BK231	34	285		2000	161	109	G3/4"	G3/4"
GM30043BK231	43	280			167	114		
GM30051BK231	51	230			172	114		
GM30061BK231	61	225		1800	180	120,5	G1"	G1"
GM30073BK231	73	215			192,5	122,5		
GM30082BK231	82	200		1500	191	124,5	G1 1/4"	G1 1/4"
GM30100BK231	100	190			204	138,5		
GM30125BK231	125	170			220	142,5		

**TEKNİK VERİLER | TECHNICAL DATA**

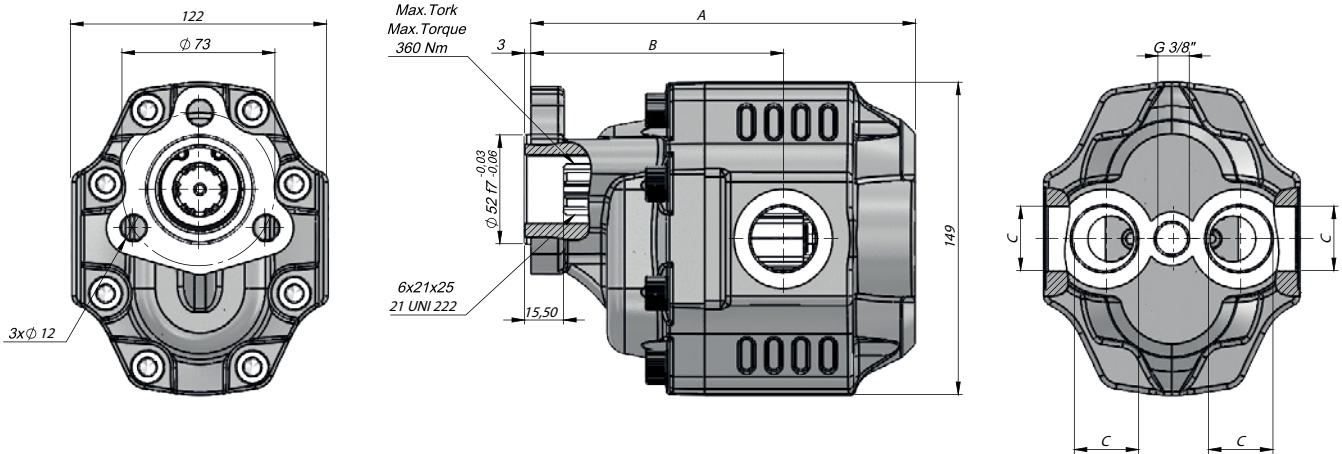
**4 DELİKLİ ISO ÇİFT YÖNLÜ DİŞLİ MOTOR | 4 HOLES ISO BI-DIRECTIONAL GEAR MOTOR**

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
GM30034SF135	34	285	300	2200	187	130,5	G3/4"	C
GM30043SF135	43	280		2000	193	135,5		
GM30051SF135	51	230			198			
GM30061SF135	61	225		1800	206	142	G1"	
GM30073SF135	73	215		1600	211	144		
GM30082SF135	82	200		1500	216	147,5		

Giriş Basıncı   Inlet Pressure	0.3÷ 2 bar		
Çalışma Viskozite Seviyesi   Operating Viscosity Range	-12:100 cSt		
Sıvı Sıcaklığı   Fluid Temperature	-40 °C+145 °C		
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m

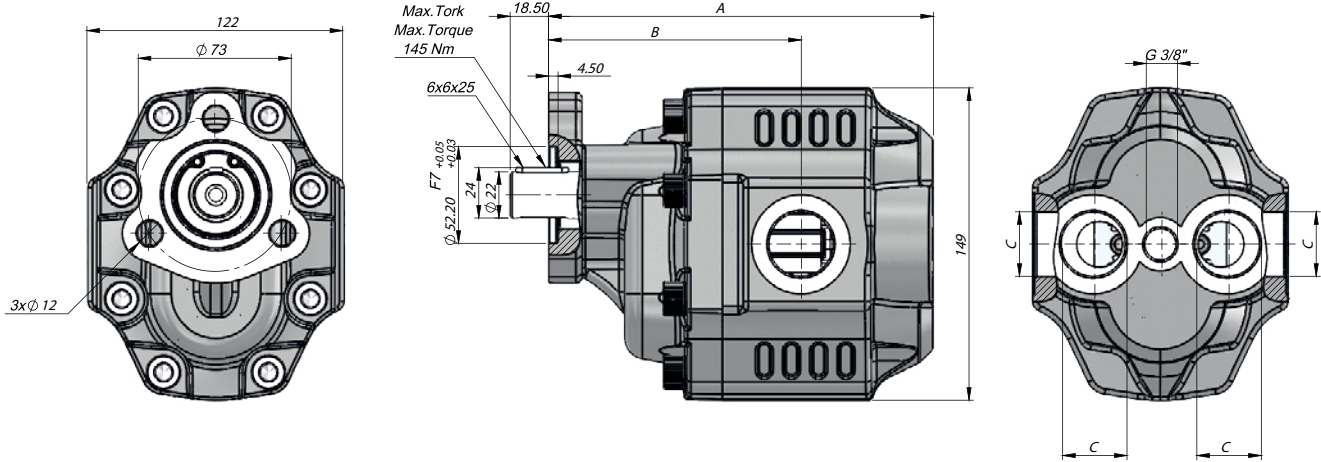


Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
GM30034UF435	34	285	300	2200	164,5	109	G3/4"	C
GM30043UF435	43	280		2000	170,5	114		
GM30051UF435	51	230			175,5	114		
GM30061UF435	61	225		1800	183,5	120,5	G1"	C
GM30073UF435	73	215		1600	188,5	122,5		
GM30082UF435	82	200		1500	194,5	126		

**TEKNİK VERİLER | TECHNICAL DATA**

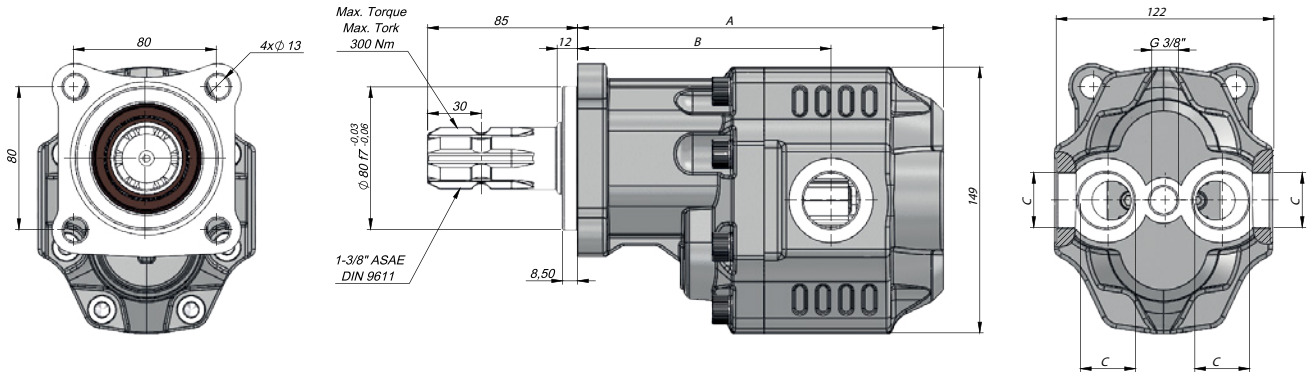
**3 DELİKLİ F-UNI ÇİFT YÖNLÜ DİŞLİ MOTOR | 3 HOLES F-UNI BI-DIRECTIONAL GEAR MOTOR**

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu\text{m}$
≤200 bar	12	21/18	40 $\mu\text{m}$



Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet	
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C	
GM30034FK435	34	285	300	2200	164,5	109	G3/4"	C	
GM30043FK435	43	280		2000	170,5	114			
GM30051FK435	51	230			1800	175,5	114	G1"	C
GM30061FK435	61	225		1600		183,5	120,5		
GM30073FK435	73	215				1500	188,5		
GM30082FK435	82	200		194,5			126		

Giriş Basıncı   Inlet Pressure	0.3÷ 2 bar		
Çalışma Viskozite Seviyesi   Operating Viscosity Range	-12:100 cSt		
Sıvı Sıcaklığı   Fluid Temperature	-40 °C+145 °C		
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m

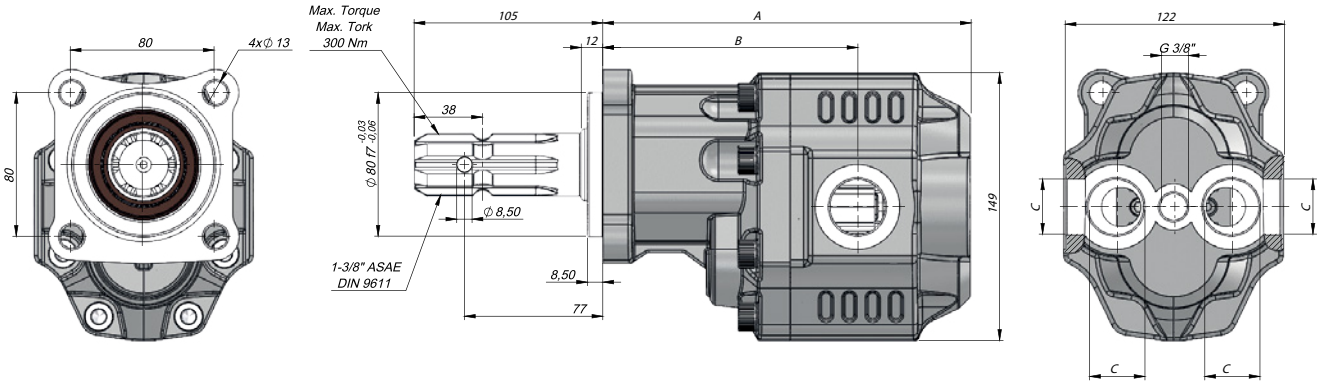


Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
GM30034SF235	34	285	300	2200	187	130,5	G3/4"	C
GM30043SF235	43	280		2000	193	135,5		
GM30051SF235	51	230			198			
GM30061SF235	61	225		1800	206	142	G1"	
GM30073SF235	73	215		1600	211	144		
GM30082SF235	82	200		1500	216	147.5		

**TEKNİK VERİLER | TECHNICAL DATA**

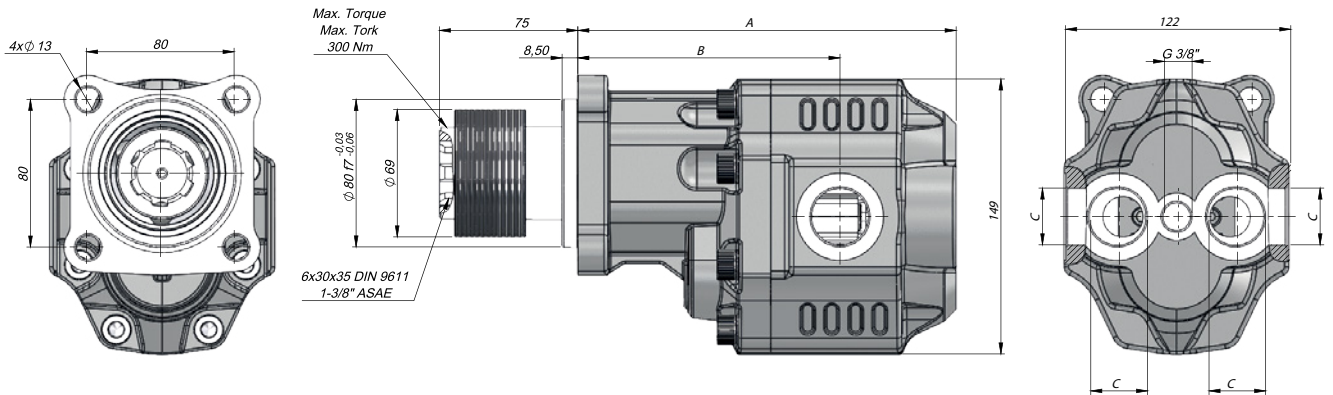
4 DELİKLİ ASAE-L ÇİFT YÖNLÜ DİŞLİ MOTOR | 4 HOLES ASAE-L BI-DIRECTIONAL GEAR MOTOR

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu\text{m}$
≤200 bar	12	21/18	40 $\mu\text{m}$



Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
GM30034SF835	34	285	300	2200	187	130,5	G3/4"	C
GM30043SF835	43	280		2000	193	135,5		
GM30051SF835	51	230			198			
GM30061SF835	61	225		1800	206	142	G1"	
GM30073SF835	73	215		1600	211	144		
GM30082SF835	82	200		1500	216	147,5		

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



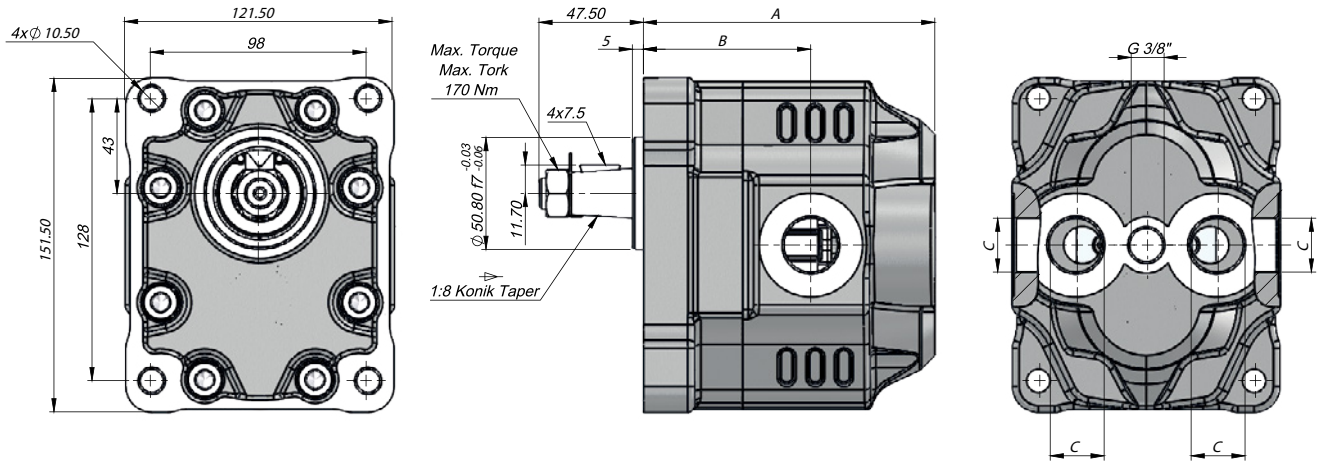
Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
GM30034SF335	34	285	300	2200	187	130,5	G3/4"	C
GM30043SF335	43	280		2000	193	135,5		
GM30051SF335	51	230			198			
GM30061SF335	61	225		1800	206	142	G1"	
GM30073SF335	73	215		1600	211	144		
GM30082SF335	82	200		1500	216	147.5		



### TEKNİK VERİLER | TECHNICAL DATA

4 DELİKLİ KAMALI K ÇİFT YÖNLÜ DİŞLİ MOTOR | 4 HOLES KEYED K BI-DIRECTIONAL GEAR MOTOR

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu\text{m}$
≤200 bar	12	21/18	40 $\mu\text{m}$

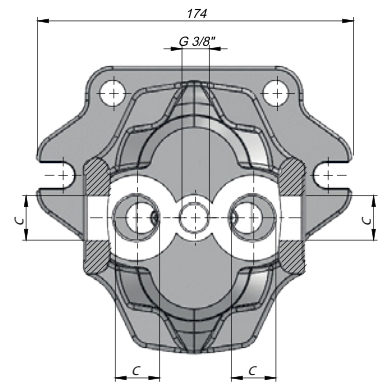
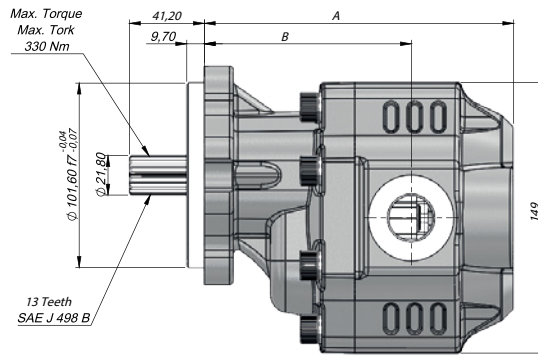
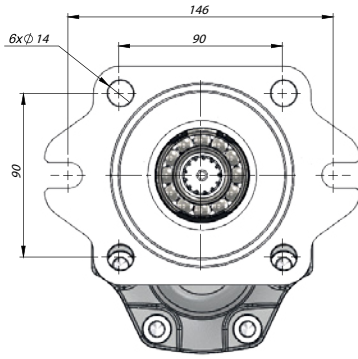


Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
GM30034KK635	34	285	300	2200	126,5	71	G3/4"	C
GM30043KK635	43	280		2000	132,5	76		
GM30051KK635	51	230			137,5			
GM30061KK635	61	225		1800	145,5	82,5	G1"	
GM30073KK635	73	215		1600	150,5	84,5		
GM30082KK635	82	200		1500	156,5	86,5		

### TEKNİK VERİLER | TECHNICAL DATA

2+4 DELİKLİ SAE B 13 DİŞ ÇİFT YÖNLÜ DİŞLİ MOTOR  
2+4 HOLES SAE B 13 TEETH BI-DIRECTIONAL GEAR MOTOR

Giriş Basıncı   Inlet Pressure	0.3÷ 2 bar		
Çalışma Viskozite Seviyesi   Operating Viscosity Range	-12:100 cSt		
Sıvı Sıcaklığı   Fluid Temperature	-40 °C+145 °C		
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m

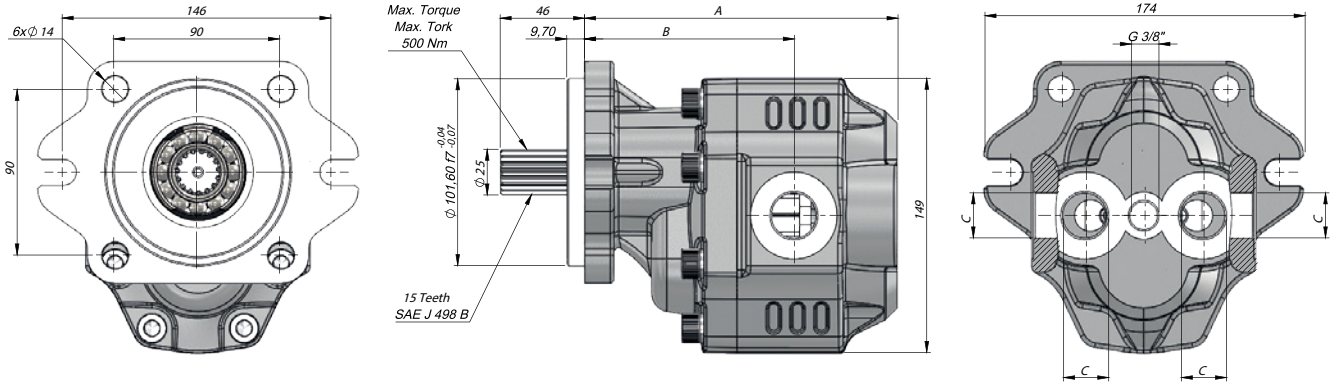


Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
GM30034BF535	34	285	300	2200	164,5	109	G3/4"	C
GM30043BF535	43	280		2000	170,5	114		
GM30051BF535	51	230			175,5			
GM30061BF535	61	225		1800	183,5	120,5	G1"	
GM30073BF535	73	215		1600	188,5	122,5		
GM30082BF535	82	200		1500	194,5	126		

## TEKNİK VERİLER | TECHNICAL DATA

2+4 DELİKLİ SAE B 15 DİŞ ÇİFT YÖNLÜ DİŞLİ MOTOR  
2+4 HOLES SAE B 15 TEETH BI-DIRECTIONAL GEAR MOTOR

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m

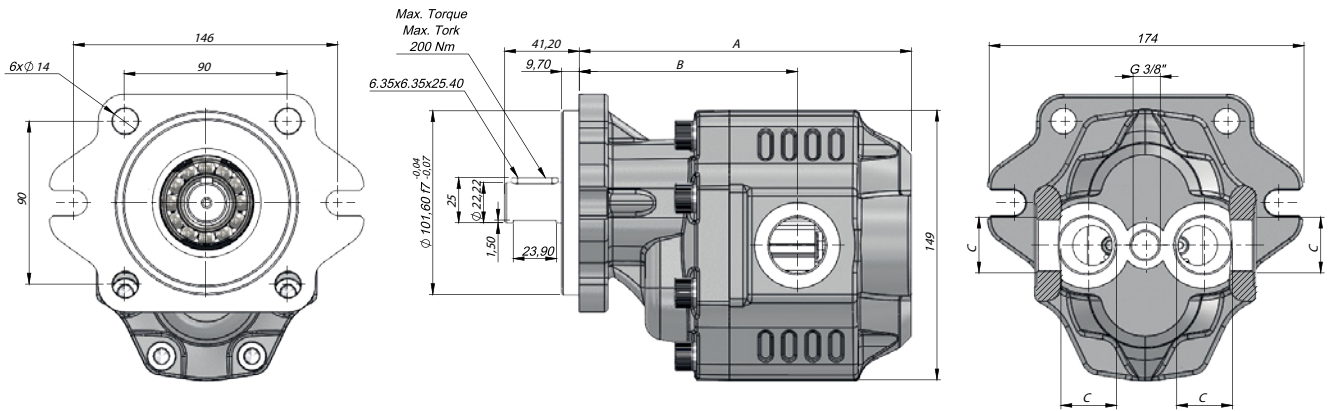


Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basıncı Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
GM30034BF635	34	285	300	2200	164,5	109	G3/4"	C
GM30043BF635	43	280		2000	170,5	114		
GM30051BF635	51	230			175,5			
GM30061BF635	61	225		1800	183,5	120,5	G1"	
GM30073BF635	73	215		1600	188,5	122,5		
GM30082BF635	82	200		1500	194,5	126		

## TEKNİK VERİLER | TECHNICAL DATA

### 2+4 DELİKLİ SAE B KAMALI ÇİFT YÖNLÜ DİŞLİ MOTOR 2+4 HOLES SAE B KEYED BI-DIRECTIONAL GEAR MOTOR

Giriş Basıncı   Inlet Pressure	0.3÷ 2 bar		
Çalışma Viskozite Seviyesi   Operating Viscosity Range	-12:100 cSt		
Sıvı Sıcaklığı   Fluid Temperature	-40 °C+145 °C		
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m

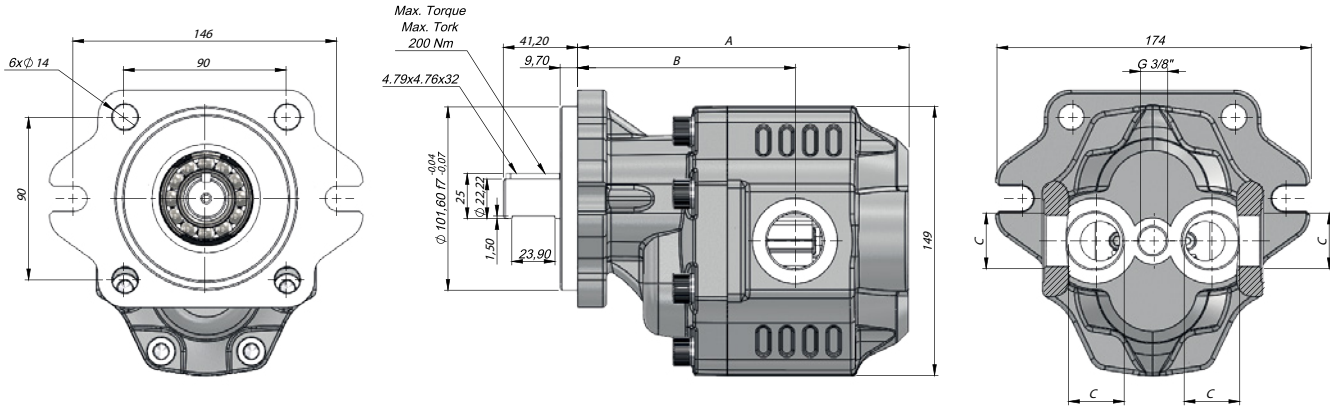


Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
GM30034BK135	34	285	300	2200	164,5	109	G3/4"	C
GM30043BK135	43	280		2000	170,5	114		
GM30051BK135	51	230			175,5			
GM30061BK135	61	225		1800	183,5	120,5	G1"	
GM30073BK135	73	215		1600	188,5	122,5		
GM30082BK135	82	200		1500	194,5	126		

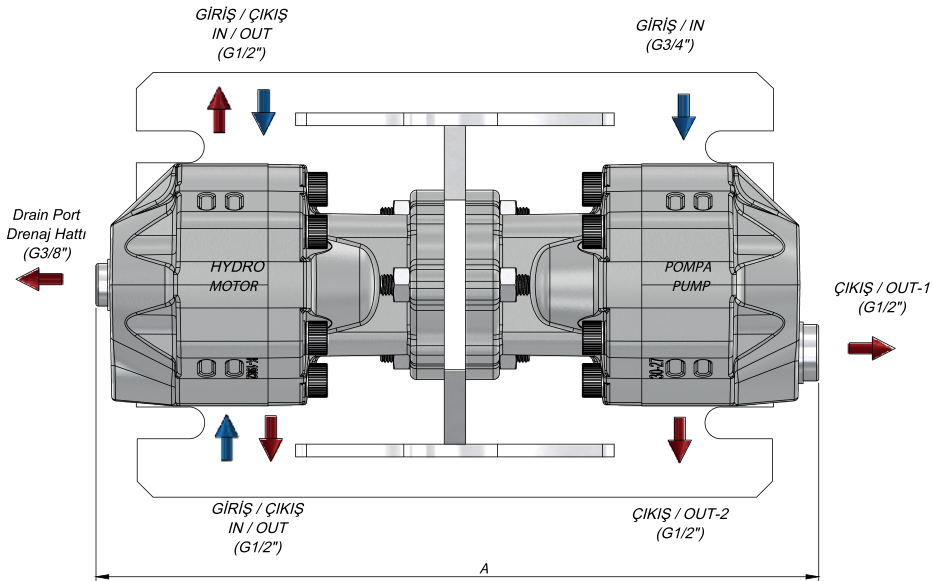
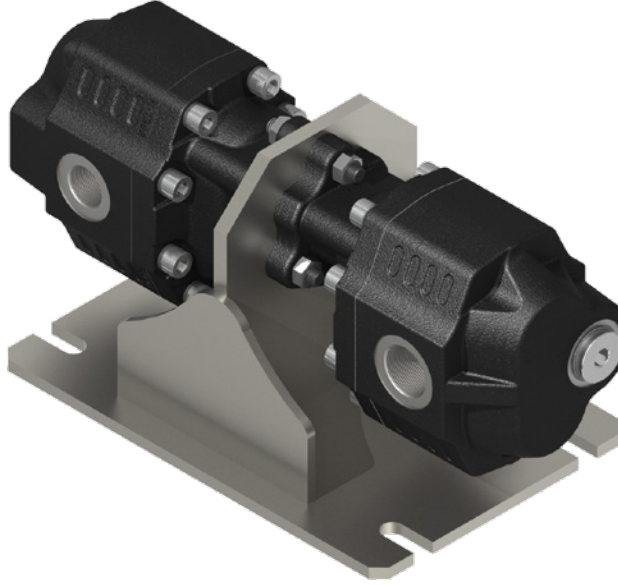
## TEKNİK VERİLER | TECHNICAL DATA

2+4 DELİKLİ SAE B KAMALI ÇİFT YÖNLÜ DİŞLİ MOTOR  
2+4 HOLES SAE B KEYED BI-DIRECTIONAL GEAR MOTOR

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu\text{m}$
≤200 bar	12	21/18	40 $\mu\text{m}$



Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
GM30034BK235	34	285	300	2200	164,5	109	G3/4"	C
GM30043BK235	43	280		2000	170,5	114		
GM30051BK235	51	230			175,5			
GM30061BK235	61	225		1800	183,5	120,5	G1"	
GM30073BK235	73	215		1600	188,5	122,5		
GM30082BK235	82	200		1500	194,5	126		



Kodu Code	Motor Motor	Pompa Pump	A
GM3061316111	UNI 61 cc BD	UNI 61 cc Left	385
GM3061317111	UNI 61 cc BD	UNI 73 cc Left	390
GM3073316111	UNI 73 cc BD	UNI 61 cc Left	390

# KAZEL<sup>®</sup>

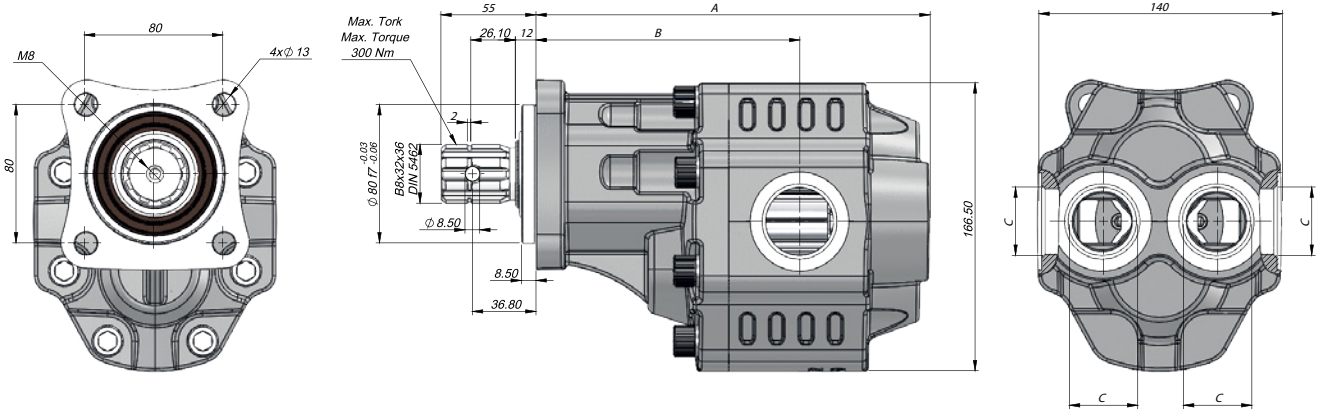
## ERCAH GEAR PUMP & MOTOR

35 SERIES



**4 DELİKLİ ISO ÇİFT YÖNLÜ DİŞLİ POMPA | 4 HOLES ISO BI-DIRECTIONAL GEAR PUMP**

Giriş Basıncı   Inlet Pressure		0.7÷ 3 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
$\geq 200$ bar	11	20/17	25 $\mu$ m
$\leq 200$ bar	12	21/18	40 $\mu$ m



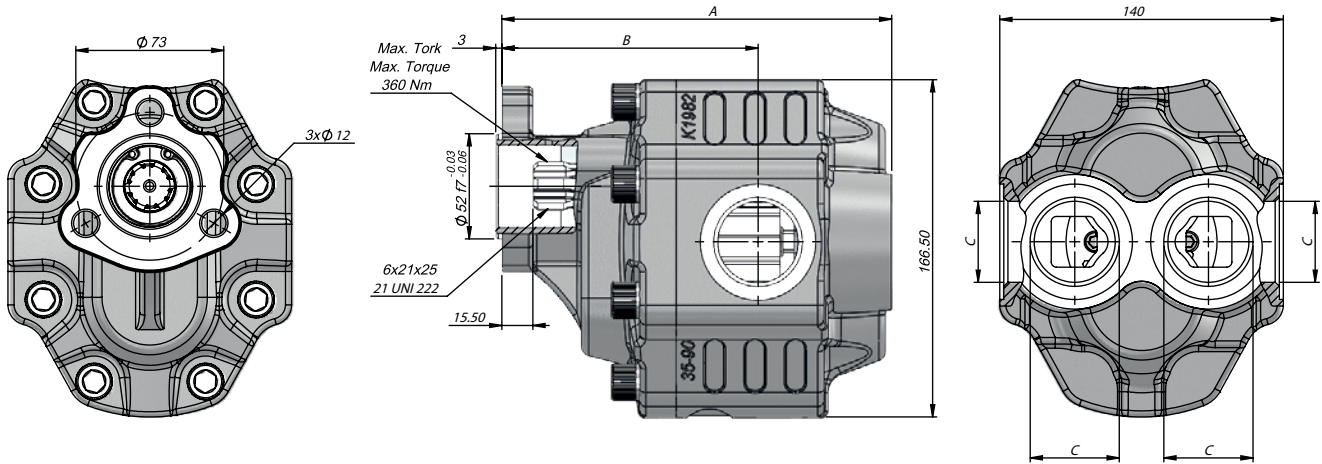
Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
G35060SF131	60	250	300	1800	205	146	G1"	C
G35082SF131	82	240			214	148		
G35090SF131	90	230			218	152	G1 1/4"	C
G35100SF131	100	220			218	152		
G35110SF131	110	205			230	154,5		



## TEKNİK VERİLER | TECHNICAL DATA

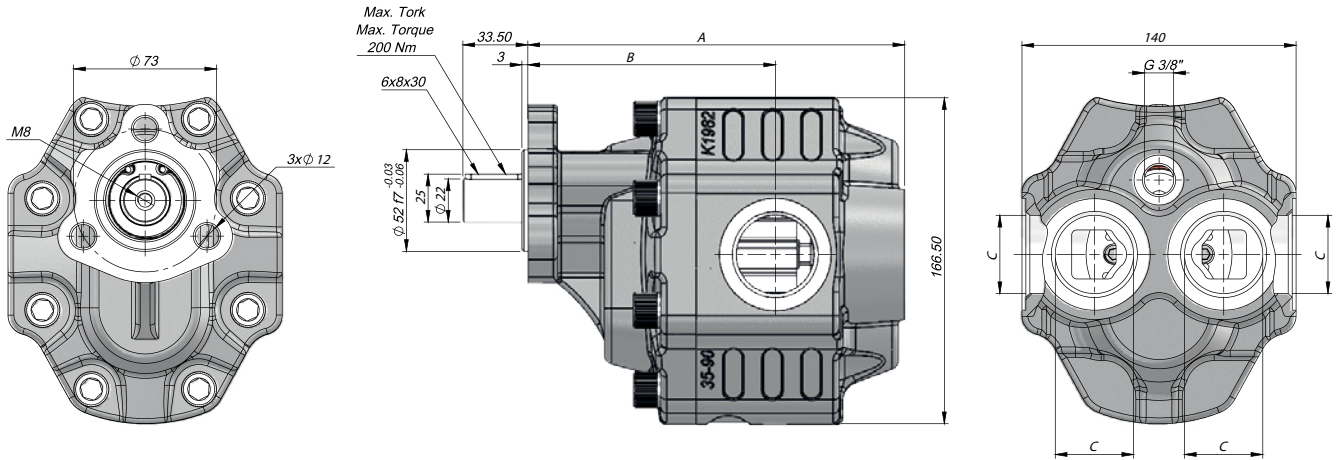
## 3 DELİKLİ UNI ÇİFT YÖNLÜ DİŞLİ POMPA | 3 HOLES UNI BI-DIRECTIONAL GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.7÷ 3 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu\text{m}$
≤200 bar	12	21/18	40 $\mu\text{m}$



Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
G35060UF431	60	250	300	1800	179,5	120,5	G1"	C
G35082UF431	82	240			188,5	122,5		
G35090UF431	90	230			192,5	126,5	G1 1/4"	C
G35100UF431	100	220			192,5	126,5		
G35110UF431	110	205			204,5	129		

Giriş Basıncı   Inlet Pressure		0.7÷ 3 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
$\geq 200$ bar	11	20/17	25 $\mu\text{m}$
$\leq 200$ bar	12	21/18	40 $\mu\text{m}$

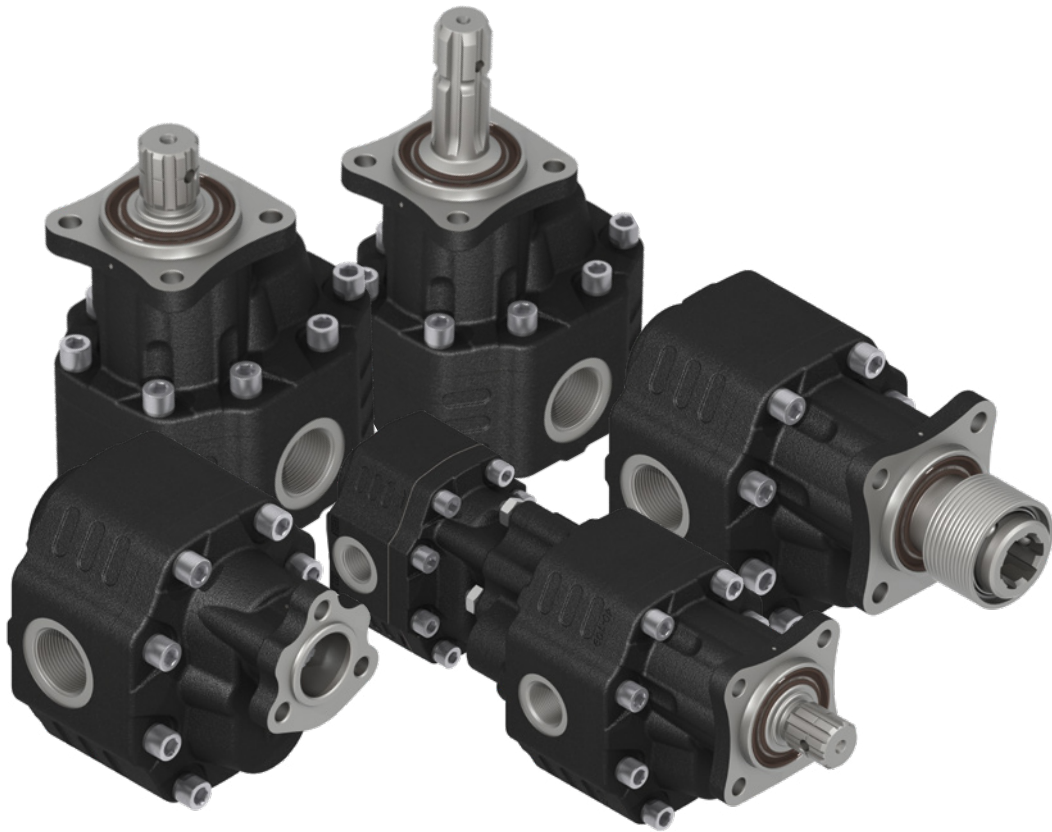


Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
G35060UK931	60	250	300	1800	179,5	120,5	G1"	C
G35082UK931	82	240			188,5	122,5		
G35090UK931	90	230			192,5	126,5	G1 1/4"	C
G35100UK931	100	220			192,5	126,5		
G35110UK931	110	205			204,5	129		

# KAZEL®

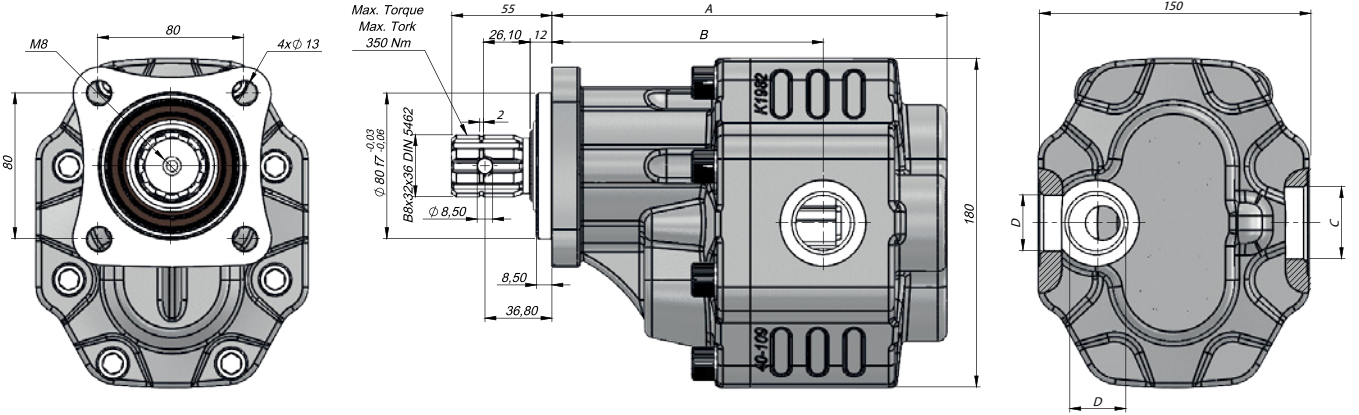
## GANI GEAR PUMP & MOTOR

40 SERIES



GANI SERIES  
GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m

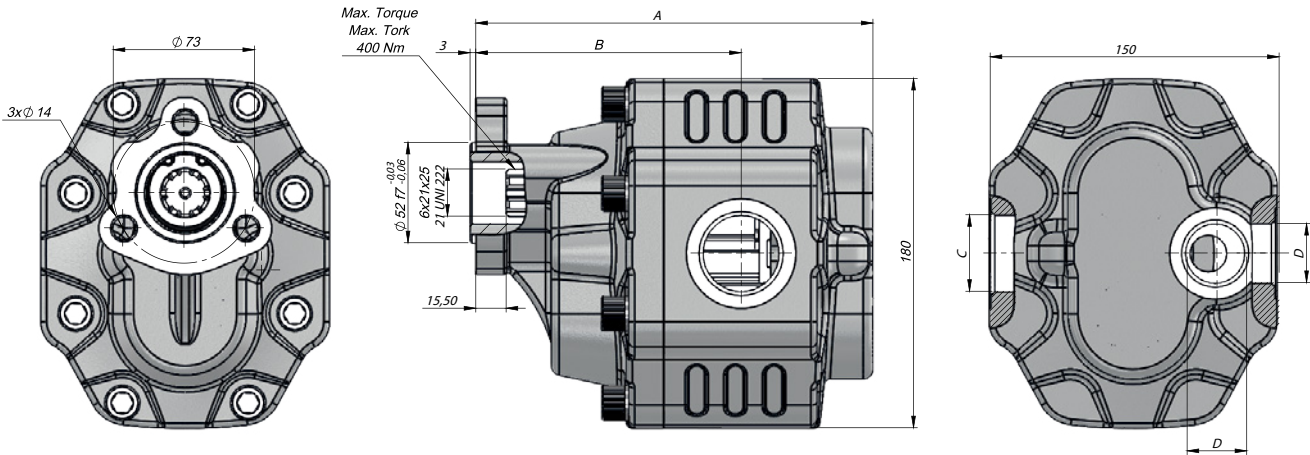


Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D
G40063SF111	G40063SF121	63	290	300	1800	200	139	G1"	G3/4"
G40073SF111	G40073SF121	73	280			204	139		
G40087SF111	G40087SF121	87	260			209	144		
G40109SF111	G40109SF121	109	250			217	149		
G40116SF111	G40116SF121	116	240		1500	217	149	G1"	
G40133SF111	G40133SF121	133	220			226	150		
G40151SF111	G40151SF121	151	180			232	153		

## TEKNİK VERİLER | TECHNICAL DATA

## 3 DELİKLİ UNI DİŞLİ POMPA | 3 HOLES UNI GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.7÷ 3 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu\text{m}$
≤200 bar	12	21/18	40 $\mu\text{m}$



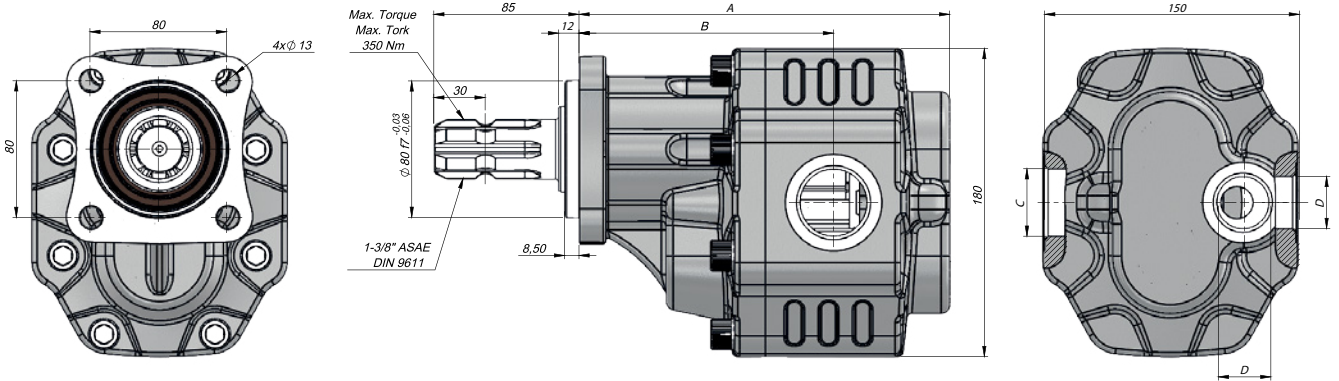
Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D
G40063UF411	G40063UF421	63	290	300	1800	188	127	G1"	G3/4"
G40073UF411	G40073UF421	73	280			192	127		
G40087UF411	G40087UF421	87	260			197	131	G1 1/4"	
G40109UF411	G40109UF421	109	250			205	137		
G40116UF411	G40116UF421	116	240		205	138,5	G1"		
G40133UF411	G40133UF421	133	220		214	138		G1 1/2"	
G40151UF411	G40151UF421	151	180		220	140,5			

### TEKNİK VERİLER | TECHNICAL DATA

#### 4 DELİKLİ ASAE-S DİŞLİ POMPA | 4 HOLES ASAE-S GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m

GANI SERIES GEAR PUMP

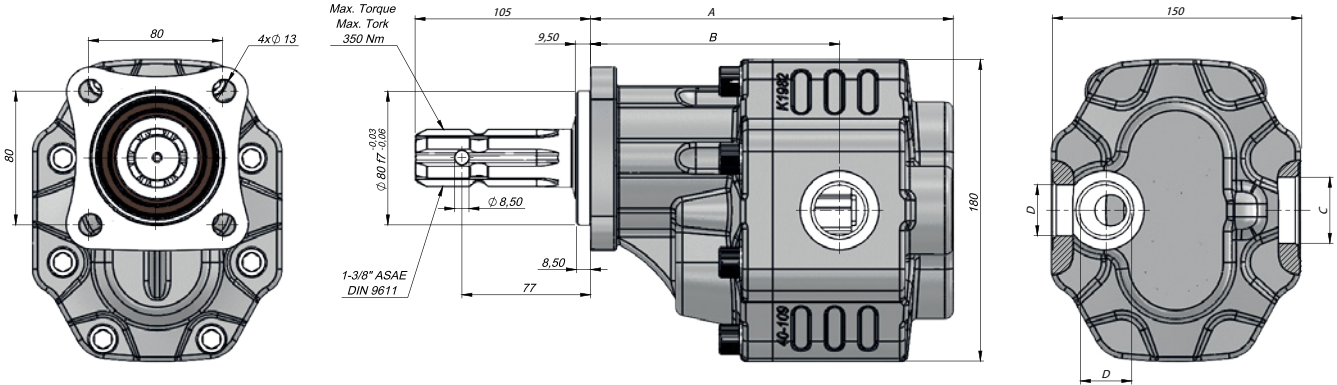


Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D
G40063SF211	G40063SF221	63	290	300	1800	200	139	G1"	G3/4"
G40073SF211	G40073SF221	73	280			204	139		
G40087SF211	G40087SF221	87	260			209	144		
G40109SF211	G40109SF221	109	250		1500	217	149	G1 1/4"	G1"
G40116SF211	G40116SF221	116	240			217	149		
G40133SF211	G40133SF221	133	220			226	150		
G40151SF211	G40151SF221	151	180		232	153	G1 1/2"		

## TEKNİK VERİLER | TECHNICAL DATA

## 4 DELİKLİ ASAE-L DİŞLİ POMPA | 4 HOLES ASAE-L GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.7÷ 3 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu\text{m}$
≤200 bar	12	21/18	40 $\mu\text{m}$



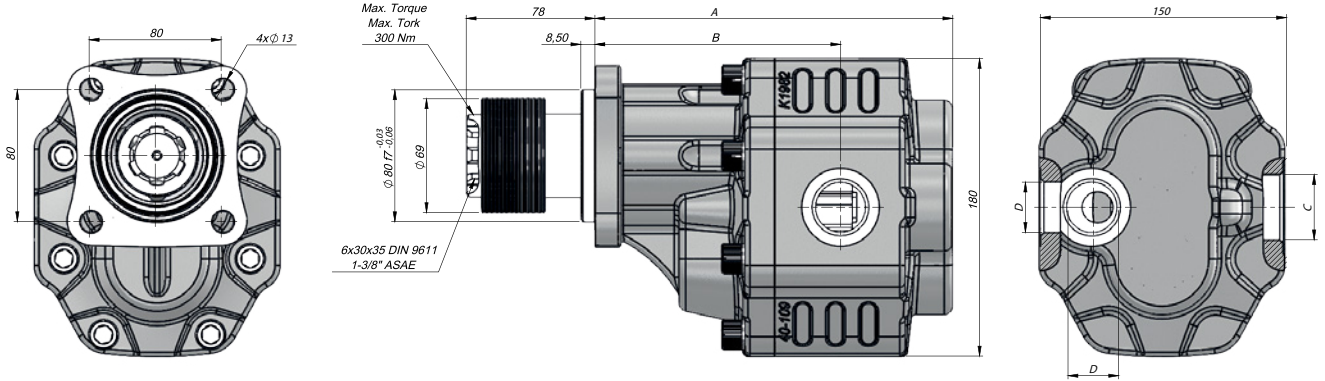
Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D
G40063SF811	G40063SF821	63	290	300	1800	200	139	G1"	G3/4"
G40073SF811	G40073SF821	73	280			204	139		
G40087SF811	G40087SF821	87	260			209	144	G1 1/4"	
G40109SF811	G40109SF821	109	250			217	149		
G40116SF811	G40116SF821	116	240		1500	217	149	G1"	
G40133SF811	G40133SF821	133	220			226	150		
G40151SF811	G40151SF821	151	180			232	153		G1 1/2"

### TEKNİK VERİLER | TECHNICAL DATA

#### 4 DELİKLİ TRC DİŞLİ POMPA | 4 HOLES TRC GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m

GANI SERIES GEAR PUMP



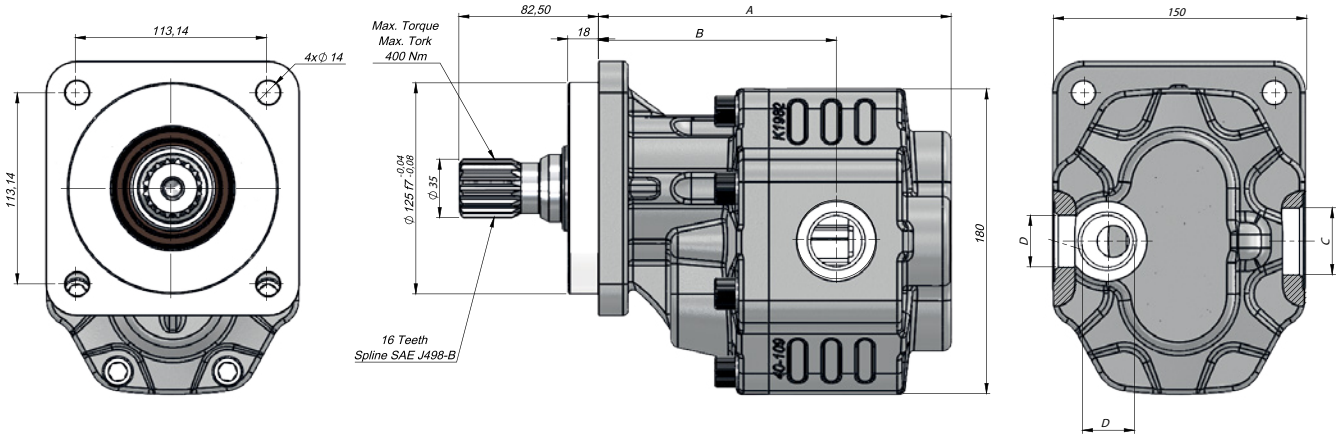
Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D
G40063SF311	G40063SF321	63	290	300	1800	200	139	G1 1/4"	G3/4"
G40073SF311	G40073SF321	73	280			204	139		
G40087SF311	G40087SF321	87	260			209	144		
G40109SF311	G40109SF321	109	250			217	149		
G40116SF311	G40116SF321	116	240		217	149	G1"		
G40133SF311	G40133SF321	133	220		226	150			
G40151SF311	G40151SF321	151	180		232	153			



## TEKNİK VERİLER | TECHNICAL DATA

## 4 DELİKLİ SAE C 16 DİŞLİ POMPA | 4 HOLES SAE C 16 TEETH GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.7÷ 3 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 µm
≤200 bar	12	21/18	40 µm



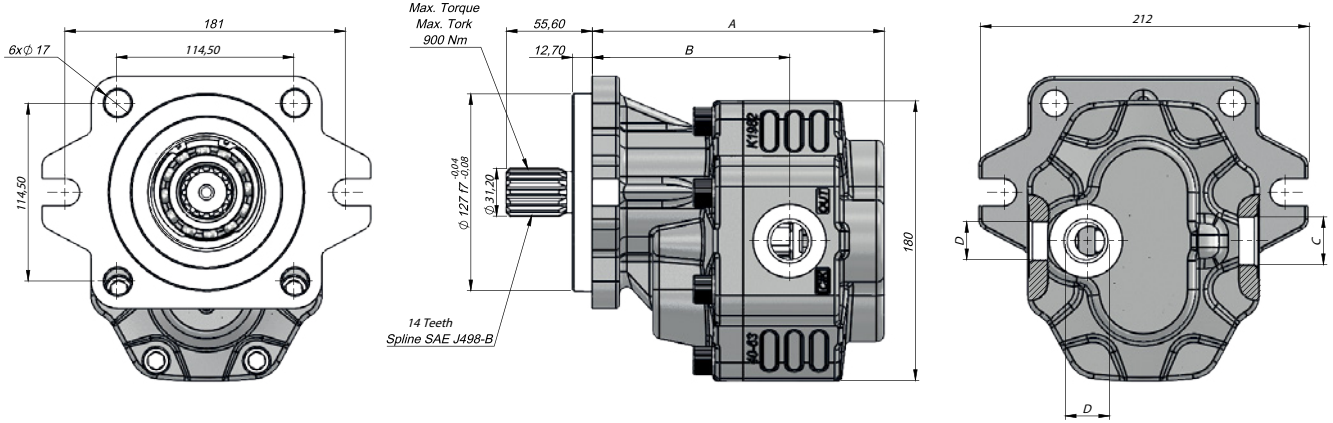
Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D
G40063RF911	G40063RF921	63	290	300	1800	192	131	G1 1/4"	G3/4"
G40073RF911	G40073RF921	73	280			196	131		
G40087RF911	G40087RF921	87	260			201	135		
G40109RF911	G40109RF921	109	250			209	141		
G40116RF911	G40116RF921	116	240		1500	209	142,5	G1"	
G40133RF911	G40133RF921	133	220			218	142		
G40151RF911	G40151RF921	151	180			224	144,5		

### TEKNİK VERİLER | TECHNICAL DATA

2+4 DELİKLİ SAE C 14 DİŞ DİŞLİ POMPA | 2+4 HOLES SAE C 14 TEETH GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m

GANI SERIES  
GEAR PUMP

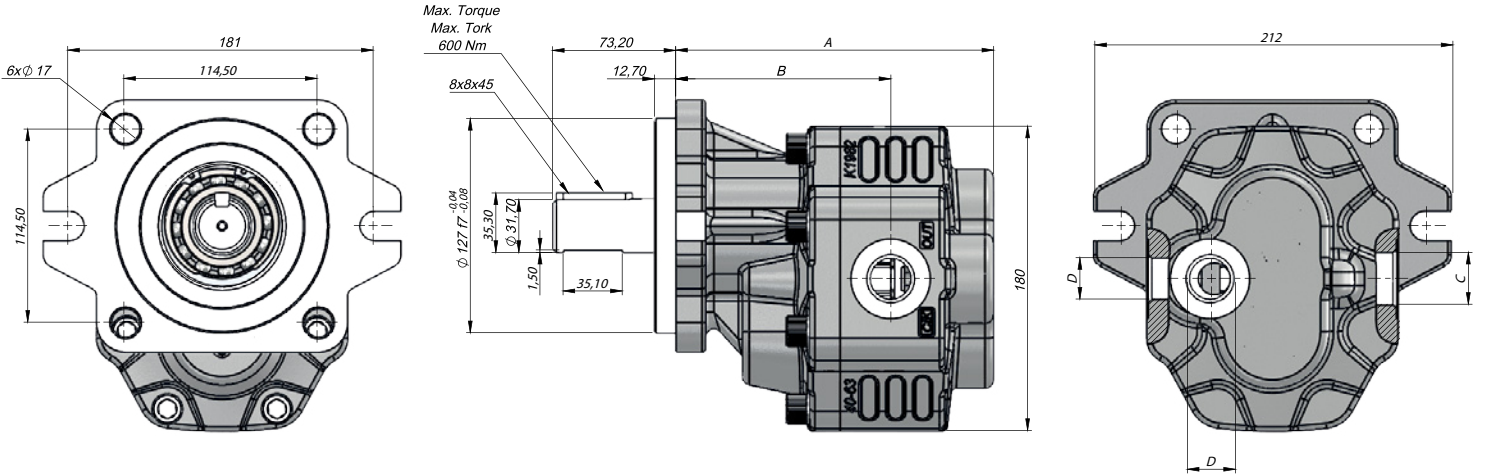


Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D
G40063CF1011	G40063CF1021	63	290	300	1800	188,5	127,5	G1"	G3/4"
G40073CF1011	G40073CF1021	73	280			192,5	127,5		
G40087CF1011	G40087CF1021	87	260			197,5	131,5		
G40109CF1011	G40109CF1021	109	250			205,5	137,5		
G40116CF1011	G40116CF1021	116	240		1500	205,5	139	G1 1/4"	
G40133CF1011	G40133CF1021	133	220			214,5	138,5		
G40151CF1011	G40151CF1021	151	180			220,5	141	G1 1/2"	

## TEKNİK VERİLER | TECHNICAL DATA

### 4 DELİKLİ SAE C KAMALI DİŞLİ POMPA | 4 HOLES SAE C KEYED GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.7÷ 3 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu\text{m}$
≤200 bar	12	21/18	40 $\mu\text{m}$

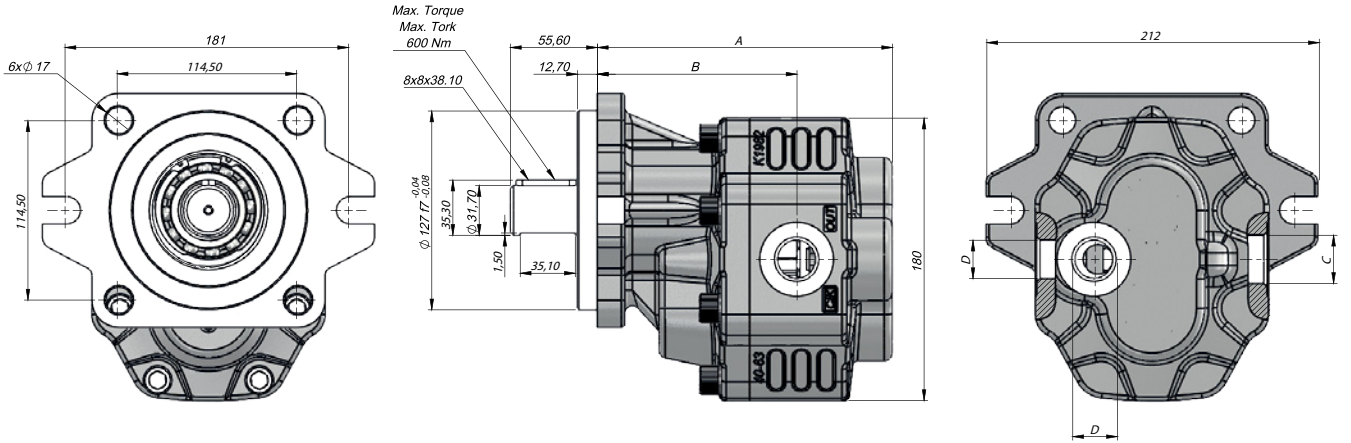


Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D
G40063CK1011	G40063CK1021	63	290	300	1800	188,5	127,5	G1"	G3/4"
G40073CK1011	G40073CK1021	73	280			192,5	127,5		
G40087CK1011	G40087CK1021	87	260			197,5	131,5		
G40109CK1011	G40109CK1021	109	250			205,5	137,5		
G40116CK1011	G40116CK1021	116	240		1500	205,5	139	G1 1/4"	G1"
G40133CK1011	G40133CK1021	133	220			214,5	138,5		
G40151CK1011	G40151CK1021	151	180			220,5	141		

**4 DELİKLİ SAE C KAMALI DİŞLİ POMPA | 4 HOLES SAE C KEYED GEAR PUMP**

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 µm
≤200 bar	12	21/18	40 µm

GANI SERIES  
GEAR PUMP

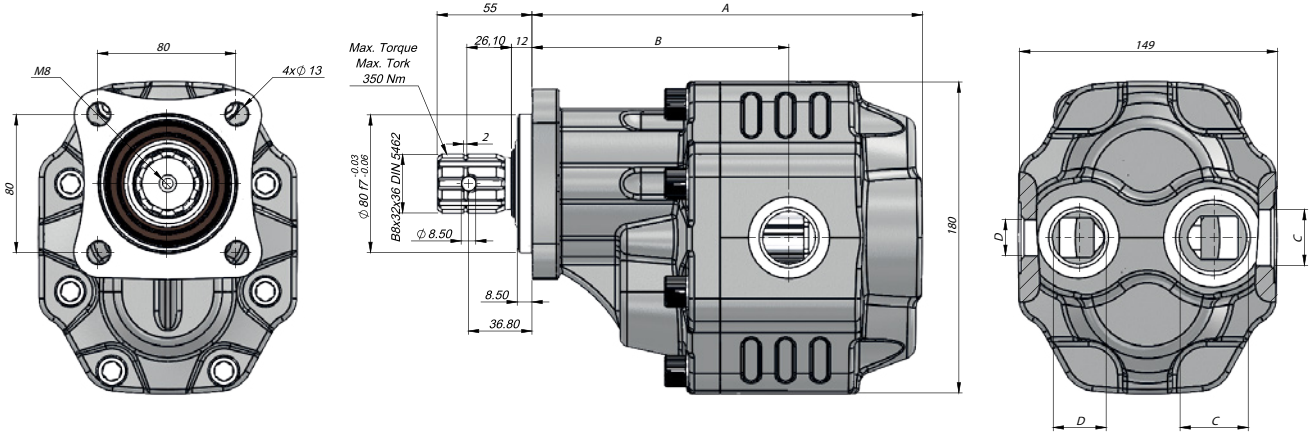


Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D
G40063CK1111	G40063CK1121	63	290	300	1800	188,5	127,5	G1"	G3/4"
G40073CK1111	G40073CK1121	73	280			192,5	127,5		
G40087CK1111	G40087CK1121	87	260			197,5	131,5		
G40109CK1111	G40109CK1121	109	250			205,5	137,5		
G40116CK1111	G40116CK1121	116	240		1500	205,5	139	G1 1/4"	G1"
G40133CK1111	G40133CK1121	133	220			214,5	138,5		
G40151CK1111	G40151CK1121	151	180			220,5	141		

### TEKNİK VERİLER | TECHNICAL DATA

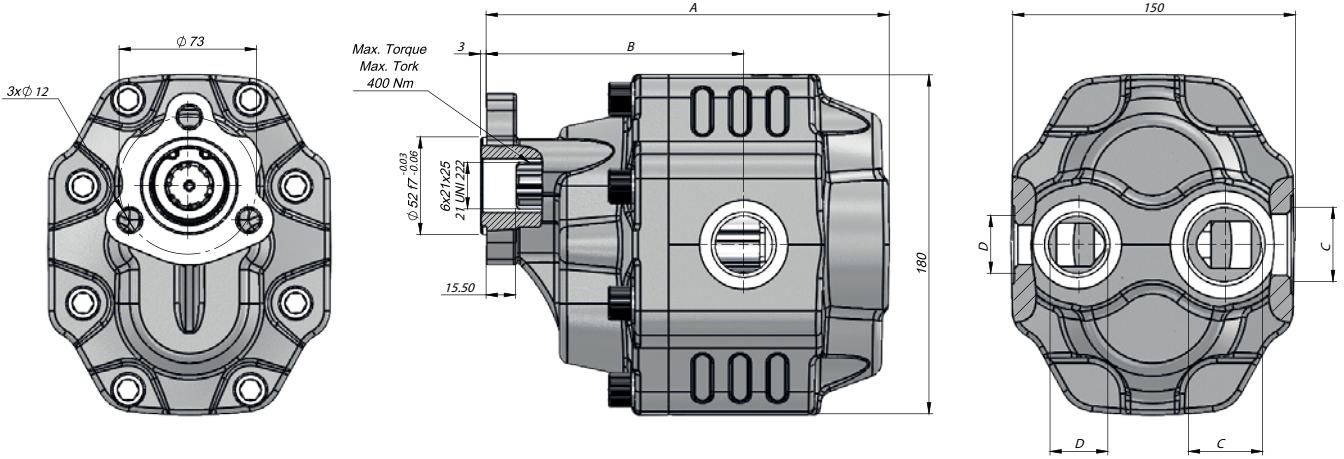
#### 4 DELİKLİ ISO DİŞLİ POMPA | 4 HOLES ISO GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D
G40063SF115	G40063SF125	63	290	300	1800	209,5	139	G1"	G3/4"
G40073SF115	G40073SF125	73	280			213,5	139		
G40087SF115	G40087SF125	87	260			218,5	144		
G40109SF115	G40109SF125	109	250		1500	226,5	149	G1 1/4"	G1"
G40116SF115	G40116SF125	116	240			226,5	149		
G40133SF115	G40133SF125	133	220			235,5	150	G1 1/2"	
G40151SF115	G40151SF125	151	180			241,5	153		

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m

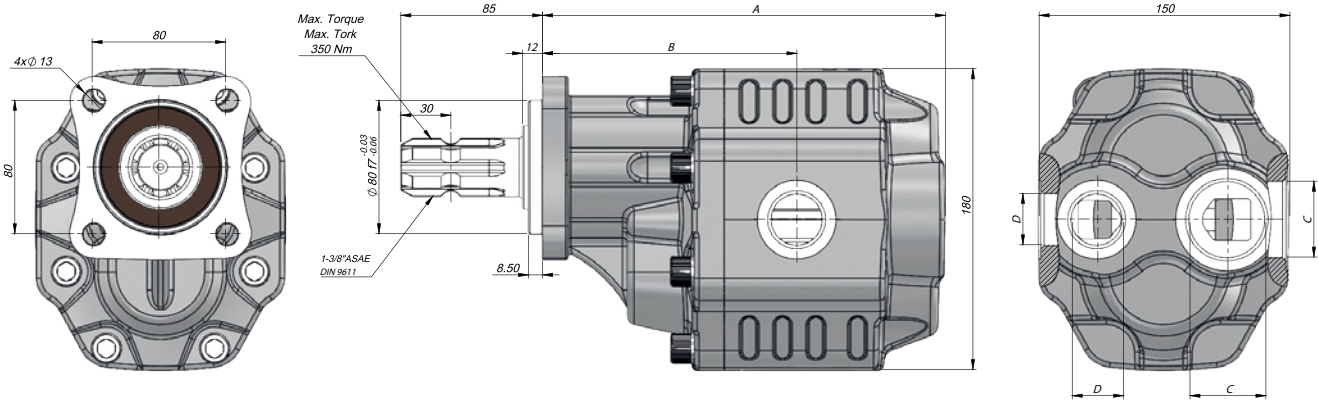


Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D
G40063UF415	G40063UF425	63	290	300	1800	197,5	127	G1"	G3/4"
G40073UF415	G40073UF425	73	280			201,5	127		
G40087UF415	G40087UF425	87	260			206,5	132,25		
G40109UF415	G40109UF425	109	250		1500	214,5	137	G1 1/4"	G1"
G40116UF415	G40116UF425	116	240			214,5	137		
G40133UF415	G40133UF425	133	220			223,5	138	G1 1/2"	
G40151UF415	G40151UF425	151	180			229,5	140,5		

### TEKNİK VERİLER | TECHNICAL DATA

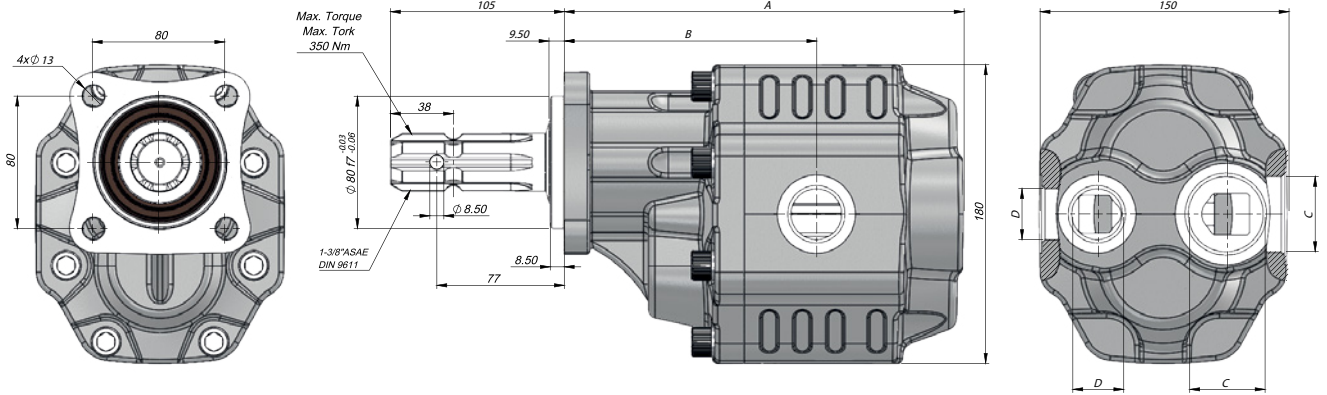
#### 4 DELİKLİ ASAE-S DİŞLİ POMPA | 4 HOLES ASAE-S GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D
G40063SF215	G40063SF225	63	290	300	1800	209,5	139	G1"	G3/4"
G40073SF215	G40073SF225	73	280			213,5	139		
G40087SF215	G40087SF225	87	260			218,5	144		
G40109SF215	G40109SF225	109	250		1500	226,5	149	G1 1/4"	G1"
G40116SF215	G40116SF225	116	240			226,5	149		
G40133SF215	G40133SF225	133	220			235,5	150	G1 1/2"	
G40151SF215	G40151SF225	151	180	241,5	153				

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



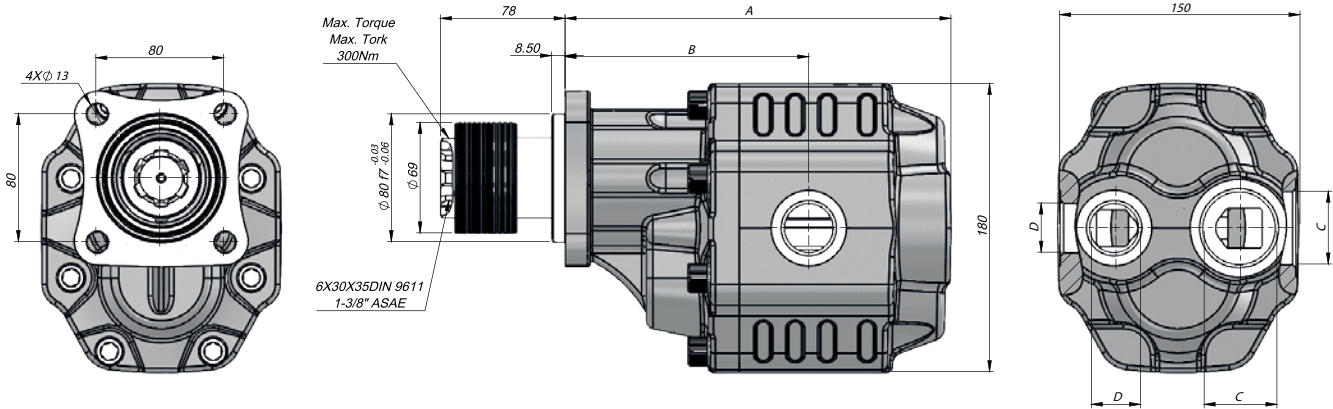
Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D
G40063SF815	G40063SF825	63	290	300	1800	209,5	139	G1"	G3/4"
G40073SF815	G40073SF825	73	280			213,5	139		
G40087SF815	G40087SF825	87	260			218,5	144		
G40109SF815	G40109SF825	109	250		1500	226,5	149	G1 1/4"	G1"
G40116SF815	G40116SF825	116	240			226,5	149		
G40133SF815	G40133SF825	133	220			235,5	150	G1 1/2"	
G40151SF815	G40151SF825	151	180			241,5	153		



### TEKNİK VERİLER | TECHNICAL DATA

#### 4 DELİKLİ TRC DİŞLİ POMPA | 4 HOLES TRC GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



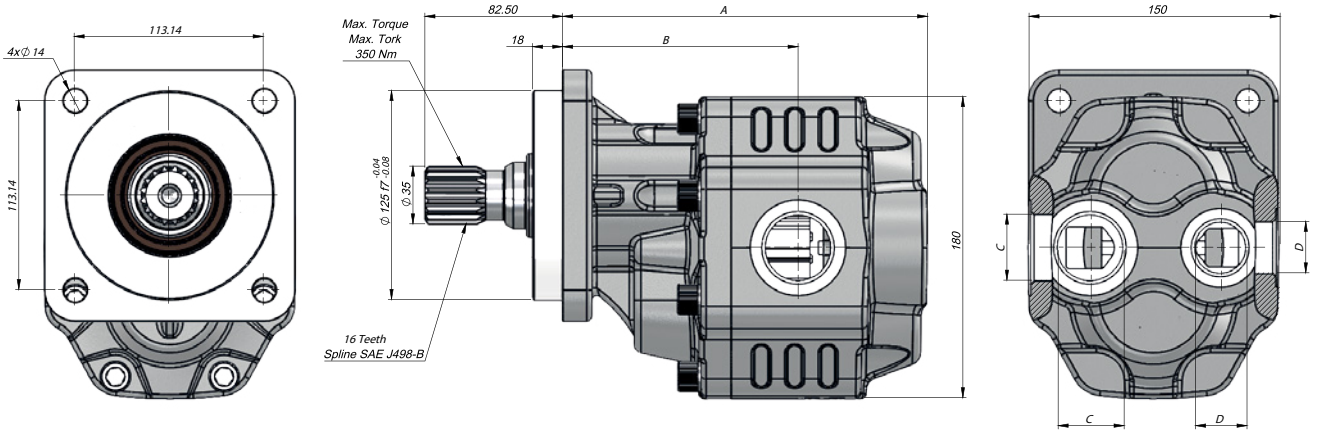
Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D
G40063SF315	G40063SF325	63	290	300	1800	209,5	139	G1"	G3/4"
G40073SF315	G40073SF325	73	280			213,5	139		
G40087SF315	G40087SF325	87	260			218,5	144		
G40109SF315	G40109SF325	109	250		1500	226,5	149	G1 1/4"	G1"
G40116SF315	G40116SF325	116	240			226,5	149		
G40133SF315	G40133SF325	133	220			235,5	150	G1 1/2"	
G40151SF315	G40151SF325	151	180			241,5	153		

### TEKNİK VERİLER | TECHNICAL DATA

#### 4 DELİKLİ SAE C 16 DİŞ DİŞLİ POMPA | 4 HOLES SAE C 16 TEETH GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
	≥200 bar	11	20/17
≤200 bar	12	21/18	40 $\mu$ m

GANI SERIES GEAR PUMP

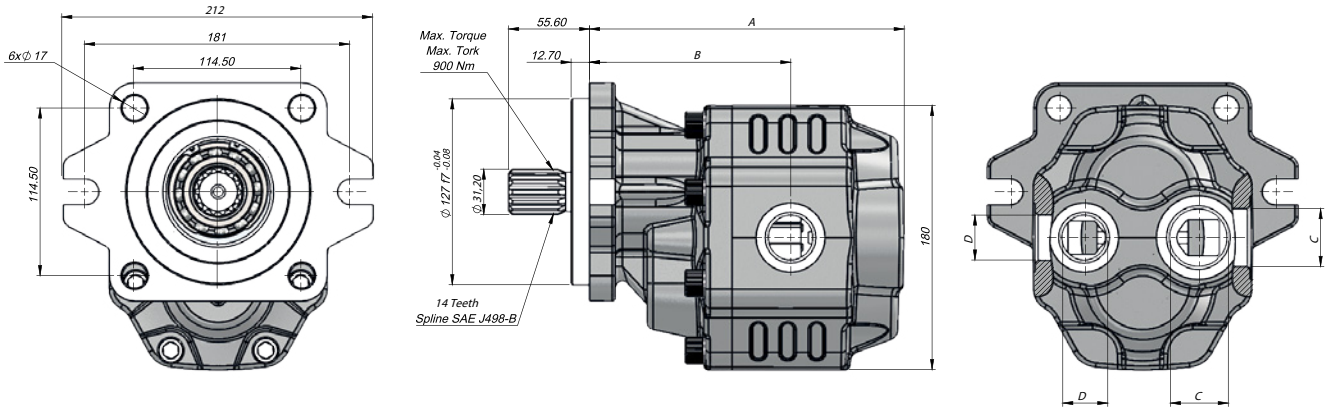


Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D
G40063RF915	G40063RF925	63	290	300	1800	201,5	131	G1"	G3/4"
G40073RF915	G40073RF925	73	280			205,5	131		
G40087RF915	G40087RF925	87	260			210,5	136		
G40109RF915	G40109RF925	109	250		1500	218,5	141	G1 1/4"	G1"
G40116RF915	G40116RF925	116	240			218,5	141		
G40133RF915	G40133RF925	133	220			227,5	142	G1 1/2"	
G40151RF915	G40151RF925	151	180			233,5	144,5		

### TEKNİK VERİLER | TECHNICAL DATA

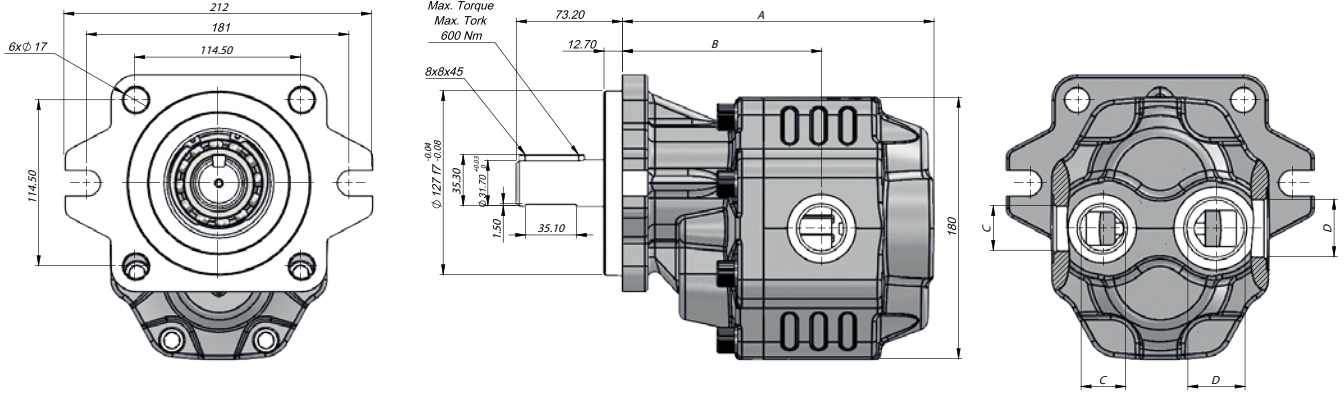
2+4 DELİKLİ SAE C 14 DİŞ DİŞLİ POMPA | 2+4 HOLES SAE C 14 TEETH GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D
G40063CF1015	G40063CF1025	63	290	300	1800	198	127,5	G1"	G3/4"
G40073CF1015	G40073CF1025	73	280			202	127,5		
G40087CF1015	G40087CF1025	87	260			207	133		
G40109CF1015	G40109CF1025	109	250		1500	215	137,5	G1 1/4"	G1"
G40116CF1015	G40116CF1025	116	240			215	137,5		
G40133CF1015	G40133CF1025	133	220			224	138,5	G1 1/2"	
G40151CF1015	G40151CF1025	151	180			230	141		

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m

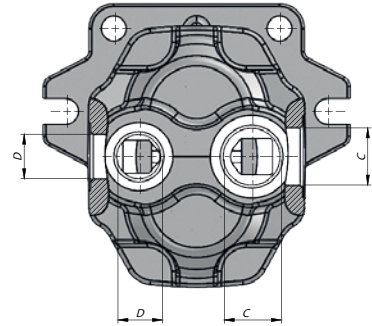
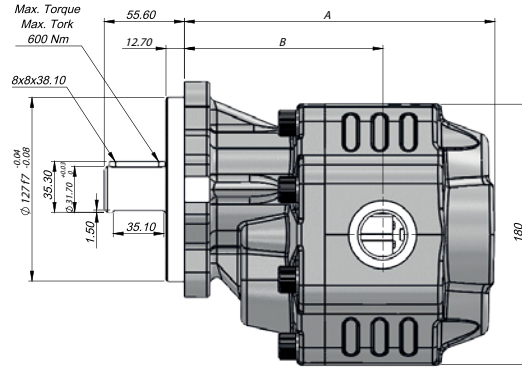
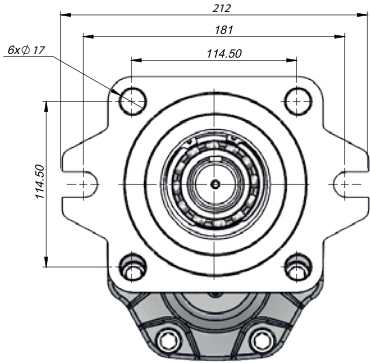


Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D
G40063CK1015	G40063CK1025	63	290	300	1800	198	127,5	G1"	G3/4"
G40073CK1015	G40073CK1025	73	280			202	127,5		
G40087CK1015	G40087CK1025	87	260			207	133		
G40109CK1015	G40109CK1025	109	250		1500	215	137,5	G1 1/4"	G1"
G40116CK1015	G40116CK1025	116	240			215	137,5		
G40133CK1015	G40133CK1025	133	220			224	138,5	G1 1/2"	
G40151CK1015	G40151CK1025	151	180			230	141		

### TEKNİK VERİLER | TECHNICAL DATA

2+4 DELİKLİ SAE C KAMALI DİŞLİ POMPA | 2+4 HOLES SAE C KEYED GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



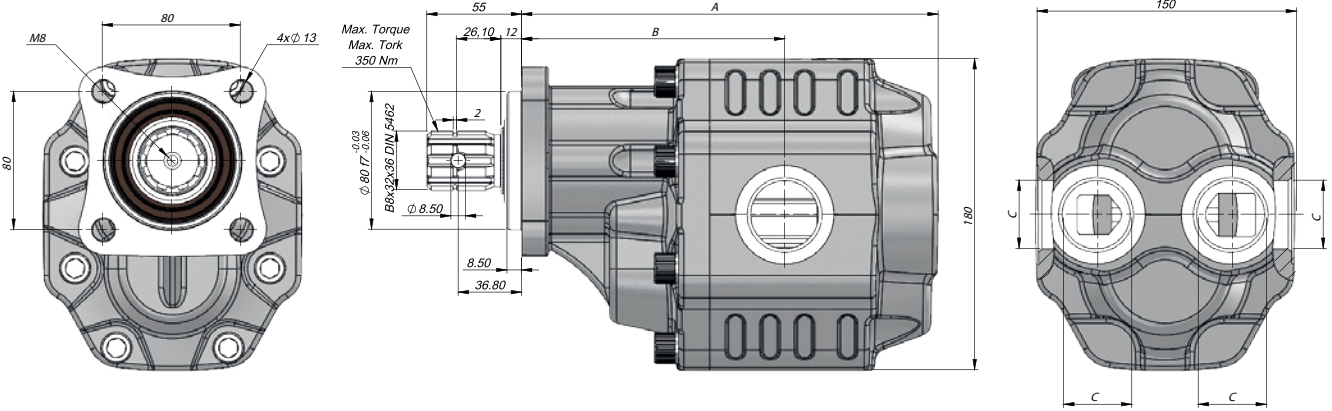
Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basıncı Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
Sol / Left	Sağ / Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D
G40063CK1115	G40063CK1125	63	290	300	1800	198	127,5	G1"	G3/4"
G40073CK1115	G40073CK1125	73	280			202	127,5		
G40087CK1115	G40087CK1125	87	260			207	133		
G40109CK1115	G40109CK1125	109	250		1500	215	137,5	G1 1/4"	G1"
G40116CK1115	G40116CK1125	116	240			215	137,5		
G40133CK1115	G40133CK1125	133	220			224	138,5	G1 1/2"	
G40151CK1115	G40151CK1125	151	180			230	141		

### TEKNİK VERİLER | TECHNICAL DATA

#### 4 DELİKLİ ISO ÇİFT YÖNLÜ DİŞLİ POMPA | 4 HOLES ISO BI-DIRECTIONAL GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m

GANI SERIES GEAR PUMP

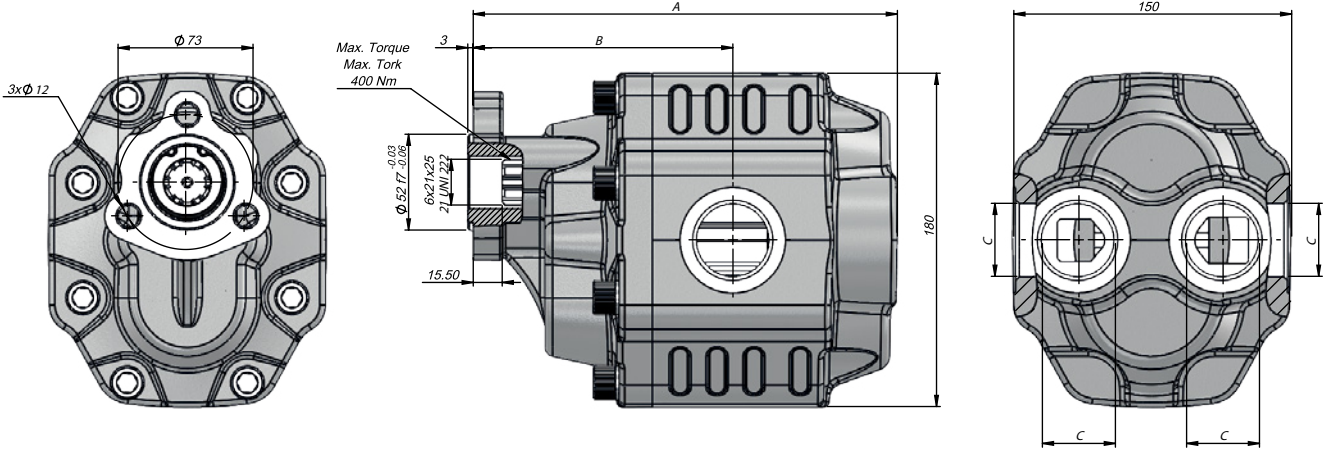


Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
G40063SF135	63	290	300	1800	209,5	139	G1"	C
G40073SF135	73	280			213,5	139		
G40087SF135	87	260			218,5	144		
G40109SF135	109	250		1500	226,5	149	G1 1/4"	C
G40116SF135	116	240			226,5	149		
G40133SF135	133	220			235,5	150		
G40151SF135	151	180			241,5	153		

## TEKNİK VERİLER | TECHNICAL DATA

## 3 DELİKLİ UNI ÇİFT YÖNLÜ DİŞLİ POMPA | 3 HOLES UNI BI-DIRECTIONAL GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



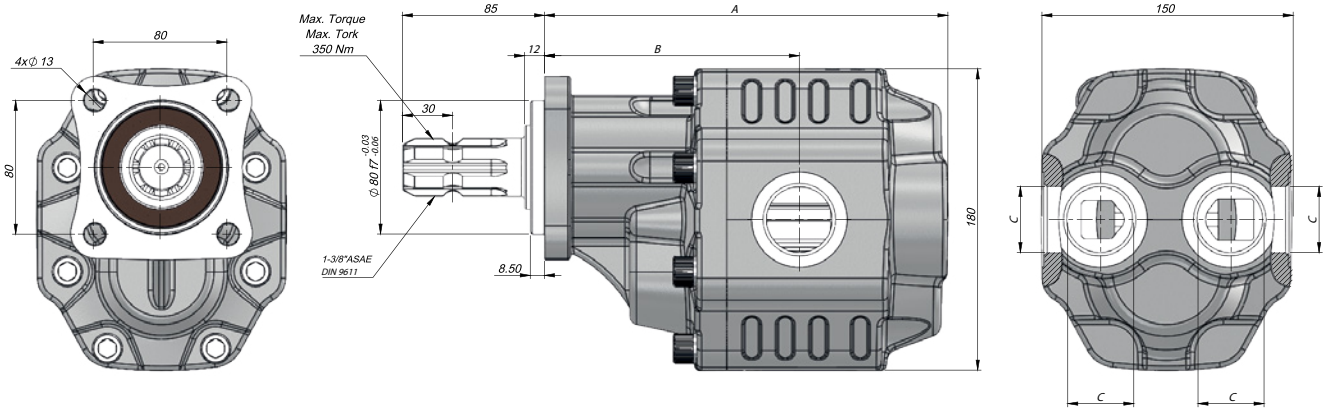
Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
G40063UF435	63	290	300	1800	197,5	127	G1"	C
G40073UF435	73	280			201,5	127		
G40087UF435	87	260			206,5	132,25		
G40109UF435	109	250		1500	214,5	137	G1 1/4"	C
G40116UF435	116	240			214,5	137		
G40133UF435	133	220			223,5	138		
G40151UF435	151	180	229,5		140,5			

### TEKNİK VERİLER | TECHNICAL DATA

#### 4 DELİKLİ ASAE-S ÇİFT YÖNLÜ DİŞLİ POMPA | 4 HOLES ASAE-S BI-DIRECTIONAL GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m

GANI SERIES GEAR PUMP



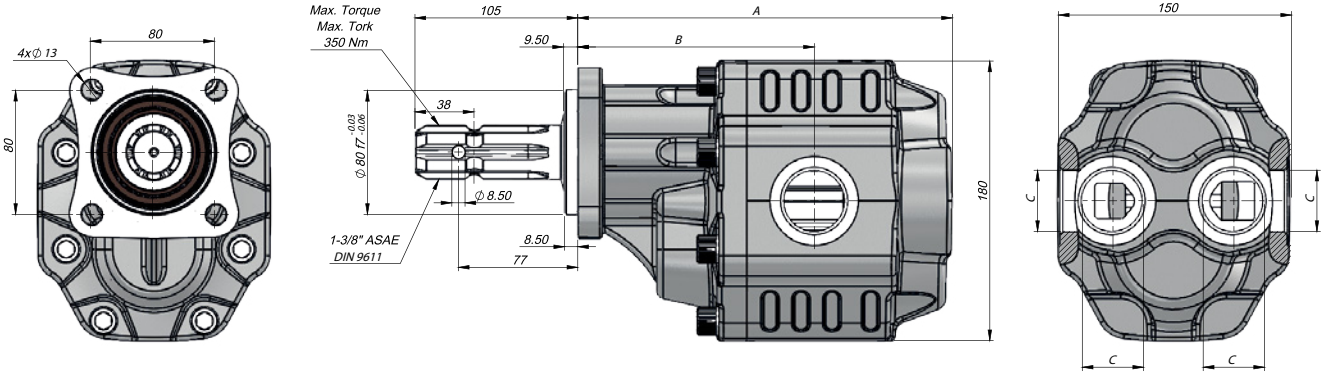
Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
G40063SF235	63	290	300	1800	209,5	139	G1"	C
G40073SF235	73	280			213,5	139		
G40087SF235	87	260			218,5	144		
G40109SF235	109	250		1500	226,5	149	G1 1/4"	C
G40116SF235	116	240			226,5	149		
G40133SF235	133	220			235,5	150		
G40151SF235	151	180			241,5	153		



## TEKNİK VERİLER | TECHNICAL DATA

### 4 DELİKLİ ASAE-L ÇİFT YÖNLÜ DİŞLİ POMPA | 4 HOLES ASAE-L BI-DIRECTIONAL GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu\text{m}$
≤200 bar	12	21/18	40 $\mu\text{m}$



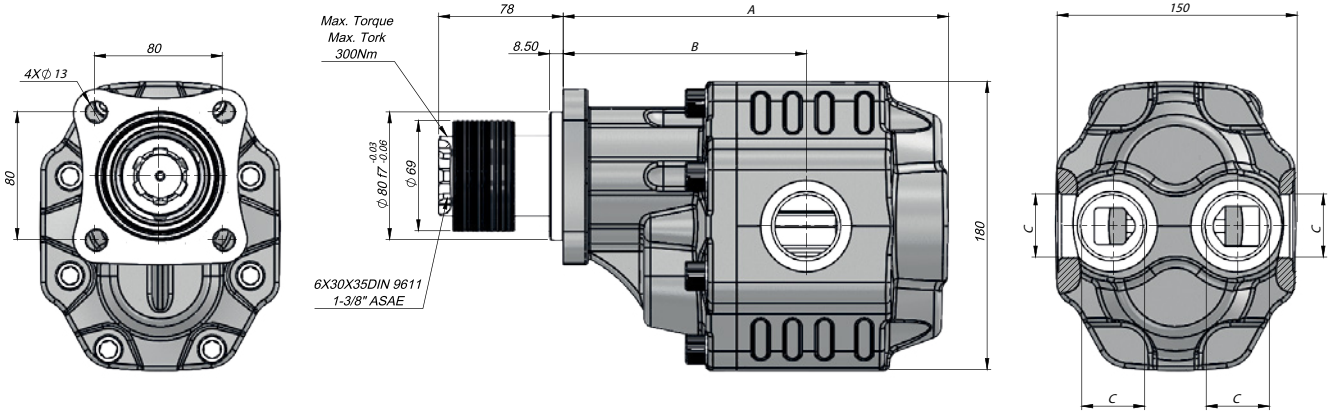
Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
G40063SF835	63	290	300	1800	209,5	139	G1"	C
G40073SF835	73	280			213,5	139		
G40087SF835	87	260			218,5	144		
G40109SF835	109	250		1500	G1 1/4"	226,5	149	C
G40116SF835	116	240				226,5	149	
G40133SF835	133	220				235,5	150	
G40151SF835	151	180				241,5	153	

### TEKNİK VERİLER | TECHNICAL DATA

#### 4 DELİKLİ TRC ÇİFT YÖNLÜ DİŞLİ POMPA | 4 HOLES TRC BI-DIRECTIONAL GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m

GANI SERIES GEAR PUMP

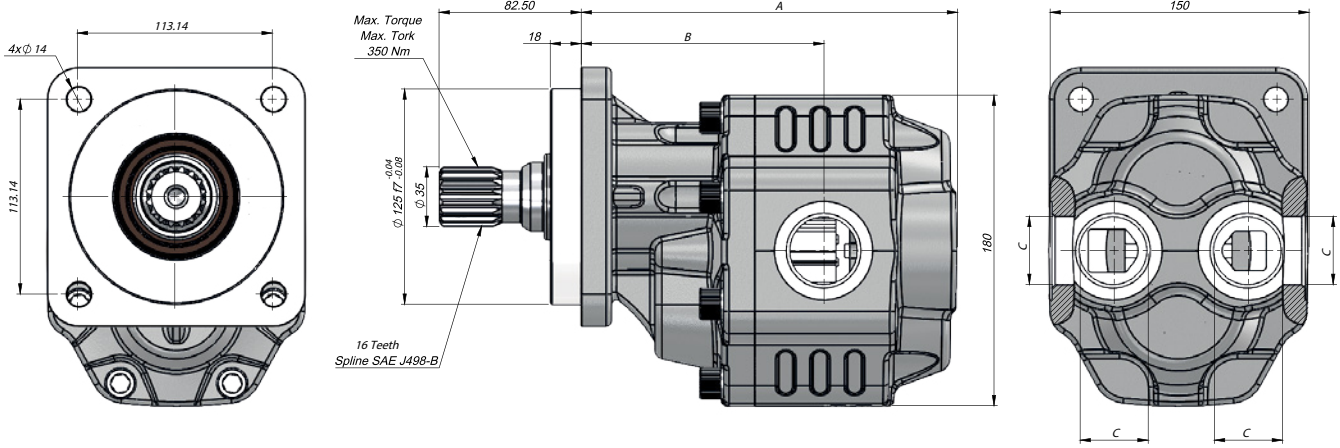


Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
G40063SF335	63	290	300	1800	209,5	139	G1"	C
G40073SF335	73	280			213,5	139		
G40087SF335	87	260			218,5	144		
G40109SF335	109	250		1500	226,5	149	G1 1/4"	C
G40116SF335	116	240			226,5	149		
G40133SF335	133	220			235,5	150		
G40151SF335	151	180			241,5	153		

## TEKNİK VERİLER | TECHNICAL DATA

4 DELİKLİ SAE C 16 DIŞ ÇİFT YÖNLÜ DİŞLİ POMPA | 4 HOLES SAE C 16 TEETH BI-DIRECTIONAL GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



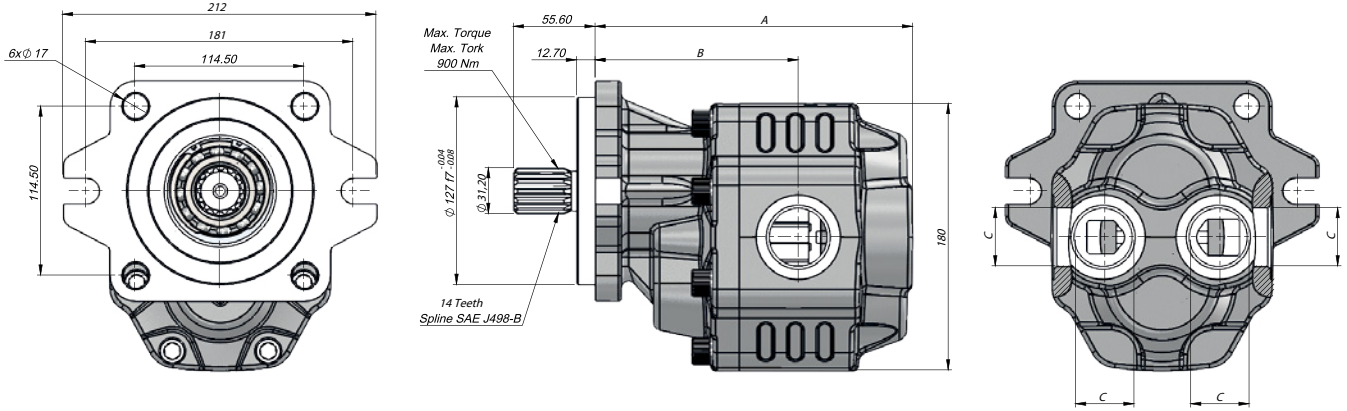
Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
Sol / Left	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
G40063RF935	63	290	300	1800	201,5	131	G1"	
G40073RF935	73	280			205,5	131		
G40087RF935	87	260			210,5	136		
G40109RF935	109	250			218,5	141		
G40116RF935	116	240		1500	218,5	141	G1 1/4"	
G40133RF935	133	220			227,5	142		
G40151RF935	151	180			233,5	144,5		

### TEKNİK VERİLER | TECHNICAL DATA

2+4 DELİKLİ SAE C 14 DİŞ ÇİFT YÖNLÜ DİŞLİ POMPA | 2+4 HOLES SAE C 14 TEETH BI-DIRECTIONAL GEAR PUMP

Giriş Basıncı   Inlet Pressure	0.3÷ 2 bar		
Çalışma Viskozite Seviyesi   Operating Viscosity Range	-12:100 cSt		
Sıvı Sıcaklığı   Fluid Temperature	-40 °C+145 °C		
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m

GANI SERIES  
GEAR PUMP



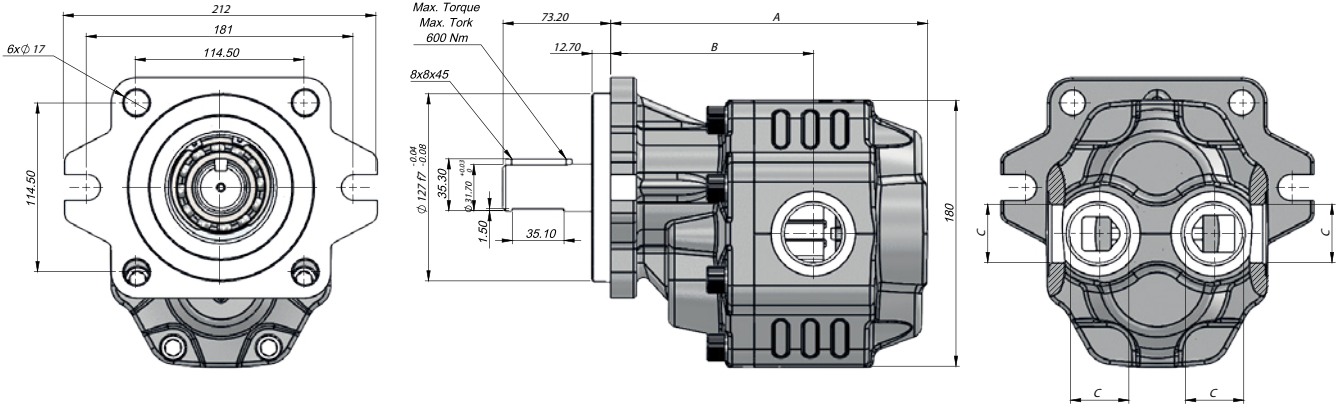
Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basıncı Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
G40063CF1035	63	290	300	1800	198	127,5	G1"	C
G40073CF1035	73	280			202	127,5		
G40087CF1035	87	260			207	133		
G40109CF1035	109	250		1500	G1 1/4"	215	137,5	C
G40116CF1035	116	240				215	137,5	
G40133CF1035	133	220				224	138,5	
G40151CF1035	151	180				230	141	

### TEKNİK VERİLER | TECHNICAL DATA

2+4 DELİKLİ SAE C KAMALI ÇİFT DÖNÜŞLÜ DİŞLİ POMPA | 2+4 HOLES SAE C KEYED BI-DIRECTIONAL GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu\text{m}$
≤200 bar	12	21/18	40 $\mu\text{m}$

GANI SERIES  
GEAR PUMP



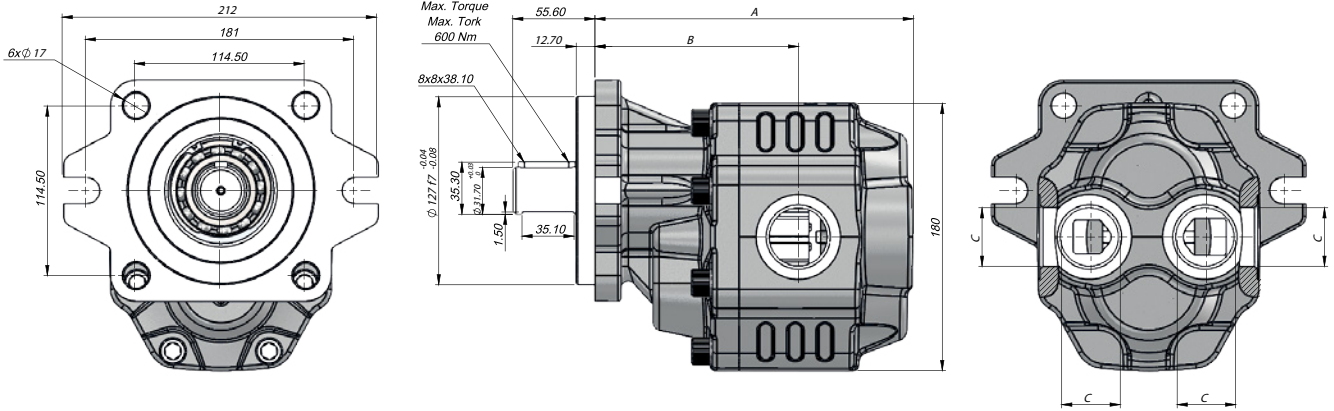
Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
G40063CK1035	63	290	300	1800	198	127,5	G1"	
G40073CK1035	73	280			202	127,5		
G40087CK1035	87	260			207	133		
G40109CK1035	109	250			215	137,5		
G40116CK1035	116	240		1500	215	137,5	G1 1/4"	
G40133CK1035	133	220			224	138,5		
G40151CK1035	151	180			230	141		

### TEKNİK VERİLER | TECHNICAL DATA

2+4 DELİKLİ SAE C KAMALI ÇİFT DÖNÜŞLÜ DİŞLİ POMPA | 2+4 HOLES SAE C KEYED BI-DIRECTIONAL GEAR PUMP

Giriş Basıncı   Inlet Pressure	0.3÷ 2 bar		
Çalışma Viskozite Seviyesi   Operating Viscosity Range	-12:100 cSt		
Sıvı Sıcaklığı   Fluid Temperature	-40 °C+145 °C		
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m

GANI SERIES  
GEAR PUMP

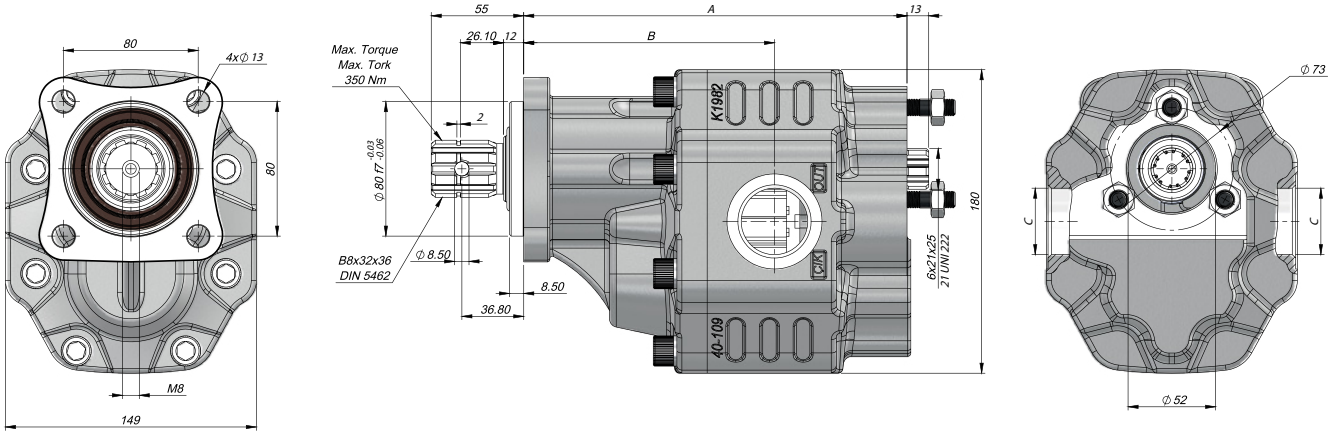


Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
G40063CK1135	63	290	300	1800	198	127,5	G1"	C
G40073CK1135	73	280			202	127,5		
G40087CK1135	87	260			207	133		
G40109CK1135	109	250			215	137,5		
G40116CK1135	116	240		1500	215	137,5	G1 1/4"	C
G40133CK1135	133	220			224	138,5		
G40151CK1135	151	180			230	141		

### TEKNİK VERİLER | TECHNICAL DATA

#### 4 DELİKLİ ISO TANDEM DİŞLİ POMPA | 4 HOLES ISO TANDEM GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



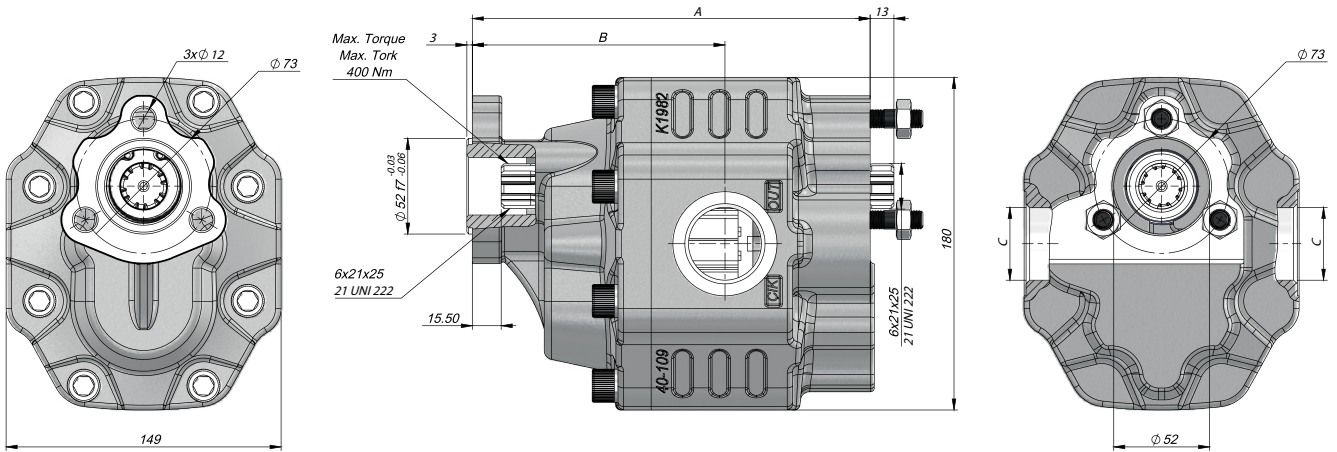
Kod Code			İletim Hacmi Displacement (cm <sup>3</sup> /rev)	Maks.Sürekli Basıncı Max.Continuous Pressure (100%)(BAR)	Min. Hız Min.Speed (RPM)	Maks.Sürekli Hız Max.Continuous Speed (RPM)	A (mm)	B (mm)	Giriş Inlet C	Çıkış Outlet D
Sol / Left	Sağ / Right	BD								
GT40063SF111	GT40063SF121	GT40063SF131	63	290	300	1800	211	139	G1"	G3/4"
GT40073SF111	GT40073SF121	GT40073SF131	73	280			215	139	G1 1/4"	
GT40087SF111	GT40087SF121	GT40087SF131	87	260			220	143		G1"
GT40109SF111	GT40109SF121	GT40109SF131	109	250			228	149	G1 1/2"	
GT40133SF111	GT40133SF121	GT40133SF131	133	220			237	150		
GT40151SF111	GT40151SF121	GT40151SF131	151	180			243	152,5		

\*The values in the table refer to unidirectional pumps. Reversible pump max pressures are 10% lower than those shown in table.  
For different working conditions please consult our sales department.

**3 DELİKLİ UNI TANDEM DİŞLİ POMPA | 3 HOLES UNI TANDEM GEAR PUMP**

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m

GANI SERIES  
GEAR PUMP



Kod Code			İletim Hacmi Displacement (cm <sup>3</sup> /rev)	Maks.Sürekli Basınç Max.Continuous Pressure (100%)(BAR)	Min. Hız Min.Speed (RPM)	Maks.Sürekli Hız Max.Continuous Speed (RPM)	A (mm)	B (mm)	Giriş Inlet C	Çıkış Outlet D
Sol / Left	Sağ / Right	BD								
GT40063UF411	GT40063UF421	GT40063UF431	63	290	300	1800	199	127	G1"	G3/4"
GT40073UF411	GT40073UF421	GT40073UF431	73	280			203	127	G1 1/4"	
GT40087UF411	GT40087UF421	GT40087UF431	87	260			208	131		G1 1/2"
GT40109UF411	GT40109UF421	GT40109UF431	109	250			216	137		
GT40133UF411	GT40133UF421	GT40133UF431	133	220			225	138		
GT40151UF411	GT40151UF421	GT40151UF431	151	180			231	140,5		

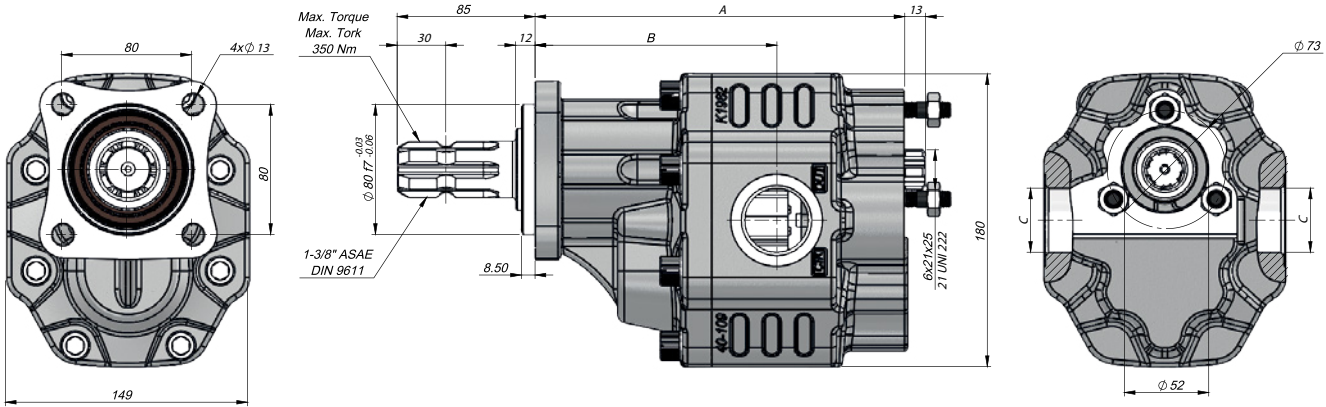
\*The values in the table refer to unidirectional pumps. Reversible pump max pressures are 10% lower than those shown in table. For different working conditions please consult our sales department.



### TEKNİK VERİLER | TECHNICAL DATA

#### 4 DELİKLİ ASAE-S TANDEM DİŞLİ POMPA | 4 HOLES ASAE-S TANDEM GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



Kod Code			İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
Sol / Left	Sağ / Right	BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	D
GT40063SF211	GT40063SF221	GT40063SF231	63	290	300	1800	211	139	G1"	G3/4"
GT40073SF211	GT40073SF221	GT40073SF231	73	280			215	139		
GT40087SF211	GT40087SF221	GT40087SF231	87	260			220	143	G1 1/4"	
GT40109SF211	GT40109SF221	GT40109SF231	109	250			228	149		
GT40133SF211	GT40133SF221	GT40133SF231	133	220			237	150	G1 1/2"	
GT40151SF211	GT40151SF221	GT40151SF231	151	180			243	152,5		

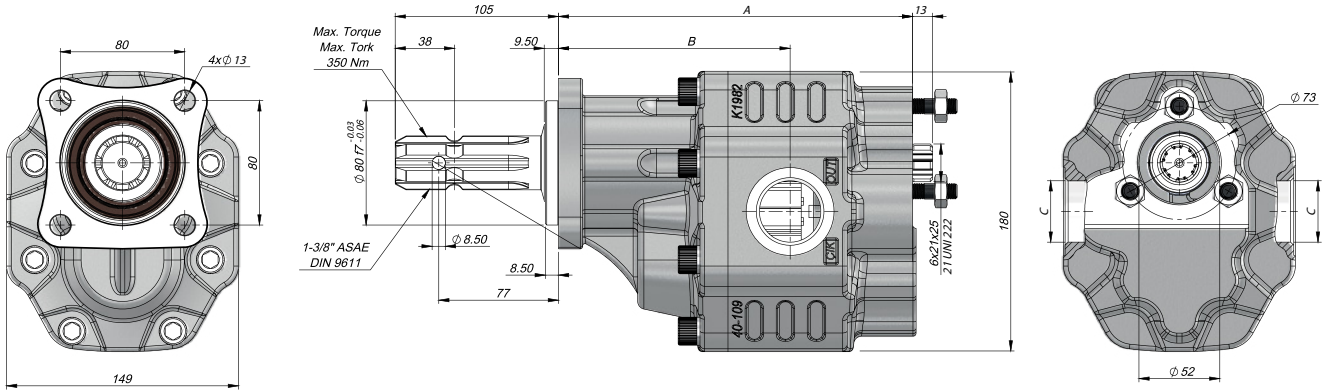
\*The values in the table refer to unidirectional pumps. Reversible pump max pressures are 10% lower than those shown in table. For different working conditions please consult our sales department.

### TEKNİK VERİLER | TECHNICAL DATA

#### 4 DELİKLİ ASAE-L TANDEM DİŞLİ POMPA | 4 HOLES ASAE-L TANDEM GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	βx=75
≥200 bar	11	20/17	25 μm
≤200 bar	12	21/18	40 μm

GANI SERIES  
GEAR PUMP



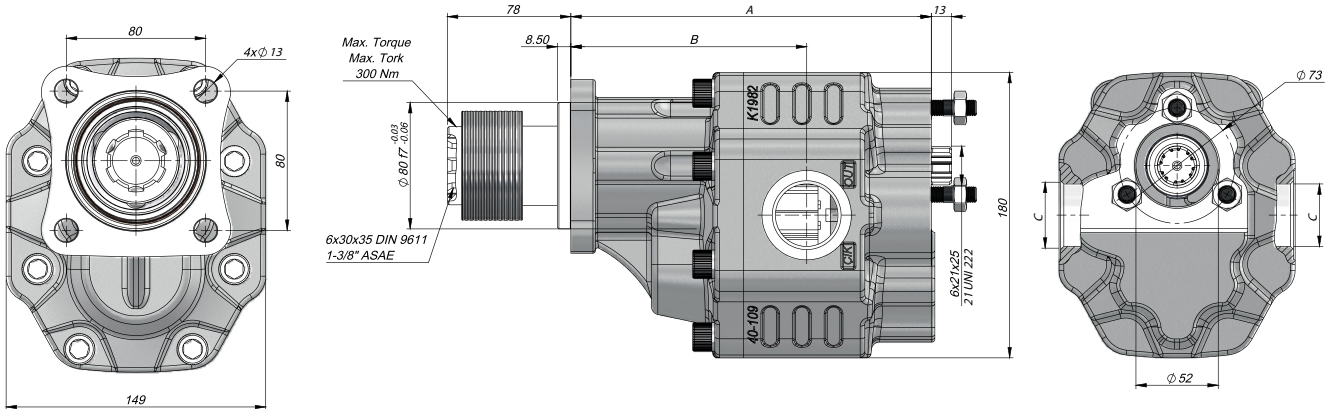
Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
Sol / Left	Sağ / Right	BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(mm)	(mm)	C	D
GT40063SF811	GT40063SF821	GT40063SF831	63	290	300	211	139	G1"	G3/4"
GT40073SF811	GT40073SF821	GT40073SF831	73	280		215	139	G1 1/4"	
GT40087SF811	GT40087SF821	GT40087SF831	87	260		220	143		G1 1/2"
GT40109SF811	GT40109SF821	GT40109SF831	109	250		228	149	G1"	
GT40133SF811	GT40133SF821	GT40133SF831	133	220		237	150		G1 1/2"
GT40151SF811	GT40151SF821	GT40151SF831	151	180		243	152,5		

\*The values in the table refer to unidirectional pumps. Reversible pump max pressures are 10% lower than those shown in table. For different working conditions please consult our sales department.

### TEKNİK VERİLER | TECHNICAL DATA

#### 4 DELİKLİ TRC TANDEM DİŞLİ POMPA | 4 HOLES TRC TANDEM GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



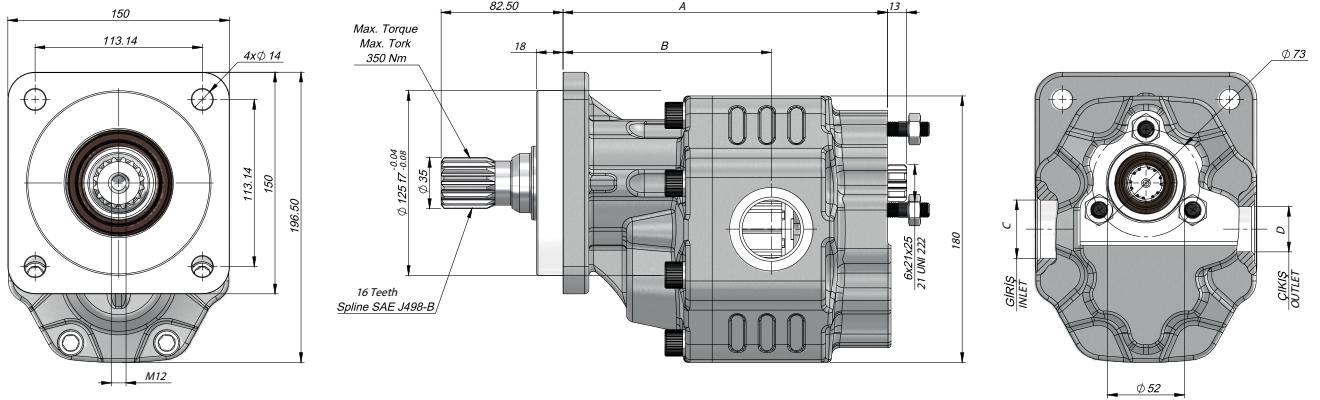
Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
Sol / Left	Sağ / Right	BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(mm)	(mm)	C	D
GT40063SF311	GT40063SF321	GT40063SF331	63	290	300	211	139	G1"	G3/4"
GT40073SF311	GT40073SF321	GT40073SF331	73	280		215	139	G1 1/4"	
GT40087SF311	GT40087SF321	GT40087SF331	87	260		220	143		G1"
GT40109SF311	GT40109SF321	GT40109SF331	109	250		228	149	G1 1/2"	
GT40133SF311	GT40133SF321	GT40133SF331	133	220		237	150		
GT40151SF311	GT40151SF321	GT40151SF331	151	180		243	152,5		

\*The values in the table refer to unidirectional pumps. Reversible pump max pressures are 10% lower than those shown in table. For different working conditions please consult our sales department.

**4 DELİKLİ SAE C 16 DİŞ TANDEM DİŞLİ POMPA | 4 HOLES SAE C 16 TEETH TANDEM GEAR PUMP**

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m

GANI SERIES GEAR PUMP



Kod Code		İletim Hacmi Displacement (cm <sup>3</sup> /rev)	Maks.Sürekli Basınç Max.Continuous Pressure (100%)(BAR)	Min. Hız Min.Speed (RPM)	Maks.Sürekli Hız Max.Continuous Speed (RPM)	A (mm)	B (mm)	Giriş Inlet C	Çıkış Outlet D	
Sol / Left	Sağ / Right									BD
GT40063RF911	GT40063RF921	GT40063RF931	63	290	300	1800	203	131	G1"	G3/4"
GT40073RF911	GT40073RF921	GT40073RF931	73	280			207	131	G1 1/4"	
GT40087RF911	GT40087RF921	GT40087RF931	87	260			212	135		G1"
GT40109RF911	GT40109RF921	GT40109RF931	109	250			220	141	G1 1/2"	
GT40133RF911	GT40133RF921	GT40133RF931	133	220			229	142		
GT40151RF911	GT40151RF921	GT40151RF931	151	180			235	144,5		

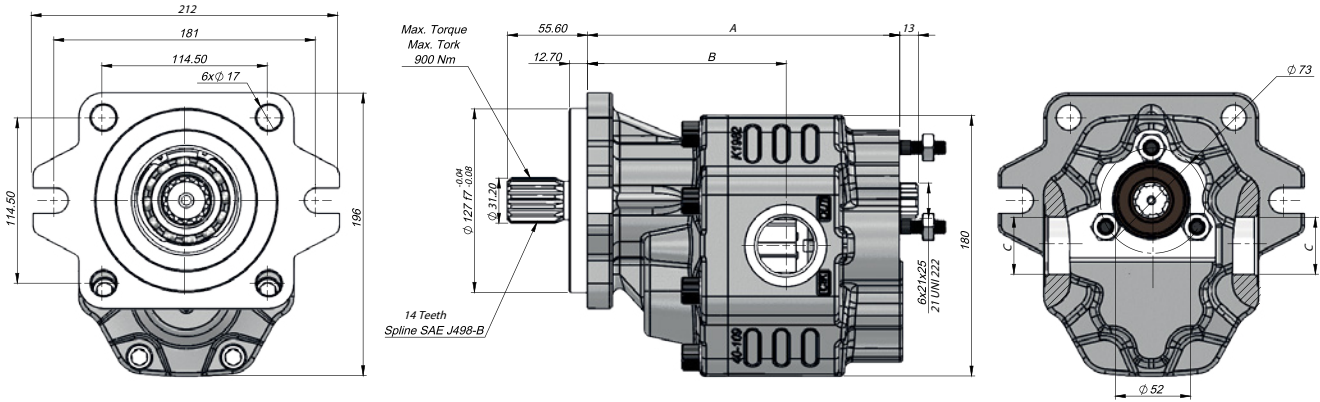
\*The values in the table refer to unidirectional pumps. Reversible pump max pressures are 10% lower than those shown in table. For different working conditions please consult our sales department.

### TEKNİK VERİLER | TECHNICAL DATA

2+4 DELİKLİ SAE C 14 DİŞ TANDEM DİŞLİ POMPA | 2+4 HOLES SAE C 14 TEETH TANDEM GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m

GANI SERIES  
GEAR PUMP



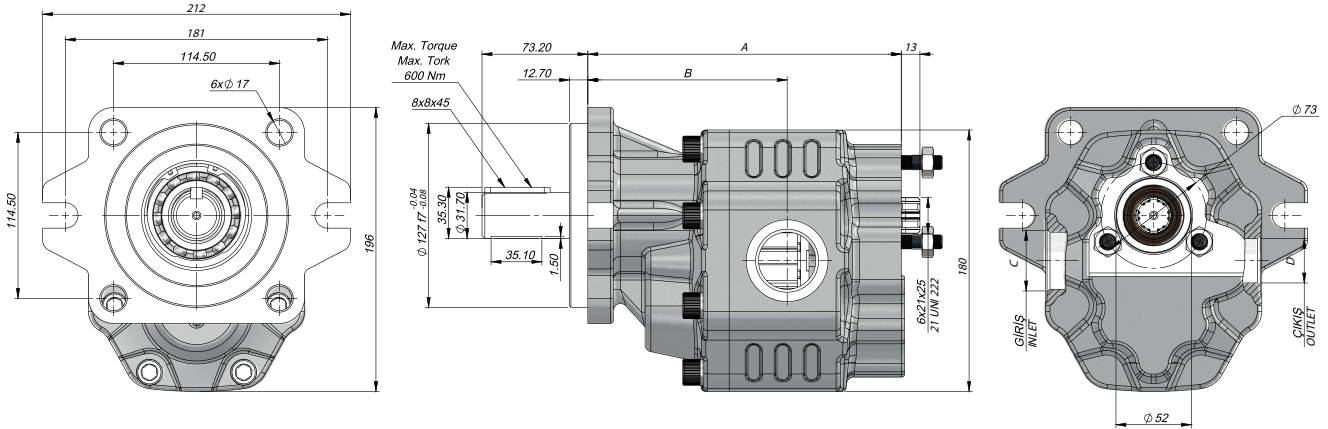
Kod Code			İletim Hacmi Displacement (cm <sup>3</sup> /rev)	Maks.Sürekli Basınç Max.Continuous Pressure (100%)(BAR)	Min. Hız Min.Speed (RPM)	Maks.Sürekli Hız Max.Continuous Speed (RPM)	A (mm)	B (mm)	Giriş Inlet C	Çıkış Outlet D
Sol / Left	Sağ / Right	BD								
GT40063CF1011	GT40063CF1021	GT40063CF1031	63	290	300	1800	199	127,5	G1"	G3/4"
GT40073CF1011	GT40073CF1021	GT40073CF1031	73	280			203	127,5		
GT40087CF1011	GT40087CF1021	GT40087CF1031	87	260			208	131,5	G1 1/4"	
GT40109CF1011	GT40109CF1021	GT40109CF1031	109	250			216	137,5		
GT40133CF1011	GT40133CF1021	GT40133CF1031	133	220			225	138,5	G1 1/2"	
GT40151CF1011	GT40151CF1021	GT40151CF1031	151	180			231	141		

\*The values in the table refer to unidirectional pumps. Reversible pump max pressures are 10% lower than those shown in table.  
For different working conditions please consult our sales department.

**2+4 DELİKLİ SAE C KAMALI TANDEM DİŞLİ POMPA | 2+4 HOLES SAE C KEYED TANDEM GEAR PUMP**

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m

GANI SERIES GEAR PUMP

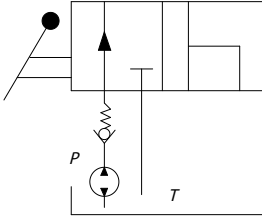
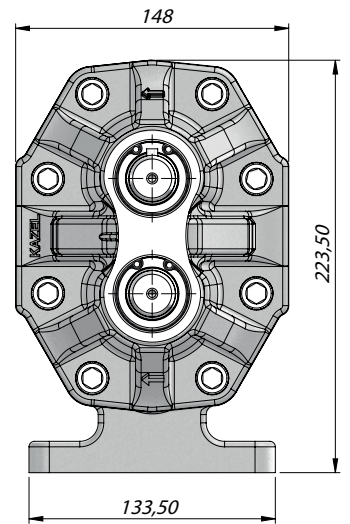
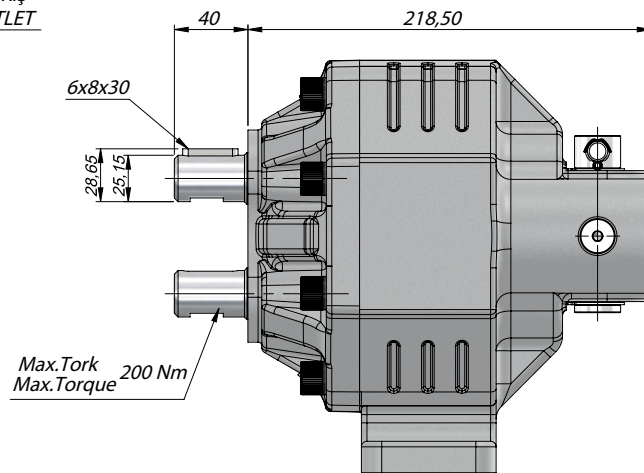
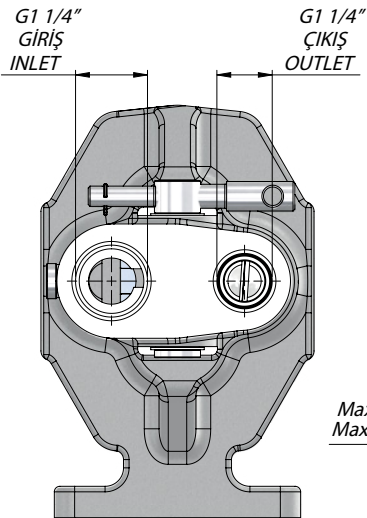
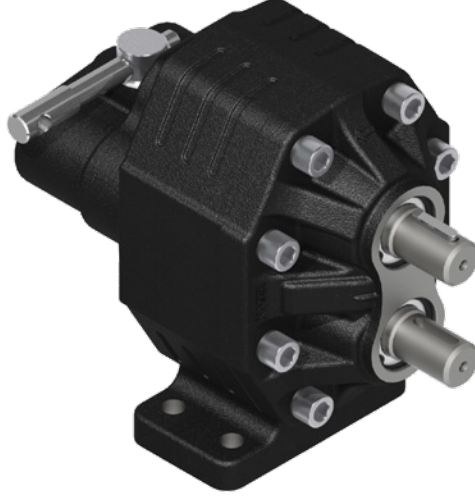


Kod Code			İletim Hacmi Displacement (cm <sup>3</sup> /rev)	Maks.Sürekli Basınc Max.Continuous Pressure (100%)(BAR)	Min. Hız Min.Speed (RPM)	Maks.Sürekli Hız Max.Continuous Speed (RPM)	A (mm)	B (mm)	Giriş Inlet C	Çıkış Outlet D
Sol / Left	Sağ / Right	BD								
GT40063CK1011	GT40063CK1021	GT40063CK1031	63	290	300	1800	198	127,5	G1"	G3/4"
GT40073CK1011	GT40073CK1021	GT40073CK1031	73	280			202	127,5		
GT40087CK1011	GT40087CK1021	GT40087CK1031	87	260			207	133	G1 1/4"	
GT40109CK1011	GT40109CK1021	GT40109CK1031	109	250			215	137,5		
GT40151CK1011	GT40151CK1021	GT40151CK1031	133	220			224	138,5	G1 1/2"	
GT40151CK1015	GT40151CK1025	GT40151CK1035	151	180			230	141		

\*The values in the table refer to unidirectional pumps. Reversible pump max pressures are 10% lower than those shown in table. For different working conditions please consult our sales department.

## TEKNİK VERİLER | TECHNICAL DATA

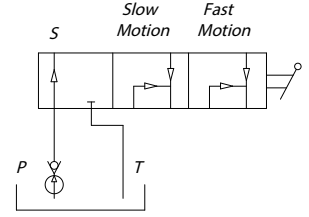
ÇİFT YÖNLÜ MEKANİK VALFLİ DİŞLİ POMPA | BI-DIRECTIONAL SERIES GEAR PUMP WITH MECHANICAL VALVE

HİDROLİK SEMBOL  
HYDRAULIC SYMBOL

Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed
	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)
G40109VK73MVA	108.90	240	300	1800

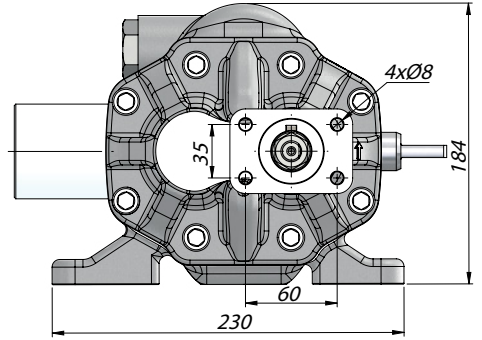
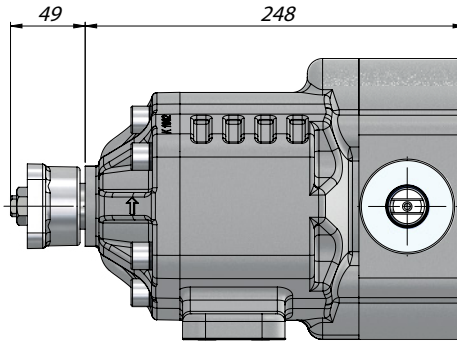
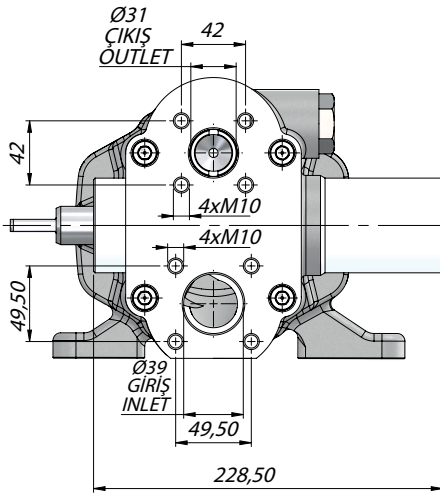
### TEKNİK VERİLER | TECHNICAL DATA

TEK YÖNLÜ MEKANİK VALFLİ DİŞLİ POMPA | SINGLE ROTATION GEAR PUMP WITH MECHANICAL VALVE



HİDROLİK SEMBOL  
HYDRAULIC SYMBOL

GANI SERIES  
GEAR PUMP



Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed
	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)
G40133VK6(1)MVA	132,95	230	300	1500
G40133VK6(2)MVA				

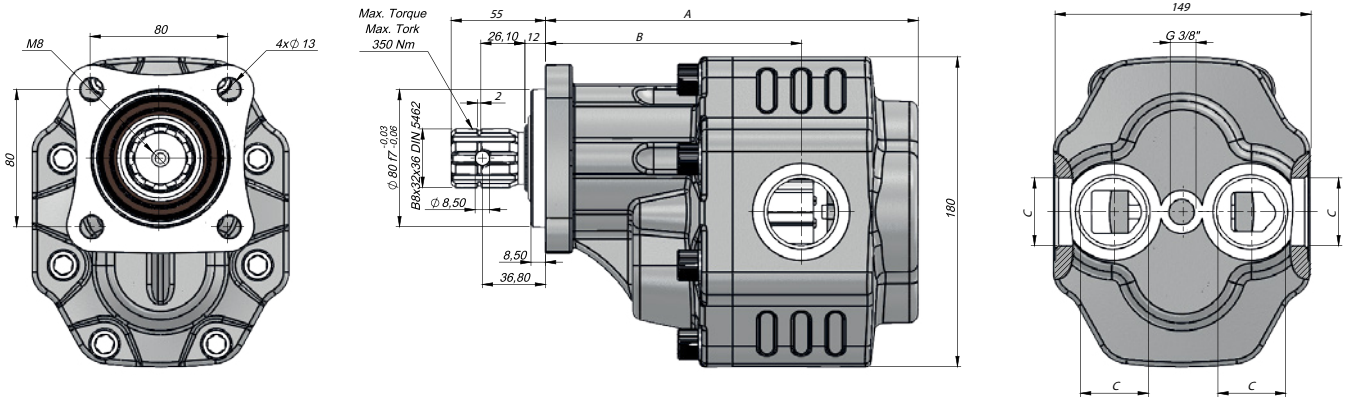
(1) Sol-Left  
(2) Sağ-Right



### TEKNİK VERİLER | TECHNICAL DATA

#### 4 DELİKLİ ISO DİŞLİ MOTOR | 4 HOLES ISO GEAR MOTOR

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
	$\geq 200$ bar	11	20/17
$\leq 200$ bar	12	21/18	25 $\mu\text{m}$
			40 $\mu\text{m}$



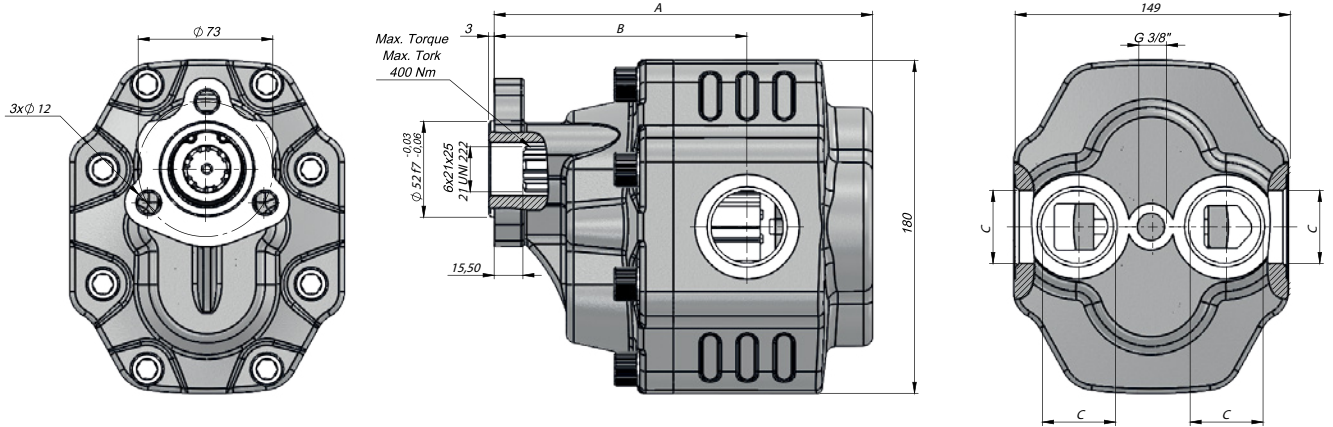
Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basıncı Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
GM40063SF135	63	290	300	1800	200	139	G1"	C
GM40073SF135	73	280			204	139		
GM40087SF135	87	260			209	144		
GM40109SF135	109	250		1500	G1 1/4"	217	149	C
GM40116SF135	116	240				217	149	
GM40133SF135	133	220				226	150	
GM40151SF135	151	180				232	153	

### TEKNİK VERİLER | TECHNICAL DATA

#### 3 DELİKLİ UNI DİŞLİ MOTOR | 3 HOLES UNI GEAR MOTOR

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
	≥200 bar	11	20/17
≤200 bar	12	21/18	40 $\mu$ m

GANI SERIES GEAR PUMP

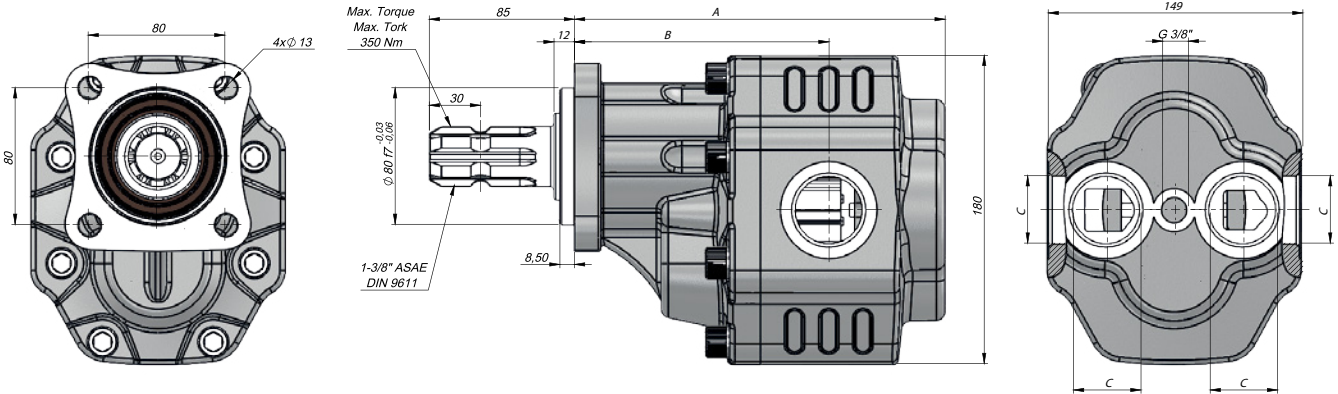


Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınc Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
GM40063UF435	63	290	300	1800	197,5	127	G1"	C
GM40073UF435	73	280			201,5	127		
GM40087UF435	87	260			206,5	132,25		
GM40109UF435	109	250		1500	G1 1/4"	214,5	137	C
GM40116UF435	116	240				214,5	137	
GM40133UF435	133	220				223,5	138	
GM40151UF435	151	180				229,5	140,5	

## TEKNİK VERİLER | TECHNICAL DATA

## 4 DELİKLİ ASAE-S DİŞLİ MOTOR | 4 HOLES ASAE-S GEAR MOTOR

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



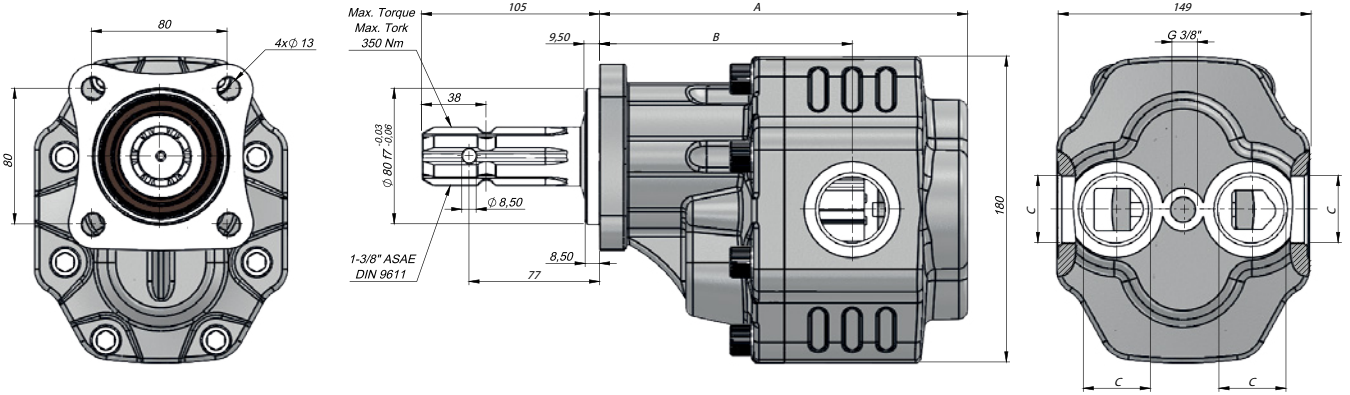
Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
GM40063SF235	63	290	300	1800	200	139	G1"	C
GM40073SF235	73	280			204	139		
GM40087SF235	87	260			209	144		
GM40109SF235	109	250		1500	G1 1/4"	217	149	C
GM40116SF235	116	240				217	149	
GM40133SF235	133	220				226	150	
GM40151SF235	151	180				232	153	

### TEKNİK VERİLER | TECHNICAL DATA

#### 4 DELİKLİ ASAE-L DİŞLİ MOTOR | 4 HOLES ASAE-L GEAR MOTOR

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m

GANI SERIES  
GEAR PUMP

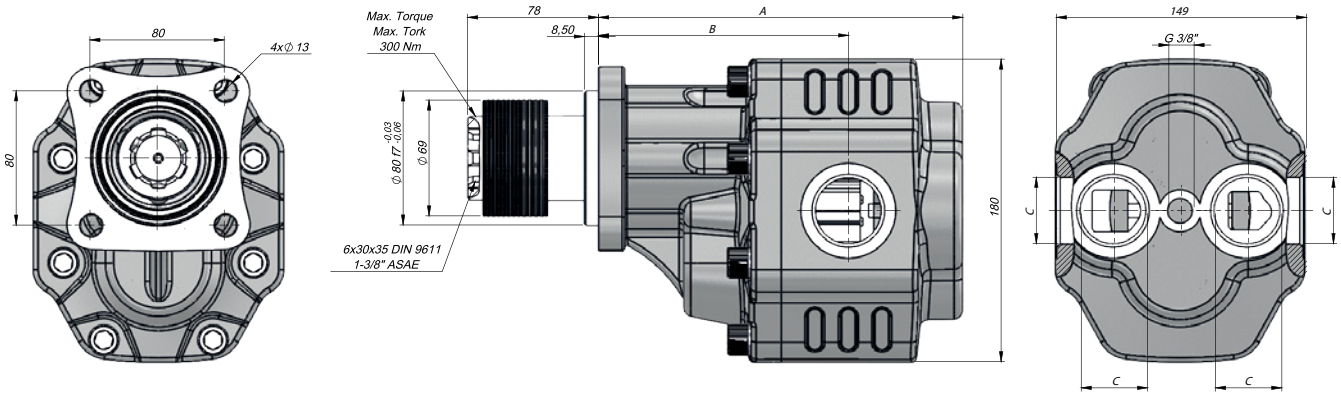


Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
GM40063SF835	63	290	300	1800	200	139	G1"	C
GM40073SF835	73	280			204	139		
GM40087SF835	87	260			209	144		
GM40109SF835	109	250		1500	G1 1/4"	217	149	C
GM40116SF835	116	240				217	149	
GM40133SF835	133	220				226	150	
GM40151SF835	151	180				232	153	

### TEKNİK VERİLER | TECHNICAL DATA

#### 4 DELİKLİ TRC DİŞLİ MOTOR | 4 HOLES TRC GEAR MOTOR

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



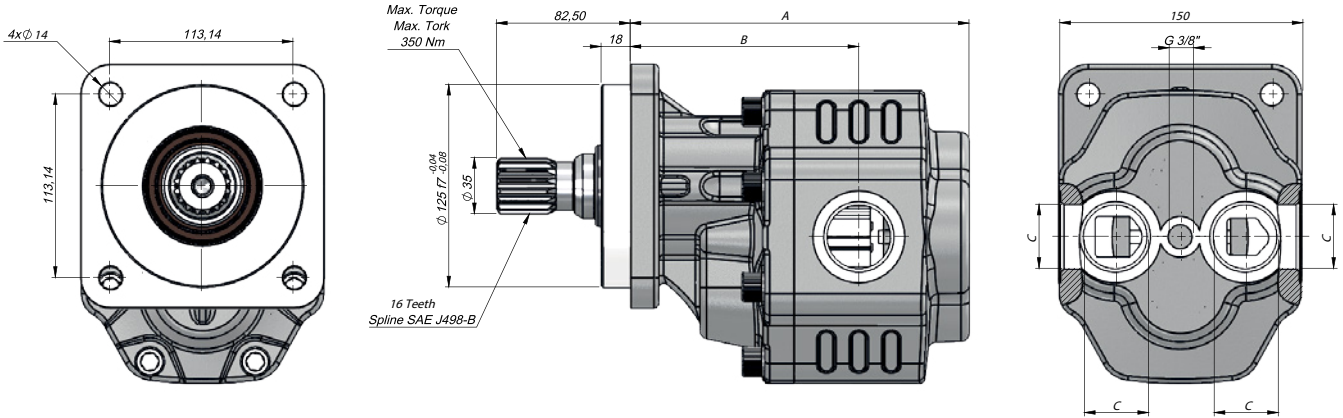
Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basıncı Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
GM40063SF335	63	290	300	1800	200	139	G1"	C
GM40073SF335	73	280			204	139		
GM40087SF335	87	260			209	144		
GM40109SF335	109	250		1500	G1 1/4"	217	149	C
GM40116SF335	116	240				217	149	
GM40133SF335	133	220				226	150	
GM40151SF335	151	180				232	153	

### TEKNİK VERİLER | TECHNICAL DATA

#### 4 DELİKLİ SAE C 16 DİŞ DİŞLİ MOTOR | 4 HOLES SAE C 16 TEETH GEAR MOTOR

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m

GANI SERIES  
GEAR PUMP

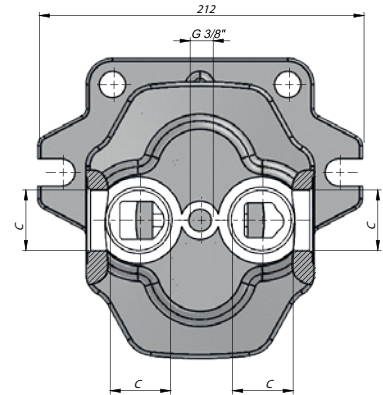
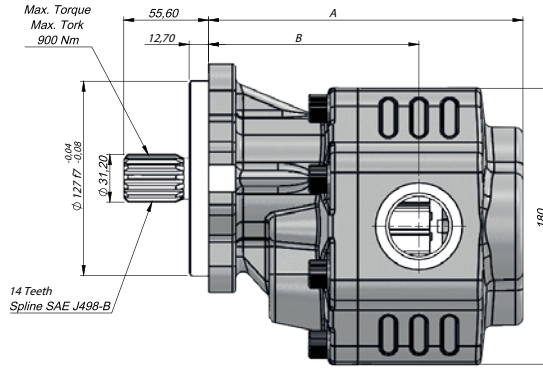
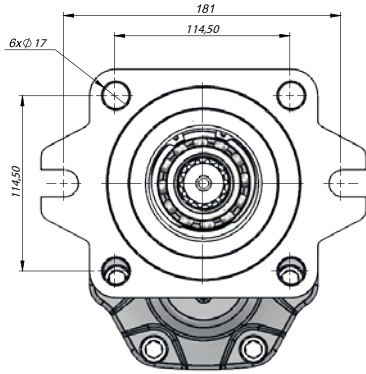


Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet	
Sol / Left	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C	
GM40063RF935	63	290	300	1800	201,5	131	G1"	C	
GM40073RF935	73	280			205,5	131			
GM40087RF935	87	260			210,5	136,25			
GM40109RF935	109	250		1500	G1 1/4"	218,5	141	C	C
GM40116RF935	116	240				218,5	141		
GM40133RF935	133	220				227,5	142		
GM40151RF935	151	180				233,5	144,5		

### TEKNİK VERİLER | TECHNICAL DATA

2+4 DELİKLİ SAE C 14 DİŞ DİŞLİ MOTOR | 2+4 HOLES SAE C 14 TEETH GEAR MOTOR

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
$\geq 200$ bar	11	20/17	25 $\mu\text{m}$
$\leq 200$ bar	12	21/18	40 $\mu\text{m}$



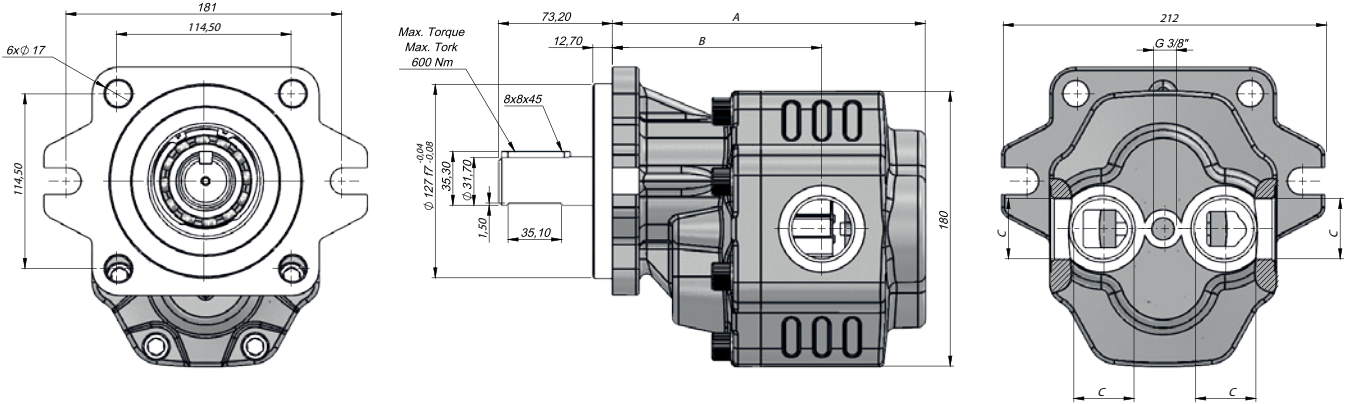
Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet	
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C	
GM40063CF1035	63	290	300	1800	188,5	127,5	G1"		
GM40073CF1035	73	280			192,5	127,5			
GM40087CF1035	87	260			197,5	131,5			
GM40109CF1035	109	250		1500	G1 1/4"	205,5	137,5		
GM40116CF1035	116	240				205,5	137,5		
GM40133CF1035	133	220				214,5	138,5		
GM40151CF1035	151	180				220,5	141		

### TEKNİK VERİLER | TECHNICAL DATA

2+4 DELİKLİ SAE C KAMALI DİŞLİ MOTOR | 2+4 HOLES SAE C KEYED GEAR MOTOR

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m

GANI SERIES  
GEAR PUMP



Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
GM40063CK1035	63	290	300	1800	188,5	127,5	G1"	C
GM40073CK1035	73	280			192,5	127,5		
GM40087CK1035	87	260			197,5	131,5		
GM40109CK1035	109	250		1500	205,5	137,5	G1 1/4"	C
GM40116CK1035	116	240			205,5	137,5		
GM40133CK1035	133	220			214,5	138,5		
GM40151CK1035	151	180			220,5	141		

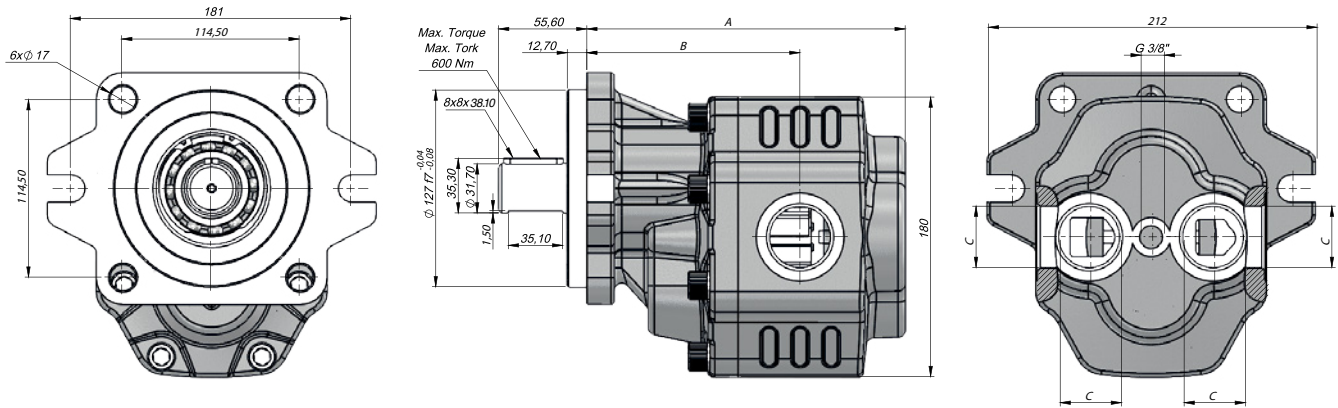


### TEKNİK VERİLER | TECHNICAL DATA

2+4 DELİKLİ SAE C KAMALI DİŞLİ MOTOR | 2+4 HOLES SAE C KEYED GEAR MOTOR

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m

GANI SERIES  
GEAR PUMP



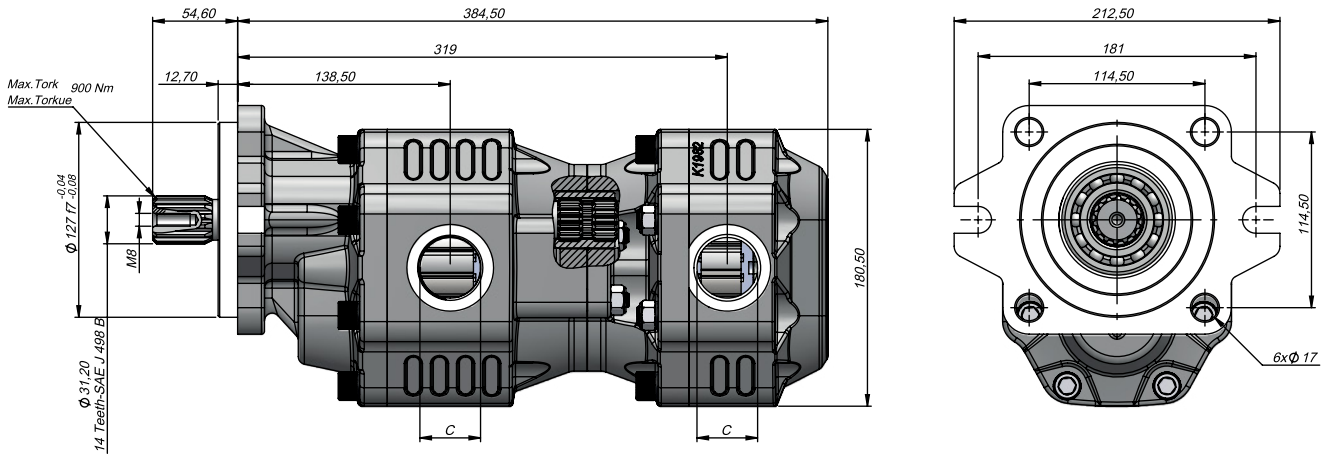
Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	B	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	C	C
GM40063CK1135	63	290	300	1800	188,5	127,5	G1"	C
GM40073CK1135	73	280			192,5	127,5		
GM40087CK1135	87	260			197,5	131,5		
GM40109CK1135	109	250		1500	205,5	137,5	G1 1/4"	C
GM40116CK1135	116	240			205,5	137,5		
GM40133CK1135	133	220			214,5	138,5		
GM40151CK1135	151	180			220,5	141		

### TEKNİK VERİLER | TECHNICAL DATA

2+4 DELİKLİ SAE C 14 DİŞ TANDEM DİŞLİ MOTOR | 2+4 HOLES SAE C 14 TEETH TANDEM GEAR MOTOR

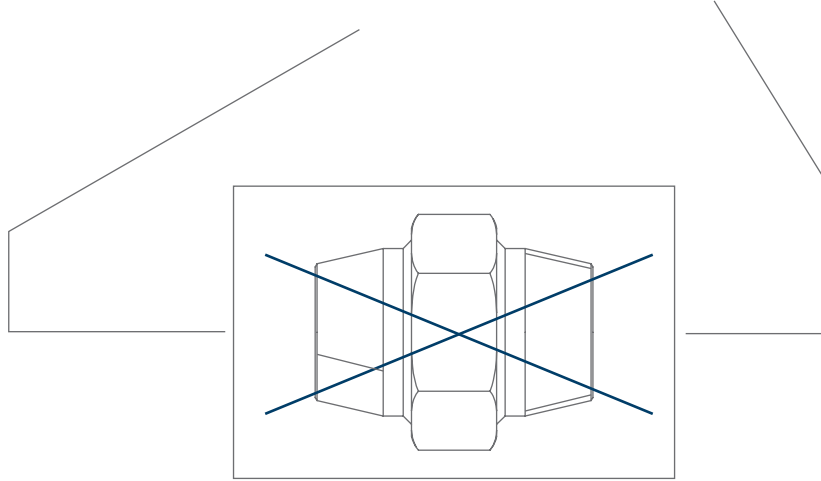
Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m

GANI SERIES  
GEAR PUMP

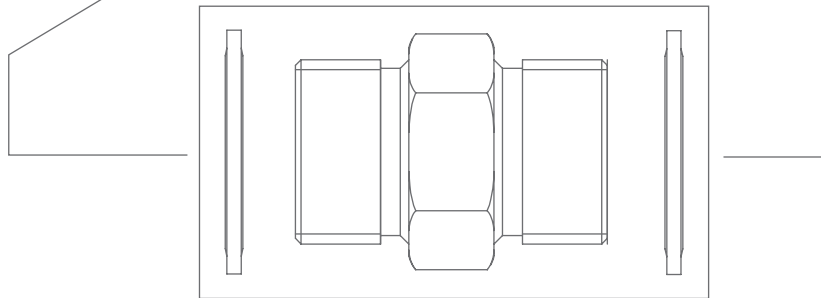
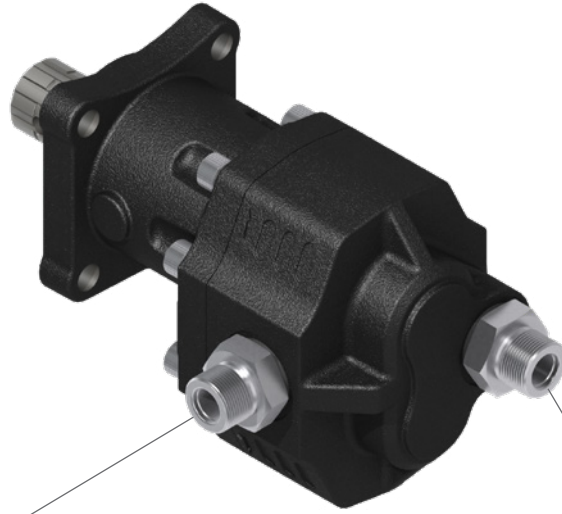


Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basıncı Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	Giriş Inlet	Çıkış Outlet
BD	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	C	C
GT40133CF10334073	132,95	230	300	1500	G1 1/4"	
	73,10	275		1800		

**RAKOR BAĞLANTISI | FITTING CONNECTION**



**YANLIŞ/WRONG**



**DOĞRU/CORRECT**

# KAZEL<sup>®</sup>

## AKSA-NEVİ-AKVA GEAR PUMP

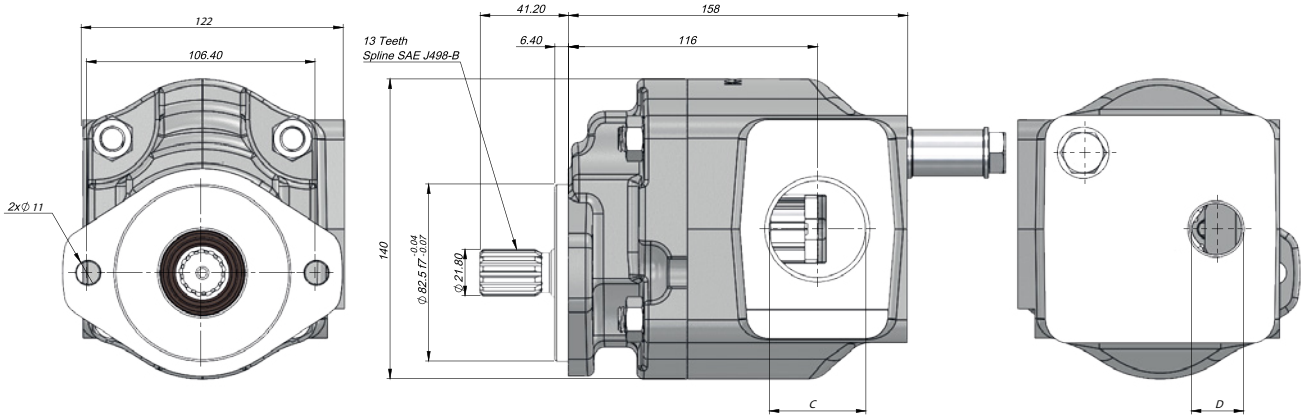
1600-1900-2200  
SERIES



## TEKNİK VERİLER | TECHNICAL DATA

## 2 DELİKLİ SAE A DİŞLİ POMPA | 2 HOLES SAE A GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu\text{m}$
≤200 bar	12	21/18	40 $\mu\text{m}$

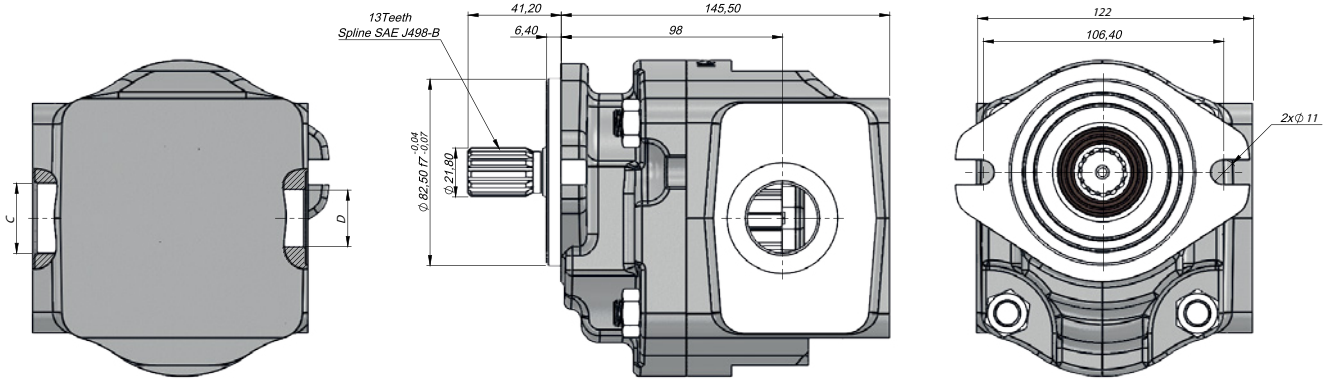


Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	Giriş Inlet	Çıkış Outlet
Sol/Left	Sağ/Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	C	D
G16044AF511	G16044AF521	44	220	500	3000	G1 1/2"	G3/4"

## TEKNİK VERİLER | TECHNICAL DATA

### 2 DELİKLİ SAE A DİŞLİ POMPA | 2 HOLES SAE A GEAR PUMP

Giriş Basıncı   Inlet Pressure	0.3÷ 2 bar		
Çalışma Viskozite Seviyesi   Operating Viscosity Range	-12:100 cSt		
Sıvı Sıcaklığı   Fluid Temperature	-40 °C+145 °C		
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
$\geq 200$ bar	11	20/17	25 $\mu\text{m}$
$\leq 200$ bar	12	21/18	40 $\mu\text{m}$

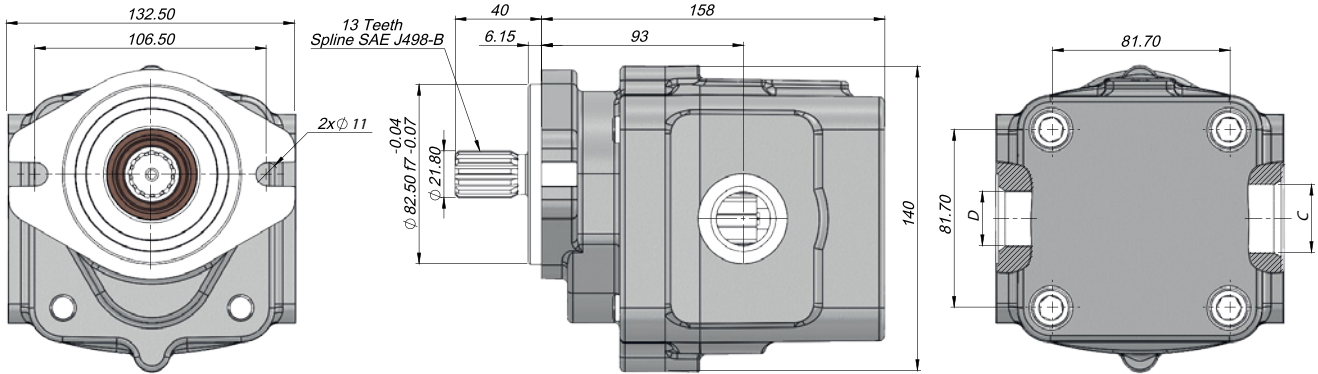


Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	Giriş Inlet	Çıkış Outlet
Sol/Left	Sağ/Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	C	D
G16031AF511	G16031AF521	31	275	500	3500	G1 1/2"	G1 3/4"

## TEKNİK VERİLER | TECHNICAL DATA

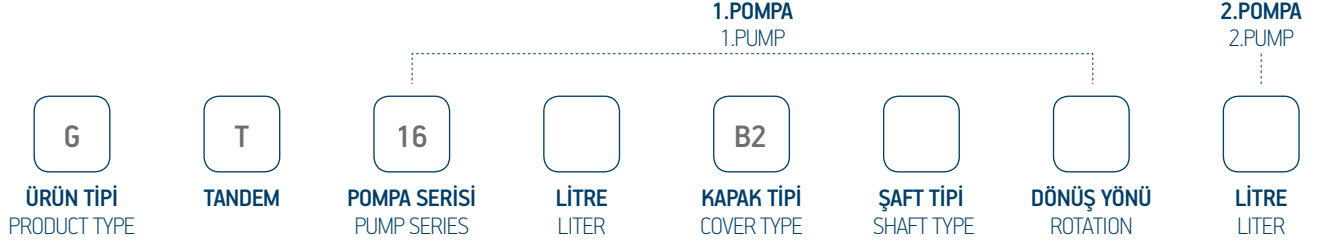
## 2 DELİKLİ SAE A DİŞLİ POMPA | 2 HOLES SAE A GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m








Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	Giriş Inlet	Çıkış Outlet	
Sol/Left	Sağ/Right	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	C	D
G16032AF511	G16032AF521	32	275	500	3500	1 5/6"	1 1/16"



## TANDEM POMPA KODLAMA SİSTEMİ | TANDEM PUMP CODING SYSTEM



23	23 cm <sup>3</sup> /rev
32	32 cm <sup>3</sup> /rev
36	36 cm <sup>3</sup> /rev
37	37 cm <sup>3</sup> /rev
41	41 cm <sup>3</sup> /rev

<b>B2</b>	<b>2 Delikli SEA B</b> 2 Holes SEA B	
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<b>F5</b>	<b>13 TEETH</b> SAE J498B	
<b>F6</b>	<b>15 TEETH</b> SAE J498B	
<b>K1</b>	<b>6.35x6.35x25.4</b> Kamalı Şaft Keyed Shaft	
<b>K2</b>	<b>4.79x4.76x32</b> Kamalı Şaft Keyed Shaft	
<b>K3</b>	<b>6.35x6.35x31.8</b> Kamalı Şaft Keyed Shaft	

<b>1</b>	<b>SOL</b> LEFT	
<b>2</b>	<b>SAĞ</b> RIGHT	

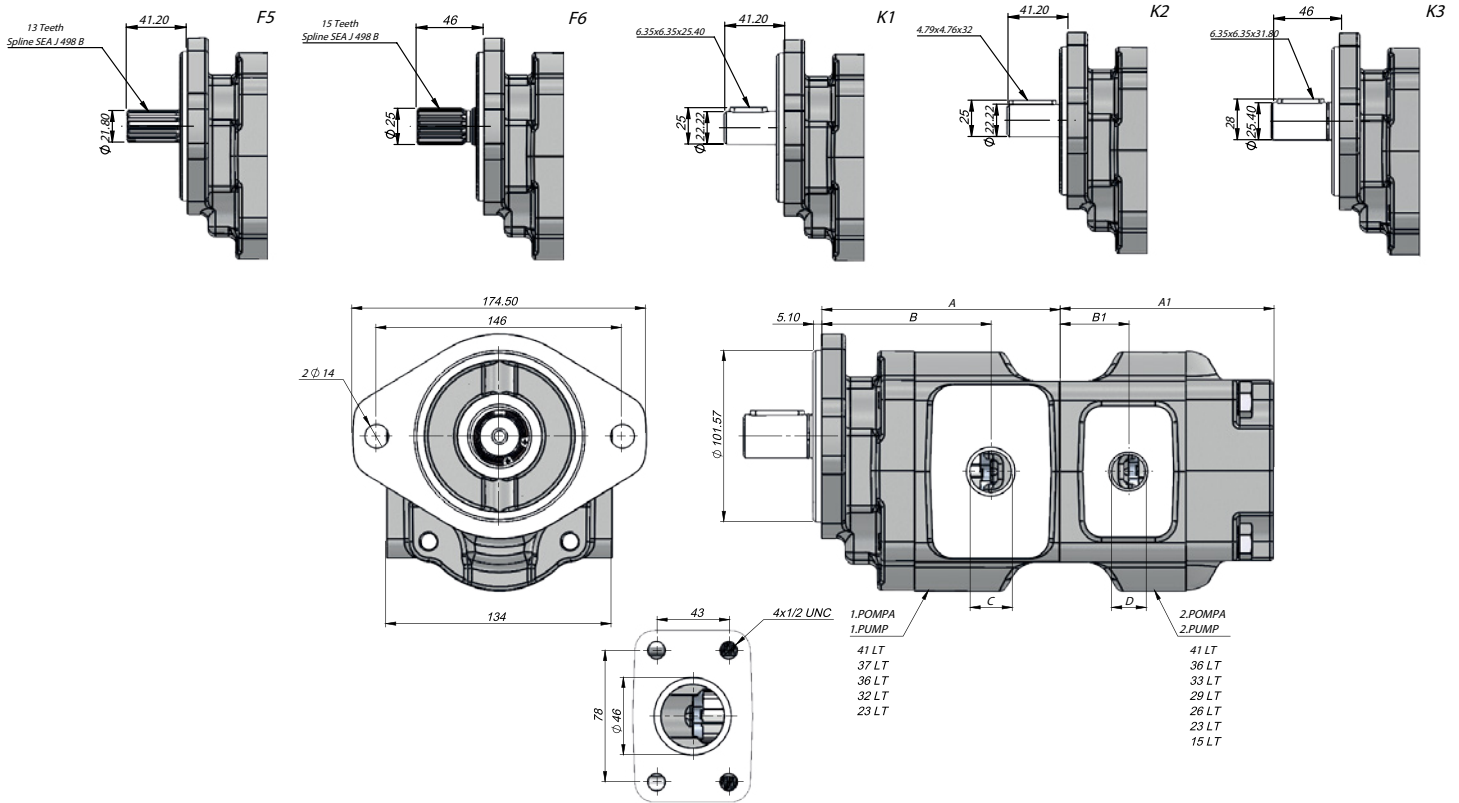
<b>15</b>	<b>15 cm<sup>3</sup>/rev</b>
<b>23</b>	<b>23 cm<sup>3</sup>/rev</b>
<b>26</b>	<b>26 cm<sup>3</sup>/rev</b>
<b>29</b>	<b>29 cm<sup>3</sup>/rev</b>
<b>32</b>	<b>32 cm<sup>3</sup>/rev</b>
<b>33</b>	<b>33 cm<sup>3</sup>/rev</b>
<b>36</b>	<b>36 cm<sup>3</sup>/rev</b>
<b>41</b>	<b>41 cm<sup>3</sup>/rev</b>



### TEKNİK VERİLER | TECHNICAL DATA

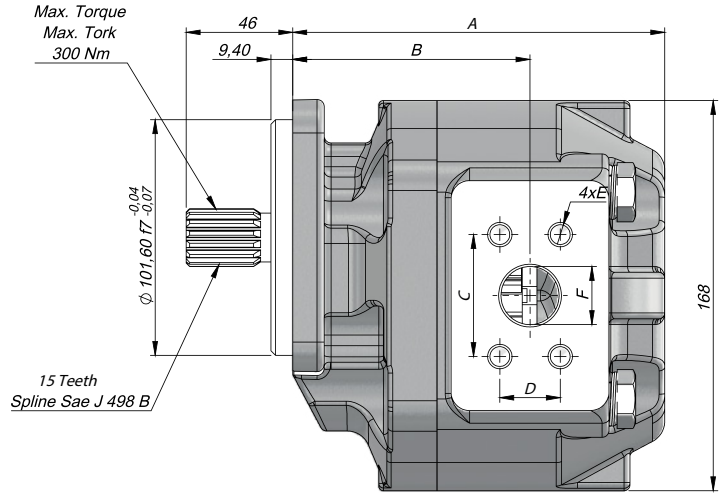
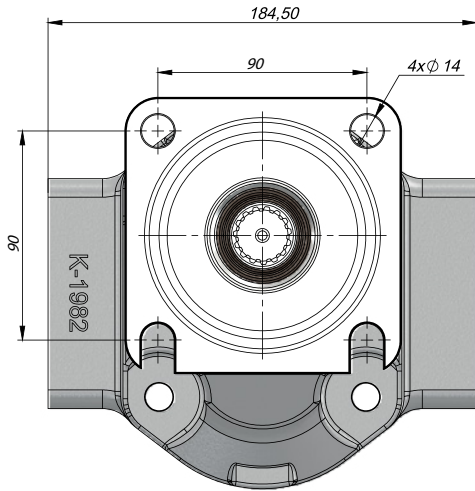
#### TEK YÖNLÜ TANDEM DİŞLİ POMPA | SINGLE ROTATION TANDEM GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
$\geq 200$ bar	11	20/17	25 $\mu\text{m}$
$\leq 200$ bar	12	21/18	40 $\mu\text{m}$

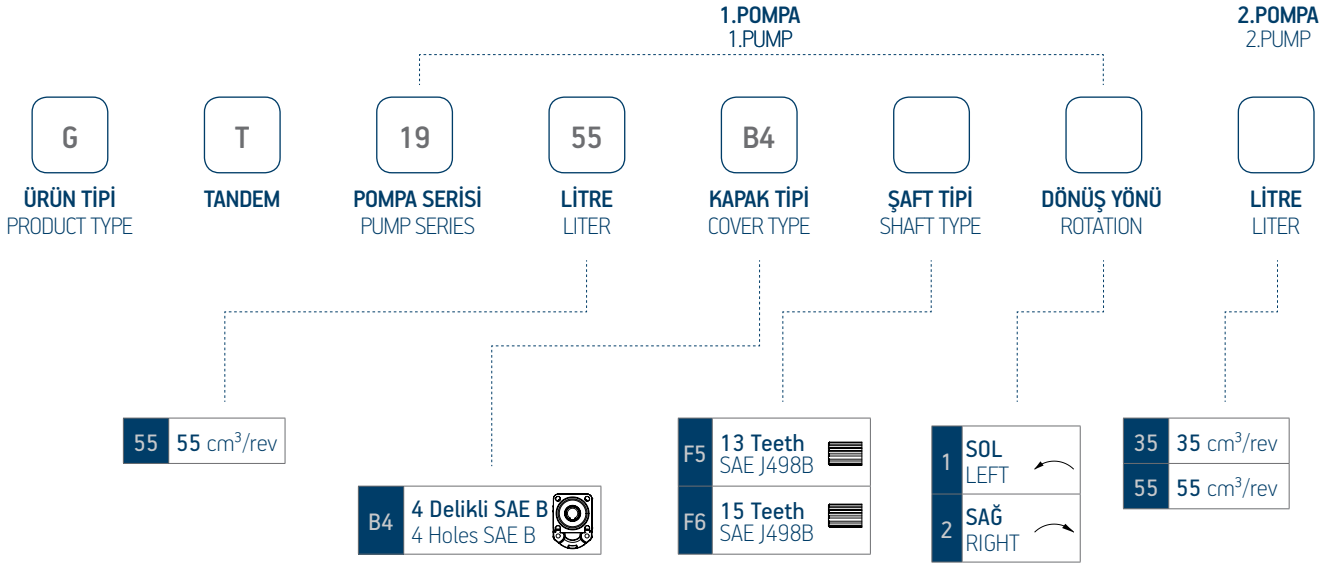


İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min. Speed	Maks.Sürekli Hız Max.Continuous Speed	1.Pompa First Pump		2.Pompa Second Pump		Çıkış Outlet	
				A	B	A1	B1	C	D
(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	mm	mm	mm	mm	UNF	UNF
41	220	500	3500	147,5	106	-	-	1 1/16"	-
37	250			143	102	-	-	1 1/16"	-
36	275			142	101	-	-	1 1/16"	-
33				-	-	187	94	-	7/8"
32				127	86	-	-	1 1/16"	-
29				-	-	130,5	89,5	-	7/8"
26				-	-	127	86	-	7/8"
23				-	-	124	83	-	7/8"
15				-	-	-	-	-	-

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
$\geq 200$ bar	11	20/17	25 $\mu\text{m}$
$\leq 200$ bar	12	21/18	40 $\mu\text{m}$



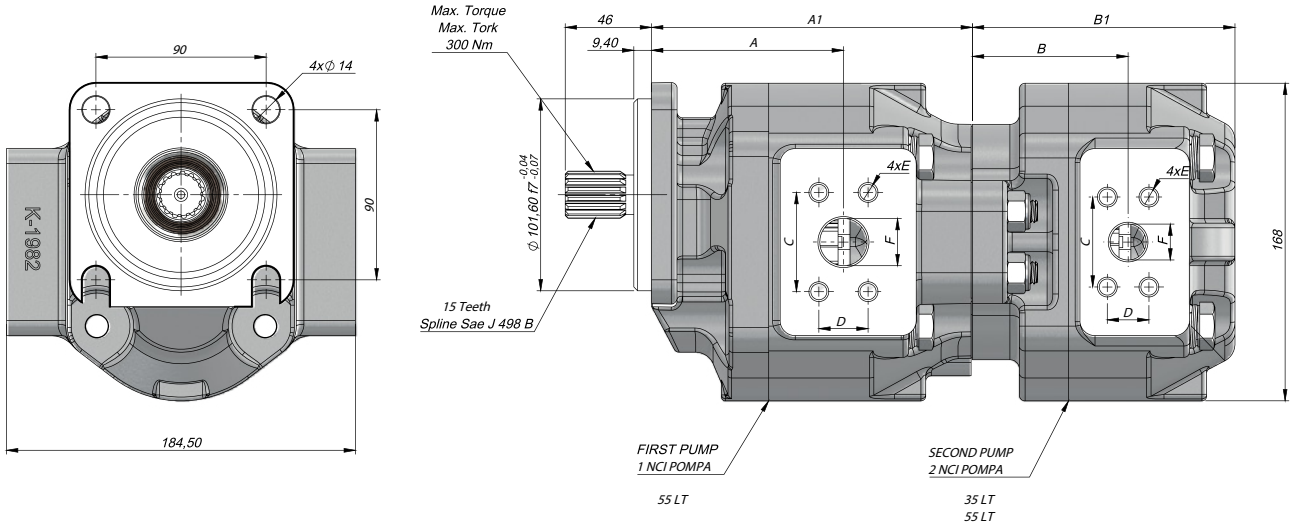
Kod Code		İletim Hacmi Displacement (cm <sup>3</sup> /rev)	Maks.Sürekli Basınç Max.Continuous Pressure (100%)(BAR)	Min. Hız Min. Speed (RPM)	Maks.Sürekli Hız Max.Continuous Speed (RPM)	Giriş Inlet						Çıkış Outlet			
Sol/Left	Sağ/Right					A	B	C	D	E	F	C	D	E	F
G1935B4F6112	G1935B4F6122	35	220	500	3000	150	93,50	52,50	26	M10	25	47,60	22	M10	19
G1955B4F6112	G1955B4F6122	55	250			160	102	59	30	M10	32	52,50	26	M10	25

TANDEM POMPA  
KODLAMA SİSTEMİ | TANDEM PUMP  
CODING SYSTEM

### TEKNİK VERİLER | TECHNICAL DATA

#### TEK YÖNLÜ TANDEM DİŞLİ POMPA | SINGLE ROTATION TANDEM GEAR PUMP

Giriş Basıncı   Inlet Pressure	0.3÷ 2 bar		
Çalışma Viskozite Seviyesi   Operating Viscosity Range	-12:100 cSt		
Sıvı Sıcaklığı   Fluid Temperature	-40 °C+145 °C		
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
$\geq 200$ bar	11	20/17	25 $\mu\text{m}$
$\leq 200$ bar	12	21/18	40 $\mu\text{m}$



Giriş Inlet	C	D	E	F
(cm <sup>3</sup> /rev)				
55 1. Pompa First Pump	70	36	M12	38
55 2. Pompa Second Pump	59	30	M10	32
35 2. Pompa Second Pump	52.50	26		25

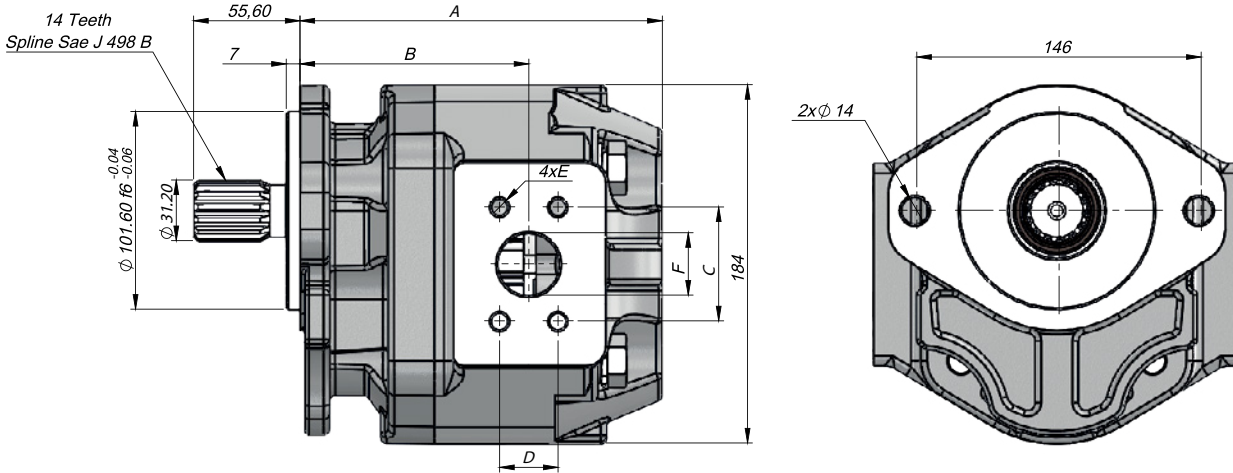
Çıkış Outlet	C	D	E	F
(cm <sup>3</sup> /rev)				
55 1. Pompa First Pump	52.50	26	M10	25
55 2. Pompa Second Pump				
35 2. Pompa Second Pump	47.60	22		19

İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	A	A1	B	B1
(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	(mm)	(mm)	(mm)	(mm)
35	240	500	3000	-	-	82.5	139
55	230			101.5	169	91	149

### TEKNİK VERİLER | TECHNICAL DATA

#### 2 DELİKLİ SAE B DİŞLİ POMPA | 2 HOLES SAE B GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m

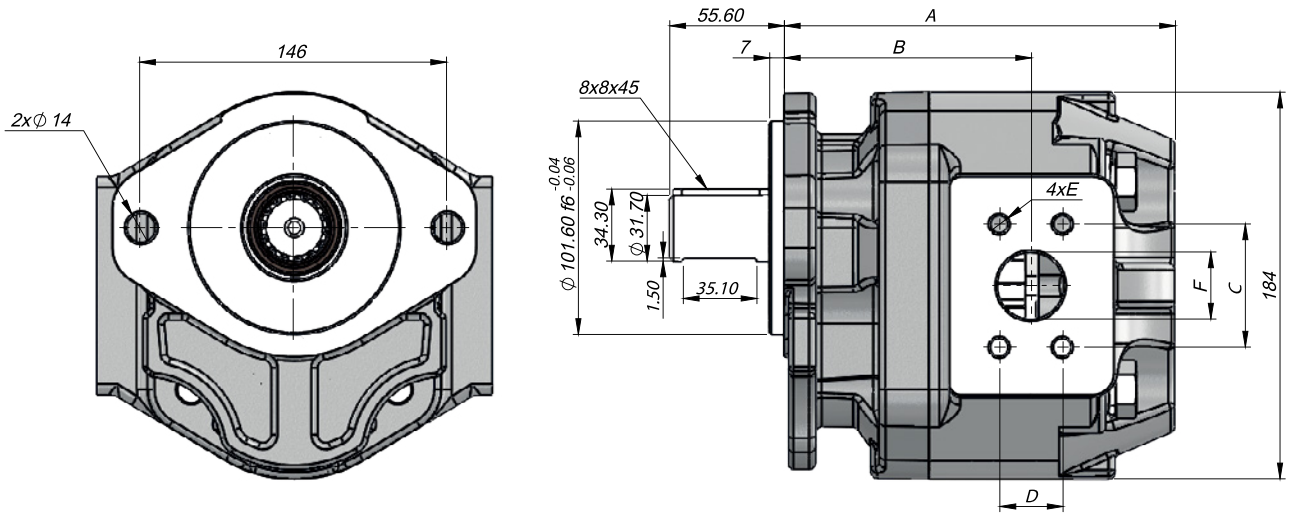


Kod Code		İletim Hacmi Displacement (cm <sup>3</sup> /rev)	Maks.Sürekli Basınç Max.Continuous Pressure (100%)(BAR)	Min. Hız Min. Speed (RPM)	Maks.Sürekli Hız Max.Continuous Speed (RPM)	Giriş Inlet						Çıkış Outlet			
Sol/Left	Sağ/Right					A	B	C	D	E	F	C	D	E	F
G22038B2F1012	G22038B2F1022	38	310	500	3000	169	102	52,50	26	M10	25,4	47,60	22	M10	19
G22055B2F1012	G22055B2F1022	55						70	36	M12	38				
G22058B2F1012	G22058B2F1022	58	290			180	111,5	78	43	51					
G22070B2F1012	G22070B2F1022	70	245												
G22085B2F1012	G22085B2F1022	85	200												
G22100B2F1012	G22100B2F1022	100	180												

## TEKNİK VERİLER | TECHNICAL DATA

### 2 DELİKLİ SAE B DİŞLİ POMPA | 2 HOLES SAE B GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 µm
≤200 bar	12	21/18	40 µm

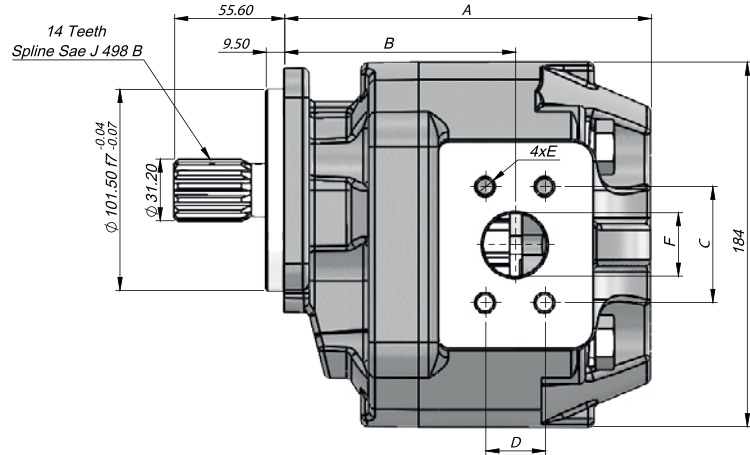
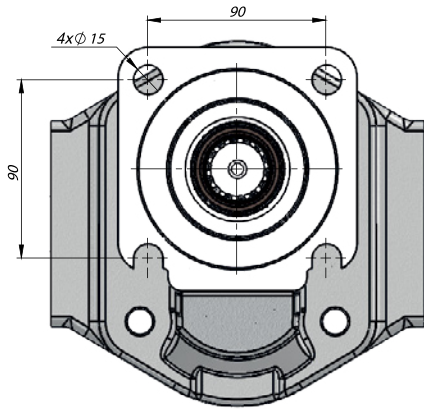


Kod Code		İletim Hacmi Displacement (cm <sup>3</sup> /rev)	Maks.Sürekli Basınç Max.Continuous Pressure (100%)(BAR)	Min. Hız Min. Speed (RPM)	Maks.Sürekli Hız Max.Continuous Speed (RPM)	Giriş Inlet						Çıkış Outlet			
Sol/Left	Sağ/Right					A	B	C	D	E	F	C	D	E	F
G22038B2K1312	G22038B2K1322	38	310	500	3000	169	102	52,50	26	M10	25.4	47,60	22	M10	19
G22055B2K1312	G22055B2K1322	55						70	36	M12	38	58,50	30		32
G22058B2K1312	G22058B2K1322	58	290			180	111.5	78	43	51	58,50	30	M10	32	
G22070B2K1312	G22070B2K1322	70	245												
G22085B2K1312	G22085B2K1322	85	200			186	117.5	78	43	51	58,50	30	M10	32	
G22100B2K1312	G22100B2K1322	100	180												

### TEKNİK VERİLER | TECHNICAL DATA

#### 4 DELİKLİ SAE B DİŞLİ POMPA | 4 HOLES SAE B GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu\text{m}$
≤200 bar	12	21/18	40 $\mu\text{m}$

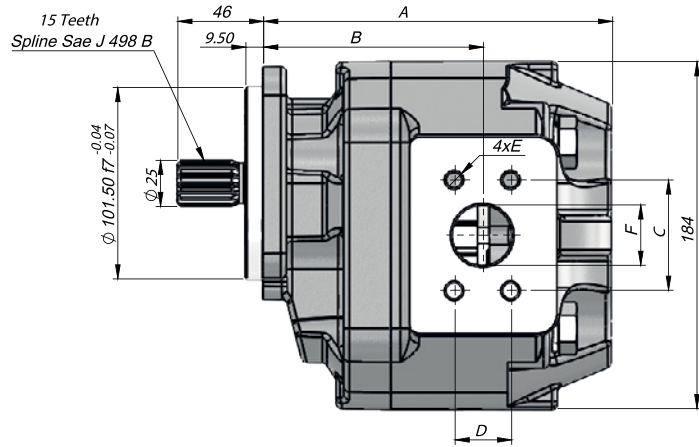
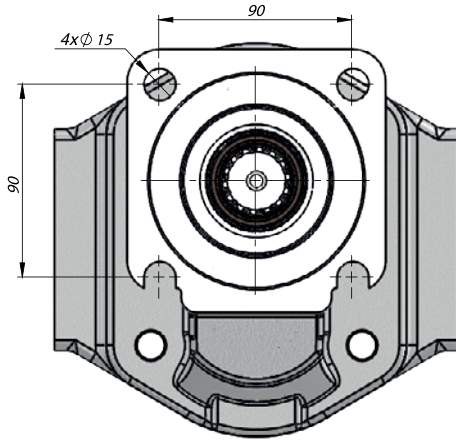


Kod Code		İletim Hacmi Displacement (cm <sup>3</sup> /rev)	Maks.Sürekli Basınç Max.Continuous Pressure (100%)(BAR)	Min. Hız Min. Speed (RPM)	Maks.Sürekli Hız Max.Continuous Speed (RPM)	Giriş Inlet						Çıkış Outlet			
Sol/Left	Sağ/Right					A	B	C	D	E	F	C	D	E	F
G22038B4F1012	G22038B4F1022	38	310	500	3000	169	102	52,50	26	M10	25,4	47,60	22	M10	19
G22055B4F1012	G22055B4F1022	55						70	36	M12	38				
G22058B4F1012	G22058B4F1022	58	290			180	111,5	78	43	51					
G22070B4F1012	G22070B4F1022	70	245			186	117,5								
G22085B4F1012	G22085B4F1022	85	200			186	117,5	78	43	51					
G22100B4F1012	G22100B4F1022	100	180												

**4 DELİKLİ SAE B DİŞLİ POMPA | 4 HOLES SAE B GEAR PUMP**

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 µm
≤200 bar	12	21/18	40 µm

AKSA-NEVİ-AKVA  
GEAR PUMP



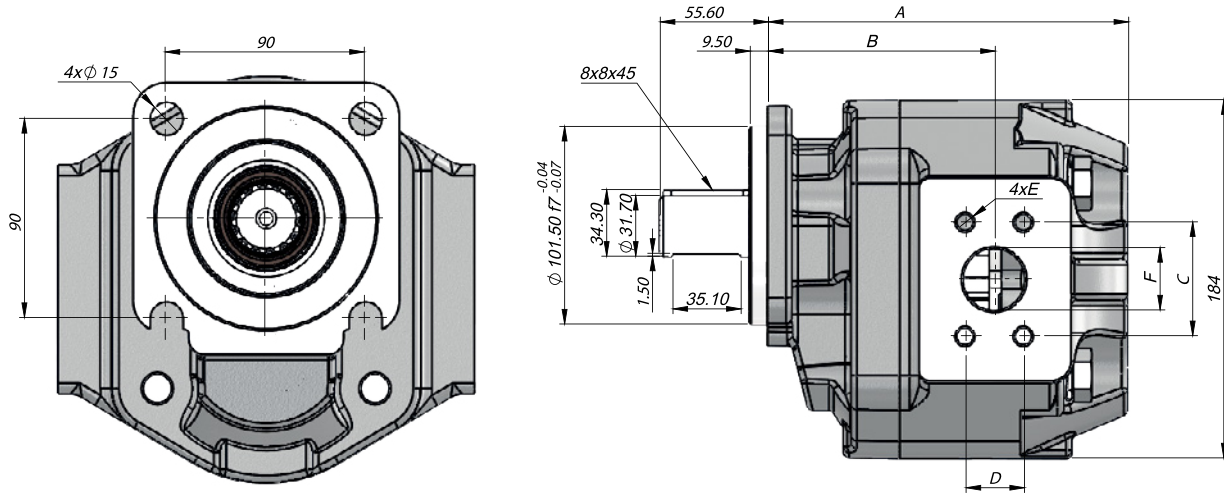
Kod Code		İletim Hacmi Displacement (cm <sup>3</sup> /rev)	Maks.Sürekli Basınç Max.Continuous Pressure (100%)(BAR)	Min. Hız Min. Speed (RPM)	Maks.Sürekli Hız Max.Continuous Speed (RPM)	Giriş Inlet						Çıkış Outlet			
Sol/Left	Sağ/Right					A	B	C	D	E	F	C	D	E	F
G22038B4F612	G22038B4F622	38	310	500	3000	169	102	52,50	26	M10	25.4	47,60	22	M10	19
G22055B4F612	G22055B4F622	55						70	36	M12	38				
G22058B4F612	G22058B4F622	58	290			180	111.5	78	43	51	58,50	30	32		
G22070B4F612	G22070B4F622	70	245												
G22085B4F612	G22085B4F622	85	200			186	117.5	78	43	51	58,50	30	32		
G22100B4F612	G22100B4F622	100	180												



### TEKNİK VERİLER | TECHNICAL DATA

#### 4 DELİKLİ SAE B DİŞLİ POMPA | 4 HOLES SAE B GEAR PUMP

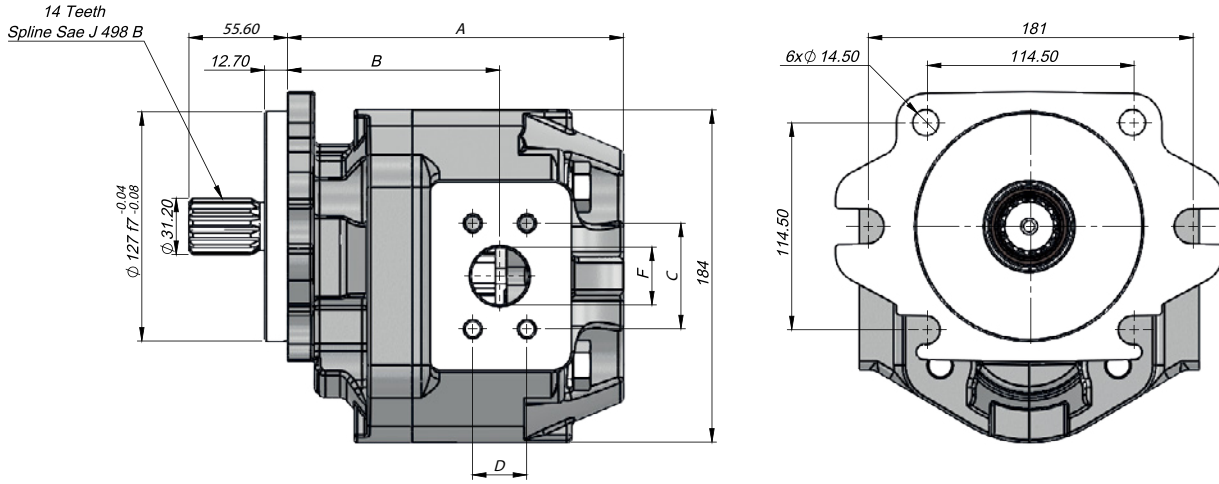
Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



Kod Code		İletim Hacmi Displacement (cm <sup>3</sup> /rev)	Maks.Sürekli Basınc Max.Continuous Pressure (100%)(BAR)	Min. Hız Min. Speed (RPM)	Maks.Sürekli Hız Max.Continuous Speed (RPM)	Giriş Inlet						Çıkış Outlet			
Sol/Left	Sağ/Right					A	B	C	D	E	F	C	D	E	F
G22038B4K1312	G22038B4K1322	38	310	500	3000	169	102	52,50	26	M10	25,4	47,60	22	M10	19
G22055B4K1312	G22055B4K1322	55						70	36	M12	38				
G22058B4K1312	G22058B4K1322	58	290			180	111.5	78	43	51	32				
G22070B4K1312	G22070B4K1322	70	245												
G22085B4K1312	G22085B4K1322	85	200			186	117.5	78	43	51	32				
G22100B4K1312	G22100B4K1322	100	180												

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 µm
≤200 bar	12	21/18	40 µm

AKSA-NEVİ-AKVA  
GEAR PUMP

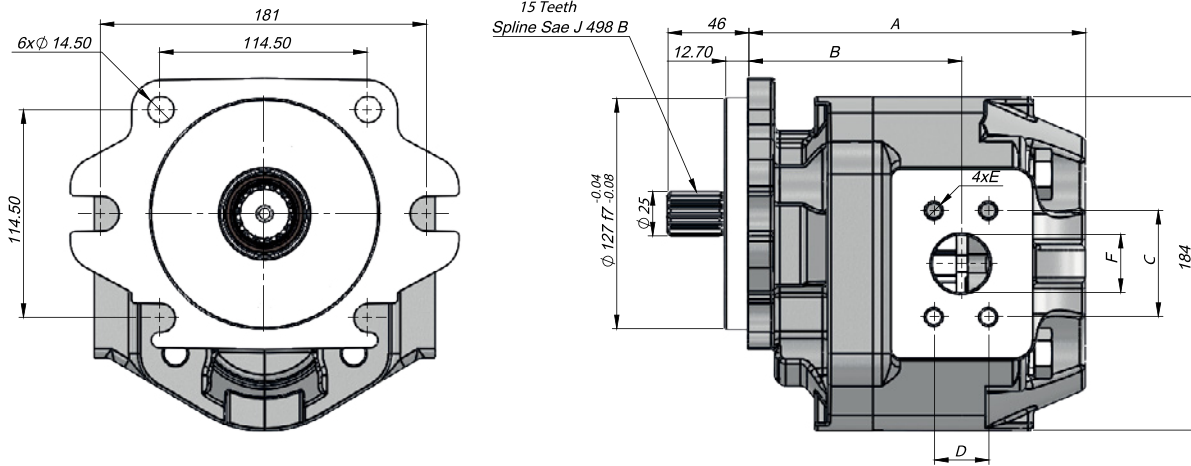


Kod Code		İletim Hacmi Displacement (cm <sup>3</sup> /rev)	Maks.Sürekli Basınç Max.Continuous Pressure (100%)(BAR)	Min. Hız Min. Speed (RPM)	Maks.Sürekli Hız Max.Continuous Speed (RPM)	Giriş Inlet						Çıkış Outlet			
Sol/Left	Sağ/Right					A	B	C	D	E	F	C	D	E	F
G22038CF1012	G22038CF1022	38	310	500	3000	169	102	52,50	26	M10	25.4	47,60	22	M10	19
G22055CF1012	G22055CF1022	55						70	36	M12	38				
G22058CF1012	G22058CF1022	58	290			180	111.5	78	43	51					
G22070CF1012	G22070CF1022	70	245								186	117.5	78		
G22085CF1012	G22085CF1022	85	200			186	117.5	78	43	51					
G22100CF1012	G22100CF1022	100	180	186	117.5						78	43	51		

### TEKNİK VERİLER | TECHNICAL DATA

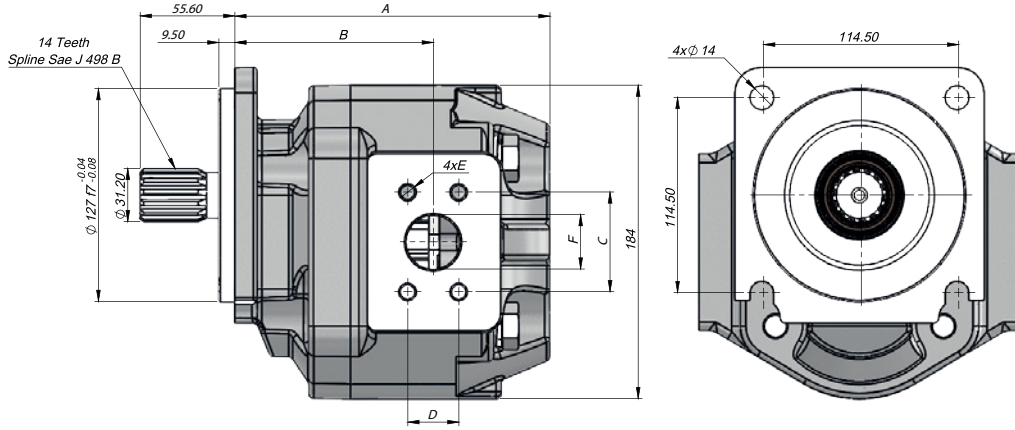
2+4 DELİKLİ SAE C DİŞLİ POMPA | 2+4 HOLES SAE C GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



Kod Code		İletim Hacmi Displacement (cm <sup>3</sup> /rev)	Maks.Sürekli Basınç Max.Continuous Pressure (100%)(BAR)	Min. Hız Min. Speed (RPM)	Maks.Sürekli Hız Max.Continuous Speed (RPM)	Giriş Inlet						Çıkış Outlet			
Sol/Left	Sağ/Right					A	B	C	D	E	F	C	D	E	F
G22038CF612	G22038CF622	38	310	500	3000	169	102	52,50	26	M10	25.4	47,60	22	M10	19
G22055CF612	G22055CF622	55						70	36	M12	38				
G22058CF612	G22058CF622	58	70			36	M12	38	58,50	30					
G22070CF612	G22070CF622	70	180			111.5	186	117.5			78	43	51		
G22085CF612	G22085CF622	85	180			117.5			78	43	51				
G22100CF612	G22100CF622	100	180			117.5	78	43	51						

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
$\geq 200$ bar	11	20/17	25 $\mu\text{m}$
$\leq 200$ bar	12	21/18	40 $\mu\text{m}$

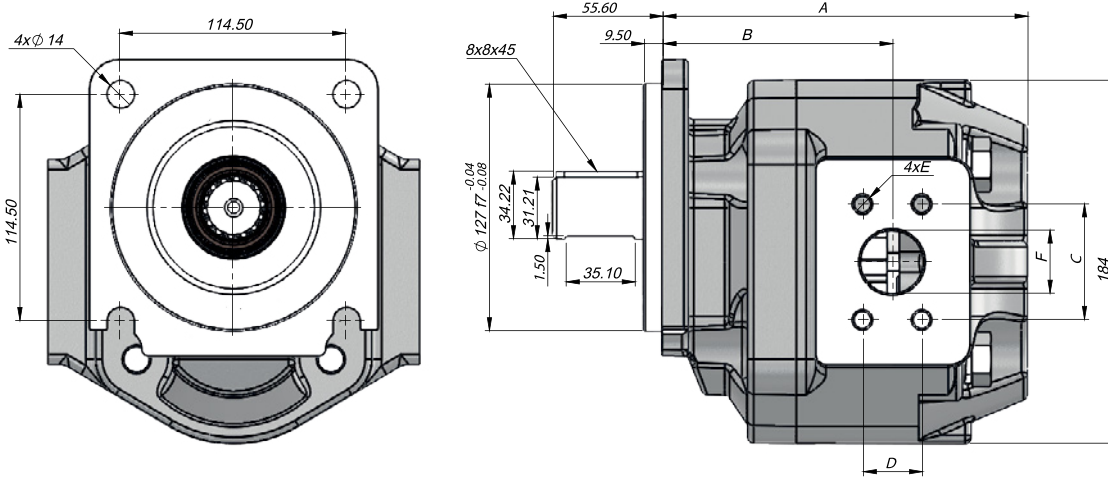


Kod Code		İletim Hacmi Displacement (cm <sup>3</sup> /rev)	Maks.Sürekli Basınç Max.Continuous Pressure (100%)(BAR)	Min. Hız Min. Speed (RPM)	Maks.Sürekli Hız Max.Continuous Speed (RPM)	Giriş Inlet						Çıkış Outlet			
Sol/Left	Sağ/Right					A	B	C	D	E	F	C	D	E	F
G22038C4F1012	G22038C4F1022	38	310	500	3000	169	102	52,50	26	M10	25.4	47,60	22	M10	19
G22055C4F1012	G22055C4F1022	55						70	36	M12	38				
G22058C4F1012	G22058C4F1022	58	70			36	M12	38	58,50	30					
G22070C4F1012	G22070C4F1022	70	180			111.5	51	32							
G22085C4F1012	G22085C4F1022	85	186			117.5			78	43					
G22100C4F1012	G22100C4F1022	100	180			186	117.5	78	43	51					

### TEKNİK VERİLER | TECHNICAL DATA

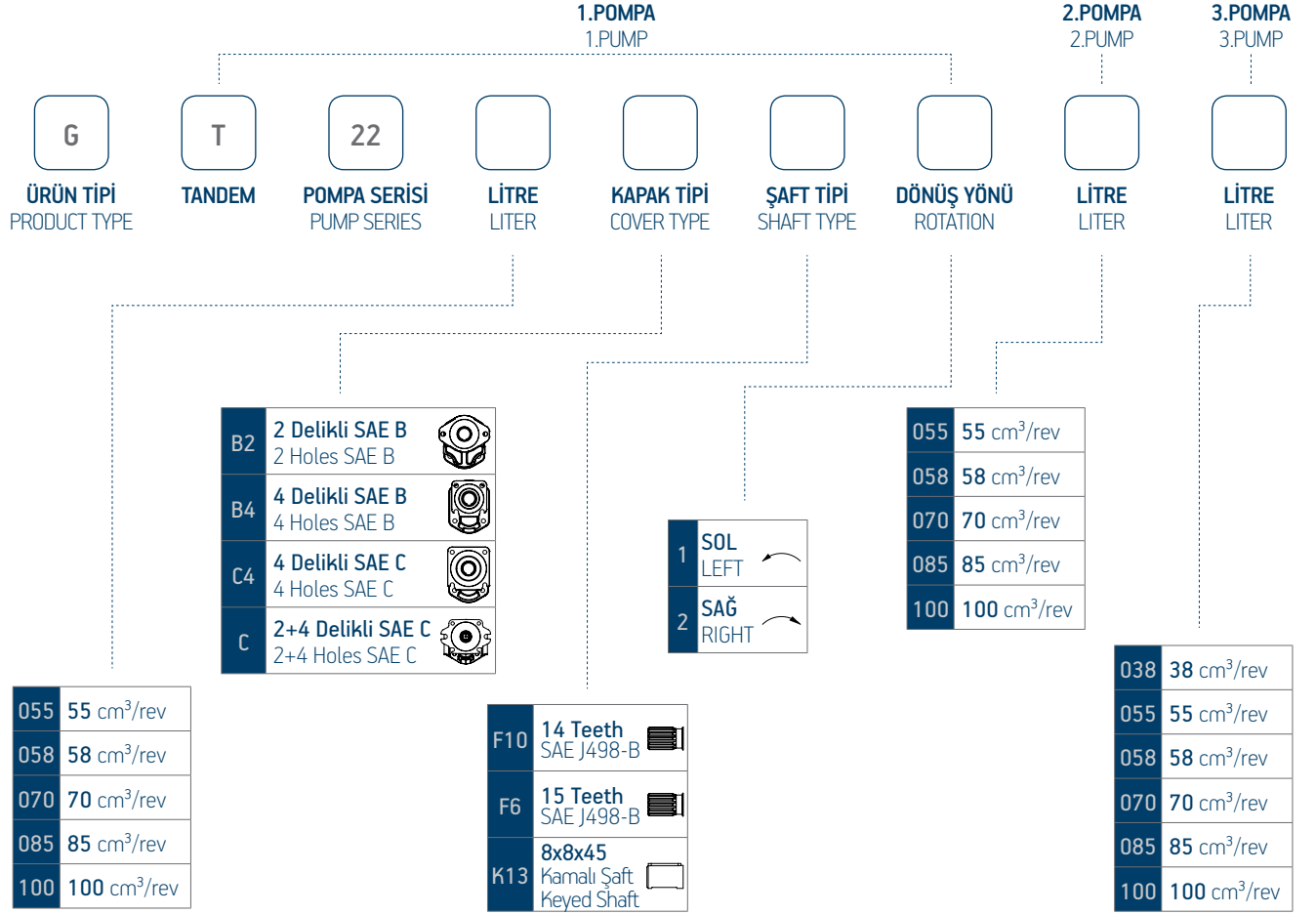
#### 4 DELİKLİ SAE C DİŞLİ POMPA | 4 HOLES SAE C GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m



Kod Code		İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min. Speed	Maks.Sürekli Hız Max.Continuous Speed	Giriş Inlet						Çıkış Outlet			
Sol/Left	Sağ/Right					(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	A	B	C	D	E	F
G22038C4K13612	G22038C4K13622	38	310	500	3000	169	102	52,50	26	M10	25.4	47,60	22	M10	19
G22055C4K13612	G22055C4K13622	55						70	36	M12	38				
G22058C4K13612	G22058C4K13622	58	290			180	111.5	78	43	51					
G22070C4K13612	G22070C4K13622	70	245			186	117.5								
G22085C4K13612	G22085C4K13622	85	200			186	117.5	78	43	51					
G22100C4K13612	G22100C4K13622	100	180												

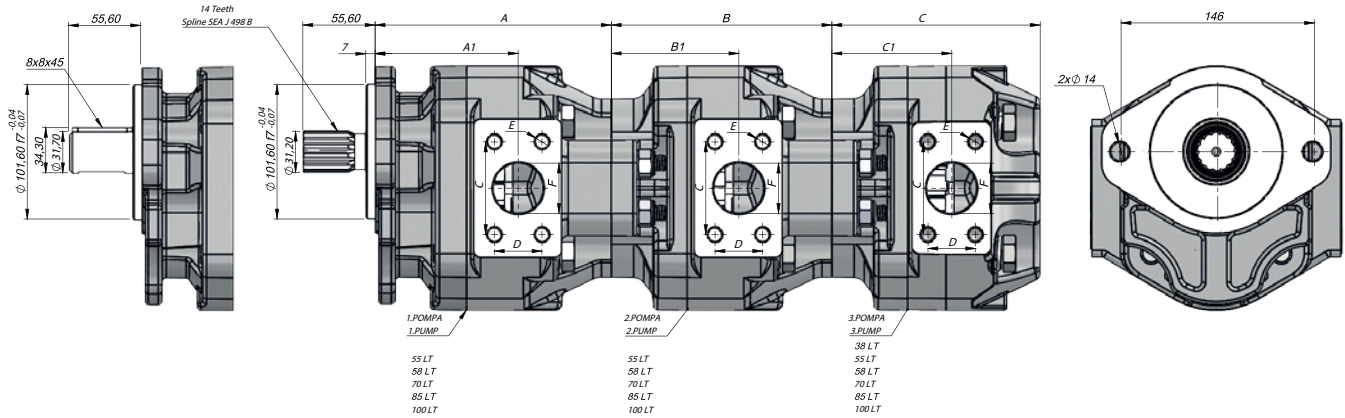
### TANDEM POMPA TANDEM PUMP KODLAMA SİSTEMİ | CODING SYSTEM



### TEKNİK VERİLER | TECHNICAL DATA

#### 2 DELİKLİ SAE B TANDEM DİŞLİ POMPA | 2 HOLES SAE B TANDEM GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m

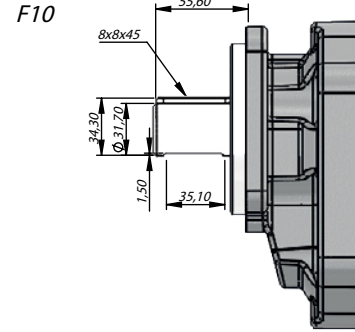
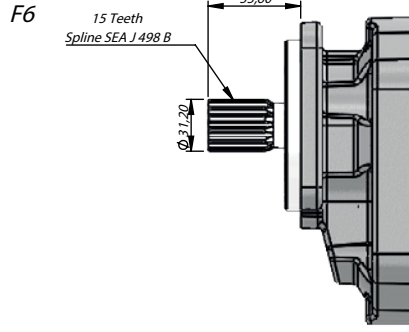
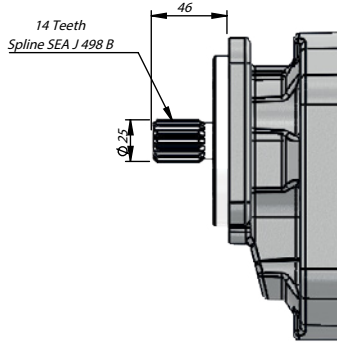


İletim Hacmi Displacement	Maks.Sürekli Basınc Max Continuous Pressure	Min. Hız Min. Speed	Maks.Sürekli Hız Max Continuous Speed	Giriş Inlet										Çıkış Outlet				
				A	A1	B	B1	C	C1	C	D	E	F	C	D	E	F	
(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	mm	mm	mm	mm	mm	mm									
38	310	500	3000	-	-	-	-			52,50	26	M10	25.4	47,60	22	M10	19	
55				178.5	107	167	95.5	157.5	90.5									
58	290			179.5	109	168	97.5			70	36	M12	38	58,50	30		32	
70	245			188.5	114.5	177	103	168.5	100									
85	200			194.5	117.5	183	106	174.5	106	78	43		51					
100	180																	

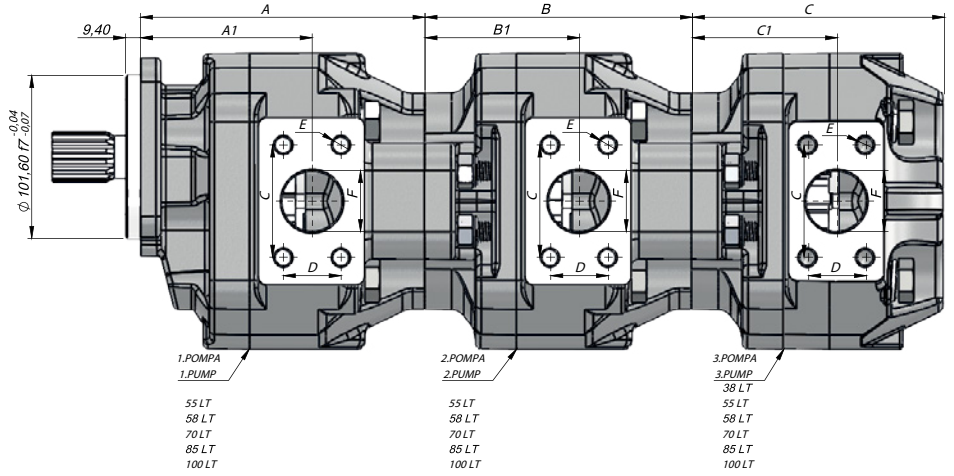
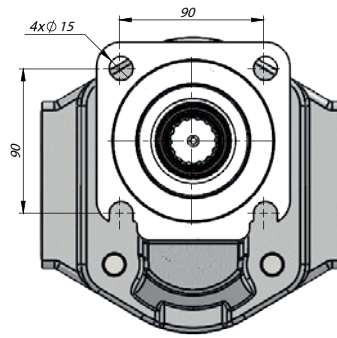
**4 DELİKLİ SAE B TANDEM DİŞLİ POMPA | 4 HOLES SAE B TANDEM GEAR PUMP**

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 µm
≤200 bar	12	21/18	40 µm

AKSA-NEVİ-AKVA  
GEAR PUMP



K13



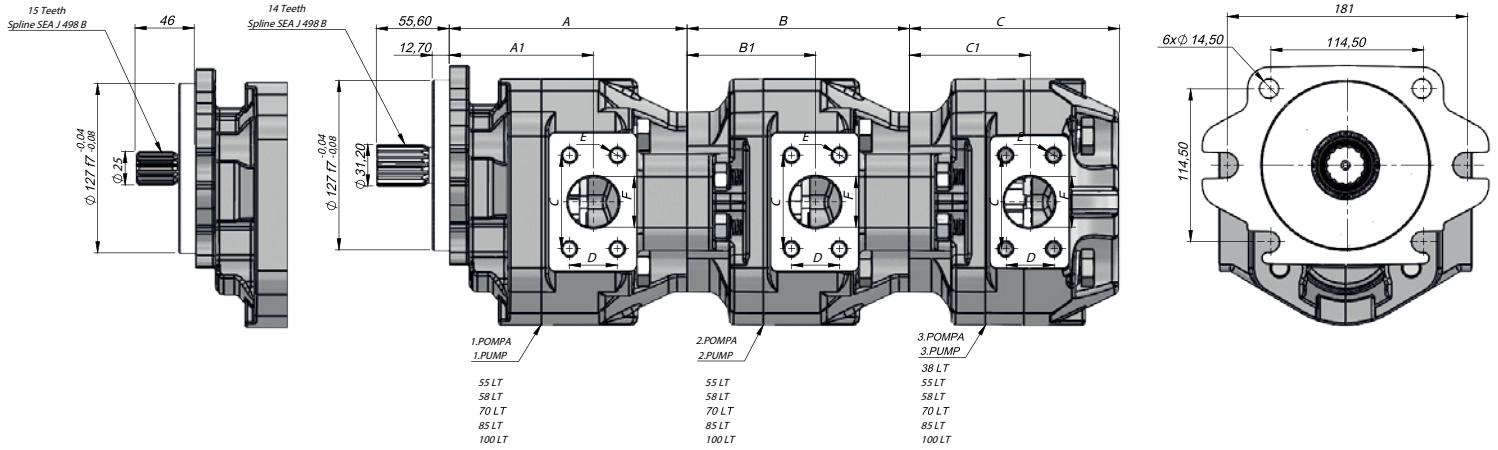
İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min. Speed	Maks.Sürekli Hız Max.Continuous Speed	Giriş Inlet										Çıkış Outlet						
				A	A1	B	B1	C	C1	C	D	E	F	C	D	E	F			
(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
38	310	500	3000	-	-	-	-					52,50	26	M10	25,4	47,60	22		19	
55				177,5	106	167	95,5	157,5	90,5											
58	290			70	36	M12	38	58,50	30	M10	32									
70	245			178,5	108	168	97,5													
85	200			187,5	113,5	177	103	168,5	100											
100	180			193,5	116,5	183	106	174,5	106	78	43		51							



### TEKNİK VERİLER | TECHNICAL DATA

#### 2+4 DELİKLİ SAE C TANDEM DİŞLİ POMPA | 2+4 HOLES SAE C TANDEM GEAR PUMP

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 $\mu$ m
≤200 bar	12	21/18	40 $\mu$ m

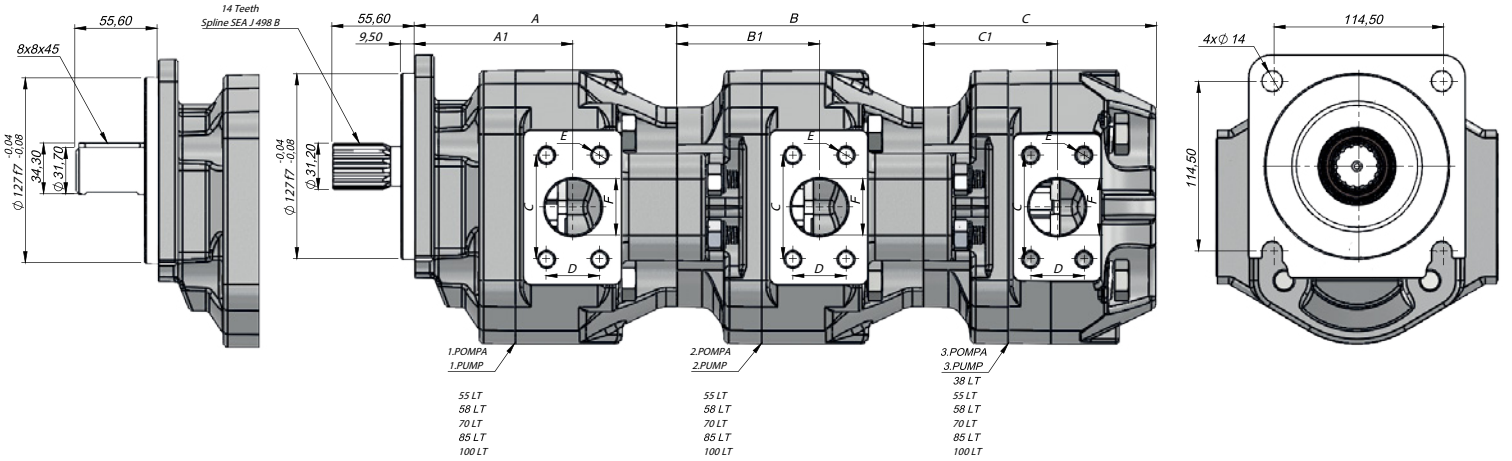


İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min. Speed	Maks.Sürekli Hız Max.Continuous Speed	Giriş Inlet								Çıkış Outlet							
				A	A1	B	B1	C	C1	C	D	E	F	C	D	E	F		
(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	mm	mm	mm	mm	mm	mm										
38	310	500	3000	-	-	-	-			52,50	26	M10	25.4	47,60	22		19		
55				178.5	107	167	95.5	157.5	90.5										
58				179.5	109	168	97.5			70	36	M12	38	58,50	30	M10	32		
70				188.5	114.5	177	103	168.5	100										
85				194.5	117.5	183	106	174.5	106	78	43			51					
100																			

**4 DELİKLİ SAE C TANDEM DİŞLİ POMPA | 4 HOLES SAE C TANDEM GEAR PUMP**

Giriş Basıncı   Inlet Pressure		0.3÷ 2 bar	
Çalışma Viskozite Seviyesi   Operating Viscosity Range		-12:100 cSt	
Sıvı Sıcaklığı   Fluid Temperature		-40 °C+145 °C	
Çalışma Basıncı   Working Pressure	Kirlilik   Contamination		Filtre   Filter
	NAS 1638	ISO 4406	$\beta_x=75$
≥200 bar	11	20/17	25 µm
≤200 bar	12	21/18	40 µm

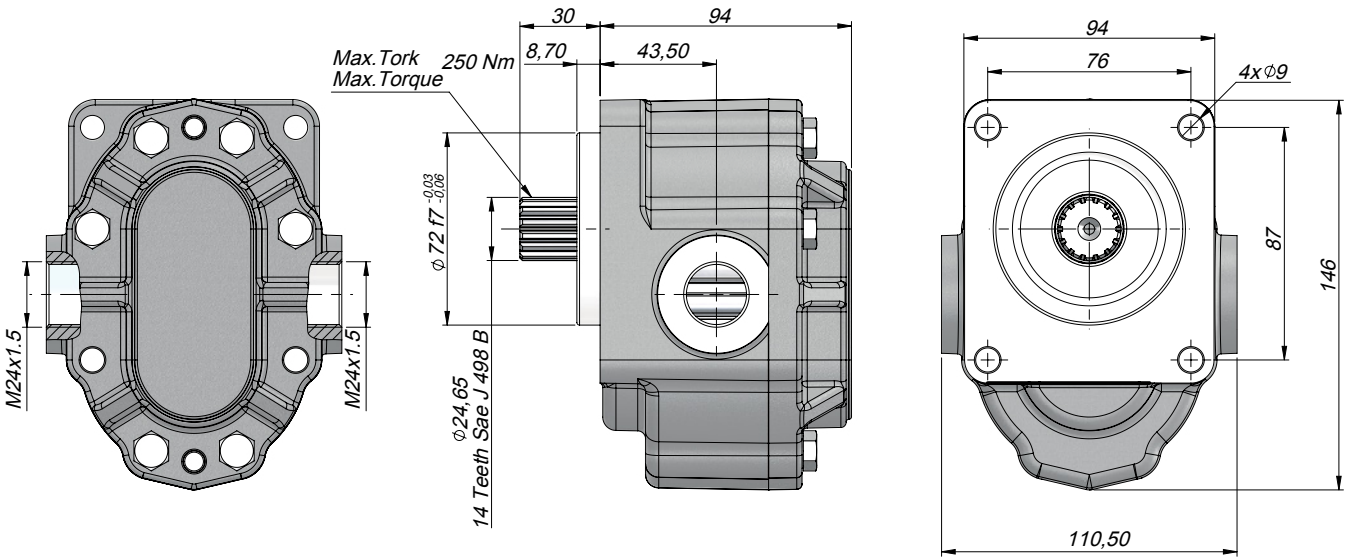
AKSA-NEVİ-AKVA  
GEAR PUMP



İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min. Speed	Maks.Sürekli Hız Max.Continuous Speed	Giriş Inlet										Çıkış Outlet					
				A	A1	B	B1	C	C1	C	D	E	F	C	D	E	F		
(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
38	310	500	3000	-	-	-	-			52,50	26	M10	25.4	47,60	22			19	
55				177.5	106	167	95.5	157.5	90.5										
58	290			70	36	M12	38	58,50	30	M10	32								
70	245			178.5	108	168	97.5			70	36	M12	38	58,50	30	M10	32		
85	200			187.5	113.5	177	103	168.5	100										
100	180			193.5	116.5	183	106	174.5	106	78	43		51						

**TEKNİK VERİLER | TECHNICAL DATA**

4 DELİKLİ ÇİFT YÖNLÜ DİŞLİ POMPA | 4 HOLES BI-DIRECTIONAL GEAR PUMP



Kod Code	İletim Hacmi Displacement (cm <sup>3</sup> /rev)	Maks.Sürekli Basınç Max.Continuous Pressure (100%)(BAR)	Maks.Aralıklı Basınç Max.Intermittent Pressure (20 sec.max.)(BAR)	Maks.Anlık Basınç Max.Peak Pressure (6 sec.max.)(BAR)	Maks.Sürekli Hız Max.Continuous Speed (RPM)	Max.Aralıklı Hız Max.Intermittent Speed	Min. Hız Min.Speed (RPM)
G1040WF1031	40	280	300	320	2500	3500	300



# KAZEL®

## YED-ISRAK-KAVI-CELAL-FEYZ

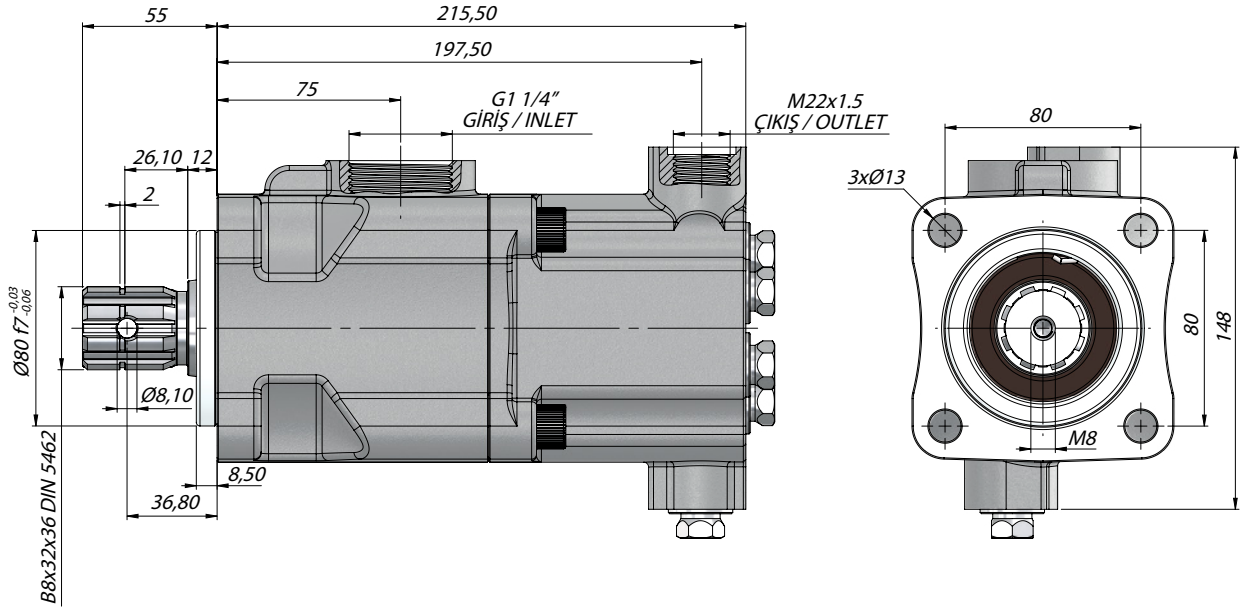
GEAR  
PUMP & MOTOR



PISTON  
PUMP



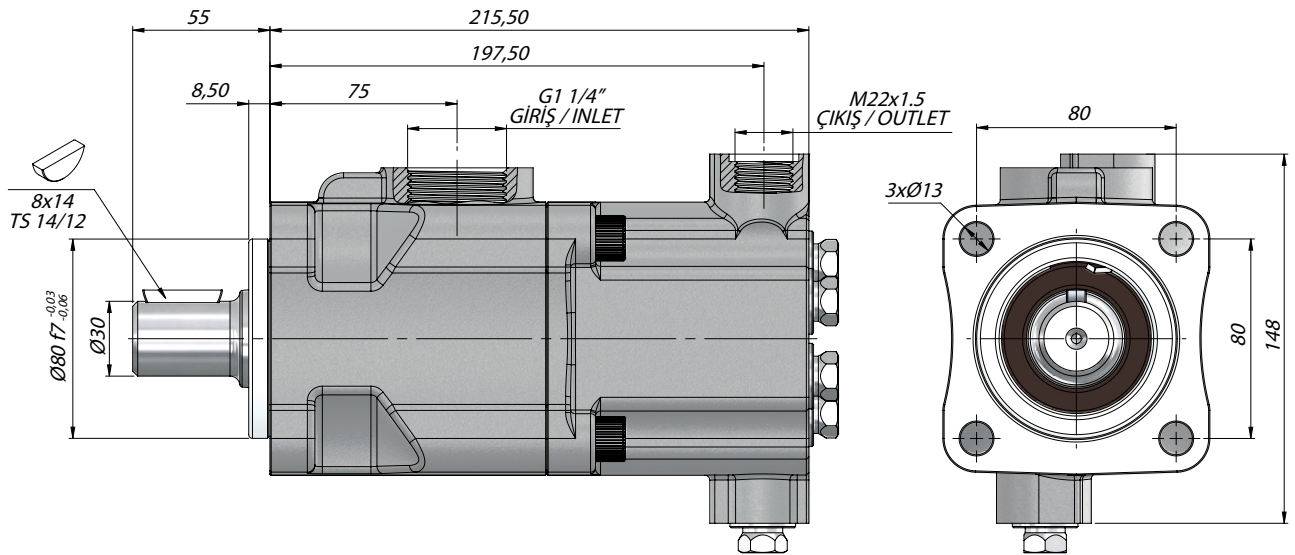
PISTON  
PUMP



Kod Code	İletim Hacmi Displacement (cm <sup>3</sup> /rev)	Maks.Süreklİ Basınç Max.Continuous Pressure (100%)(BAR)	Min. Hız Min.Speed (RPM)	Maks.Süreklİ Hız Max.Continuous Speed (RPM)
P0626SF131	26	250	300	1800
P0635SF131	35			
P0641SF131	41			
P0652SF131	52			



4 DELİKLİ KAMALI ISO PİSTONLU POMPA | 4 HOLES ISO PISTON PUMP WITH KEYPED SHAFT

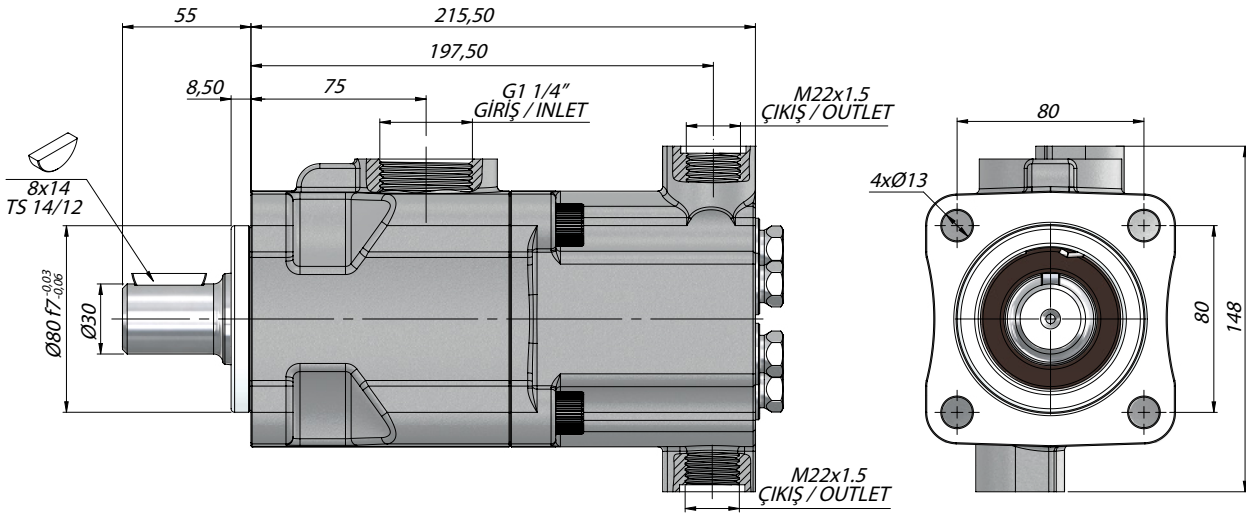


Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed
	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)
P0626SK1531	26	250	300	1800
P0635SK1531	35			
P0641SK1531	41			
P0652SK1531	52			



**TEKNİK VERİLER | TECHNICAL DATA**

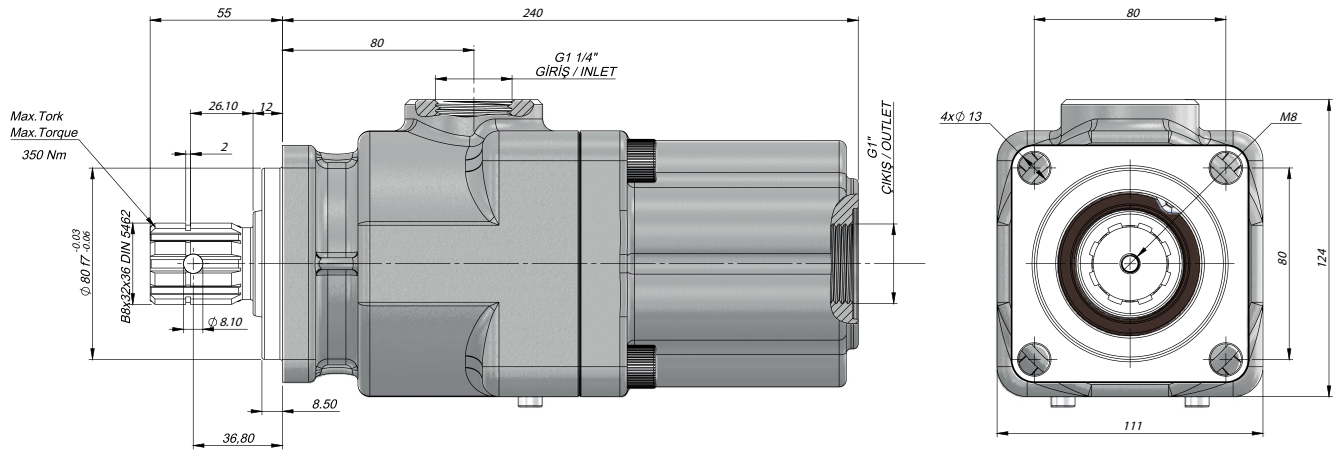
4 DELİKLİ KAMALI ISO ÇİFT ÇIKIŞLI PİSTONLU POMPA | 4 HOLES ISO TWIN FLOW PISTON PUMP WITH KEYPED SHAFT

PISTON  
PUMP

Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed
	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)
P062020SK1531	20+20	250	300	1800
P062614SK1531	26+14			
P063418SK1531	34+18			
P062626SK1531	26+26			



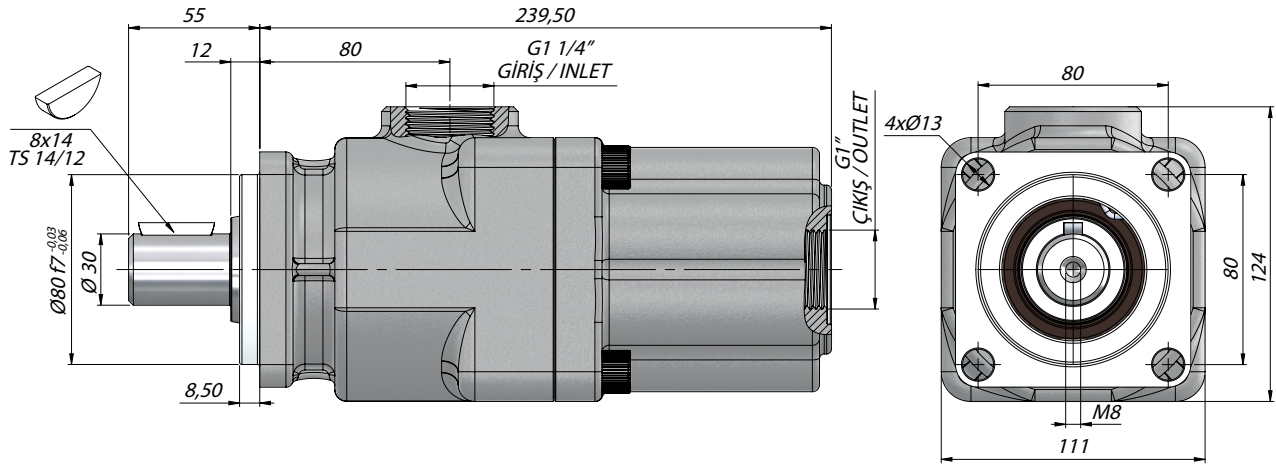
PISTON  
PUMP



Kod Code	İletim Hacmi Displacement (cm <sup>3</sup> /rev)	Maks.Sürekli Basınç Max.Continuous Pressure (100%)(BAR)	Min. Hız Min.Speed (RPM)	Maks.Sürekli Hız Max.Continuous Speed (RPM)
P0820SF131	20	350	300	1800
P0826SF131	26			
P0834SF131	34			
P0842SF131	42			
P0846SF131	46			
P0852SF131	52			
P0855SF131	55	300	1500	
P0860SF131	60			

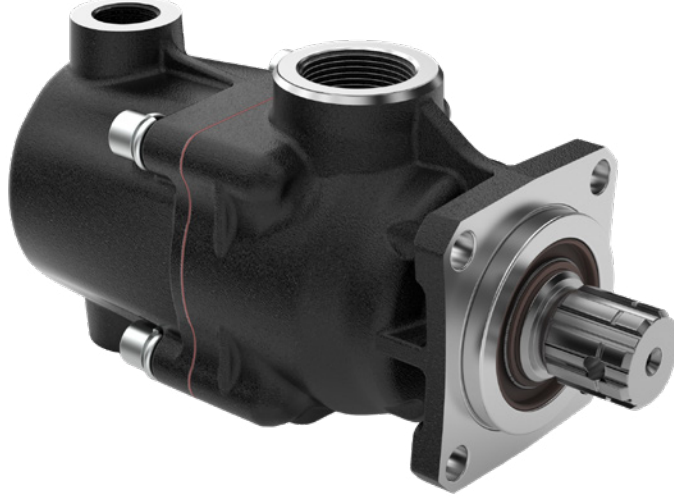
**TEKNİK VERİLER | TECHNICAL DATA**

4 DELİKLİ ISO KAMALI PİSTONLU POMPA | 4 HOLES ISO PISTON PUMP WITH KEYPED SHAFT

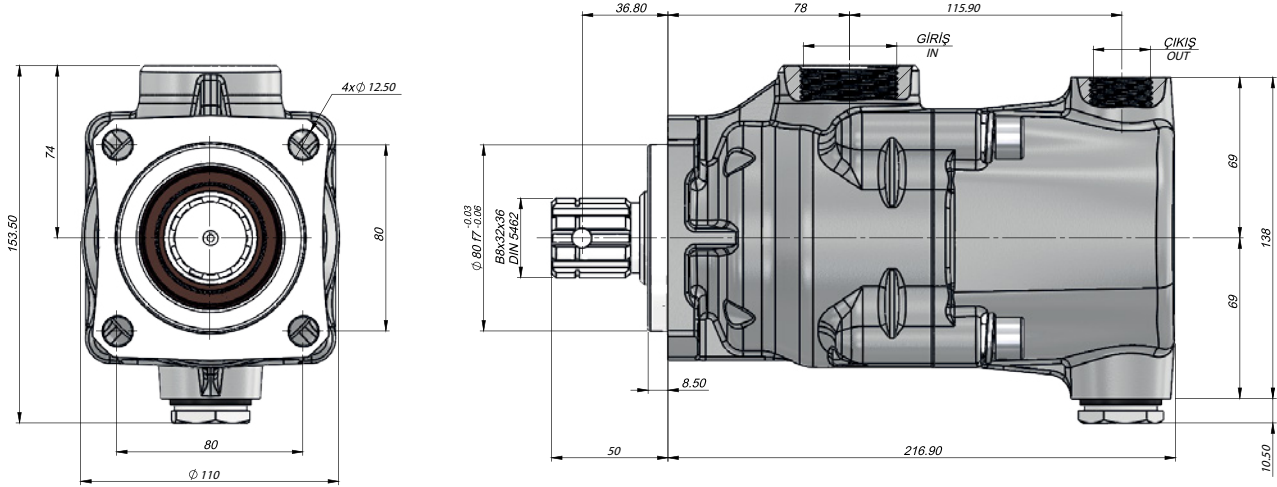


PISTON  
PUMP

Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed
	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)
P0820SK1531	20	350	300	1800
P0826SK1531	26			
P0834SK1531	34			
P0842SK1531	42			
P0846SK1531	46			
P0852SK1531	52			
P0855SK1531	55	300	1500	
P0860SK1531	60			



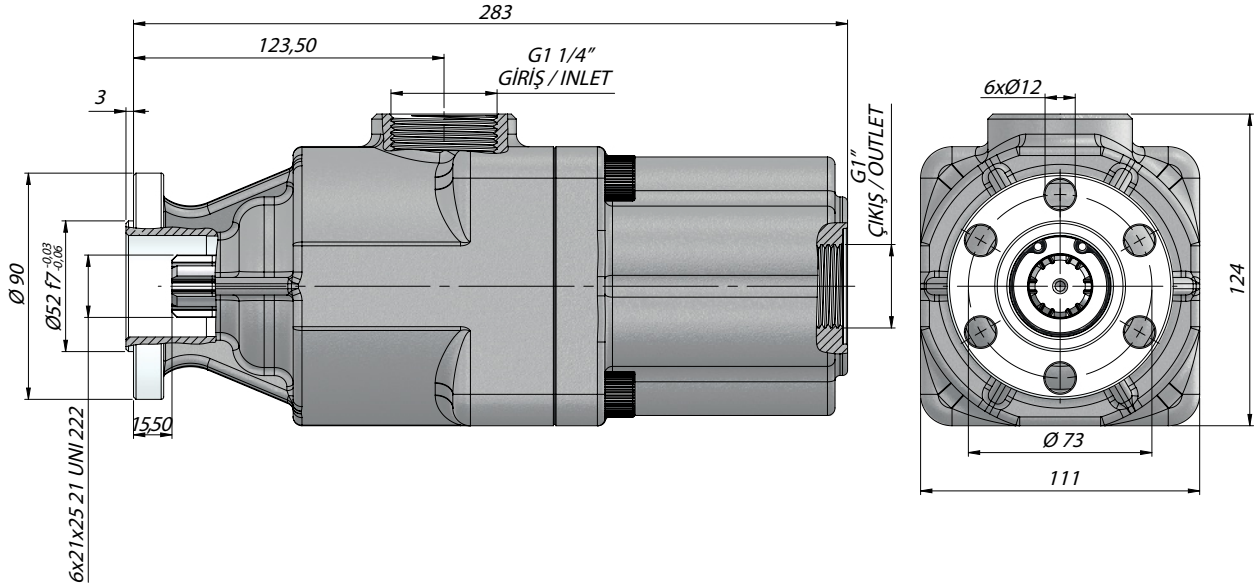
PISTON  
PUMP



Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed	Giriş Inlet	Çıkış Outlet
	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)		
P0821SF131S	21	350	400	1800	G1 1/4"	G3/4"
P0828SF131S	28					
P0835SF131S	35					
P0842SF131S	42					
P0848SF131S	48					
P0852SF131S	52					
P0855SF131S	55	300	350	1500		
P0860SF131S	60					

**TEKNİK VERİLER | TECHNICAL DATA**

6 DELİKLİ UNI PİSTONLU POMPA | 6 HOLES UNI PISTON PUMP



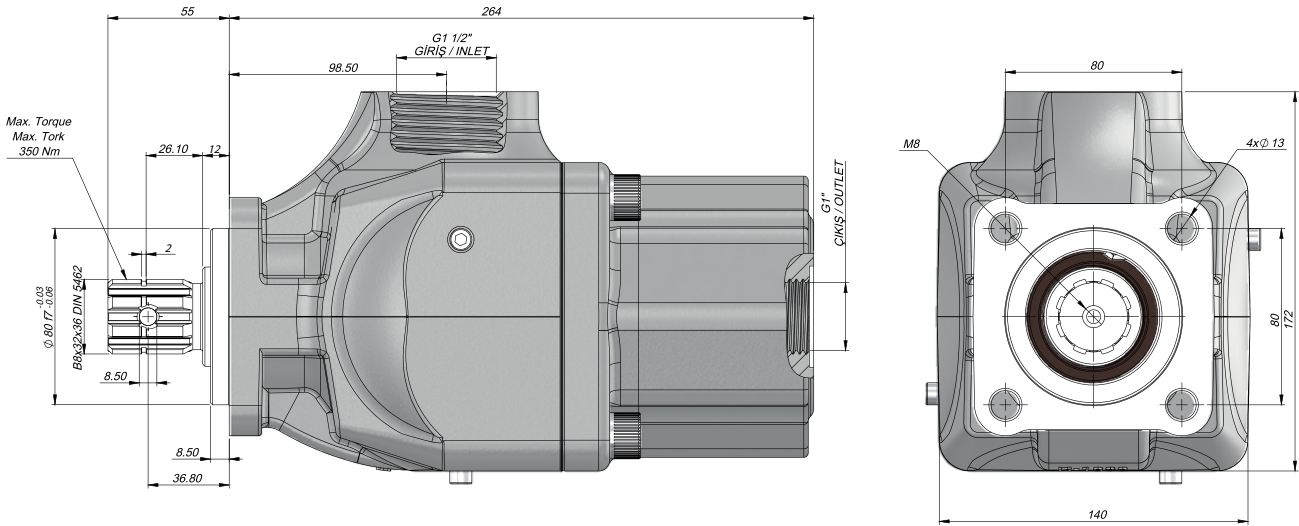
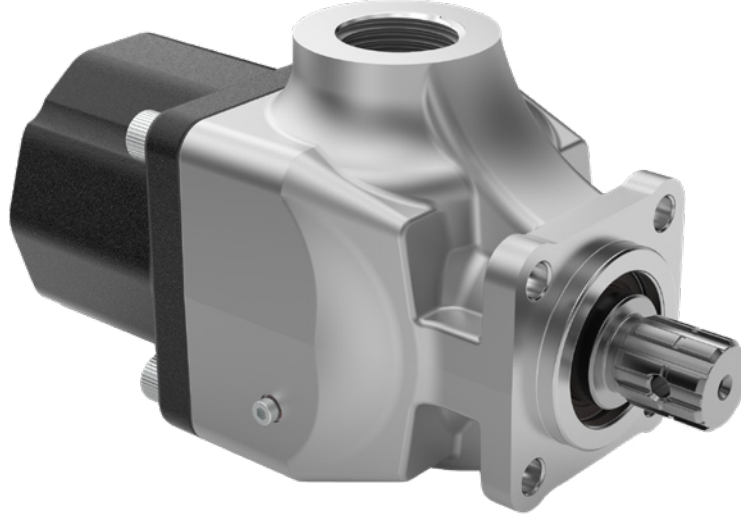
PISTON  
PUMP

Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed
	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)
P0820UF431	20	350	300	1800
P0826UF431	26			
P0834UF431	34			
P0842UF431	42			
P0846UF431	46			
P0852UF431	52			
P0855UF431	55	300	1500	
P0860UF431	60			



**TEKNİK VERİLER | TECHNICAL DATA**

4 DELİKLİ ISO PİSTONLU POMPA | 4 HOLES ISO PISTON PUMP

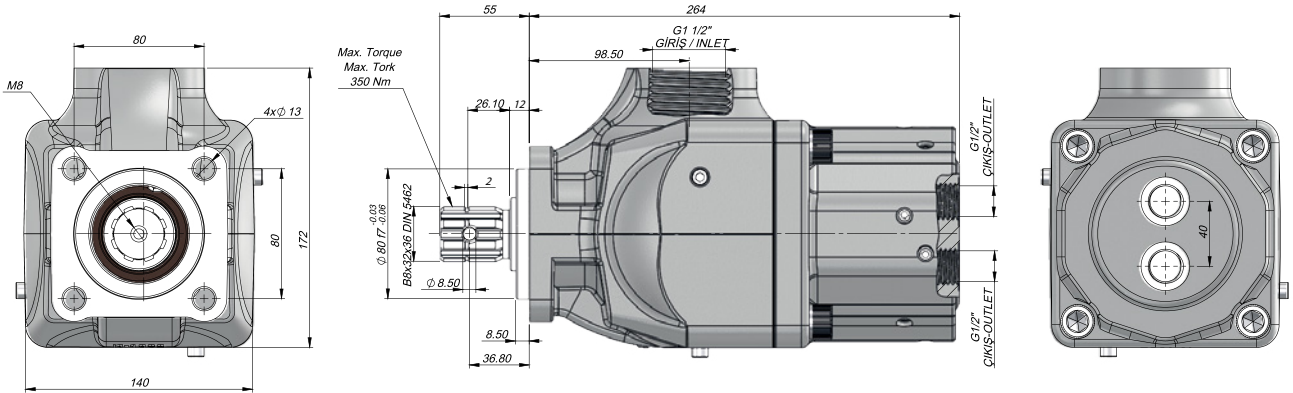


PISTON  
PUMP

Kod Code	İletim Hacmi Displacement (cm <sup>3</sup> /rev)	Maks.Sürekli Basınç Max.Continuous Pressure (100%)(BAR)	Min. Hız Min.Speed (RPM)	Maks.Sürekli Hız Max.Continuous Speed (RPM)
P10060SF131	60	300	300	1500
P10070SF131	70			
P10080SF131	80			
P10090SF131	90			
P10100SF131	100			



PISTON  
PUMP

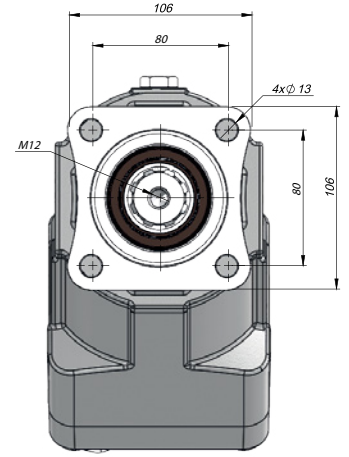
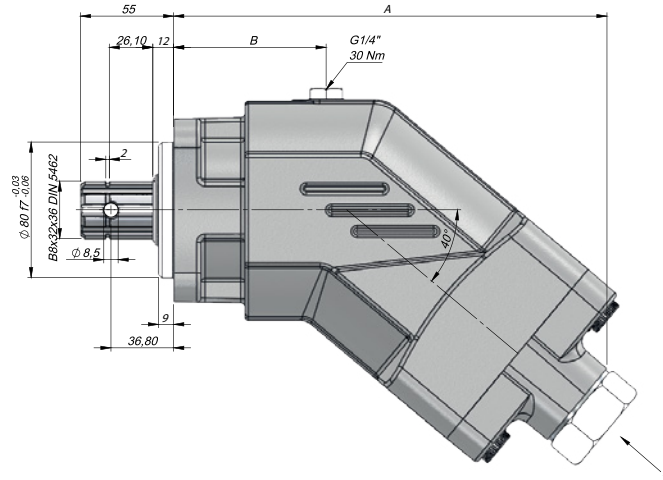
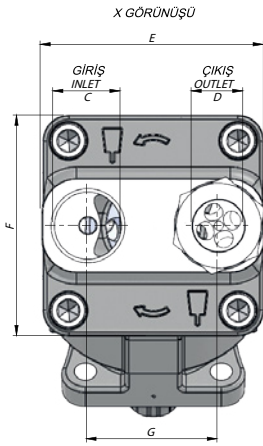


Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks.Sürekli Hız Max.Continuous Speed
	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)	(RPM)
P103535SF131	35+35	300	300	1500
P105027SF131	50+27			
P104545SF131	45+45			
P105050SF131	50+50			
P107033SF131	70+33			



**TEKNİK VERİLER | TECHNICAL DATA**

**4 DELİKLİ ISO EKSENL PİSTONLU POMPA | 4 HOLES ISO BENT AXIS PUMP**



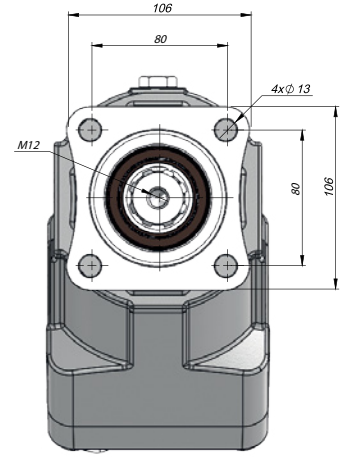
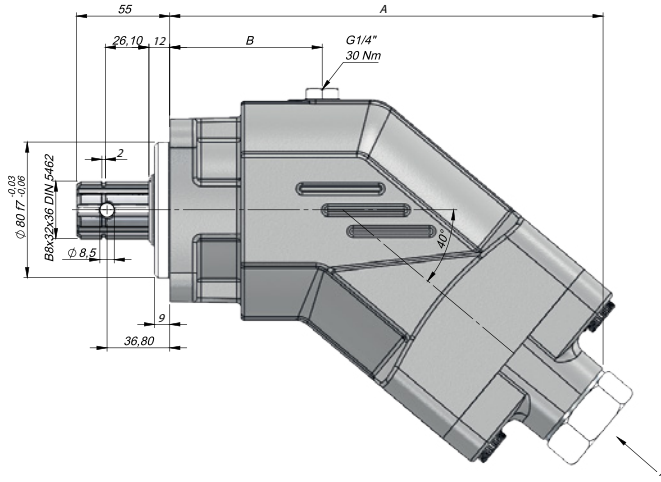
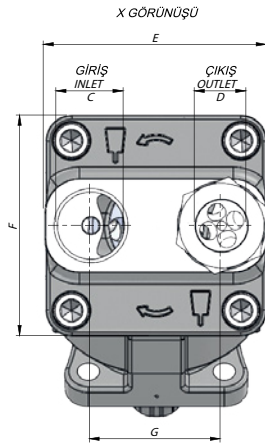
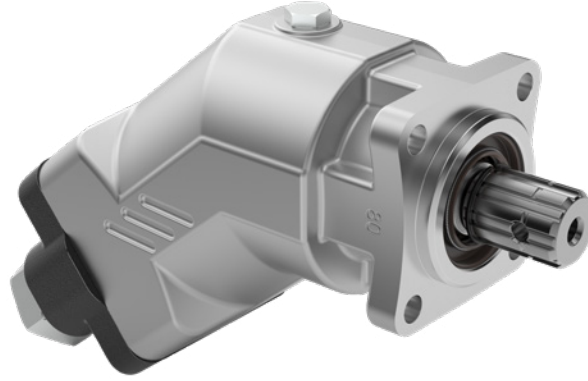
PISTON  
PUMP

**Tapaların Sıkma Torku**  
Tightening Torque Of The Plugs

G1/2"	55-65 Nm
G3/4"	90-100 Nm
G1"	135-160 Nm
G1 1/4"	200-230 Nm

Kod Code	İletim Hacmi Displacement (cm <sup>3</sup> /rev)	Maks.Sürekli Basınç Max.Continuous Pressure (100%)(BAR)	Min. Hız Min.Speed (RPM)	Maks. Hız Max. Speed (RPM)		A (mm)	B (mm)	C (inch)	D (inch)	E (mm)	F (mm)	G (mm)	
				(NOM)	(MAX.)								
AP022SF1(1)1 AP022SF1(2)1	22	350	400	3050	4300	180	58	G3/4"	G1/2"	89	89	52	
AP033SF1(1)1 AP033SF1(2)1	33			2750	3900								
AP045SF1(1)1 AP045SF1(2)1	45			2650	3800	210	78	G1"	G3/4"	108.7	108.7	59	
AP056SF1(1)1 AP056SF1(2)1	56			2550	3700					218	80	110.5	108
AP065SF1(1)1 AP065SF1(2)1	65			2200	3200	245	94	G1 1/4"	G1"	127	118	69	
AP107SF1(1)1 AP107SF1(2)1	107			2000	2800					255	131.6	130	77
AP125SF1(1)1 AP125SF1(2)1	125			250	300	1750	2500						

\* (1) - Left - Sol  
(2) - Right - Sağ



**Tapaların Sıkma Torku**  
Tightening Torque Of The Plugs

G1/2"	55-65 Nm
G3/4"	90-100 Nm
G1"	135-160 Nm
G1 1/4"	200-230 Nm

Kod Code	İletim Hacmi Displacement	Maks.Sürekli Basınç Max.Continuous Pressure	Min. Hız Min.Speed	Maks. Hız Max. Speed		A	B	C	D	E	F	G		
				(NOM)	(MAX.)									
	(cm <sup>3</sup> /rev)	(100%)(BAR)	(RPM)			(mm)	(mm)	(inch)	(inch)	(mm)	(mm)	(mm)		
APA022SF1(1)1 APA022SF1(2)1	22	350	400	3050	4300	180	58	G3/4"	G1/2"	89	89	52		
APA033SF1(1)1 APA033SF1(2)1	33			2750	3900									
APA045SF1(1)1 APA045SF1(2)1	45			2650	3800	210	78	G1"	G3/4"	108.7	108.7	59		
APA056SF1(1)1 APA056SF1(2)1	56			2550	3700					110.5	108	64		
APA065SF1(1)1 APA065SF1(2)1	65			2200	3200	245	94	G1 1/4"	G1"	127	118	69		
APA080SF1(1)1 APA080SF1(2)1	80			2150	3100					131.6	130	77		
APA107SF1(1)1 APA107SF1(2)1	107			250	300	2000	2800	255	94	G1 1/4"	G1"	131.6	130	77
APA125SF1(1)1 APA125SF1(2)1	125					1750	2500							

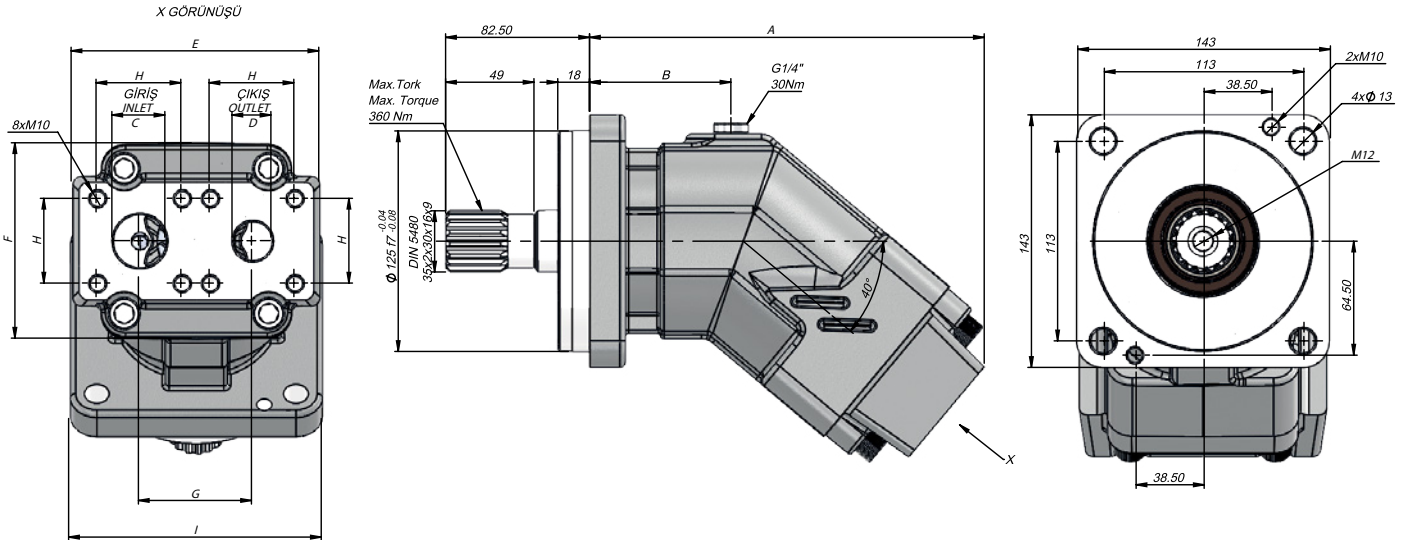
\* (1) - Left - Sol

(2) - Right - Sağ

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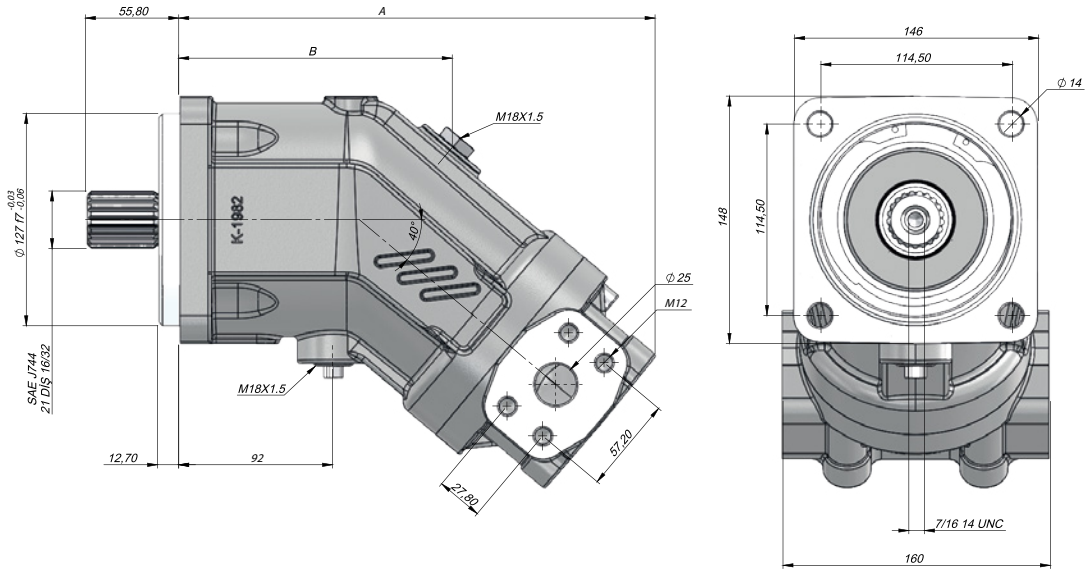
**TEKNİK VERİLER | TECHNICAL DATA**

4 DELİKLİ SAE C EKSENL PİSTONLU POMPA | 4 HOLES SAE C BENT AXIS PUMP

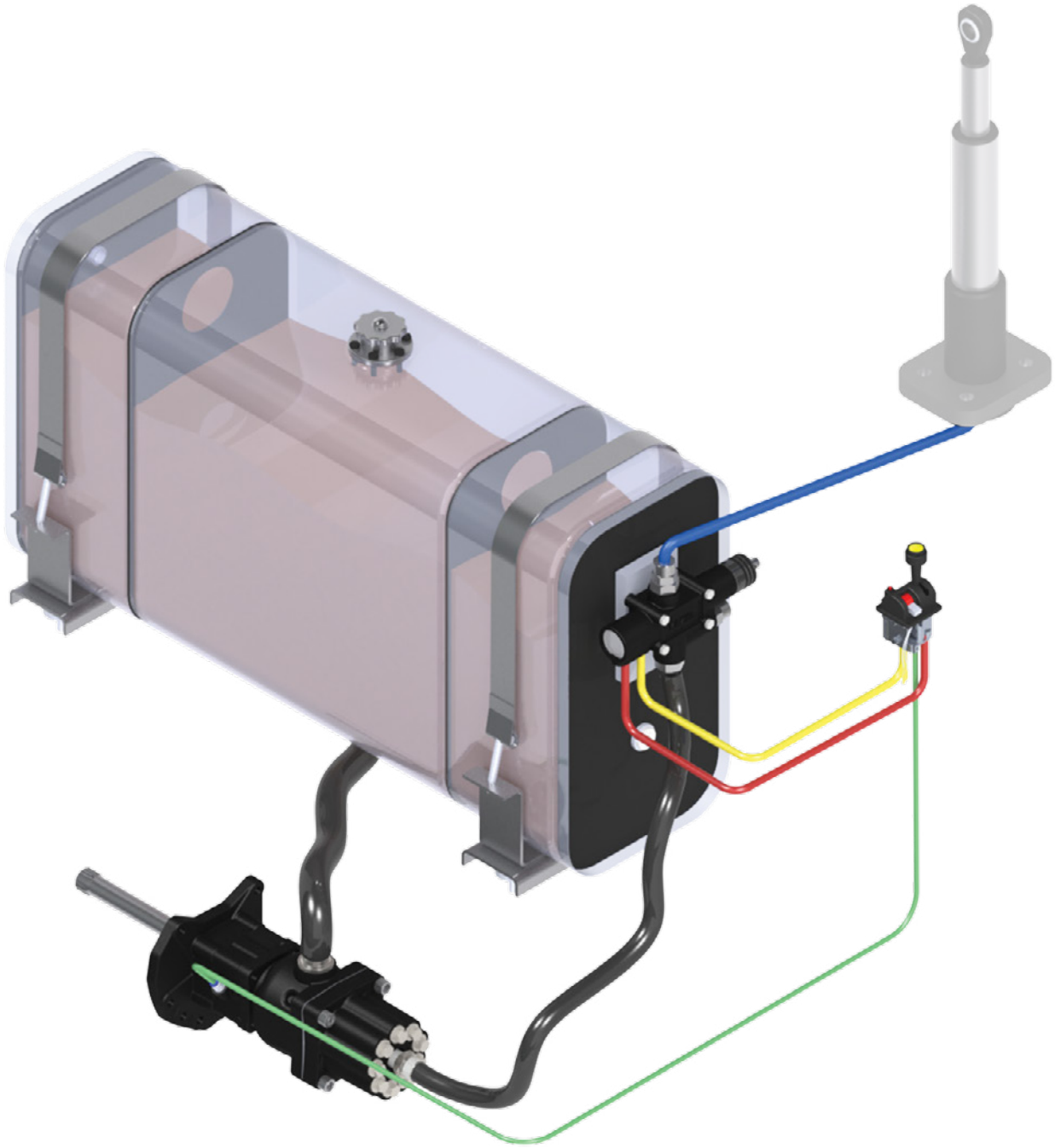


PISTON  
PUMP

Kod Code	İletim Hacmi Displacement (cm <sup>3</sup> /rev)	Maks.Sürekli Basınç Max.Continuous Pressure (100%)(BAR)	Min. Hız Min.Speed (RPM)	Maks. Hız Max. Speed (RPM)		A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)
				(NOM)	(MAX.)									
AP056C2F911 AP056C2F921	56	350	400	1800	2500	233,50	80	30	22	140	108	38	48	143
AP063C2F911 AP063C2F921	63													



Kod Code	İletim Hacmi Displacement	Tork / Torque (NM)		Maks. Hiz Max Speed (RPM)		A (mm)	B (mm)
		350(BAR)	400(BAR)	(NOM)	(MAX.)		
BD	(cm <sup>3</sup> /rev)	350(BAR)	400(BAR)	(NOM)	(MAX.)	(mm)	(mm)
AM080C2SF2133	80	448	512	4500	5000	235.30	163.50
AM090C2SF2133	90	501	573				



PISTON  
PUMP

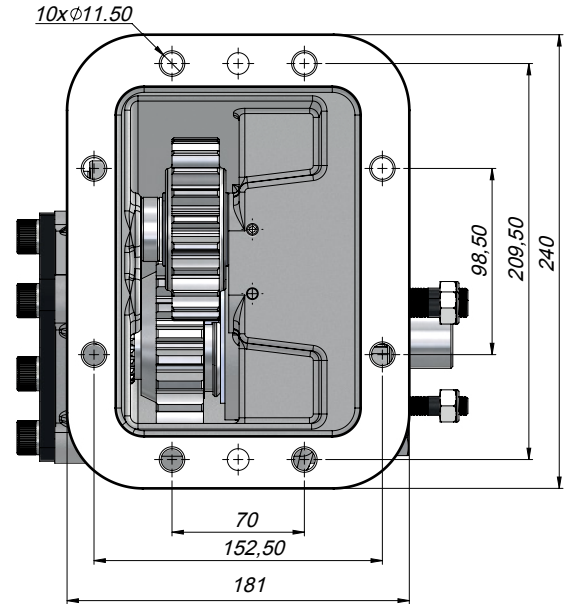
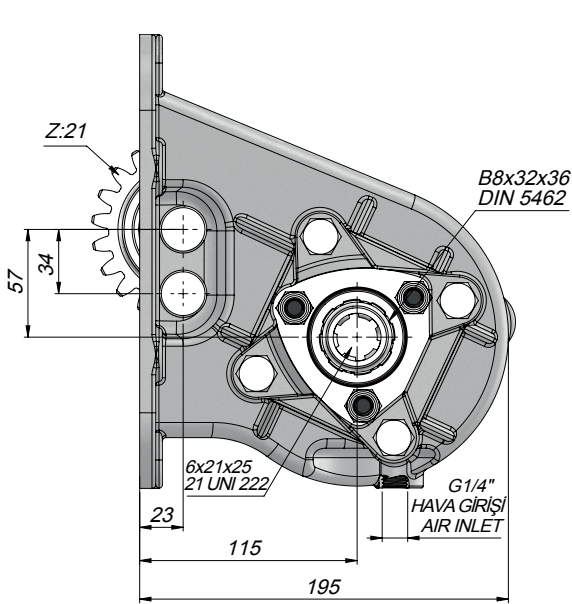
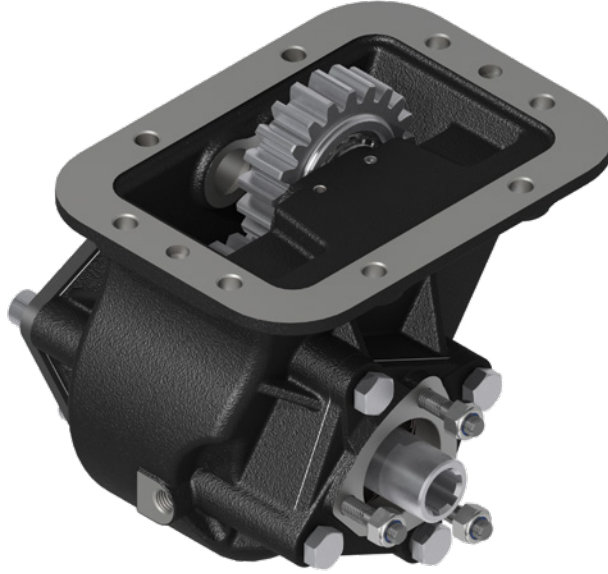
# KAZEL<sup>®</sup>

## POWER TAKE OFFS

P.T.O SERIES

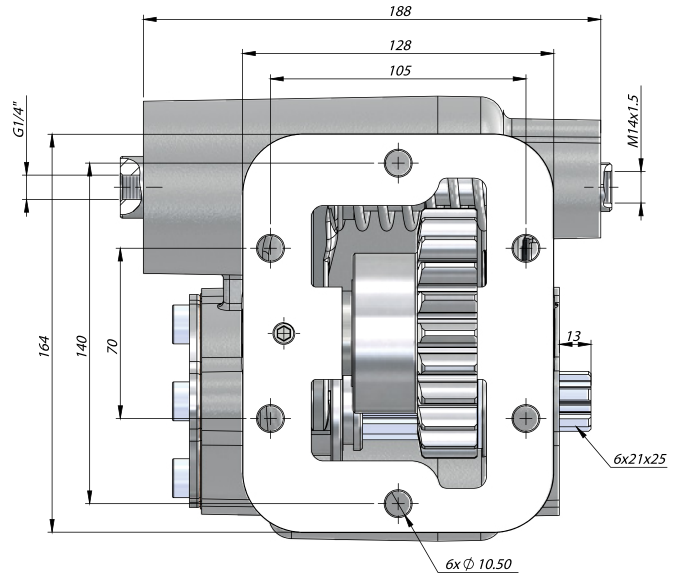
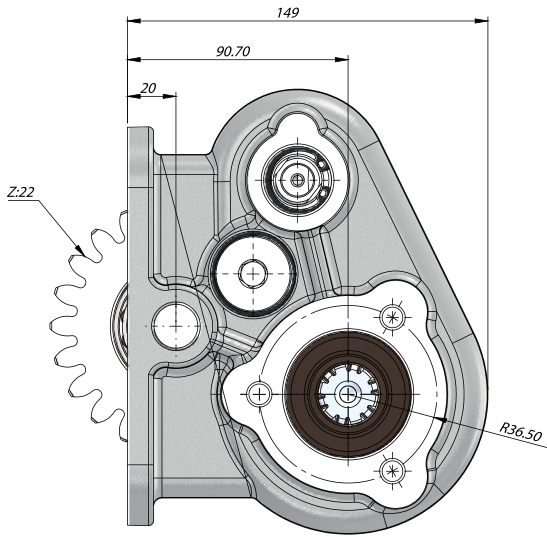
POWER TAKE  
OFFS





POWER TAKE  
OFFS

Kod Code	Araç Markası Vehicle Brand Track	Flaş Takımı Flange Kit	Dönüştürme Kiti Conversion Kit	Dişli Tipi Gear Type	Tork Torque	Int.Oranı Int.Ratio	Diş Sayısı Teeth Number
					Nm		
GBEF21UF43	Mercedes Eaton	FL SPICER 1120 / DIN00 X PF 3292-3293 FL SPICER 1300 / DIN00 X PF 3292-3293	Pnömatik / Mekanik Pneumatic / Mechanic	Düz-Flat	400	0.96	21

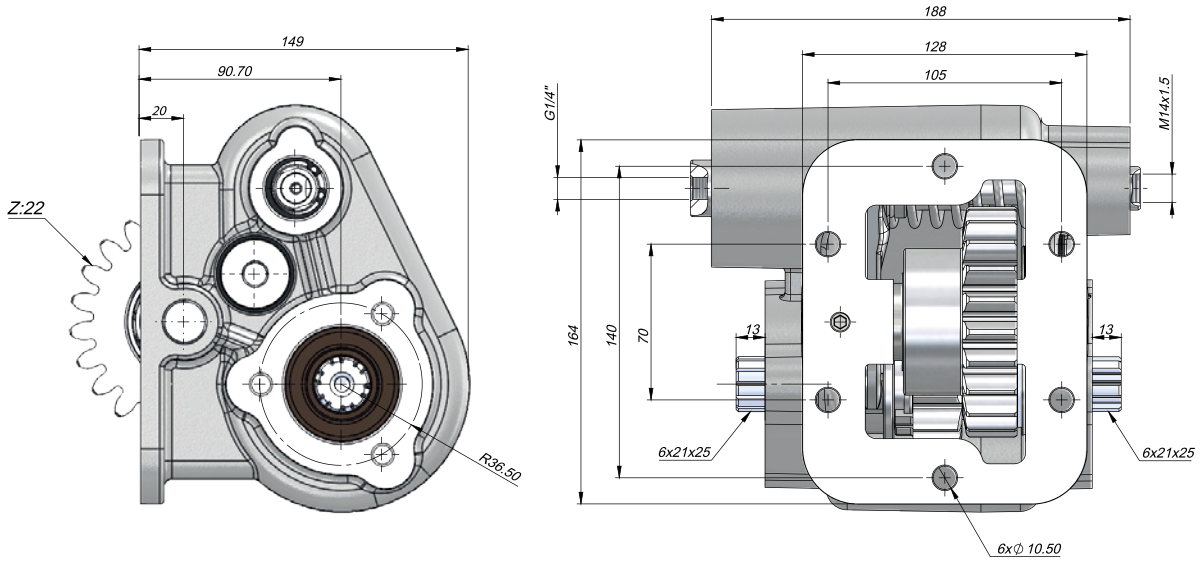


POWER TAKE  
OFFS

Kod Code	Şanzıman No Gearbox No	Montaj Assembly	Kontrol Sistemi Control System	P.T.O Mil Dönüş Yönü P.T.O Shaft Rotation	PTO Ratio @1000 RPM Normal
GBKM22UF41	KAMAZ 14,15 - KAMAZ 14-100 (5 MARCE) - 15-100 (10 MARCE)	Sağ Right	Havalı Pneumatic	Sol Left	690
GBKM22UF42				Sağ Right	



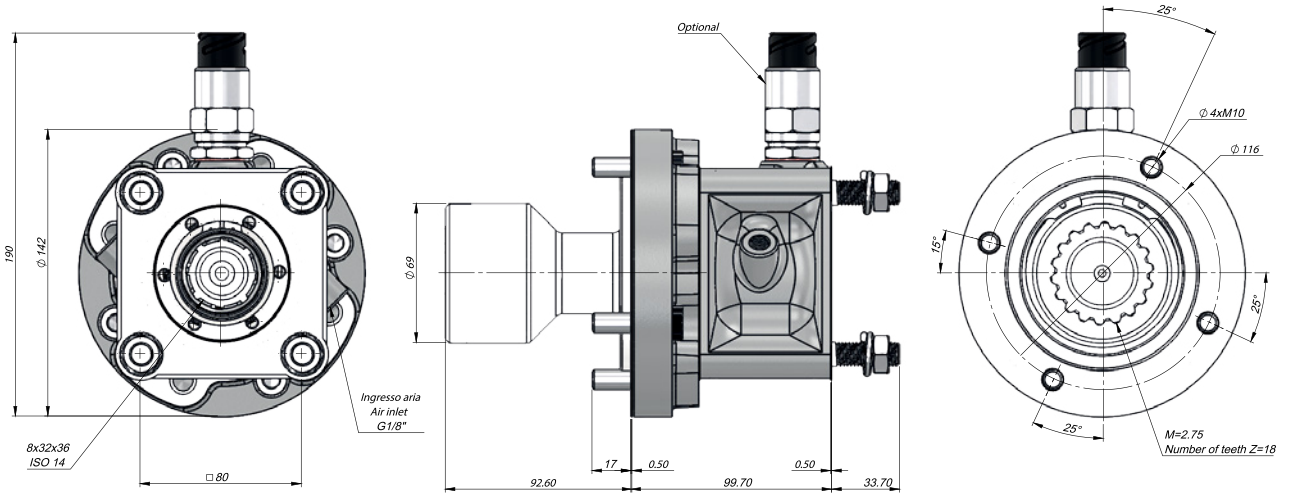
## TEKNİK VERİLER | TECHNICAL DATA

POWER TAKE  
OFFS

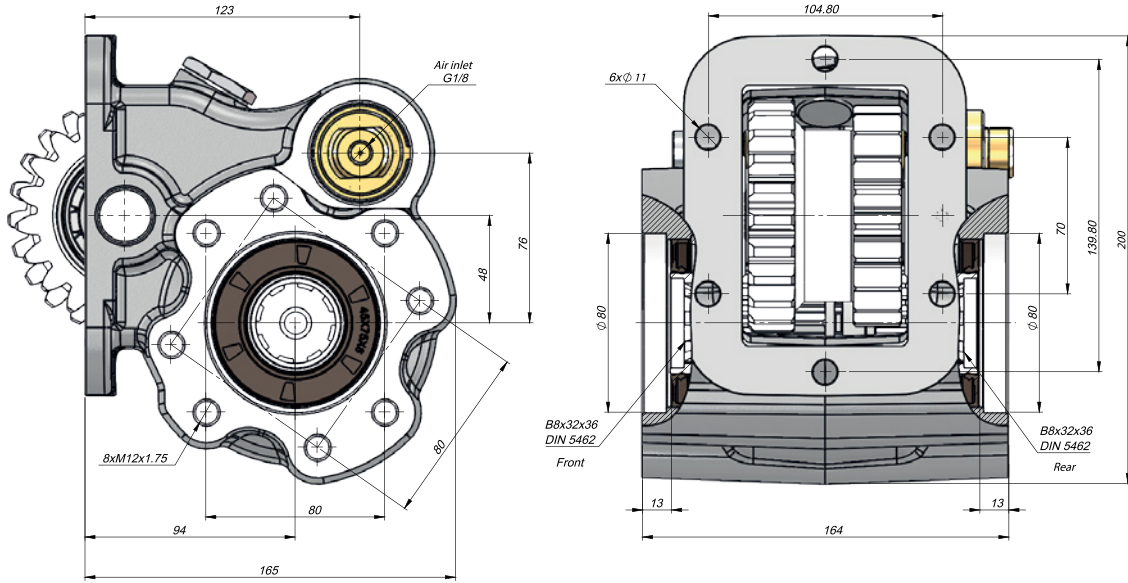
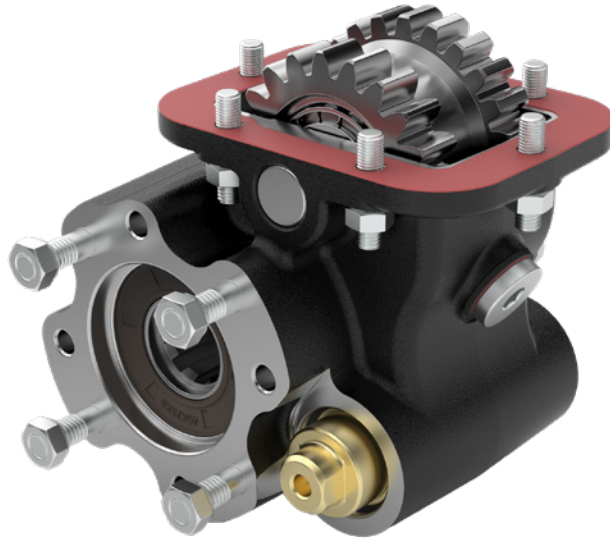
Kod Code	Şanzıman No Gearbox No	Montaj Assembly	Kontrol Sistemi Control System	P.T.O Mil Dönüş Yönü P.T.O Shaft Rotation	PTO Ratio @1000 RPM Normal
GBKM22UF43	KAMAZ 14,15 - KAMAZ 14-100 (5 MARCE) - 15-100 (10 MARCE)	Sağ Right	Havalı Pneumatic	Sağ Right	690



POWER TAKE  
OFFS

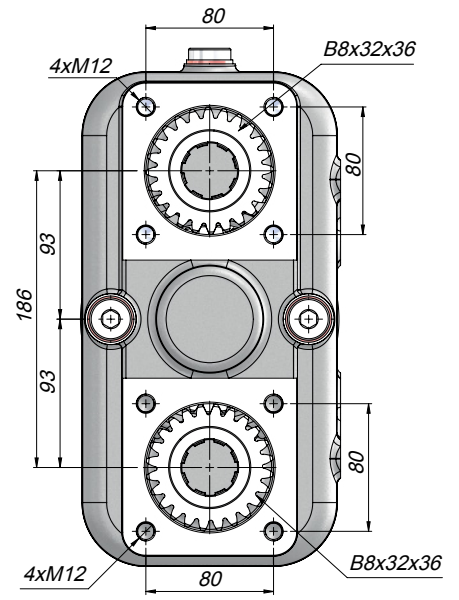
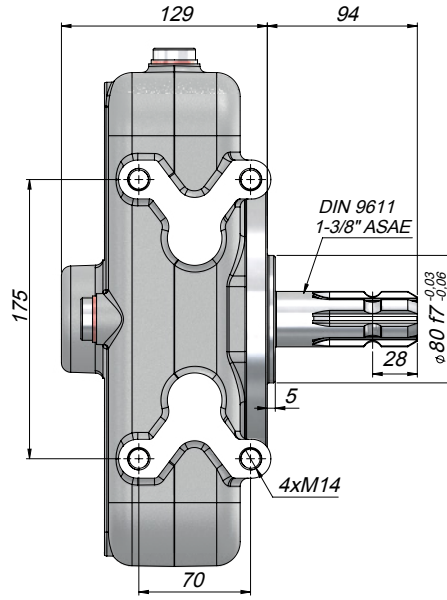
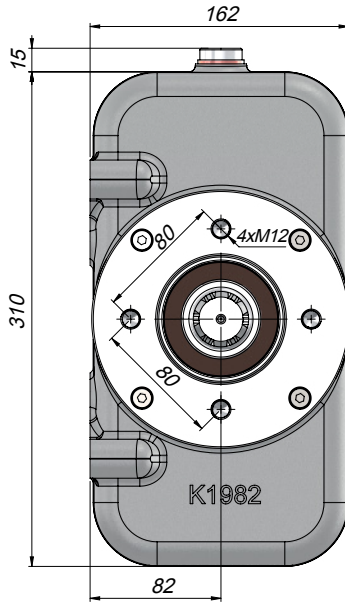
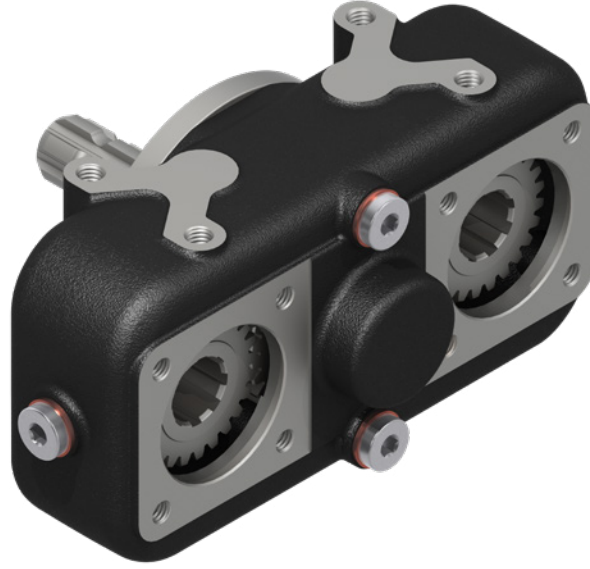


Kod Code	Max. Tork Max. Torque	Montaj Assembly	Çıkış Output	Adaptör Adapter	Dönüş Yönü Rotation
GBKM65111	600	Arka Rear	Arka Rear	KAMAZ 65111-1800020	Sağ Right



Kod Code	Şanzıman No Gearbox No	Montaj Assembly	Kontrol Sistemi Control System	P.T.O Mil Dönüş Yönü P.T.O Shaft Rotation	Çıkış Tork Output Torque (Nm)	PTO Devir PTO Speed @1000 RPM	
GBKM1415100	KAMAZ 14-100 5 MARCE/SPEED	Sağ Right	Havalı Pneumatic	Sol(Arka) Left(Rear)	350	Low	High
	KAMAZ 15-100 10 MARCE/SPEED			Sağ(Ön) Right(Front)		661	812*

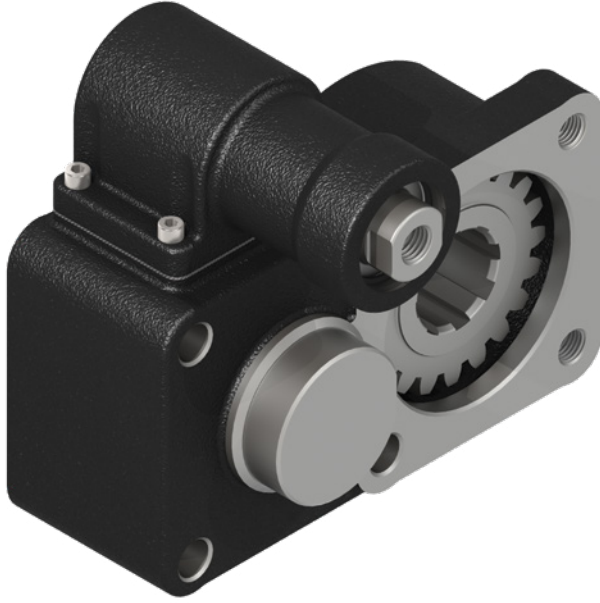
812\* RPM is just for gearbox of KAMAZ 15-100 10 MARCE/SPEED



POWER TAKE  
OFFS

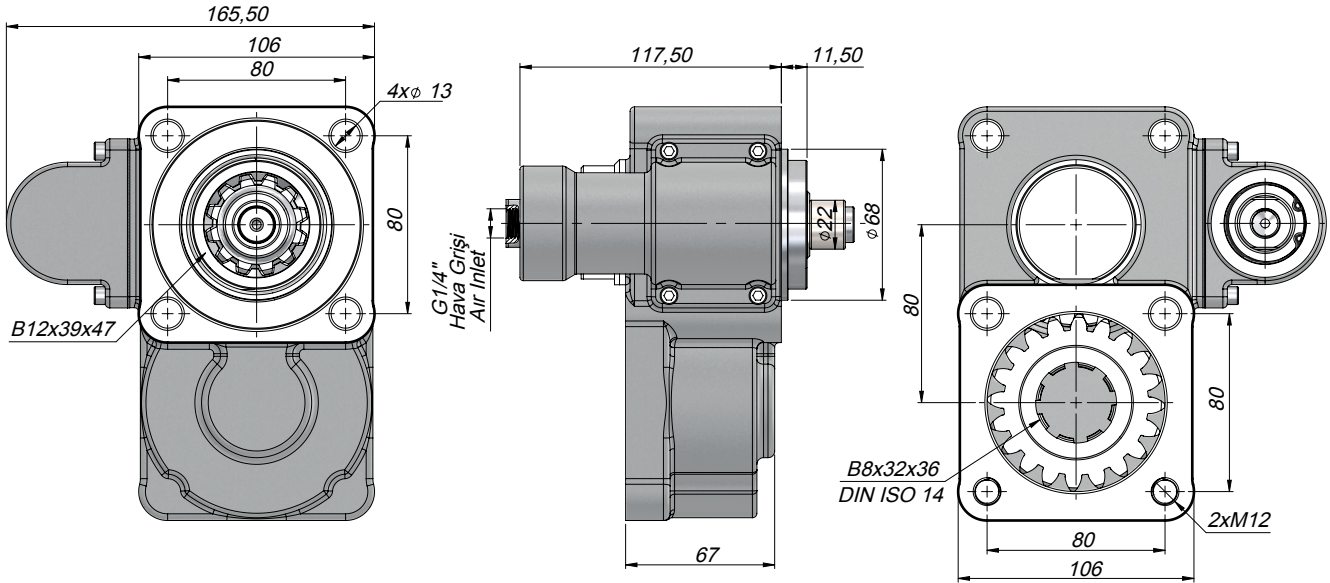
Kod Code	Dişli Oranı Gear Ratio	Sürekli Giriş Torkü Continuous Input Torque	Maksimum Giriş Torkü Max.Input Torque	Sürekli Çıkış Torkü Continuous Output Torque	Maksimum Çıkış Torkü Max.Output Torque	Yağlama Yağı Aralıklı Çalışma Lubrication Oil Intermittent Operation	Ağırlık Weight
		(Nm)				(l)	(Kg)
PT2SBSF2	1:1.54	700	1000	230	320	0,5	20

## TEKNİK VERİLER | TECHNICAL DATA



Şanzıman No / Gearbox No

ZF16S251, ZF16S221, ZF16S151, ZF16S150, ZF16S130,  
ZF S5/AK/65, ZF S5/AK/120, ZF S5/AK/111, ZF S5/AK/110,  
ZF S5/AK/92, GP ZF S5/AK/6S-90, GP ZF S5/AK/6S-80, GP  
ZF S5/AK/6S-70, GP ZF S5/AK/6S-66, GP ZF S5/AK/6S-65,  
GP ZF S5/AK/6S-55, GP ZF S5/AK/6S-50, GP ZF S5/  
AK/6S-42, GP ZF S5/AK/6S-36, GP ZF S5/AK/6S-35

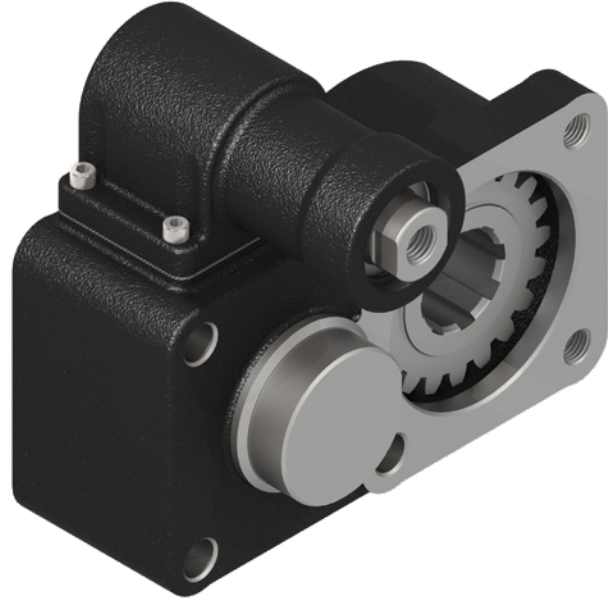


POWER TAKE  
OFFS

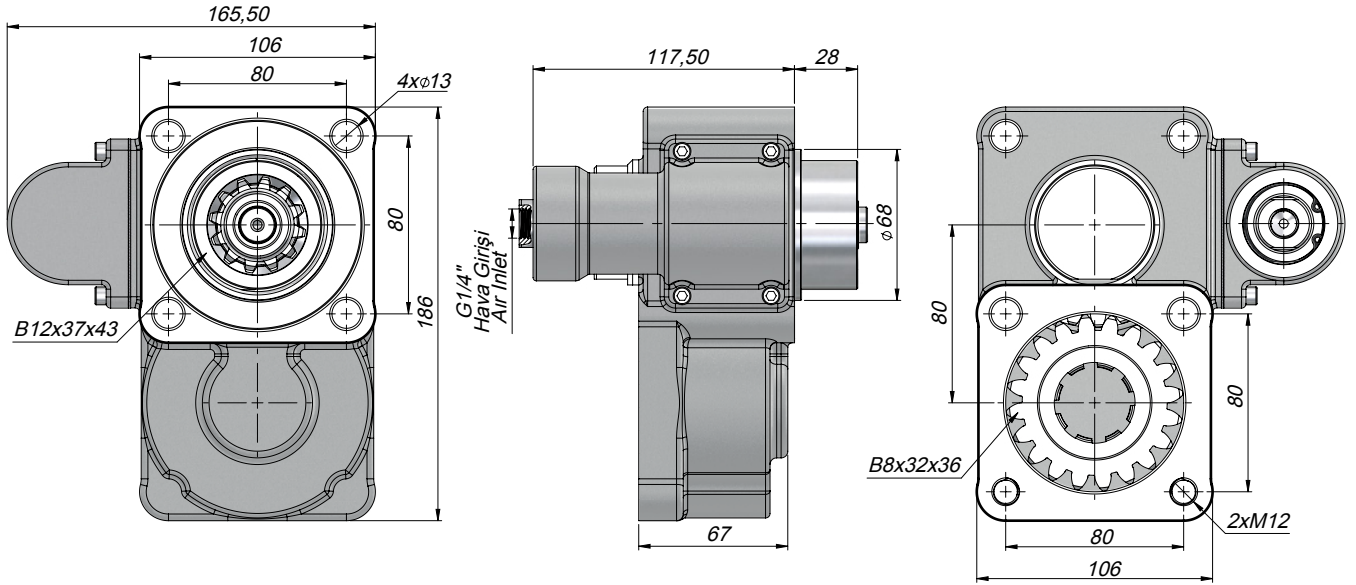
Kod Code	Havalı Çalışma Basıncı Pneumatical Working Pressure	Kontrol Sistemi Control System	Çevrim Oranı Ratio	Çıkış Tork Outlet Torque		Güç Power		Dönüş Yönü Direction Of Rotation
	(Bar)			(Kgm)	(Nm)	(Kw)	1000 dev/dak	
PT2ZFS12	7-12	Havalı Pneumatic	1,19	29	284	28,2 Hp	20,7 Kw	Sol Left

Şanzıman No / Gearbox No

6AS-850/6.72, 6S-800 T0/6.58-0.78, 6S-850/6.72-0.79,  
6S-850/6.72-8.51, S5-35/5.64, S5-35/7.65, S5-45/7.65-  
6.32-7.43, S6-36/6.06, S6-36/8.97 + GV36/7.43, S6-  
36/8.97-1.0



POWER TAKE  
OFFS

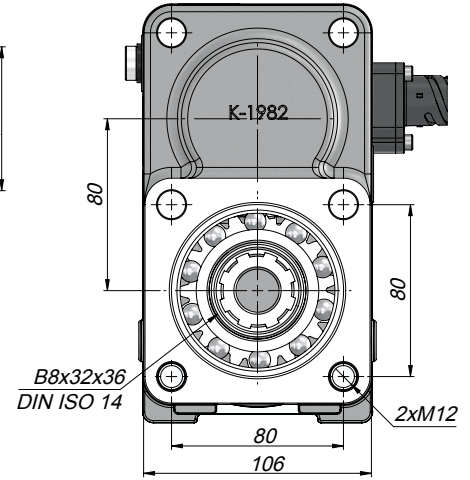
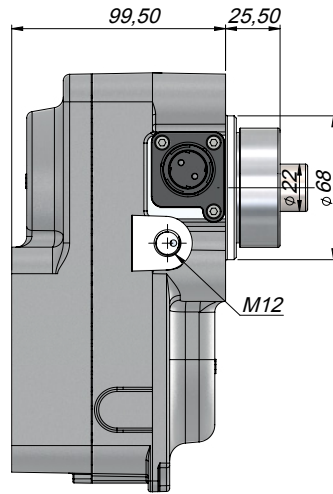
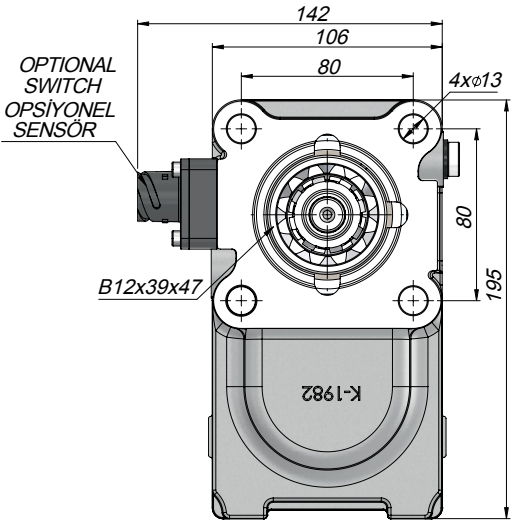


Kod Code	Havalı Çalışma Basıncı Pneumatical Working Pressure	Kontrol Sistemi Control System	Çevrim Oranı Ratio	Çıkış Tork Outlet Torque		Güç Power		Dönüş Yönü Direction Of Rotation
	(Bar)			(kgm)	(Nm)	(kw)	1000 dev/dak	
PT2AXS12	7-12	Havalı Pneumatic	1,19	29	284	28.2 Hp	20.7 Kw	Sol Left

## TEKNİK VERİLER | TECHNICAL DATA



Şanzıman No / Gearbox No  
 ZF16S251-221-151-150-130,ZF55/  
 AK/6S-120-111-110-92,GPZFS5/AK/6S-90  
 80-70-66-65-55-50 42-36-35/ ZF 9S 75/  
 9S109/16S109/ ZF AK 680/AK 690/S680/S690

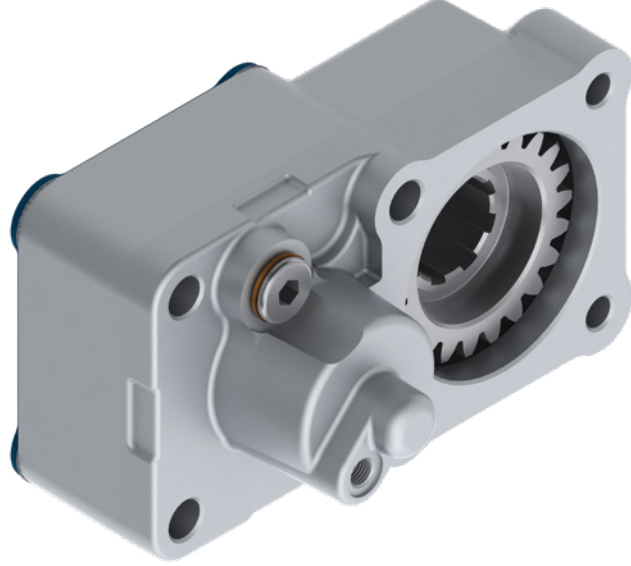


POWER TAKE  
OFFS

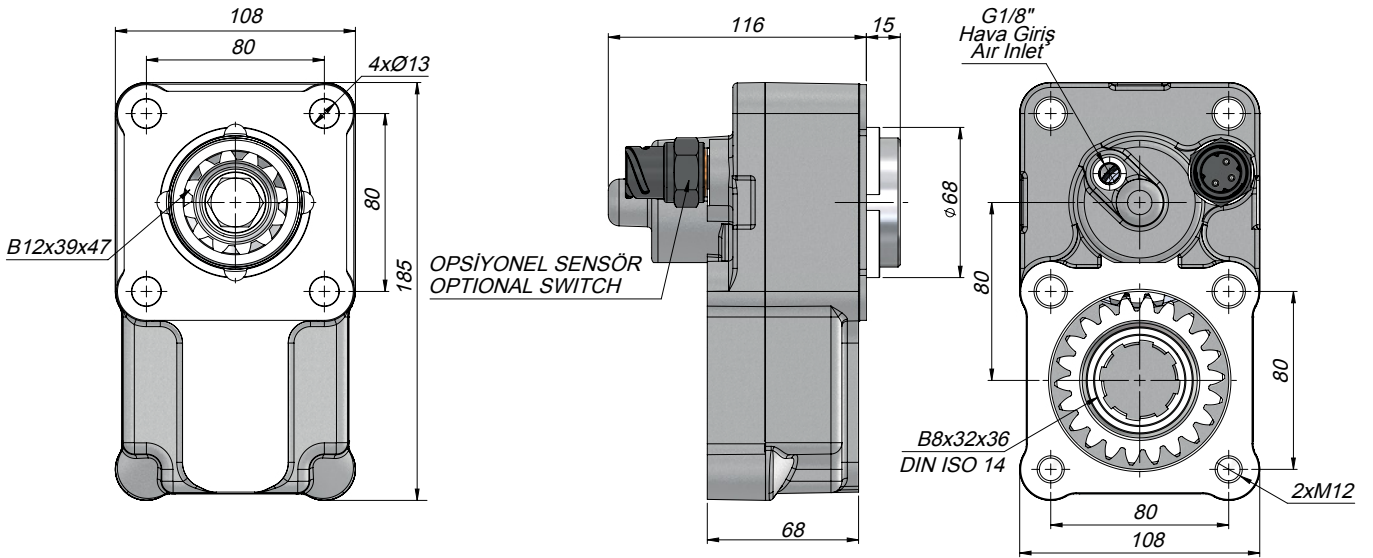
Kod Code	Havalı Çalışma Basıncı Pneumatical Working Pressure	Kontrol Sistemi Control System	Çevrim Oranı Ratio	Çıkış Tork Outlet Torque		Güç Power		Dönüş Yönü Direction Of Rotation
	(Bar)			(Kg <sub>m</sub> )	(Nm)	(Kw) 1000 dev/dak		
PT2NHS12WS	7-12	Havalı Pneumatic	1,28	43.80	430	30 Hp	22 Kw	Sol Left
PT2NHS12SW								

\* (SW) - Switch  
 (WS) - Without Switch

Şanzıman No / Gearbox No  
 ZF16S251-221-151-150-130,ZFS5/  
 AK/6S-120-111-110-92,GPZF55/AK/6S-90  
 80-70-66-65-55-50 42-36-35/ ZF 9S 75/  
 9S109/16S109/ ZF AK 680/AK 690/S680/S690



POWER TAKE  
OFFS



Kod Code	Havalı Çalışma Basıncı Pneumatical Working Pressure	Kontrol Sistemi Control System	Çevrim Oranı Ratio	Çıkış Tork Outlet Torque		Güç Power		Dönüş Yönü Direction Of Rotation
	(Bar)			(Kg <sub>m</sub> )	(Nm)	(Kw) 1000 dev/dak		
PT2ZFAS12WS	7-12	Havalı Pneumatic	1.35	43.8	300	30 Hp	22 Kw	Sol Left
PT2ZFAS12SW								

\*(SW) - Switch

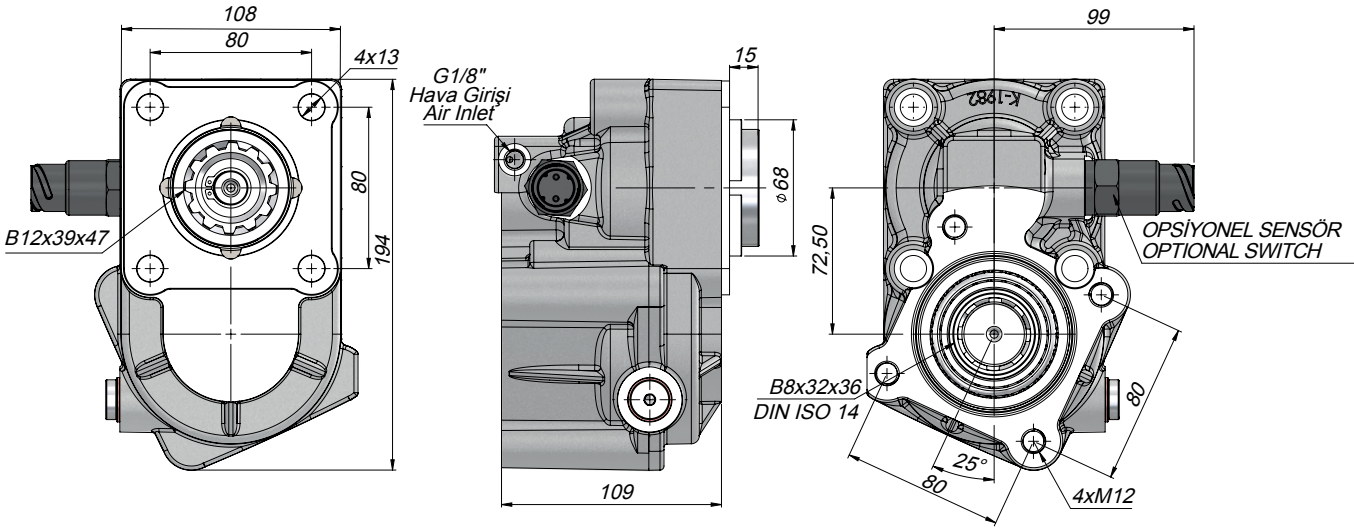
(WS) - Without Switch



## TEKNİK VERİLER | TECHNICAL DATA



Şanzıman No / Gearbox No  
 ZF16S251-221-151-150-130,ZFS5/  
 AK/6S-120-111-110-92,GPZFS5/AK/6S-90  
 80-70-66-65-55-50 42-36-35/ ZF 9S 75/  
 9S109/16S109/ ZF AK 680/AK 690/S680/S690



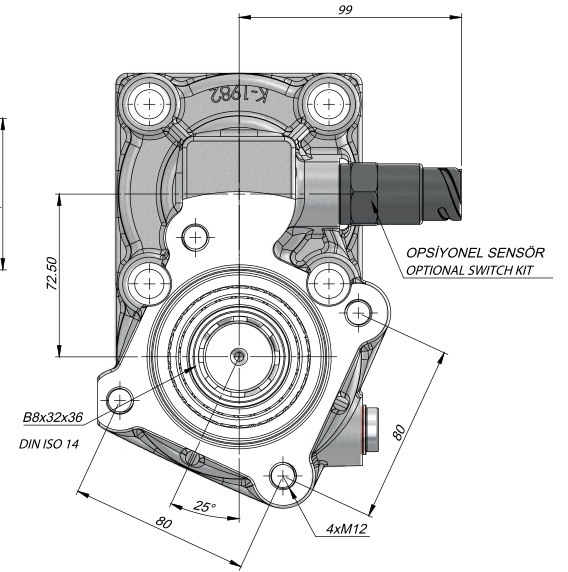
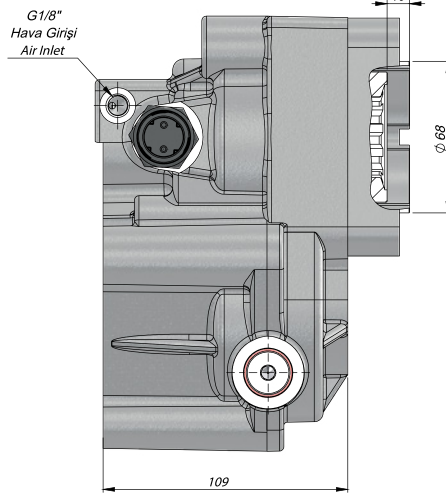
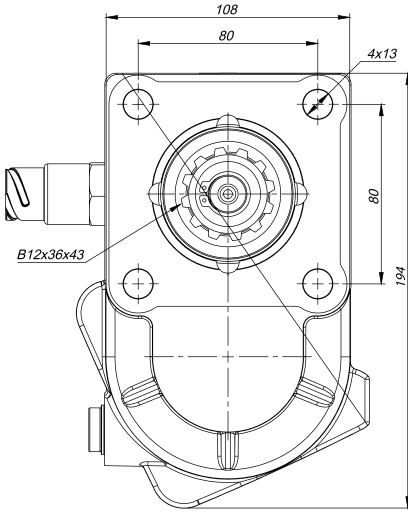
POWER TAKE  
OFFS

Kod Code	Havalı Çalışma Basıncı Pneumatical Working Pressure	Kontrol Sistemi Control System	Çevrim Oranı Ratio	Çıkış Tork Outlet Torque		Güç Power		Dönüş Yönü Direction Of Rotation
	(Bar)			(Kçm)	(Nm)	(Kw) 1000 dev/dak		
PT2VCS153SW	7-12	Havalı Pneumatic	1,53	40	400	28.2 Hp	20.7 Kw	Sol Left
PT2VCS153WS								

\* (SW) - Switch  
 (WS) - Without Switch



POWER TAKE  
OFFS



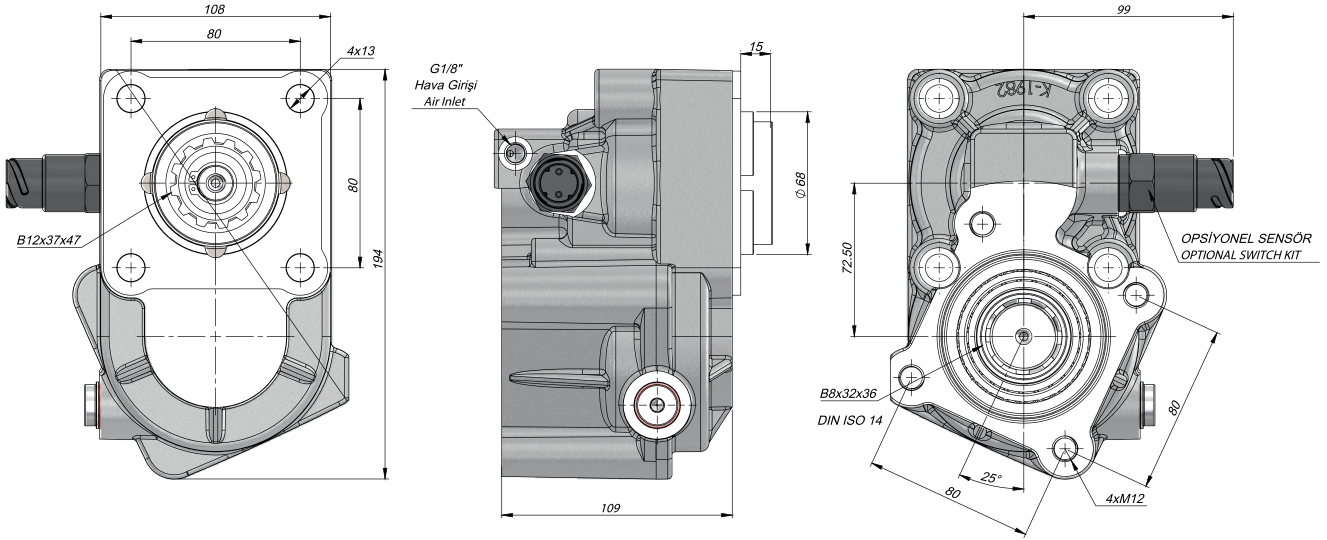
Kod Code	Havalı Çalışma Basıncı Pneumatical Working Pressure	Şanzuman Modeli Gear Box Model	Kontrol Sistemi Control System	Çevrim Oranı Ratio	Dönüş Yönü Direction Of Rotation
	(Bar)				
PT2ETN4153WS	7-12	Eaton 4106	Havalı Pneumatic	1.53	Sol Left
PT2ETN4153SW					
PT2ETN4133WS					
PT2ETN4133SW					

\* (SW) - Switch  
(WS) - Without Switch

### TEKNİK VERİLER | TECHNICAL DATA



Şanzıman No / Gearbox No  
6AS-850/6.72, 6S-800 TO/6.58-0.78, 6S-850/6.72-0.79, 6S-850/6.72-8.51, S5-35/5.64, S5-35/7.65, S5-45/7.65-6.32-7.43, S6-36/6.06, S6-36/8.97 + 6V36/7.43, S6-36/8.97-1.0



POWER TAKE  
OFFS

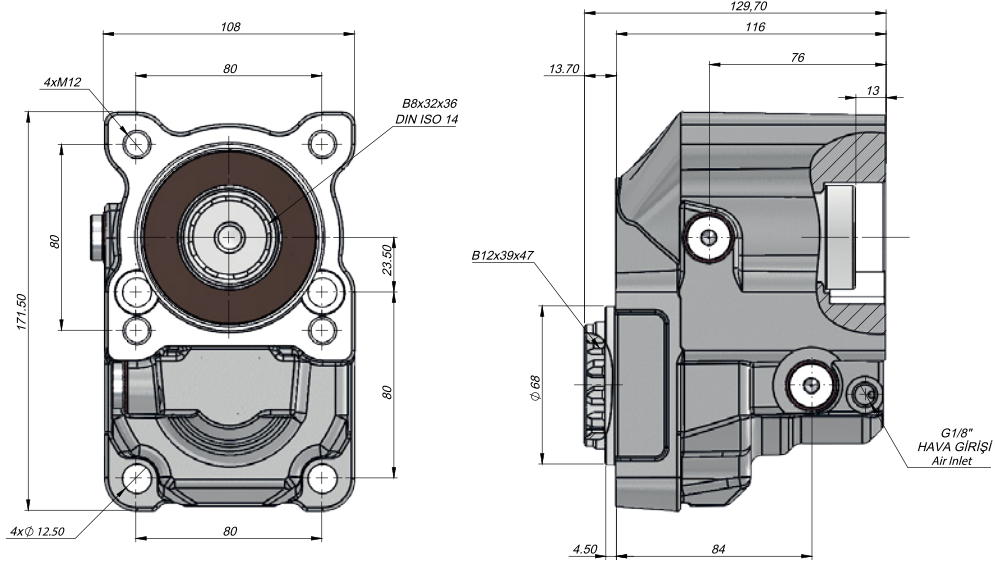
Kod Code	Havalı Çalışma Basıncı Pneumatical Working Pressure	Kontrol Sistemi Control System	Çevrim Oranı Ratio	Dönüş Yönü Direction Of Rotation
	(Bar)			
PT2SNR153WS	7-12	Havalı Pneumatic	1.53	Sol Left
PT2SNR153SW				
PT2SNR133WS			1.33	
PT2SNR133SW				

\* (SW) - Switch

(WS) - Without Switch

Şanzıman No / Gearbox No

ZF 16S 251-221-151-150-130 ZF S5/AK/ 6S-120-111-110-92, GP ZF S5/ K/6S-90-80-70-66-65-55-50 42-36-35/ZF 9S 75/ 9S109/16S10 9/ ZF AK 6 80/AK 6 90 /S6 80/S690, ZF 6S-1000: 694 rpm; ZF9S-1310: 1273 rpm, ZF 16S-151 T0 / 13.8-0.84: 1192/1428 rpm, ZF 16S-1820: 1192/1428 rpm, ZF 16S-2220 TD: 1009/1192 rpm, ZF 16S-2220 T0 192/1428 rpm, ZF 16S-2520: 1192/1428 rp



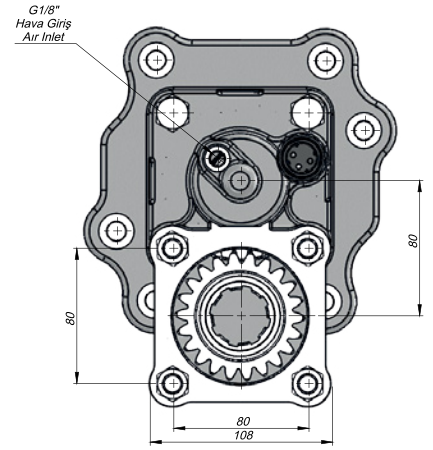
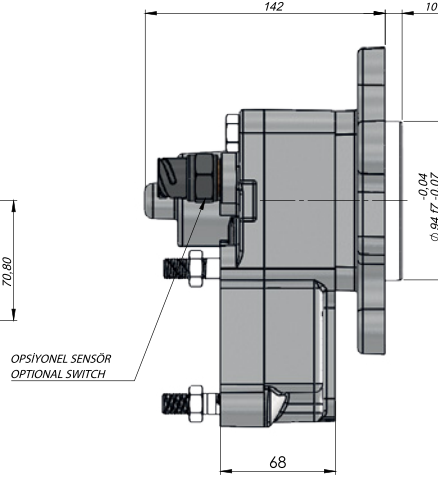
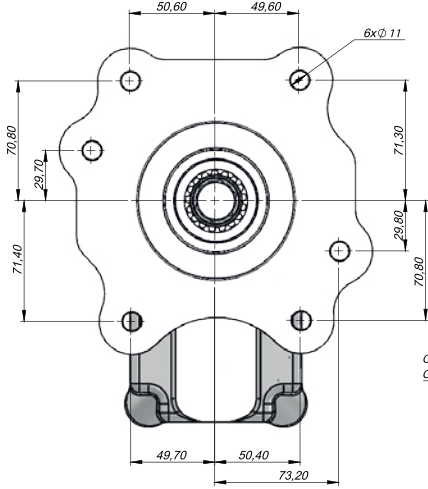
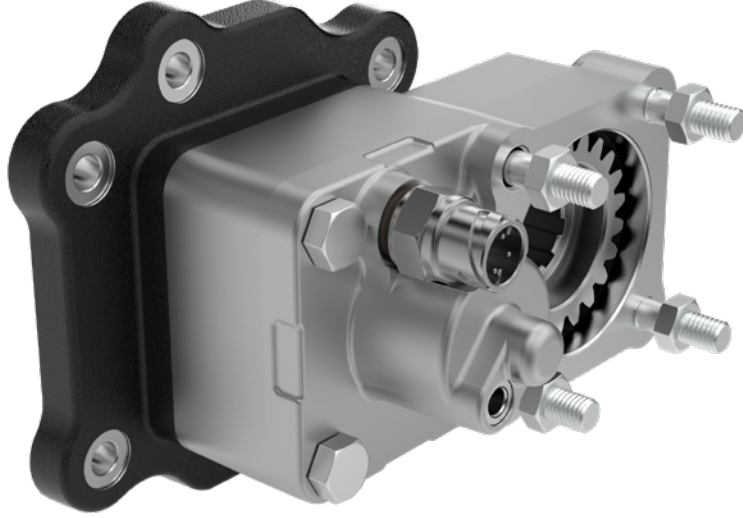
POWER TAKE  
OFFS

Kod Code	Havalı Çalışma Basıncı Pneumatical Working Pressure	Montaj Flanş Mounting Flange	Çıkış Out	Kontrol Sistemi Control System	Çevrim Oranı Ratio	Dönüş Yönü Direction Of Rotation
	(Bar)					
PT2S131WS	7-12	Arka Rear	Arka Rear	Havalı Pneumatic	1:1,31	Sol Left
PT2S131SW						

\*(SW) - Switch

(WS) - Without Switch

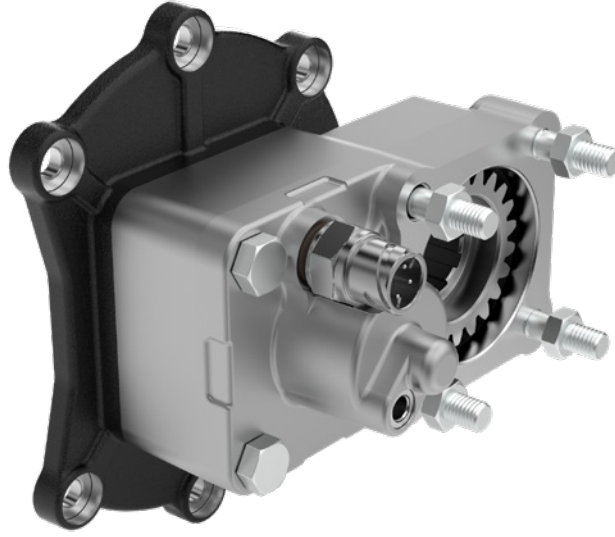
**TEKNİK VERİLER | TECHNICAL DATA**



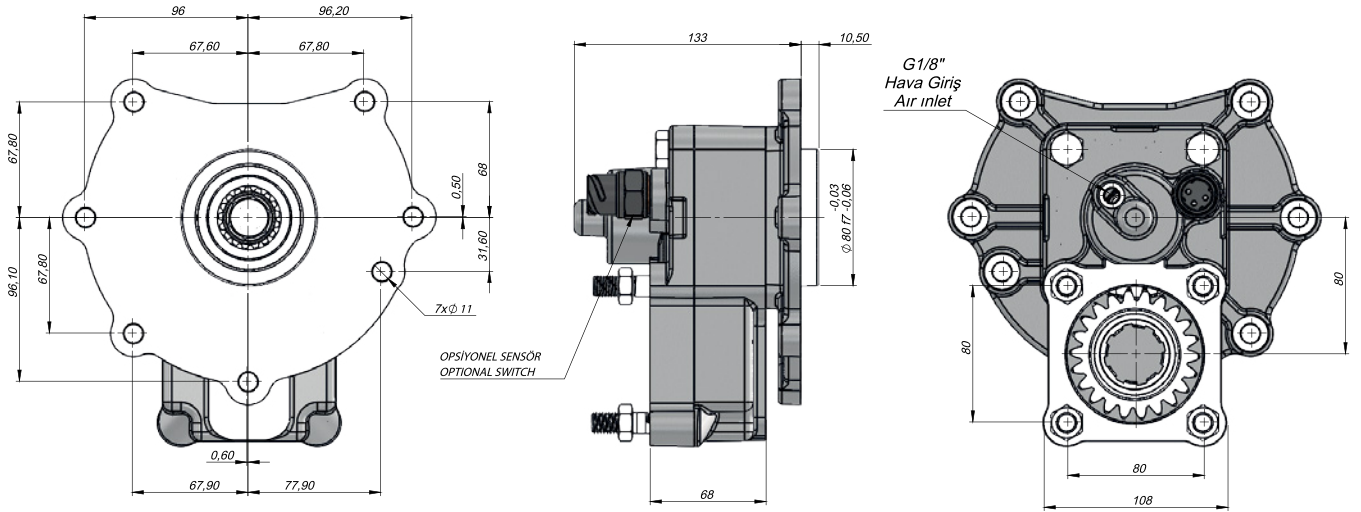
POWER TAKE  
OFFS

Kod Code	Havalı Çalışma Basıncı Pneumatical Working Pressure	Şanzuman Modeli Gear Box Model	Kontrol Sistemi Control System	Çevrim Oranı Ratio	Çıkış Tork Outlet Torque		Güç Power		Dönüş Yönü Direction Of Rotation
	(Bar)				(Kgm)	(Nm)	(Kw) 1000 dev/dak		
PT2ZFAS1256WS	7-12	G56-6(6,291)	Havalı Pneumatic	1.35	43.8	300	30 Hp	22 Kw	Sol Left
PT2ZFAS1256SW									

\*(SW) - Switch  
(WS) - Without Switch



POWER TAKE  
OFFS

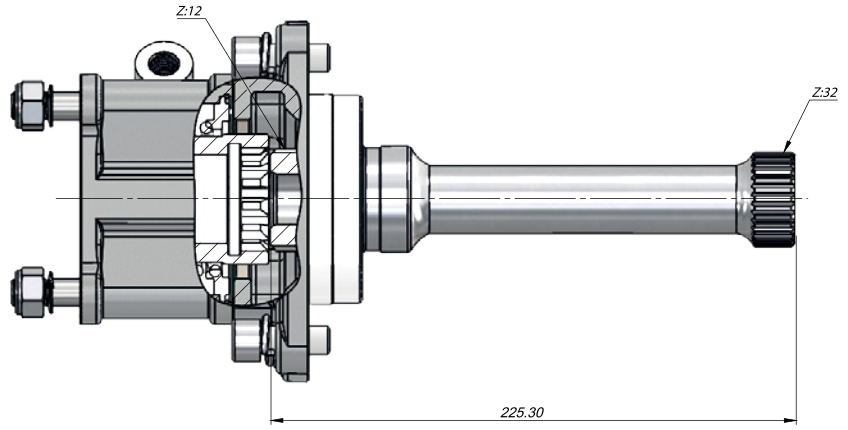
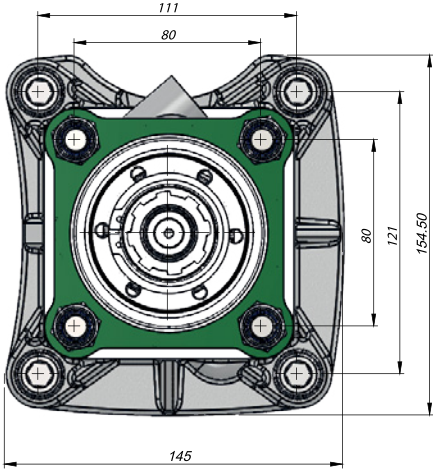


Kod Code	Havali Çalışma Basıncı Pneumatical Working Pressure	Şanzuman Modeli Gear Box Model	Kontrol Sistemi Control System	Çevrim Oranı Ratio	Çıkış Tork Outlet Torque		Güç Power		Dönüş Yönü Direction Of Rotation
	(Bar)				(Kg <sub>m</sub> )	(Nm)	(Kw) 1000 dev/dak		
PT2ZFAS1260WS	7-12	G 60-6/9,2, G 60-6/9, 2 (GC5), G 85-6/6,70 (GC6)	Havali Pneumatic	1.35	43.8	300	30 Hp	22 Kw	Sol Left
PT2ZFAS1260SW									

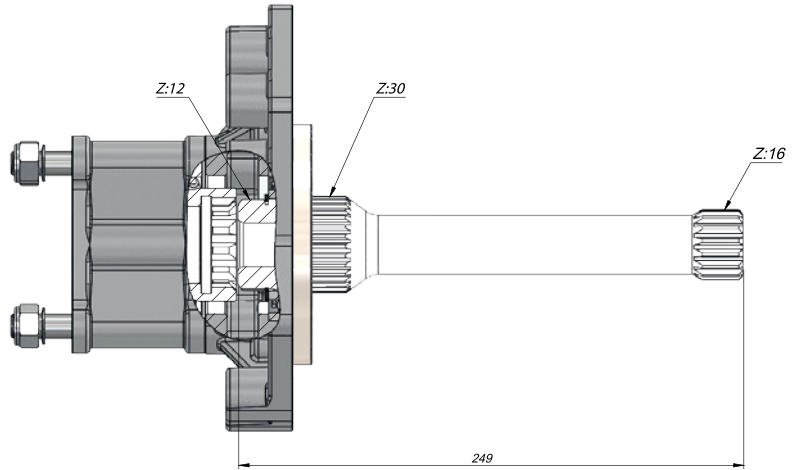
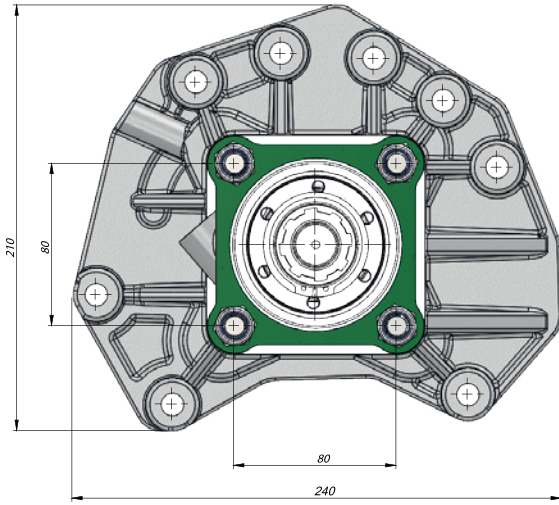
\*(SW) - Switch

(WS) - Without Switch

## TEKNİK VERİLER | TECHNICAL DATA

POWER TAKE  
OFFS

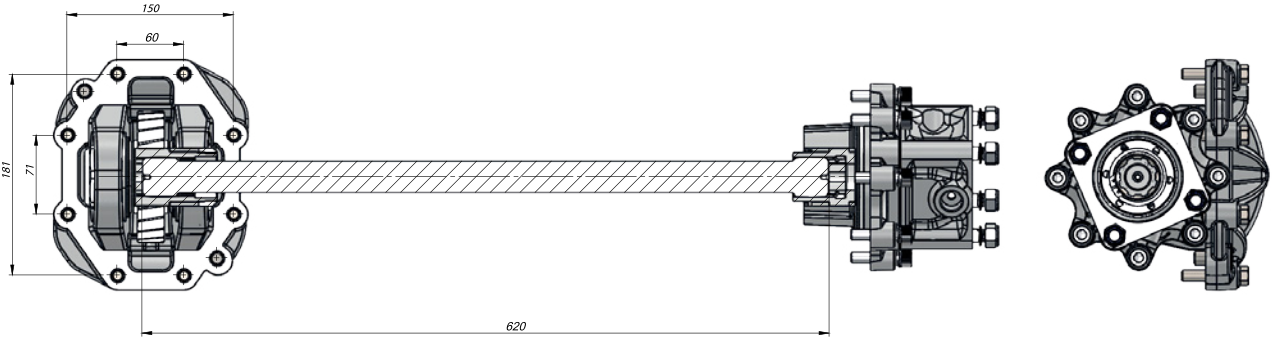
Kod Code	Şanzuman Modeli Gear Box Model
PT1ZFS12AT2412C225	AT2412C...AT3112C

POWER TAKE  
OFFS

Kod Code	Şanzuman Modeli Gear Box Model	Mercedes Orjinal PTO'suz Kardan Şaft Uzunluğu Original Mercedes Shaft Length Without PTO
PT1ZFS12C1316249	G131...G330	210

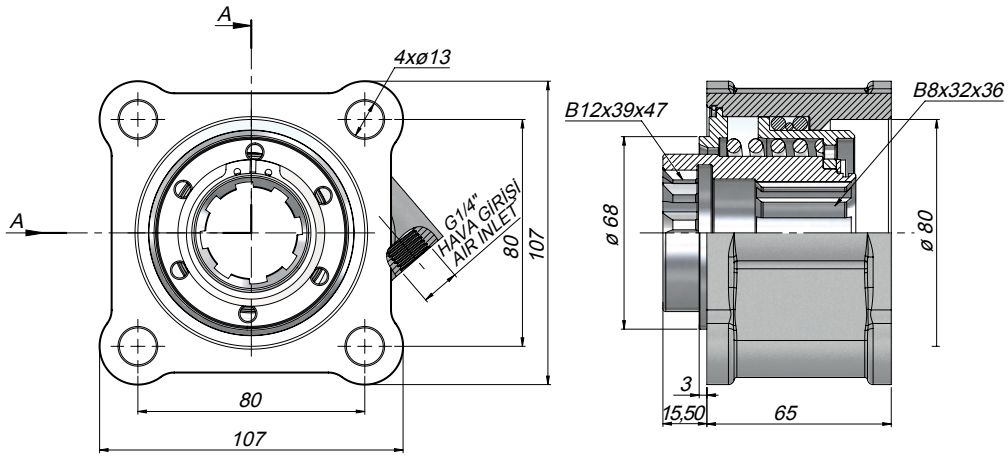
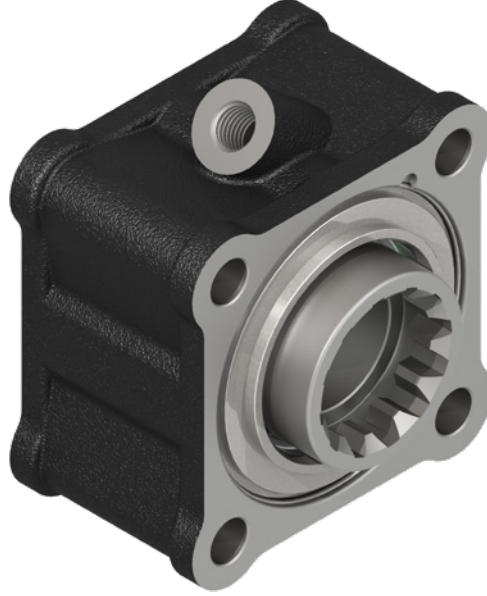


## TEKNİK VERİLER | TECHNICAL DATA

POWER TAKE  
OFFS

Kod Code	Şanzuman Modeli Gear Box Model	Havalı Çalışma Basıncı Pneumatical Working Pressure	Tork Torque	Assembly Power	Dönüş Yönü Direction Of Rotation
GBSCGRS905R	GR905-GRS905	7-12	436	Sağ Kuyruk Right Rear	Sol Left

Şanzıman No / Gearbox No  
 ZF16S251-221-151-150-130,ZFS5/  
 AK/6S-120-111-110-92,GPZFS5/AK/6S-90  
 80-70-66-65-55-50 42-36-35/ ZF 9S 75/  
 9S109/16S109/ZFAK 680/AK 690/S680/S690

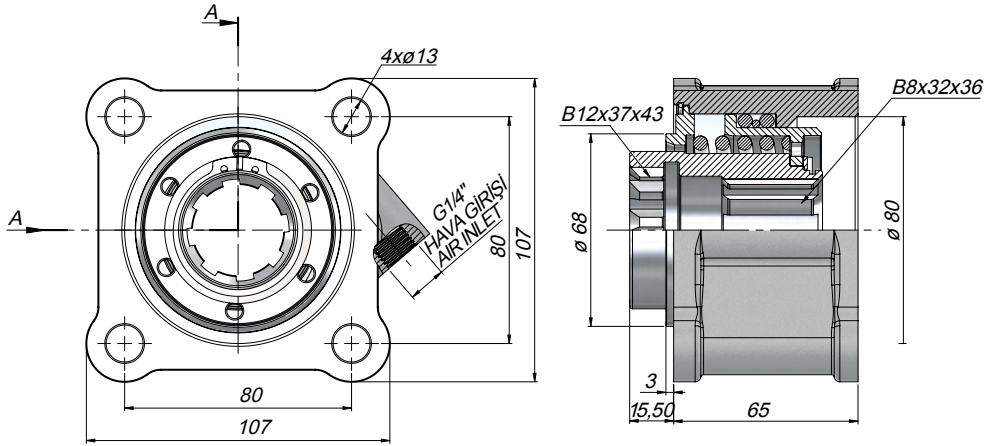
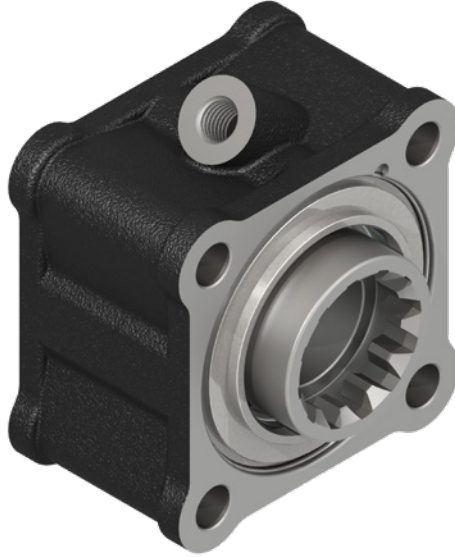


Kod Code	Havalı Çalışma Basıncı Pneumatical Working Pressure	Kontrol Sistemi Control System	Çıkış Tork Outlet Torque		Güç Power	
	(Bar)		(Kgm)	(Nm)	(Kw) 1000 dev/dak	
PT1ZFS12	7-12	Havalı Pneumatic	57	230	35 Hp	25.7 Kw

## TEKNİK VERİLER | TECHNICAL DATA

Şanzıman No / Gearbox No

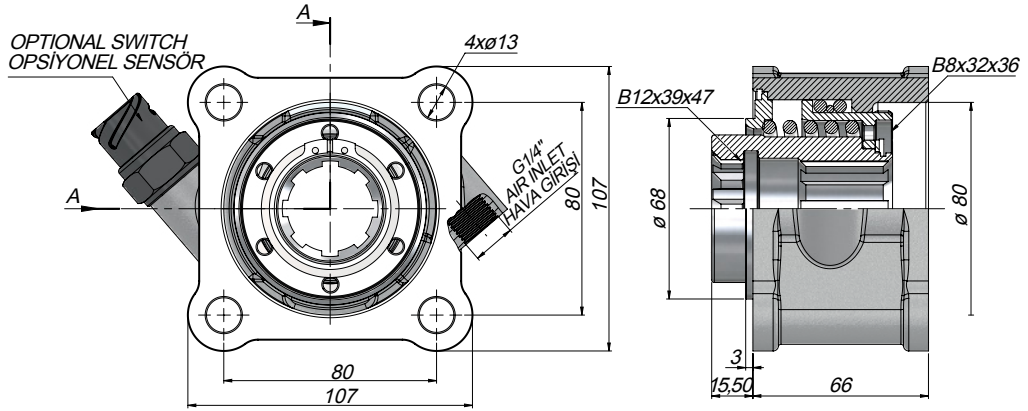
6AS-850/6.72, 6S-800 T0/6.58-0.78, 6S-850/6.72-0.79, 6S-850/6.72-8.51, S5-35/5.64, S5-35/7.65, S5-45/7.65-6.32-7.43, S6-36/6.06, S6-36/8.97 + GV36/7.43, S6-36/8.97-1.0



Kod Code	Havalı Çalışma Basıncı Pneumatical Working Pressure	Kontrol Sistemi Control System	Çıkış Tork Outlet Torque		Güç Power	
	(Bar)		(Kgm)	(Nm)	(Kw) 1000 dev/dak	
PT1AXS12S	7-12	Havalı Pneumatic	57	230	35 Hp	25.7 Kw
PT1ACS12S						

\* (AX) - Axor  
(AC) - Actros

Şanzıman No / Gearbox No  
 ZF16S251-221-151-150-130,ZFS5/  
 AK/6S-120-111-110-92,GPZFS5/AK/6S-90  
 80-70-66-65-55-50 42-36-35/ ZF 9S 75/  
 9S109/16S109/ZFAK 680/AK 690/S680/S690



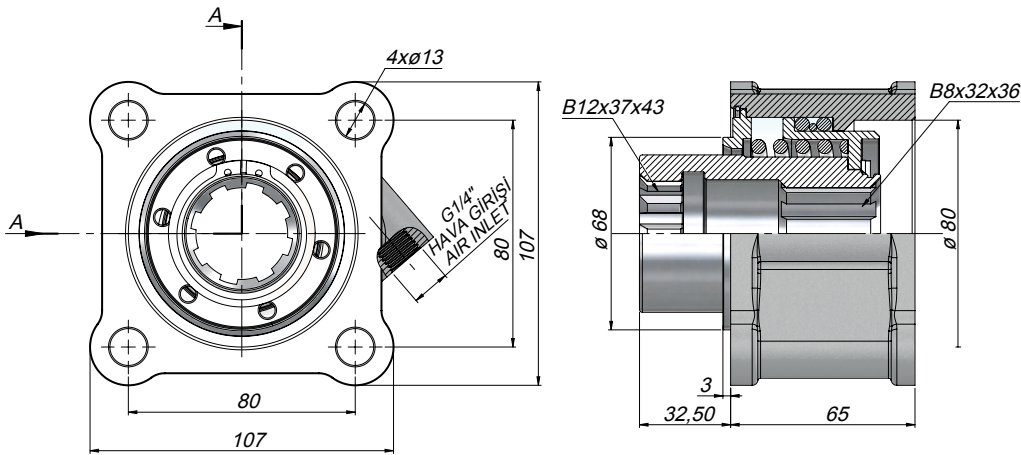
Kod Code	Havalı Çalışma Basıncı Pneumatical Working Pressure	Kontrol Sistemi Control System	Çıkış Tork Outlet Torque		Güç Power	
	(Bar)		(Kg <sub>m</sub> )	(Nm)	(Kw) 1000 dev/dak	
PT1ZFS12(SW)	7-12	Havalı Pneumatic	57	230	35 Hp	25.7 Kw
PT1ZFS12(WS)						

\* (SW) - Switch  
 (WS) - Without Switch

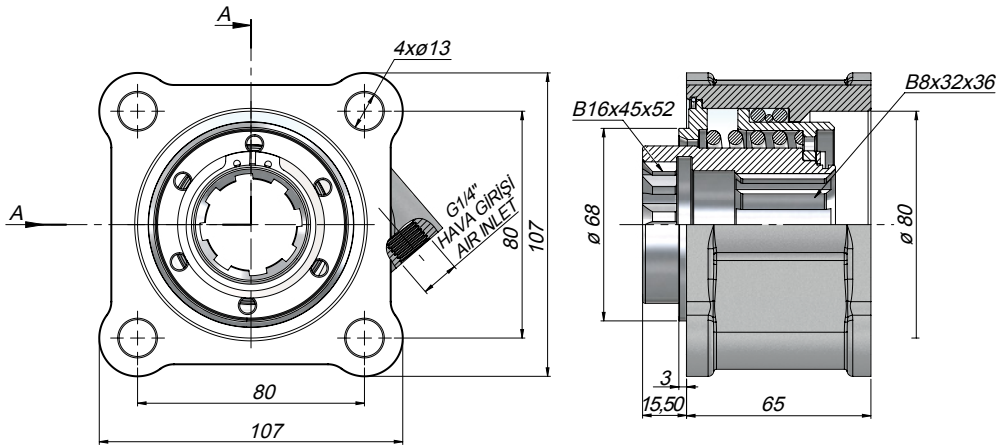
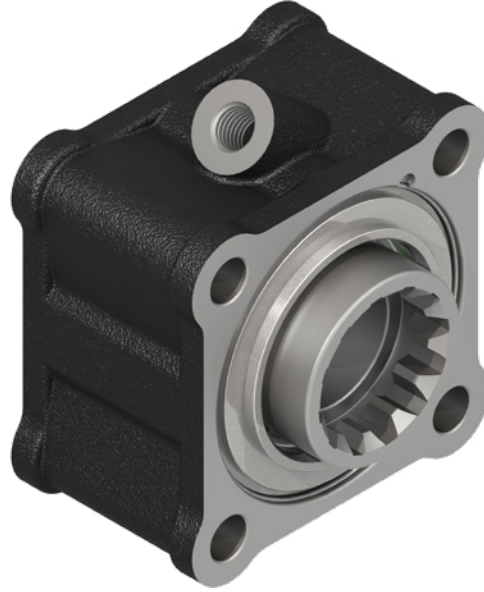
## TEKNİK VERİLER | TECHNICAL DATA

Şanzıman No / Gearbox No

6AS-850/6.72, 6S-800 T0/6.58-0.78, 6S-850/6.72-0.79,  
6S-850/6.72-8.51, S5-35/5.64, S5-35/7.65, S5-45/7.65-  
6.32-7.43, S6-36/6.06, S6-36/8.97 + GV36/7.43, S6-  
36/8.97-1.0



Kod Code	Havalı Çalışma Basıncı Pneumatical Working Pressure	Kontrol Sistemi Control System	Çıkış Tork Outlet Torque	Güç Power
	(Bar)		(Kgm) (Nm)	(Kw) 1000 dev/dak
PT1AXS12L	7-12	Havalı Pneumatic	57 230	35 Hp 25.7 Kw

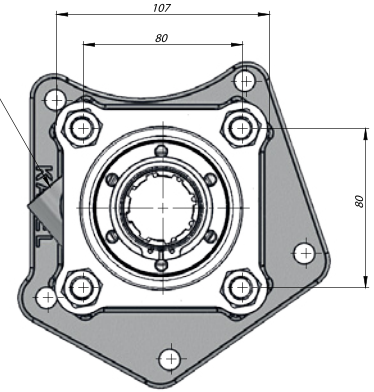
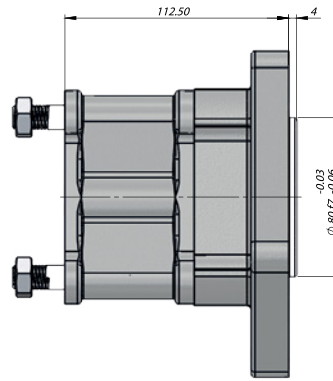
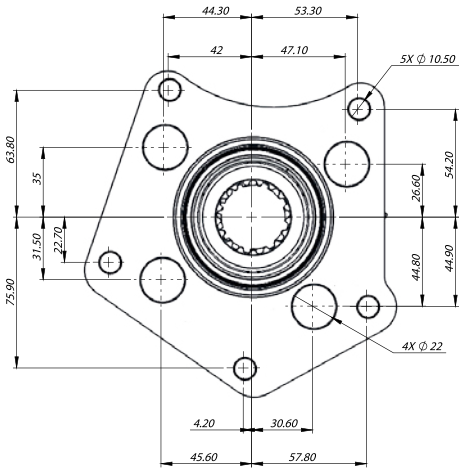


Kod Code	Şanzuman Modeli Gear Box Model	Havalı Çalışma Basıncı Pneumatical Working Pressure	Kontrol Sistemi Control System	Çıkış Tork Outlet Torque		Güç Power	
				(Kg <sub>m</sub> )	(Nm)	(Kw)	1000 dev/dak
PT1VLS16	4.90/120/150 6.36/65/70/75/80/90	7-12	Havalı Pneumatic	57	230	35 Hp	25.7 Kw

## TEKNİK VERİLER | TECHNICAL DATA

Şanzıman No / Gearbox No

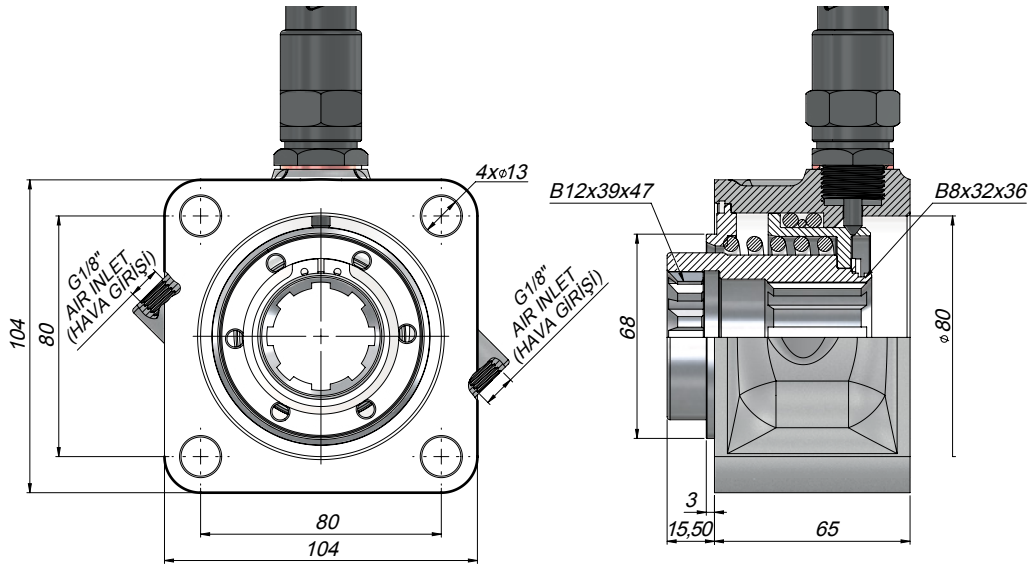
G3/32-5, G3/36-5, G3/40-5, G3/45-5, G3/50-5/8.5, G3/60-5/6.106, G3/60-5/7.508, G3/61-5



POWER TAKE  
OFFS

Kod Code	Havalı Çalışma Basıncı Pneumatical Working Pressure	Kontrol Sistemi Control System	Çıkış Tork Outlet Torque		Güç Power	
	(Bar)		(kgm)	(Nm)	(Kw)	1000 dev/dak
PT1ATS17	7-12	Havalı Pneumatic	57	230	35 Hp	25.7 Kw

Şanzıman No / Gearbox No  
 ZF16S251-221-151-150-130,ZFS5/  
 AK/6S-120-111-110-92,GPZFS5/AK/6S-90  
 80-70-66-65-55-50 42-36-35/ ZF 9S 75/  
 9S109/16S109/ZFAK 680/AK 690/S680/S690



Kod Code	Havalı Çalışma Basıncı Pneumatical Working Pressure	Kontrol Sistemi Control System	Çıkış Tork Outlet Torque	Güç Power		
	(Bar)		(Kıgım) (Nm)	(Kw) 1000 dev/dak		
PT1ZFAS12SW	7-12	Havalı Pneumatic	57	230	35 Hp	25.7 Kw

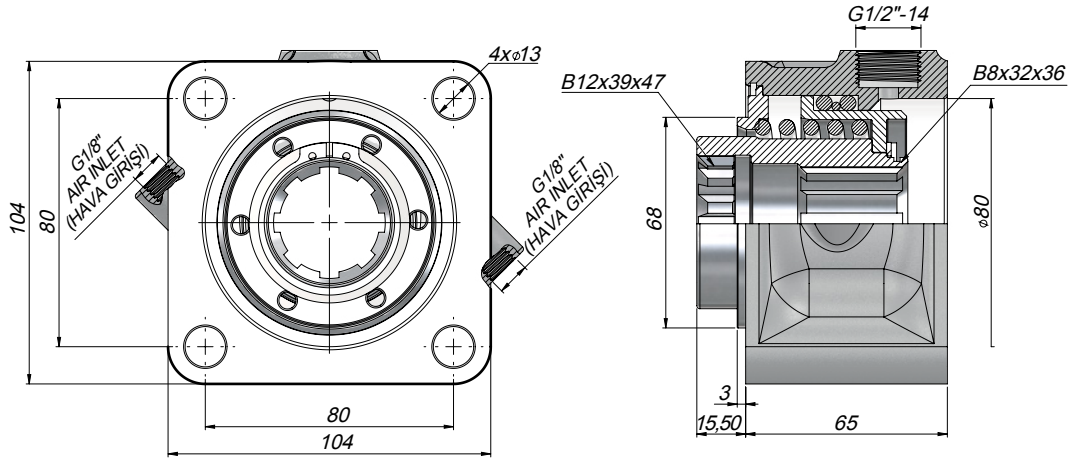
\* (SW) - Switch



## TEKNİK VERİLER | TECHNICAL DATA

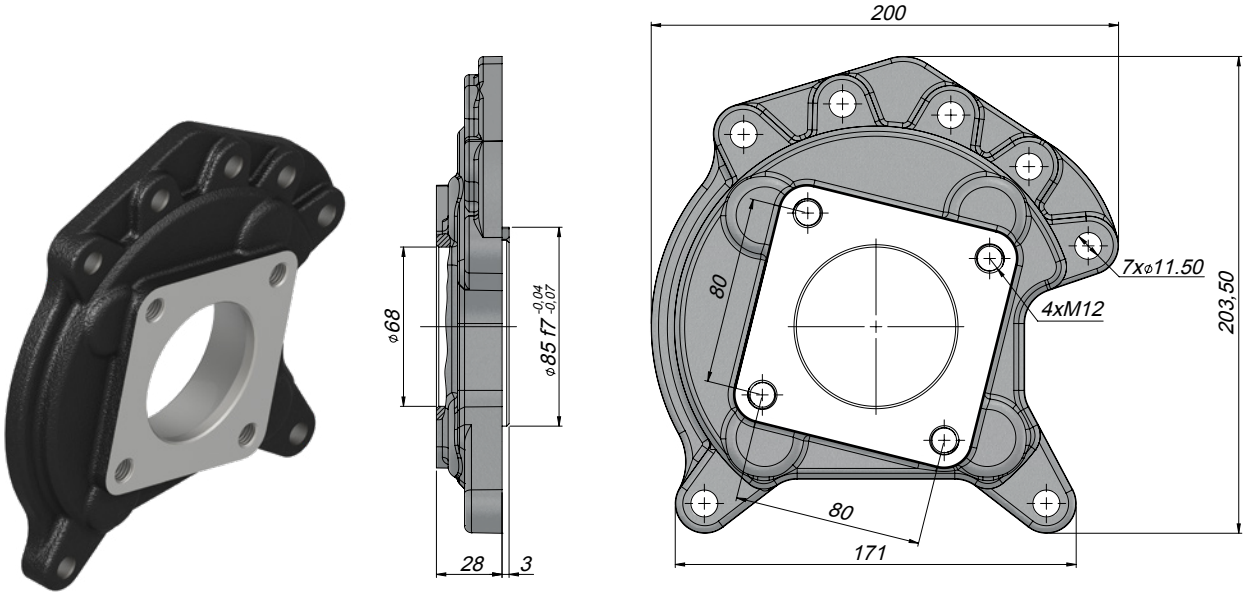
Şanzıman No / Gearbox No

ZF16S251-221-151-150-130,ZFS5/  
AK/6S-120-111-110-92,GPZFS5/AK/6S-90  
80-70-66-65-55-50 42-36-35/ ZF 9S 75/  
9S109/16S109/ ZF AK 680/AK 690/S680/S690

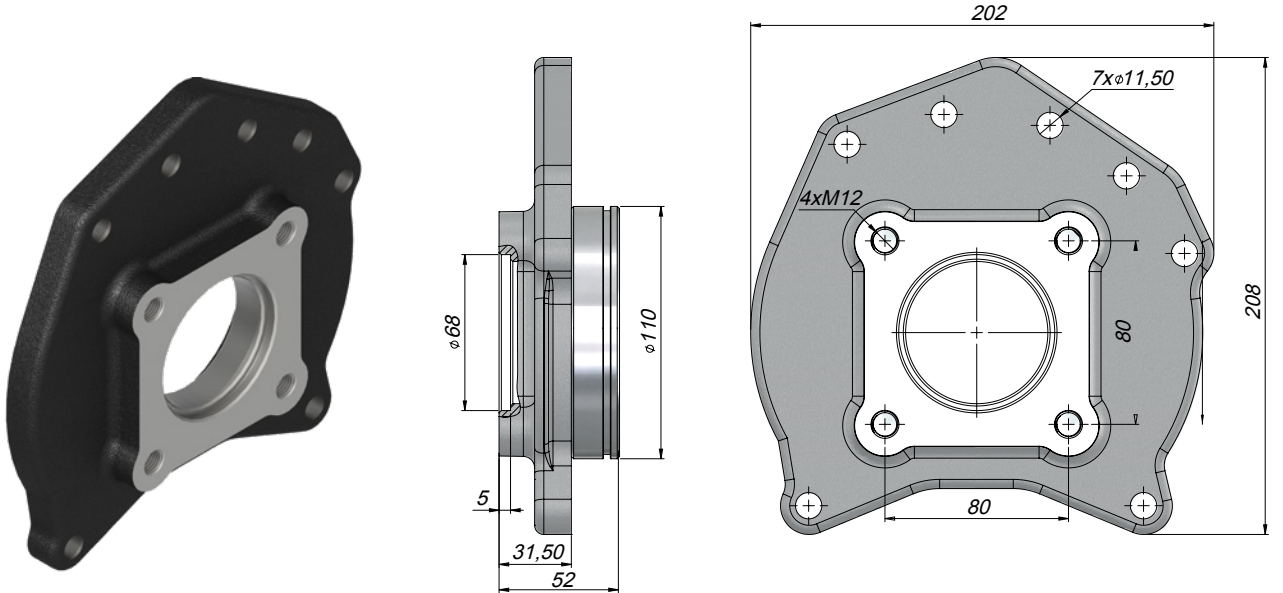


POWER TAKE  
OFFS

Kod Code	Havalı Çalışma Basıncı Pneumatical Working Pressure	Kontrol Sistemi Control System	Çıkış Tork Outlet Torque	Güç Power
	(Bar)		(Kçm) (Nm)	(Kw) 1000 dev/dak
PT1ZFAS12	7-12	Havalı Pneumatic	57 230	35 Hp 25.7 Kw

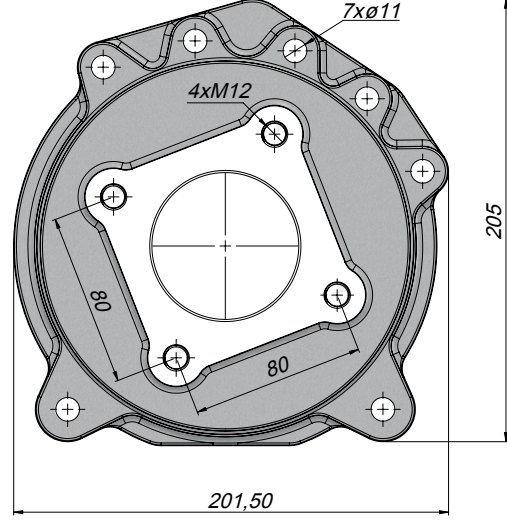
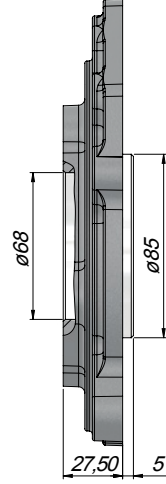


Kod Code	Araç Markası-Kamyon Vehicle Brand-Truck
PL68M6SP	Mercedes 6 Speed



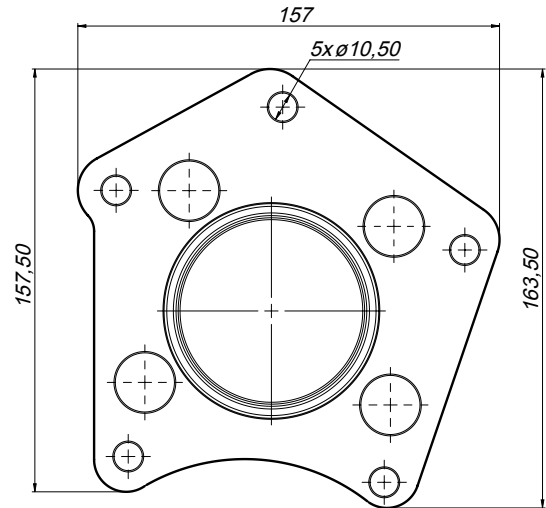
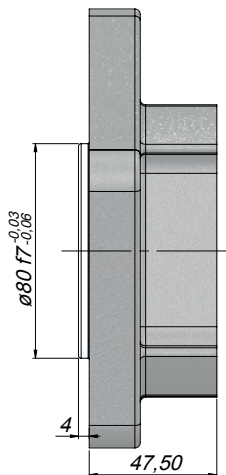
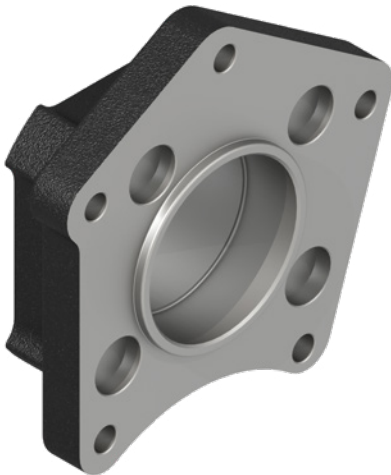
Kod Code	Araç Markası-Kamyon Vehicle Brand-Truck
PL68M1735	Mercedes 1735

TEKNİK VERİLER | TECHNICAL DATA



Kod Code	Araç Markası-Kamyon Vehicle Brand-Truck
PL68M2517	Mercedes 2517

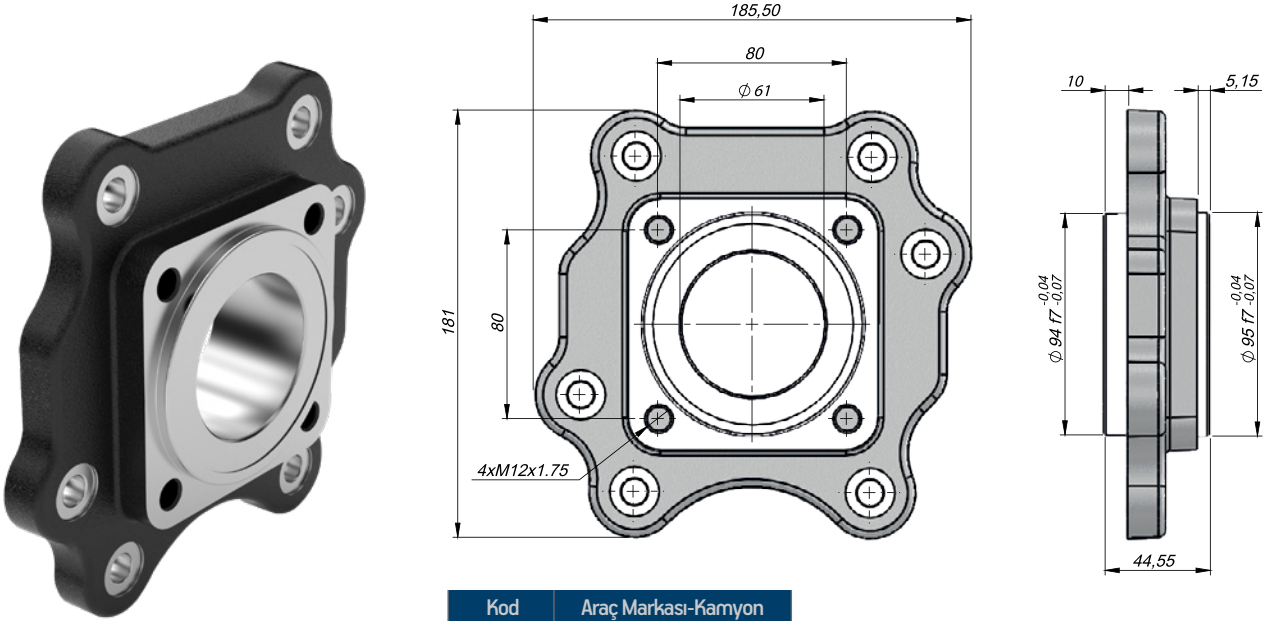
TEKNİK VERİLER | TECHNICAL DATA



Kod Code	Araç Markası-Kamyon Vehicle Brand-Truck
PL80AT47	Mercedes G3/36-40-45-50-60-61

# KAZEL® ATEGO.G56 6 DELİK PLATE

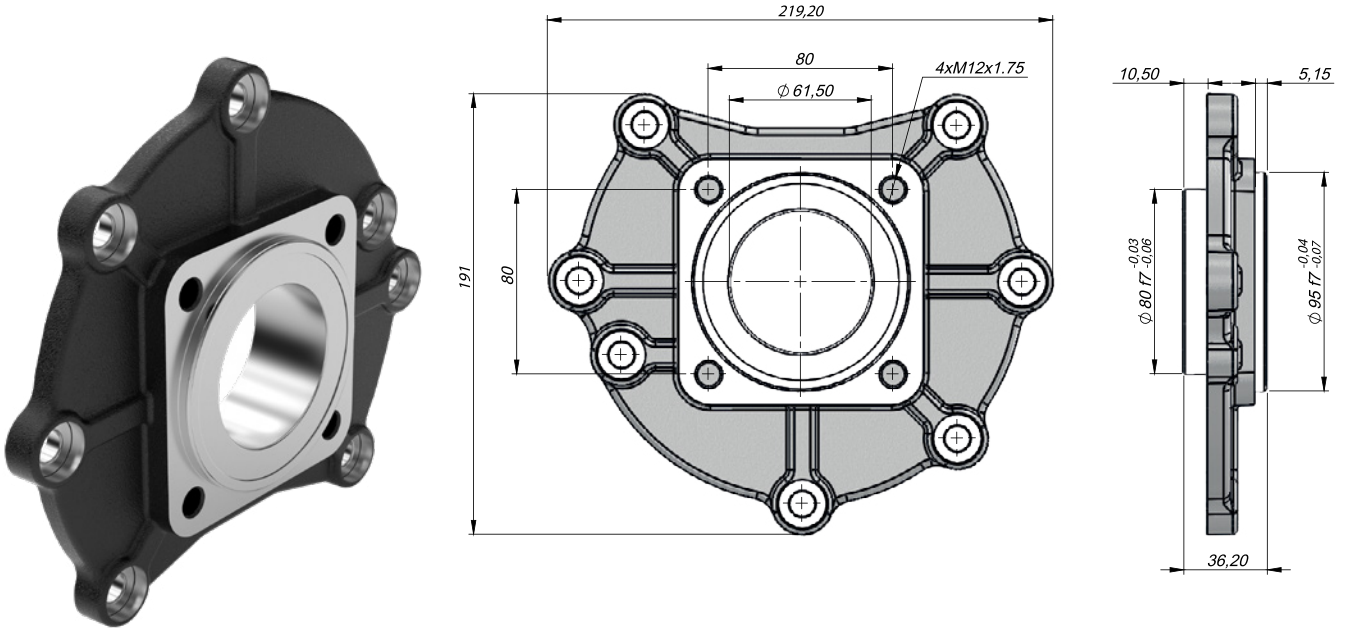
## TEKNİK VERİLER | TECHNICAL DATA



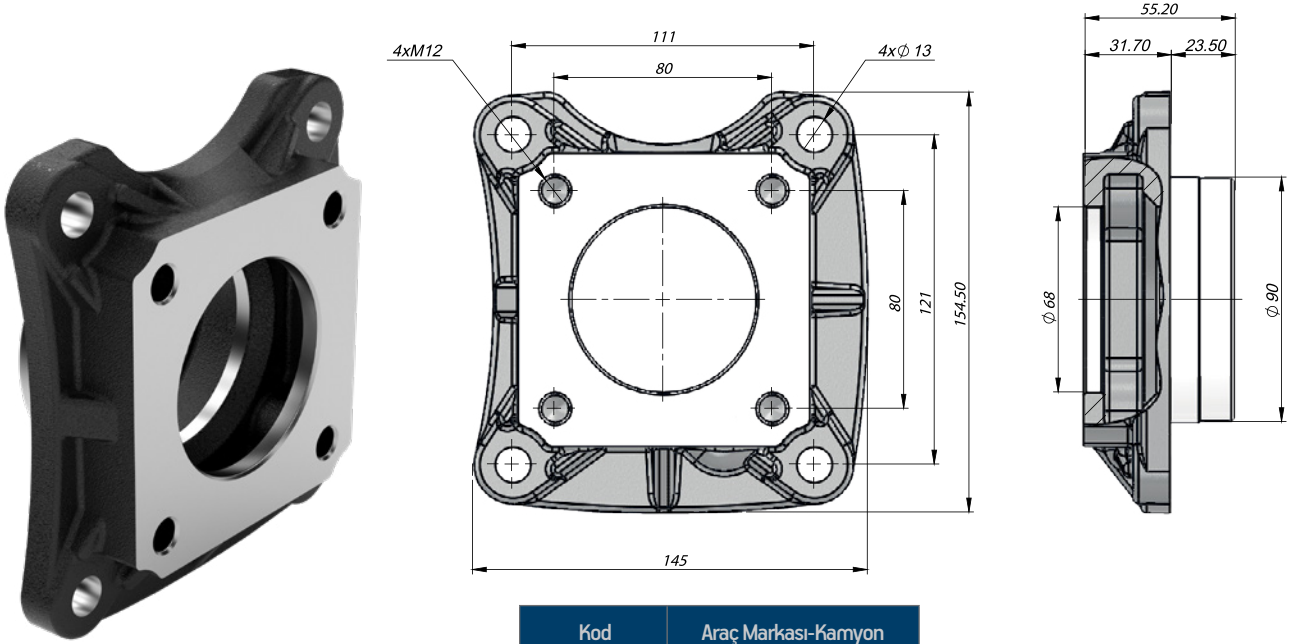
Kod Code	Araç Markası-Kamyon Vehicle Brand-Truck
PLATGG56	Atego G56

# KAZEL® ATEGO.G60 7 DELİK PLATE

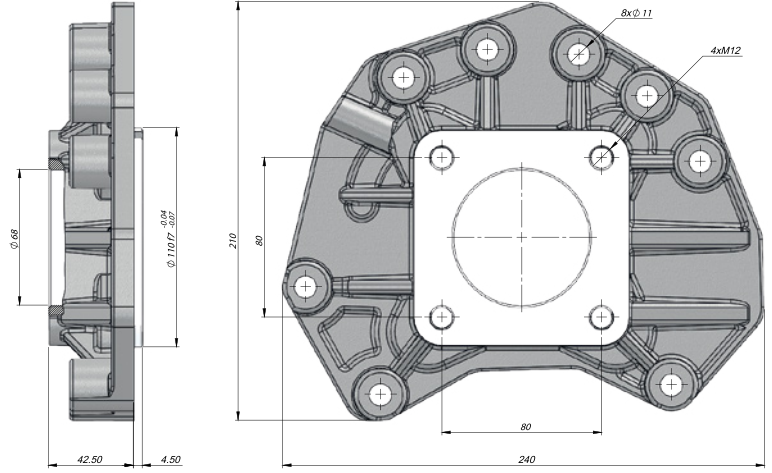
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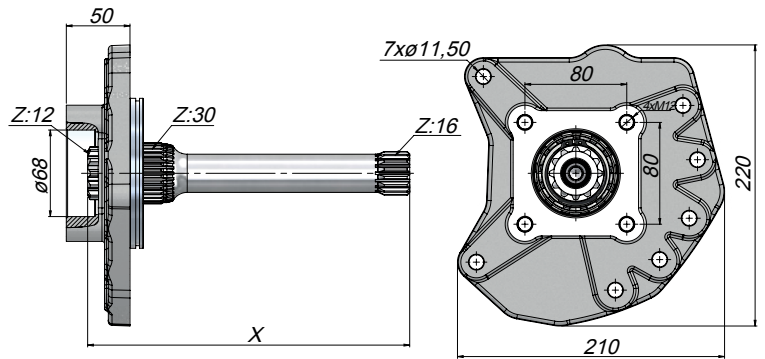
Kod Code	Araç Markası-Kamyon Vehicle Brand-Truck
PLATGG60	Atego G60

**TEKNİK VERİLER | TECHNICAL DATA**

Kod Code	Araç Markası-Kamyon Vehicle Brand-Truck
PL68AT2412C	Volvo 2412C...AT03112C

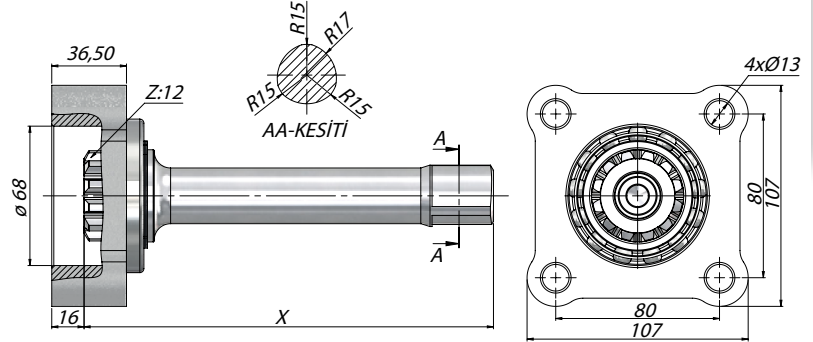
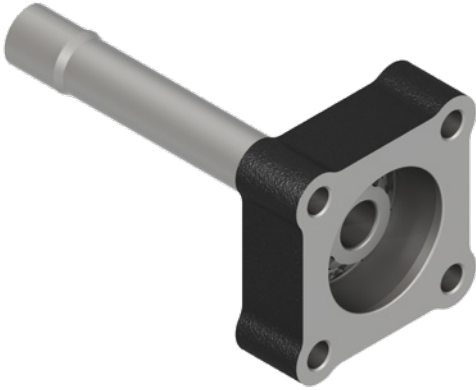


Kod Code	Araç Markası-Kamyon Vehicle Brand-Truck
PL68MG131	Mercedes G131...- G330

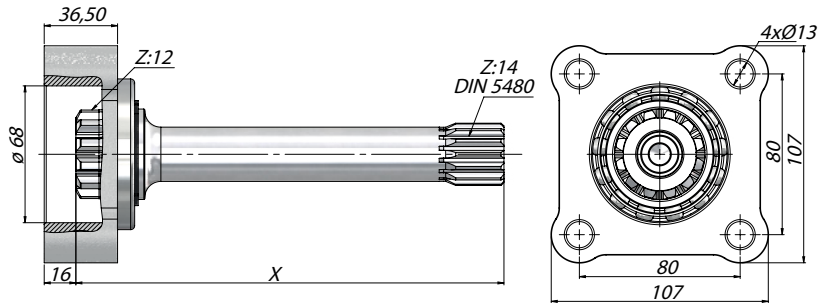
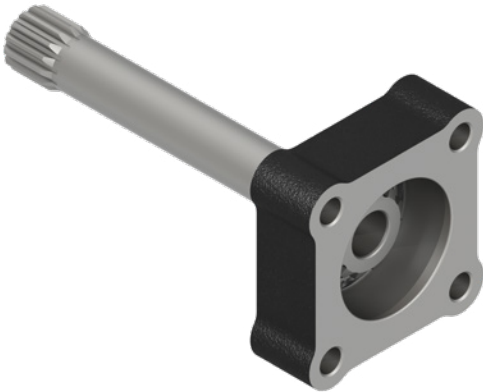


Kod Code	Şanzuman Modeli Gear Box Model	X
CSAXS16253	Mercedes G125-G260 AXOR	253
CSACS16275	Mercedes G125-G210 Retarder Voith ACTROS	275,5

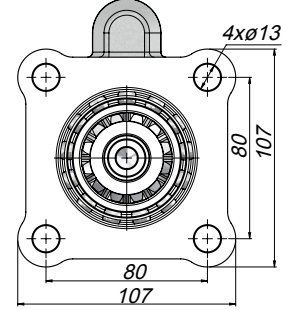
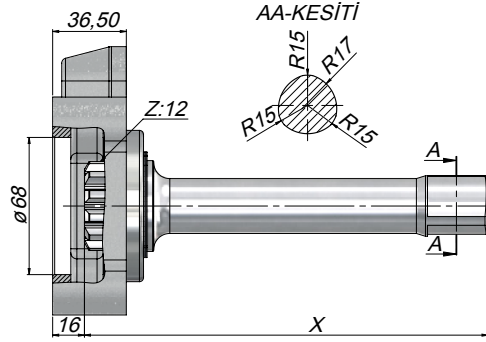
**TEKNİK VERİLER | TECHNICAL DATA**



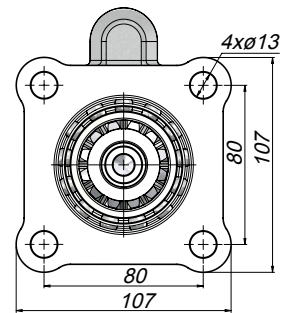
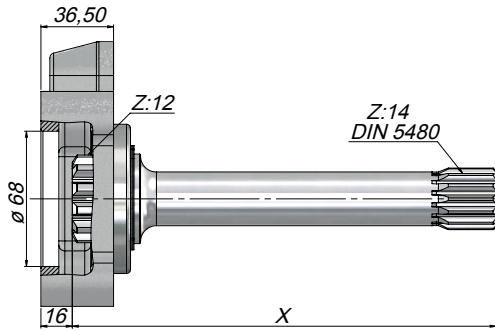
Kod Code	Şanzuman Modeli Gear Box Model	X
CSMNSR195	ZF-16 S 130	195
CSMNSR200	ZF-16 S 130	200
CSMNSR213	ZF-16 S 160.....221	213,5
CSMNSR217	ZF-16 S 130	217
CSMNSR238	ZF-16 S 150	238
CSMNSR257	ZF-16 S 220	257
CSMNSR288	ZF-16 S 160 A	288



Kod Code	Şanzuman Modeli Gear Box Model	X
CSMNS14200	ZF-16 S 151	200
CSMNS14213	ZF-16 S 151	213
CSMNS14215	ZF-16 S 151	215
CSMNS14226	ZF-16 S 151	226
CSMNS14249	ZF-16 AS 2200	249
CSMNS14253	ZF-16 S 151.....221	253
CSMNS14272	ZF-16 AS 1800-2200	272,5
CSMNS14288	ZF-16 S 251	288,5



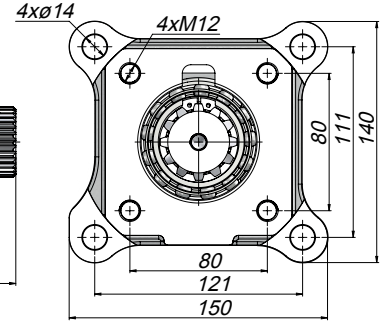
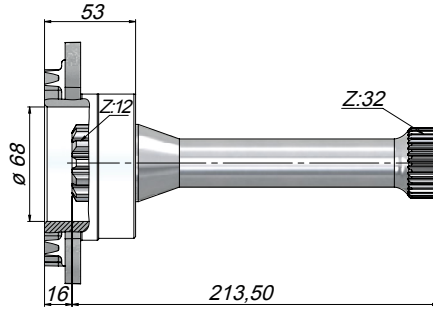
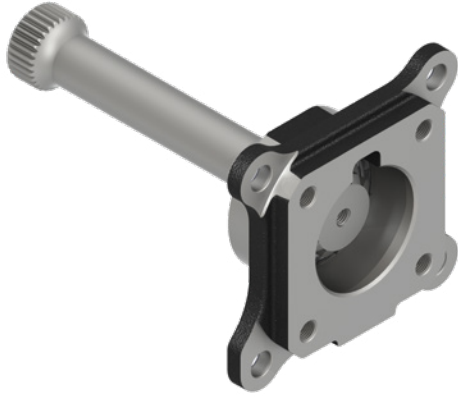
Kod Code	Şanzuman Modeli Gear Box Model	X
CSRTSR195	ZF-16 S 130	195
CSRTSR200	ZF-16 S 130	200
CSRTSR213	ZF-16 S 160.....221	213,5
CSRTSR217	ZF-16 S 130	217
CSRTSR238	ZF-16 S 150	238
CSRTSR257	ZF-16 S 220	257
CSRTSR288	ZF-16 S 160 A	288



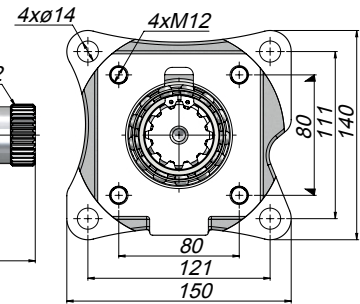
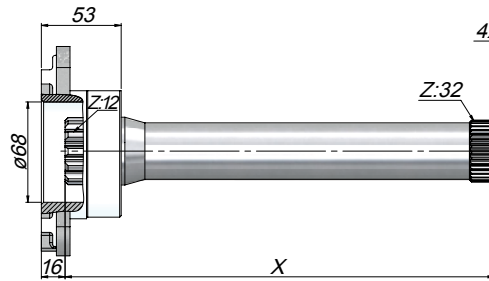
Kod Code	Şanzuman Modeli Gear Box Model	X
CSINS14200	ZF-16 S 151+INTARDER	200
CSINS14213	ZF-16 S 151+INTARDER	213
CSINS14215	ZF-16 S 151+INTARDER	215
CSINS14226	ZF-16 S 151+INTARDER	226
CSINS14249	ZF-16 AS 2200	249
CSINS14253	ZF-16 S 151.....221	253
CSINS14272	ZF-16 AS 1800-2200	272,5
CSINS14288	ZF-16 S 251	288,5



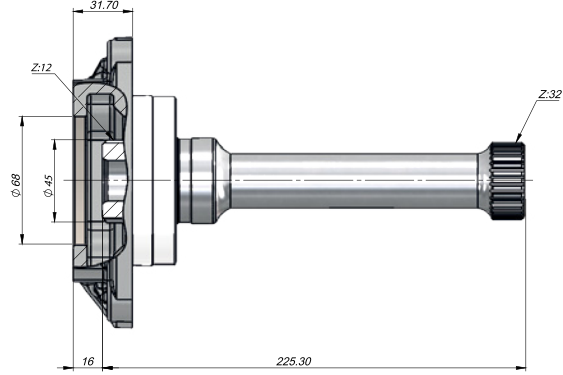
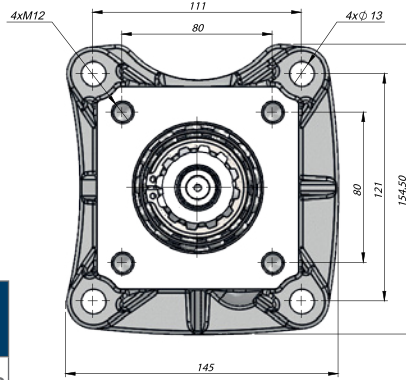
TEKNİK VERİLER | TECHNICAL DATA



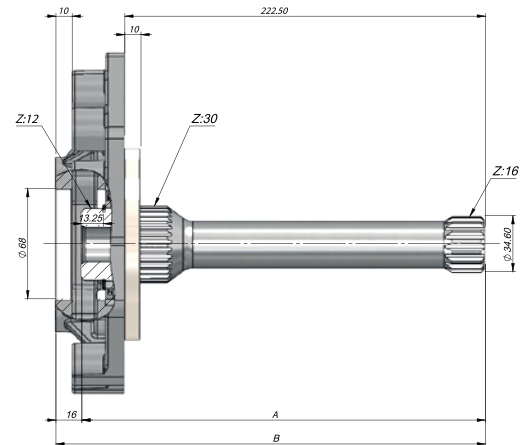
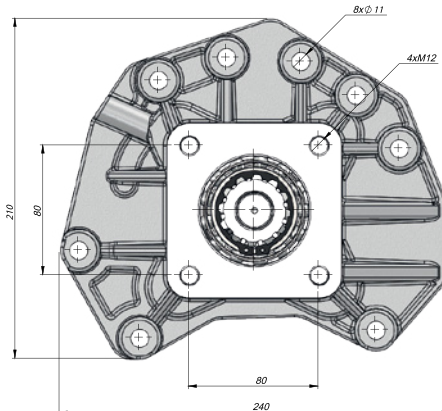
Kod Code	Şanzuman Modeli Gear Box Model
CSVLS32213	VT 2400 New VT 2415 Euro SR 1400-SR 1700 SR 2000-SRO 2000 FH 16-FH 12-VT



Kod Code	Şanzuman Modeli Gear Box Model	X
CSVLS32249	Volvo Vt 2400 New Volvo Vt 2415 Euro	249
CSVLS32285	Volvo Vt 2014+Retarder Voith	285



Kod Code	Şanzuman Modeli Gear Box Model
CSAT2412C225	VOLVO 2412C...AT03112C

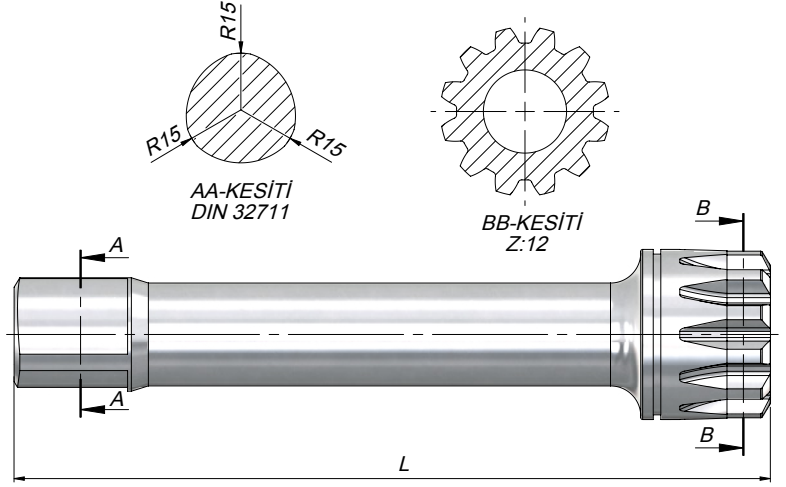


Kod Code	Şanzuman Modeli Gear Box Model	Uzunluk Length		Mercedes Orjinal PTO'suz Kardan Şaft Uzunluğu Original Mercedes Shaft Length Without
		A	B	
CSMCG131249	G 131...G 330	249	265	210
CSMCG131275	G 131... 330 + RETARDER	275	291	235
CSMCG281266	G 281-12 POWERSHIFT 3	266	282	226
CSMCG281294	G 281-12 POWERSHIFT 3 AQUATARDER	294	310	250

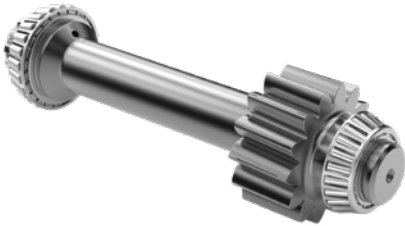
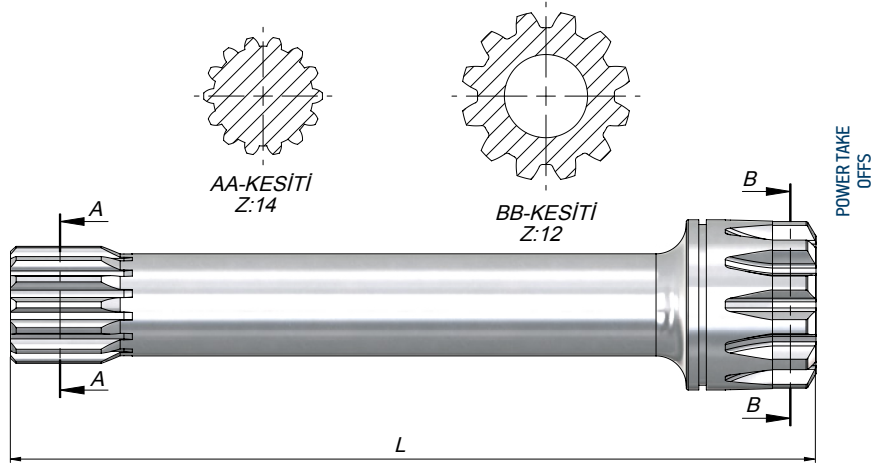
## TEKNİK VERİLER | TECHNICAL DATA



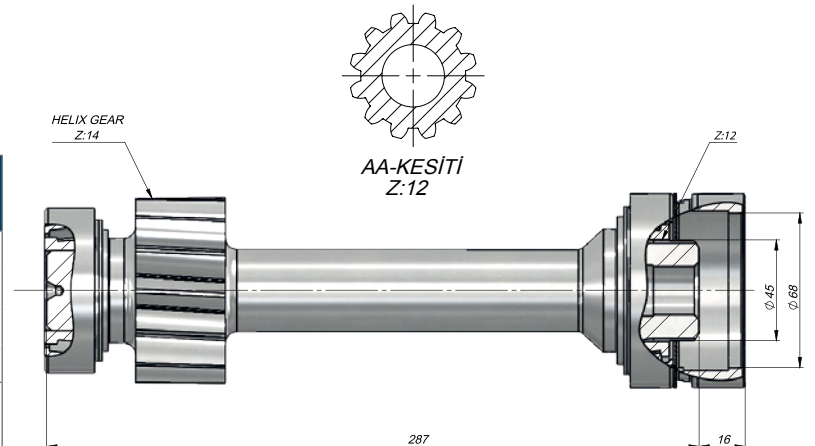
Kod Code	Şanzuman Modeli Gear Box Model	L
CS16S130195	ZF-16 S 130	195
CS16S130200	ZF-16 S 130	200
CS16S130213	ZF-16 S 160.....221	213,5
CS16S130217	ZF-16 S 130	217
CS16S150238	ZF-16 S 150	238
CS16S220257	ZF-16 S 220	257
CS16S160288	ZF-16 S 160 A	288



Kod Code	Şanzuman Modeli Gear Box Model	L
CS16S151200	ZF-16 S 151	200
CS16S151213	ZF-16 S 151	213
CS16S151215	ZF-16 S 151	215
CS16S151226	ZF-16 S 151	226
CS16S220249	ZF-16 AS 2200	249
CS16S151253	ZF-16 S 151....221	253
CS16S180272	ZF-16 AS 1800-2200	272,5
CS16S251288	ZF-16 S 251	288,5

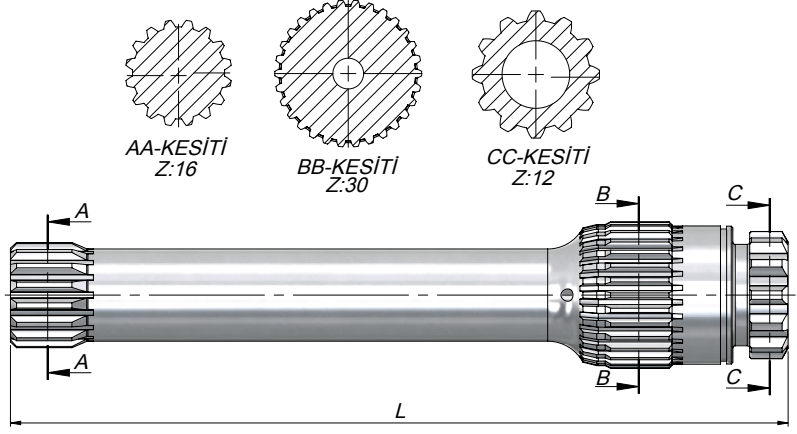


Kod Code	Şanzuman Modeli Gear Box Model	L	Z
CS09S91428713	ZF-9 S 109 / 12.92-1.0	287	14
CS09S914287133	ZF-16 S 109/13.30-1.0		
CS09S91428712	ZF-9 S 109/12.91-1.0		
CS09S914287131	ZF-16 S 109/13.31-1.0		17
CS09S91728710	ZF-9 S 109/10.25-0.74		
CS09S91728711	ZF-16 S 109/11.86-0.85		
CS09S917287135	ZF-16 S 109/13.53-0.86	247,5	16
CS09S91624713	ZF-9 S 75/13.16-1.0		

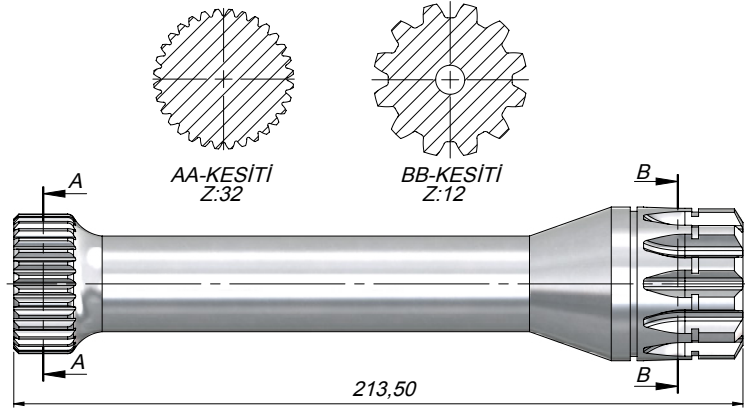




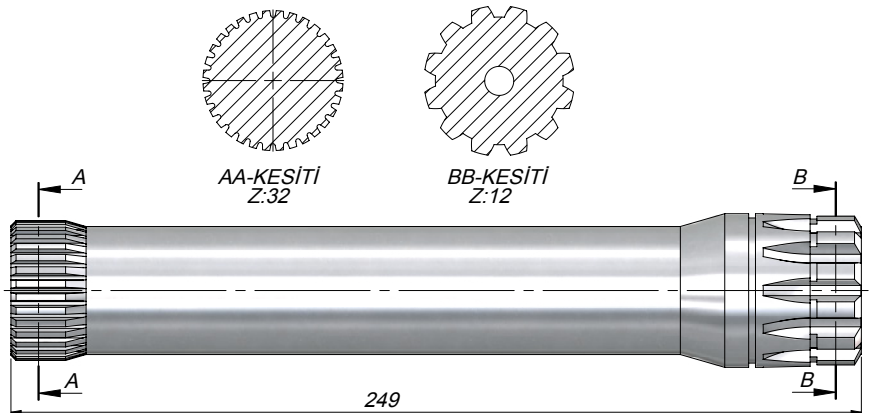
Kod Code	Şanzuman Modeli Gear Box Model	L
CSMC1612243	Mercedes	243
CSMC1612253K	Mercedes Kamalı	253
CSAX1612253	Mercedes G125-G260 AXOR	253
CSAC1612275	Mercedes G125-G260 Retarder Voith ACTROS	275,5



Kod Code	Şanzuman Modeli Gear Box Model
CSVL3212213	VOLVO F12-F16



Kod Code	Şanzuman Modeli Gear Box Model
CSVL3212249	Volvo-FH-12 Volvo FH-16

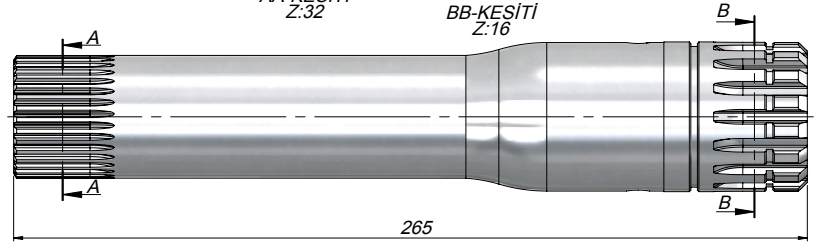
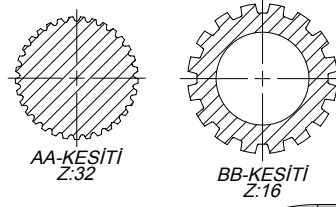


POWER TAKE  
OFFS

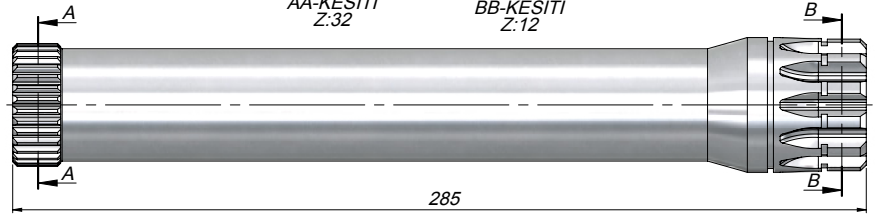
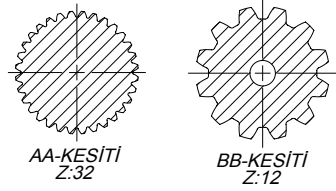
**TEKNİK VERİLER | TECHNICAL DATA**



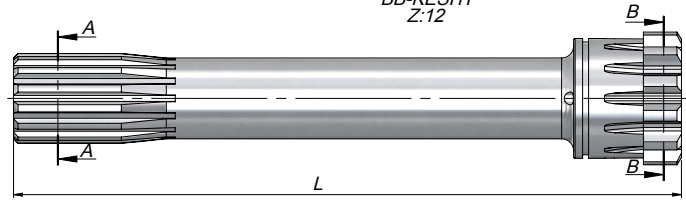
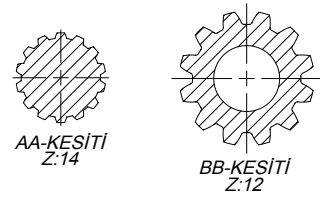
Kod Code	Şanzuman Modeli Gear Box Model
CSVL3216265	VOLVO F7-F12 F88-F89 N-10.27



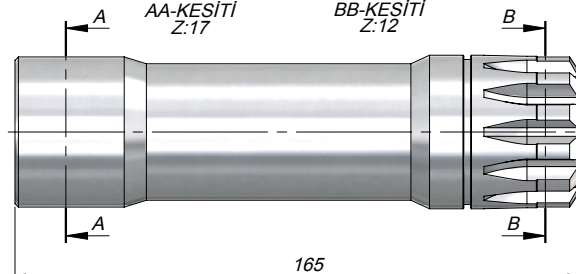
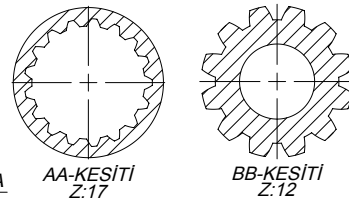
Kod Code	Şanzuman Modeli Gear Box Model
CSVL3212285	VOLVO F12-F16



Kod Code	Şanzuman Modeli Gear Box Model	L
CSHW223	HW-18710 HW-18710-T	223
CSHW286	HW-20716 HW-1910	286



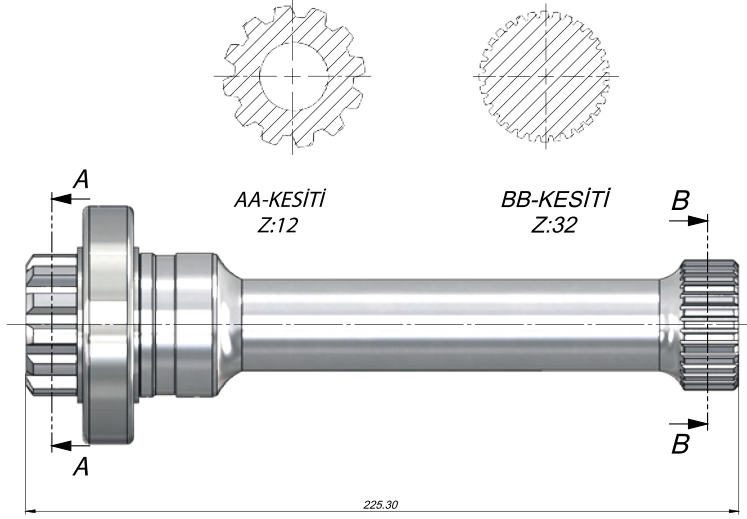
Kod Code	Şanzuman Modeli Gear Box Model
CSZF1712165	ZF-110



POWER TAKE  
OFFS

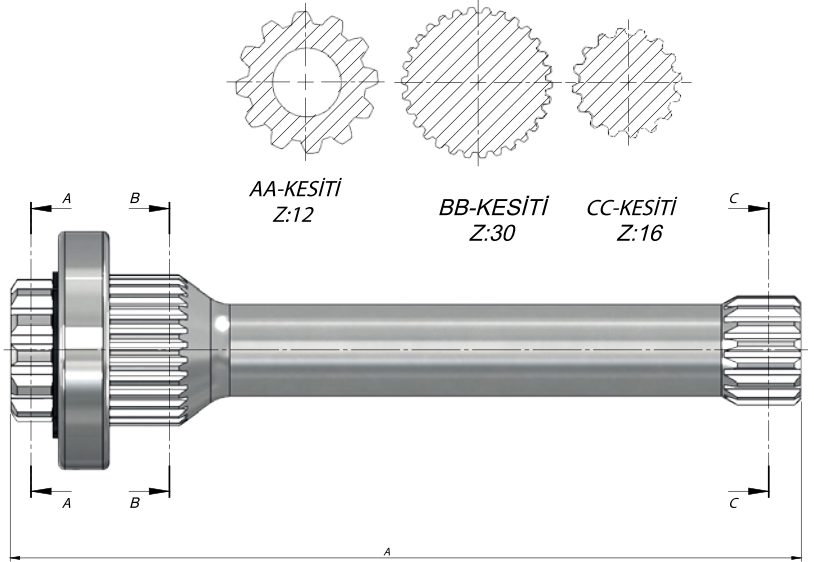


Kod Code	Şanzuman Modeli Gear Box Model
CSVLVAT2412C225	VOLVO 2412C...AT03112C



POWER TAKE  
OFFS

Kod Code	Şanzuman Modeli Gear Box Model	Uzunluk Length
CSMCG131249	G 131...G 330	249
CSMCG131275	G 131... 330 + RETARDER	275
CSMCG281266	G 281-12 POWERSHIFT 3	266
CSMCG281294	G 281-12 POWERSHIFT 3 AQUATARDER	266



# KAZEL<sup>®</sup>

## VALVE

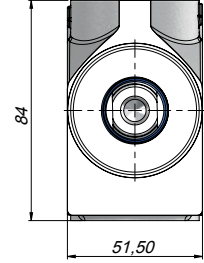
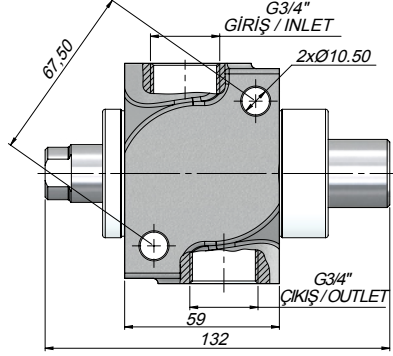
VALVE SERIES



VALVES

**TEKNİK VERİLER | TECHNICAL DATA**

SINIR KONTROL VALFİ / KAPALI DEVRE | LIMIT CONTROL VALVE / CLOSED-LOOP



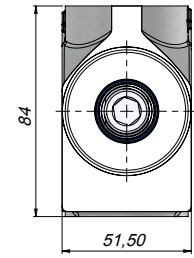
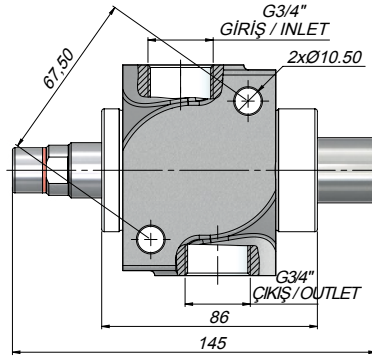
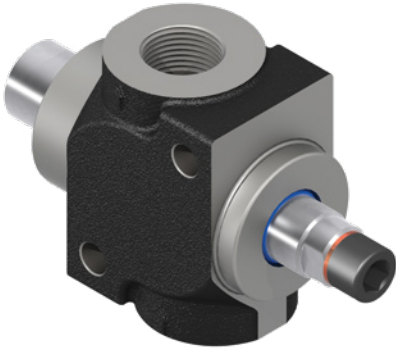
Kod Code	Debi Oranı Flow Rate	Max.Çalışma Basıncı Max.Working Pressure	Sıvı Sıcaklığı Fluid Temperature	Çalışma Vizkosite Seviyesi Operating Viscosity Range
	(l/dk)	(Bar)	(°C)	(cSt)
VK1110	110	190	-10 ~+80~	-12-100 cSt



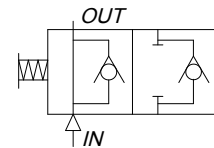
HİDROLİK SEMBOL  
HYDRAULIC SYMBOL

**TEKNİK VERİLER | TECHNICAL DATA**

SINIR KONTROL VALFİ / AÇIK DEVRE | LIMIT CONTROL VALVE / OPEN-LOOP



Kod Code	Debi Oranı Flow Rate	Max.Çalışma Basıncı Max.Working Pressure	Sıvı Sıcaklığı Fluid Temperature	Çalışma Vizkosite Seviyesi Operating Viscosity Range
	(l/dk)	(Bar)	(°C)	(cSt)
VK2110	110	190	-10 ~+80~C	-12-100 cSt

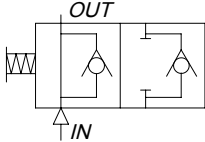
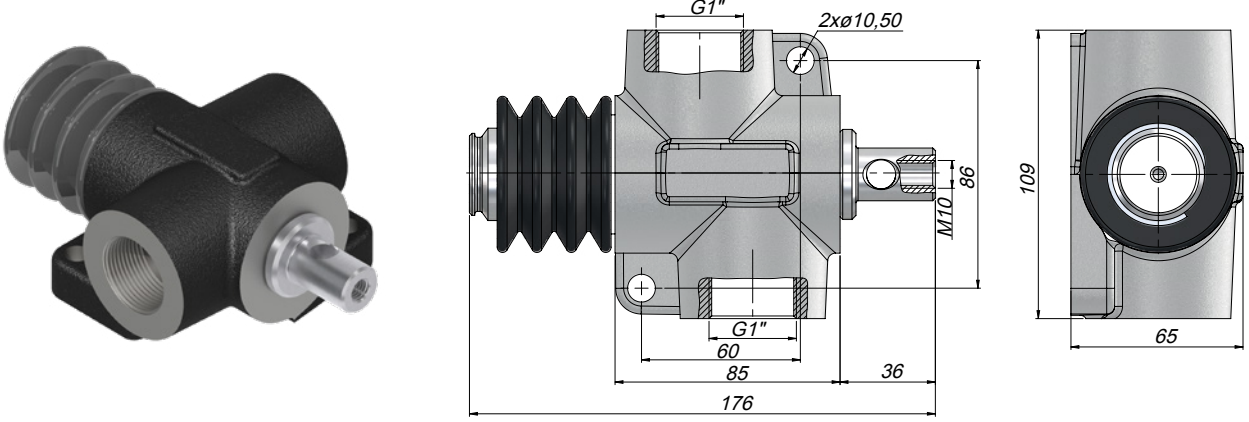


HİDROLİK SEMBOL  
HYDRAULIC SYMBOL



**TEKNİK VERİLER | TECHNICAL DATA**

2 YOLLU 1 POZİSYONLU SINIR KONTROL VALFİ | LIMIT CONTROL VALVE WITH 2 WAY AND 1 POSITION

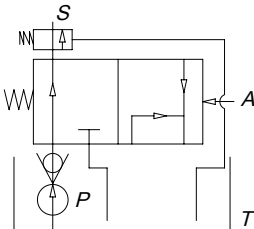
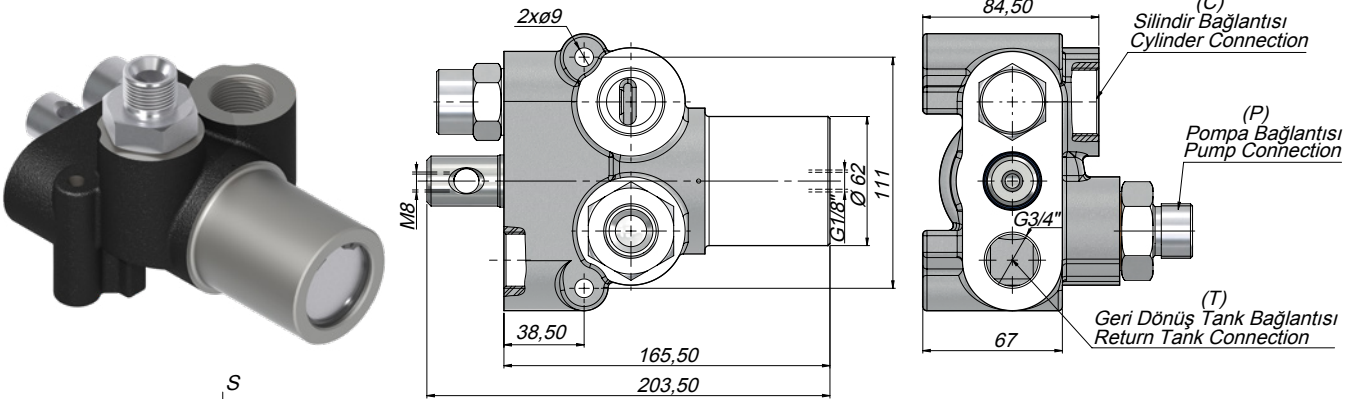


**HİDROLİK SEMBOL**  
HYDRAULIC SYMBOL

Kod Code	Debi Oranı Flow Rate	Max.Çalışma Basıncı Max.Working Pressure	Sıvı Sıcaklığı Fluid Temperature	Çalışma Viskosite Seviyesi Operating Viscosity Range
	(l/dk)	(Bar)	(°C)	(cSt)
VK3180	180	350	-10 ~+80~	-12-100 cSt

**TEKNİK VERİLER | TECHNICAL DATA**

TEK YÖNLÜ VALF | SINGLE CONTROLLED VALVE

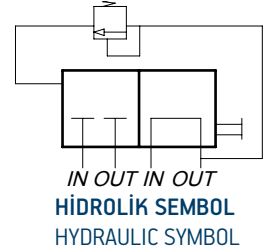
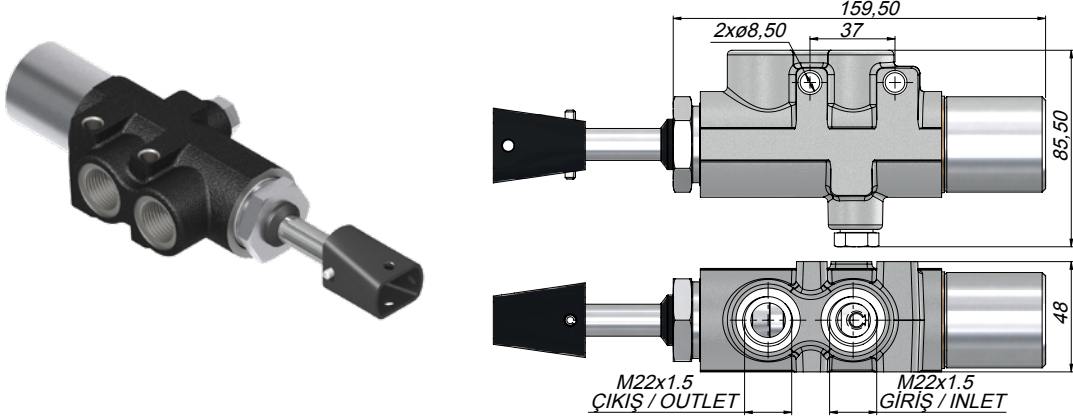


**HİDROLİK SEMBOL**  
HYDRAULIC SYMBOL

Kod Code	Debi Oranı Flow Rate	Max.Çalışma Basıncı Max.Working Pressure	Sıvı Sıcaklığı Fluid Temperature	Çalışma Viskosite Seviyesi Operating Viscosity Range
	(l/dk)	(Bar)	(°C)	(cSt)
VMS140	140	350	-10 ~+80~	-12-100 cSt

**TEKNİK VERİLER | TECHNICAL DATA**

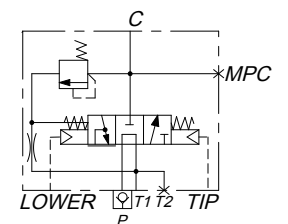
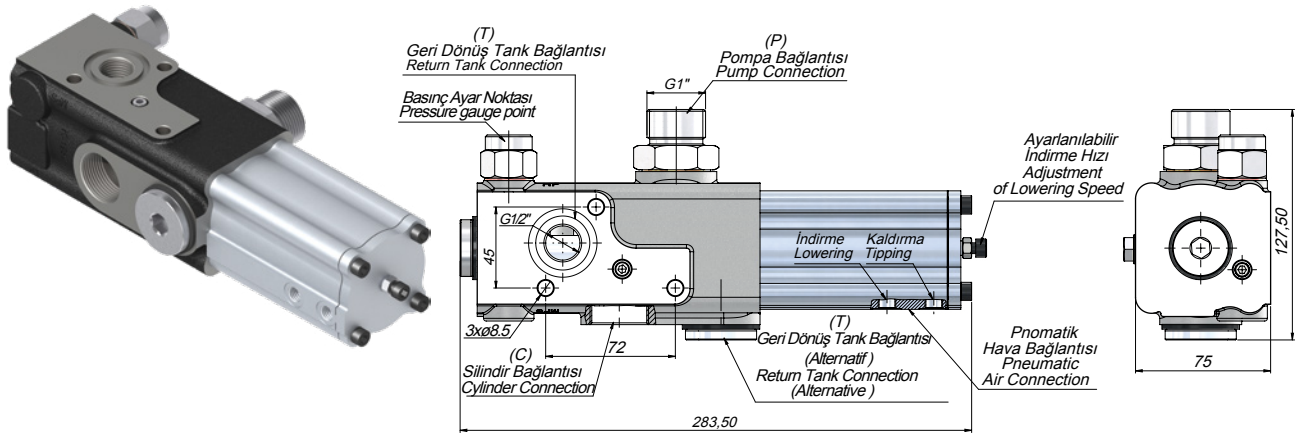
**MEKANİK İNDİRME VALFİ | MECHANICAL LOWERING VALVE**



Kod Code	Debi Oranı Flow Rate	Max.Çalışma Basıncı Max.Working Pressure	Sıvı Sıcaklığı Fluid Temperature	Çalışma Vizkosite Seviyesi Operating Viscosity Range	Havalı Çalışma Basıncı Pneumatic Working Pressure
	(l/dk)	(Bar)	(°C)	(cSt)	(Bar)
VZR110	110	220	-10 ~+80~	-12-100 cSt	7-12

**TEKNİK VERİLER | TECHNICAL DATA**

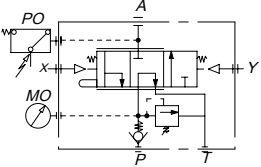
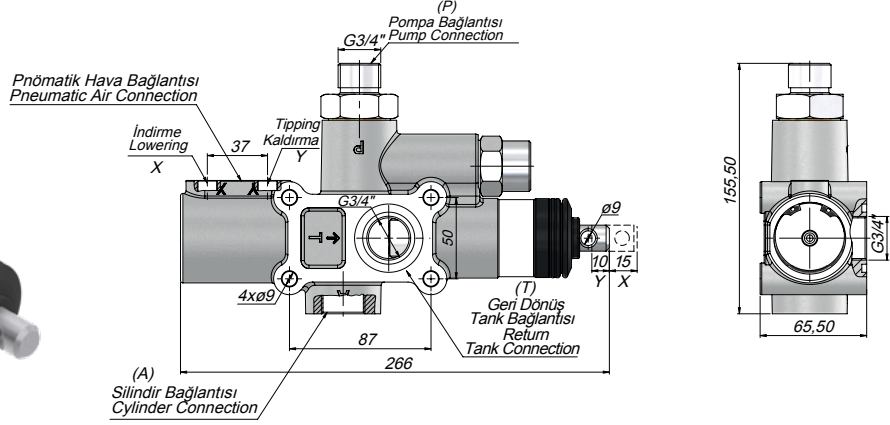
**KAPALI DEVRE YÖN KONTROL VALFİ | CLOSED-LOOP DIRECTIONAL CONTROL VALVE**



Kod Code	Debi Oranı Flow Rate	Max.Çalışma Basıncı Max.Working Pressure	Sıvı Sıcaklığı Fluid Temperature	Çalışma Vizkosite Seviyesi Operating Viscosity Range	Havalı Çalışma Basıncı Pneumatic Working Pressure
	(l/dk)	(Bar)	(°C)	(cSt)	(Bar)
VFR180	180	350	-10 ~+80~	-12-100 cSt	7-12

**TEKNİK VERİLER | TECHNICAL DATA**

AÇIK DEVRE YÖN KONTROL VALFİ | OPEN-LOOP DIRECTIONAL CONTROL VALVE

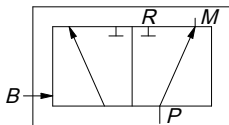
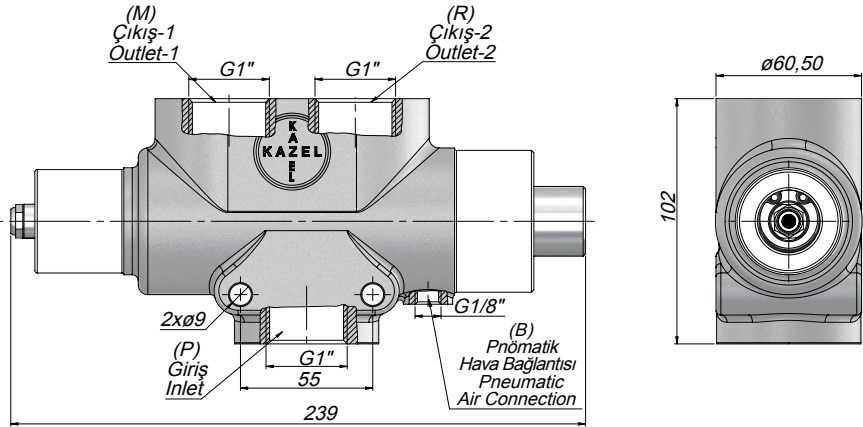


**HİDROLİK SEMBOL**  
HYDRAULIC SYMBOL

Kod Code	Debi Oranı Flow Rate	Max.Çalışma Basıncı Max.Working Pressure	Sıvı Sıcaklığı Fluid Temperature	Çalışma Viskosite Seviyesi Operating Viscosity Range	Havalı Çalışma Basıncı Pneumatic Working Pressure
	(l/dk)	(Bar)	(°C)	(cSt)	(Bar)
VZM140	140	350	-10 ~+80~	-12-100 cSt	7-12

**TEKNİK VERİLER | TECHNICAL DATA**

3 YOLLU VE 2 POZİSYONLU VALF | 3 WAY AND 2 POSITION VALVE



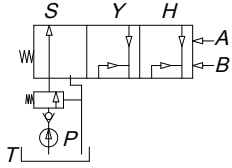
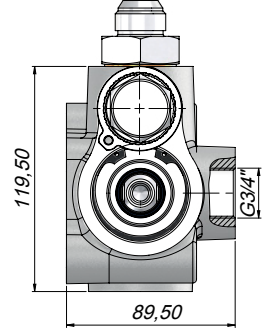
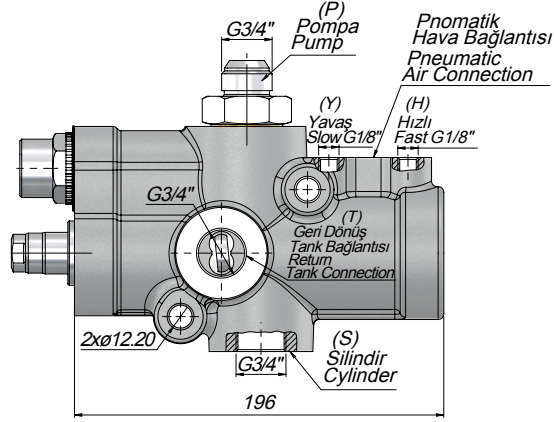
**HİDROLİK SEMBOL**  
HYDRAULIC SYMBOL

Kod Code	Debi Oranı Flow Rate	Max.Çalışma Basıncı Max.Working Pressure	Sıvı Sıcaklığı Fluid Temperature	Çalışma Viskosite Seviyesi Operating Viscosity Range	Havalı Çalışma Basıncı Pneumatic Working Pressure
	(l/dk)	(Bar)	(°C)	(cSt)	(Bar)
VSM250	250	350	-10 ~+80~	-12-100 cSt	7-12



**TEKNİK VERİLER | TECHNICAL DATA**

KAPALI DEVRE YÖN KONTROL VALFİ | CLOSED LOOP DIRECTIONAL CONTROL VALVE

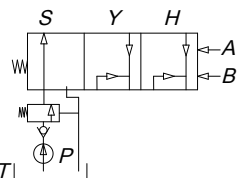
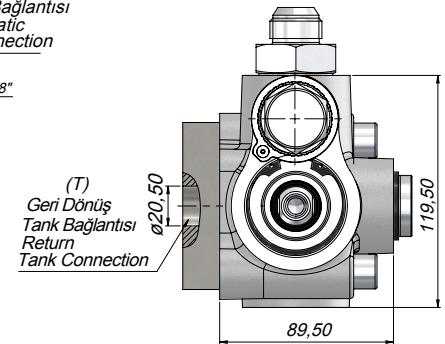
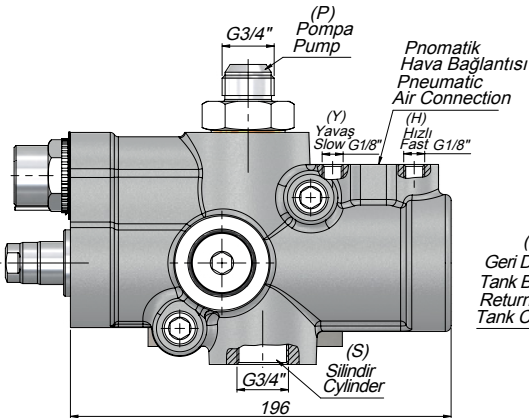


HİDROLİK SEMBOL  
HYDRAULIC SYMBOL

Kod Code	Debi Oranı Flow Rate	Max.Çalışma Basıncı Max.Working Pressure	Sıvı Sıcaklığı Fluid Temperature	Çalışma Viskosite Seviyesi Operating Viscosity Range	Havalı Çalışma Basıncı Pneumatic Working Pressure
	(l/dk)	(Bar)	(°C)	(cSt)	(Bar)
VHL140	140	350	-10 ~+80~	-12-100 cSt	7-12

**TEKNİK VERİLER | TECHNICAL DATA**

KAPALI DEVRE TANK TİPİ YÖN KONTROL VALFİ  
CLOSED LOOP TANK TYPE DIRECTIONAL CONTROL VALVE

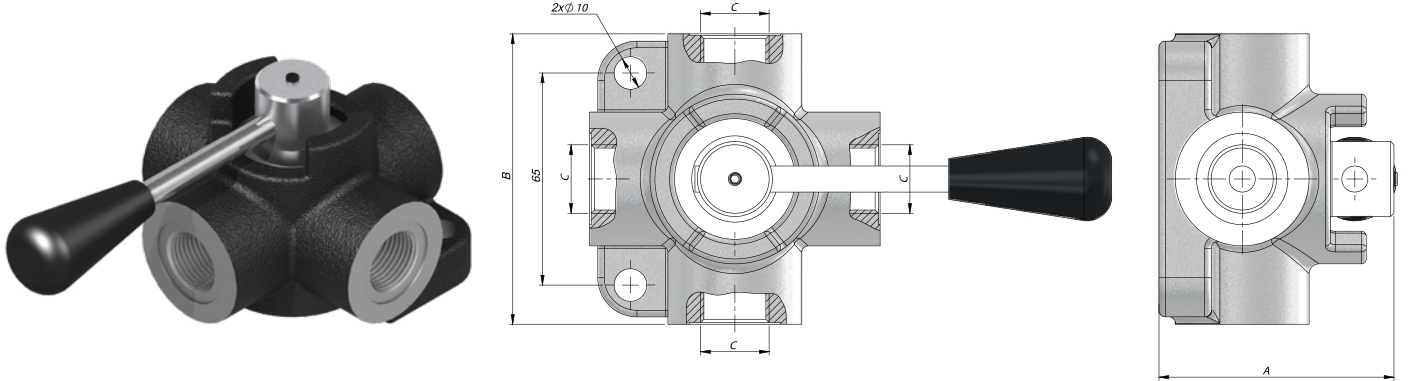


HİDROLİK SEMBOL  
HYDRAULIC SYMBOL

Kod Code	Debi Oranı Flow Rate	Max.Çalışma Basıncı Max.Working Pressure	Sıvı Sıcaklığı Fluid Temperature	Çalışma Viskosite Seviyesi Operating Viscosity Range	Havalı Çalışma Basıncı Pneumatic Working Pressure
	(l/dk)	(Bar)	(°C)	(cSt)	(Bar)
VHL140T	140	350	-10 ~+80~	-12-100 cSt	7-12

## TEKNİK VERİLER | TECHNICAL DATA

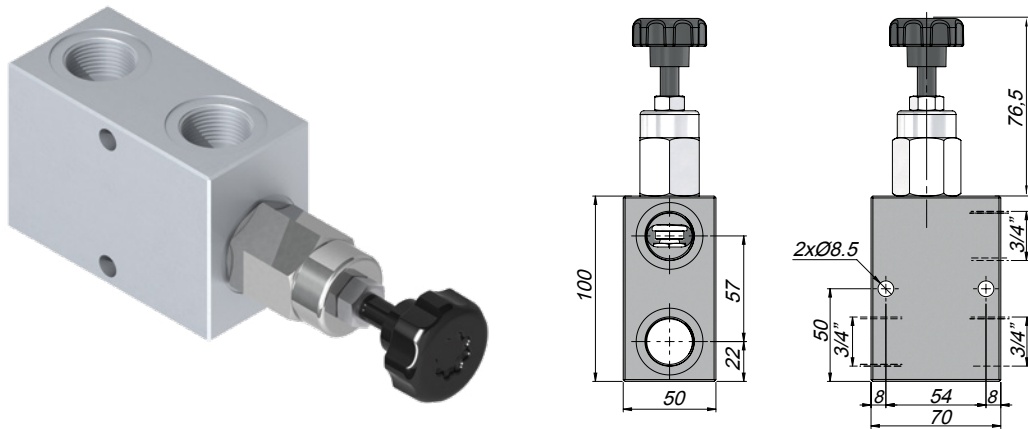
3 YOLLU VANA-4 YOLLU VANA | 3 WAY VALVE-4 WAY VALVE



3 Yollu Vana 3 Way Vane			4 Yollu Vana 3 Way Vane			
Code	V3Y180	V3Y2120	V3Y3180	V4Y180	V4Y2120	V4Y3180
A	74	81	95	74	81	95
B	84	90	100	84	90	100
C	1/2"	3/4"	1"	1/2"	3/4"	1"
Debi lt/dk Flow cc/min	80	120	180	80	120	180
P.Max.Bar	350	350	350	350	350	350

## TEKNİK VERİLER | TECHNICAL DATA

BASINÇ KONTROL VALFİ | PRESSURE CONTROL VALVE



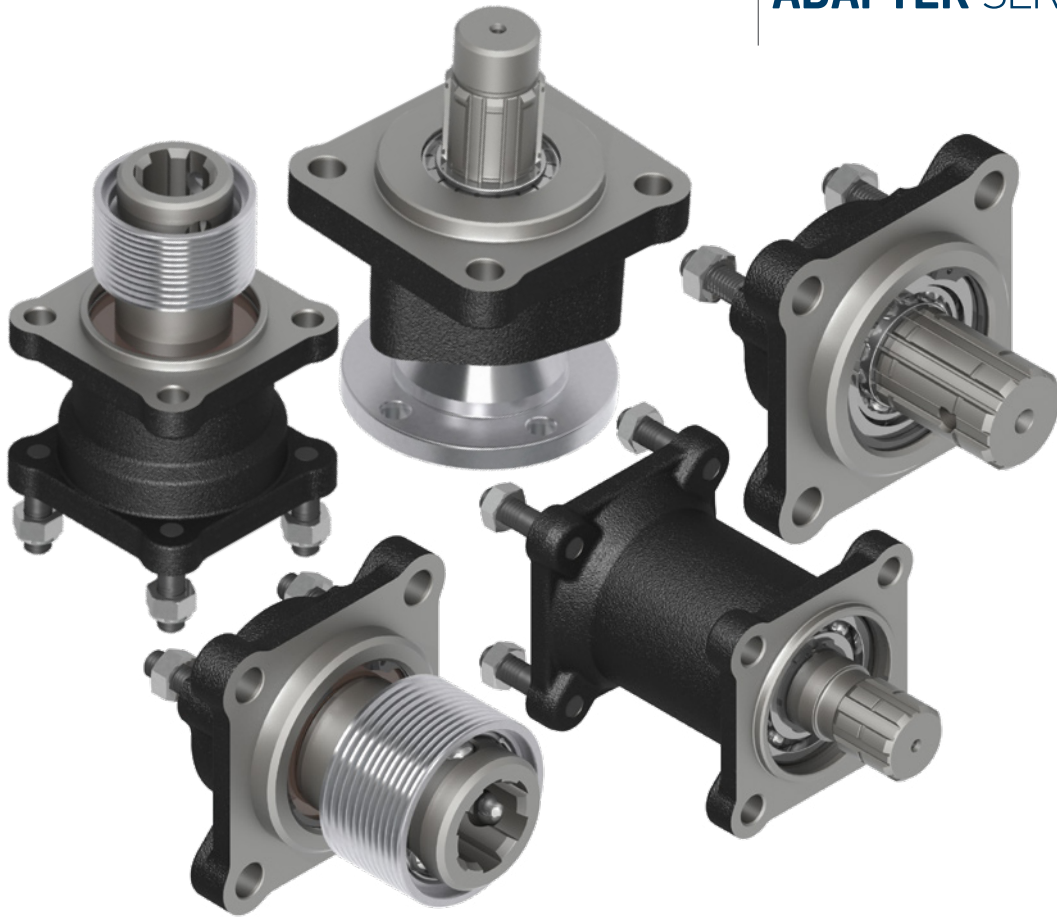
Kod Code	Max.Bar	Max.Litre Max.Liter	Özellikleri Features
	(Bar)	(L/min)	
VEF346V	210	100	3/4" Valve 50-200 bar-Vane

# KAZEL<sup>®</sup>

## ADAPTER

## FLANGE-COUPLING

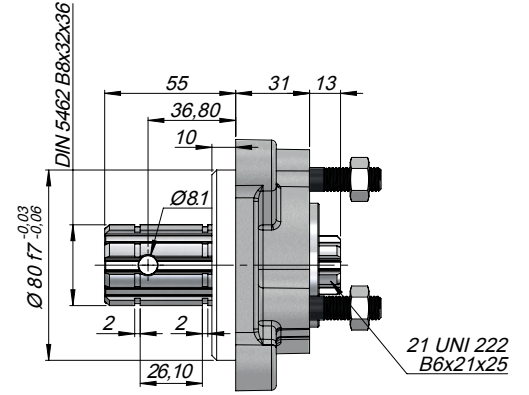
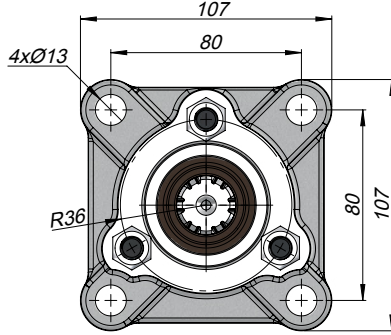
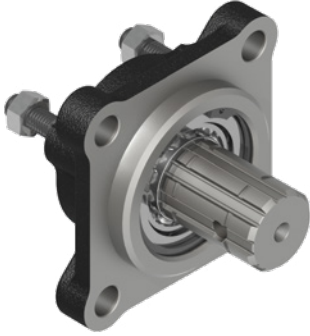
ADAPTER SERIES



ADAPTER  
FLANGE-COUPLING

**TEKNİK VERİLER | TECHNICAL DATA**

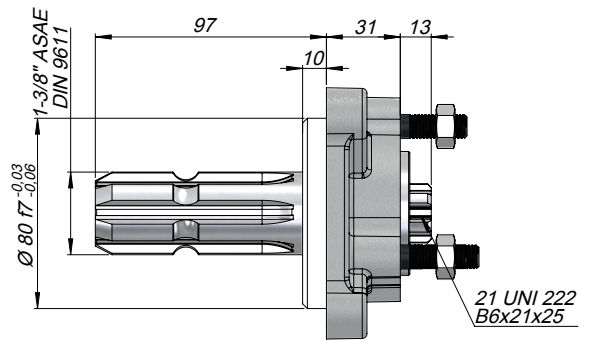
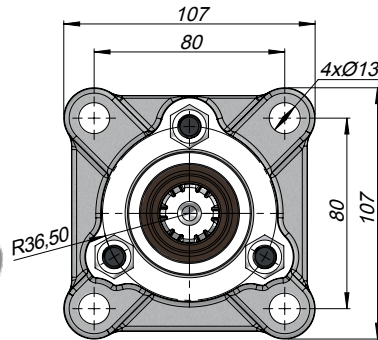
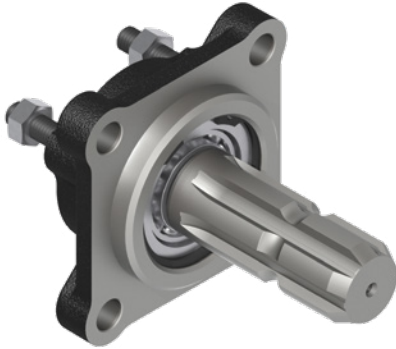
3/4 KISA ADAPTÖR | 3/4 SHORT ADAPTER



Kod  
Code AK34SF1

**TEKNİK VERİLER | TECHNICAL DATA**

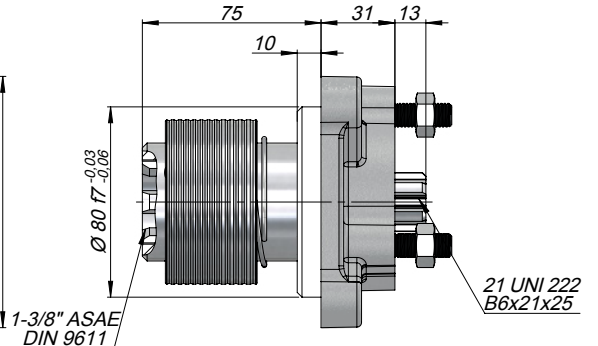
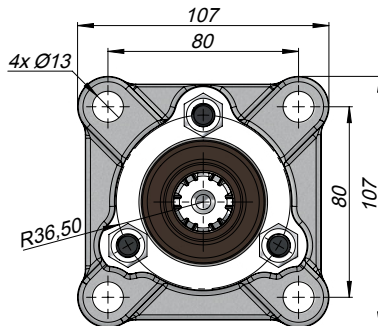
3/4 KISA ASAE ADAPTÖR | 3/4 SHORT ASAE ADAPTER



Kod  
Code AK34SF2

**TEKNİK VERİLER | TECHNICAL DATA**

3/4 KISA TRC ADAPTÖR | 3/4 SHORT TRC ADAPTER

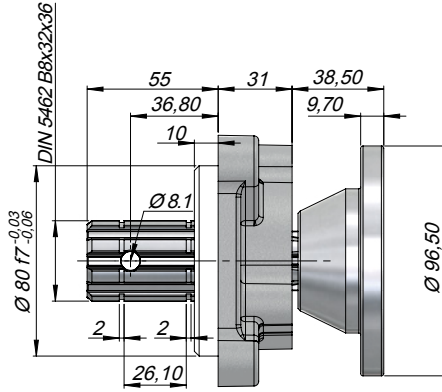
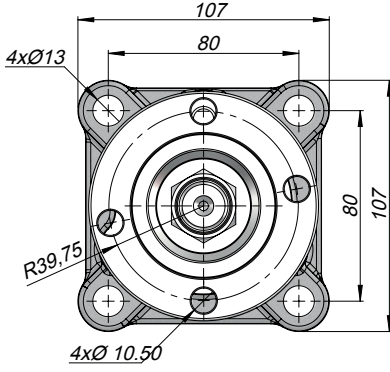


Kod  
Code AK34SF3



**TEKNİK VERİLER | TECHNICAL DATA**

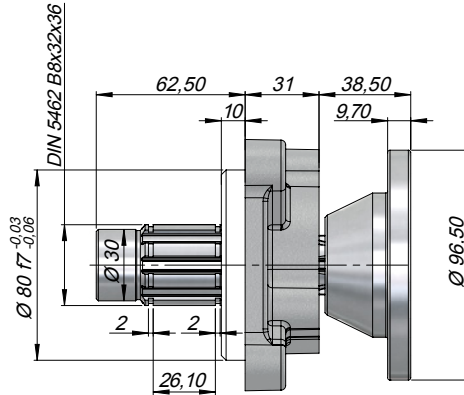
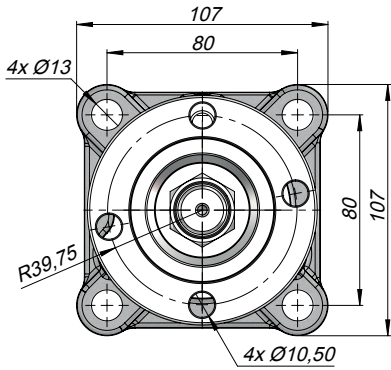
3/4 KISA FLANSLI ADAPTÖR | 3/4 SHORT FLANGE ADAPTER



Kod  
Code AKF34SF1

**TEKNİK VERİLER | TECHNICAL DATA**

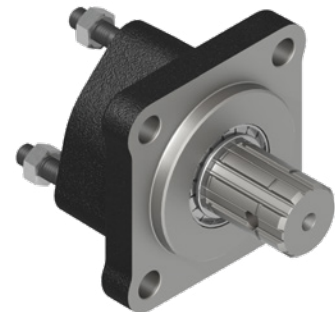
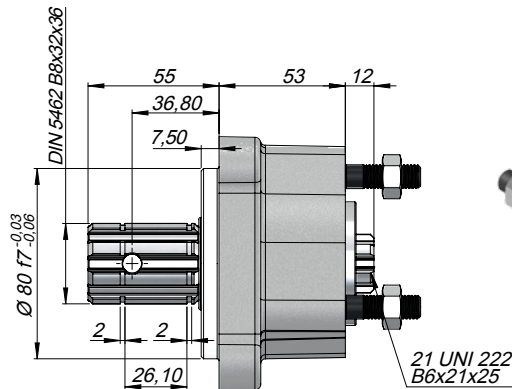
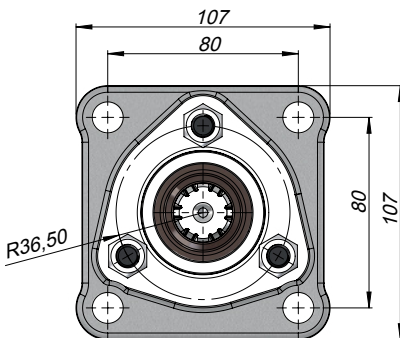
3/4 KISA RULMANLI FLANSLI ADAPTÖR | 3/4 ADAPTER WITH SHORT BEARING AND FLANGE



Kod  
Code AKR34SF1

**TEKNİK VERİLER | TECHNICAL DATA**

3/4 UZUN ADAPTÖR | 3/4 LONG ADPTÖR



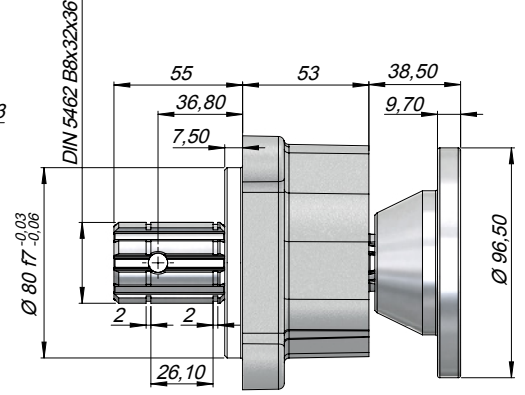
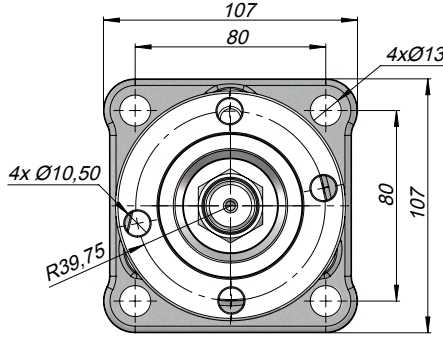
Kod  
Code AU34SF1

**TEKNİK VERİLER | TECHNICAL DATA**

3/4 UZUN FLANSLI ADAPTÖR | 3/4 LONG FLANGE ADAPTER



Kod  
Code AUF34SF1

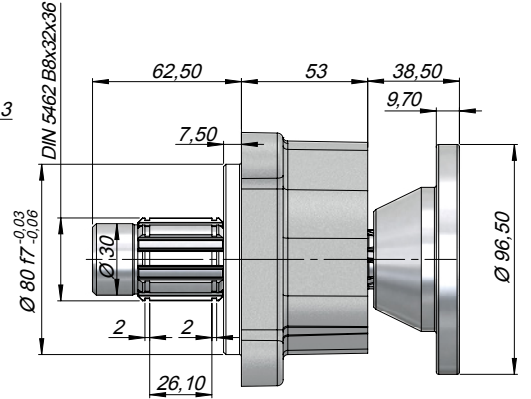
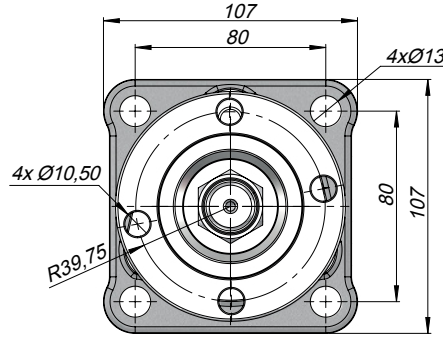


**TEKNİK VERİLER | TECHNICAL DATA**

3/4 UZUN RULMANLI FLANSLI ADAPTÖR | 3/4 ADAPTER WITH LONG BEARING AND FLANGE



Kod  
Code AUR34SF1

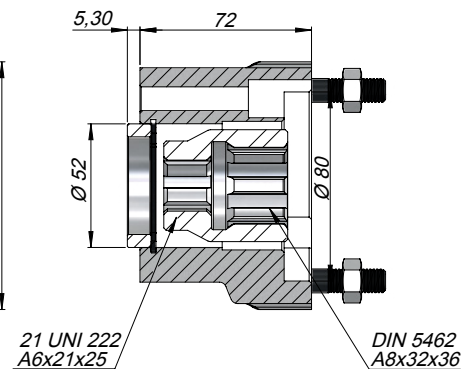
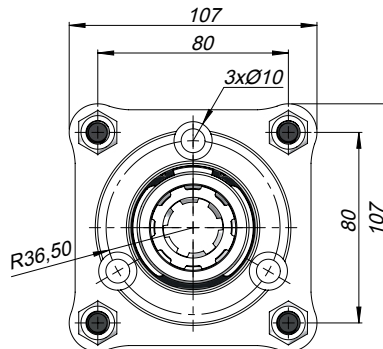


**TEKNİK VERİLER | TECHNICAL DATA**

4/3 ADAPTÖR | 4/3 ADAPTER

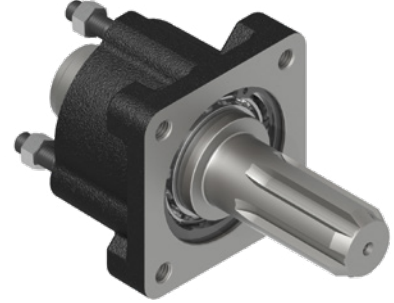
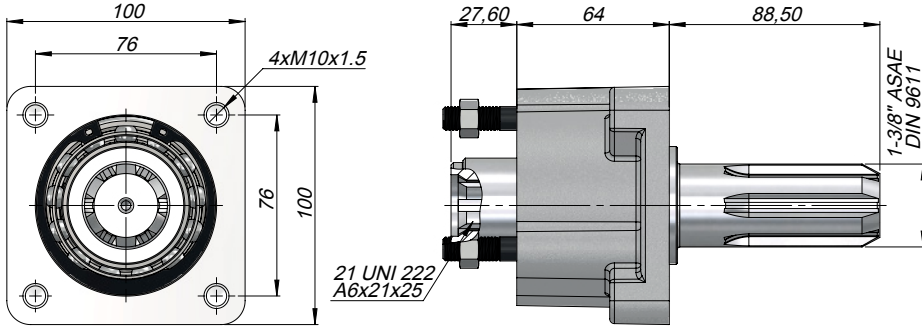


Kod  
Code AU43SF1



**TEKNİK VERİLER | TECHNICAL DATA**

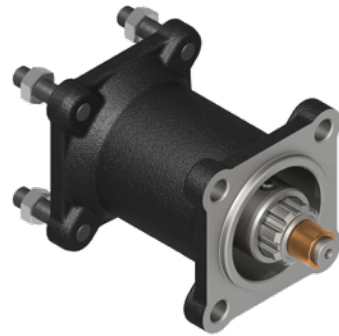
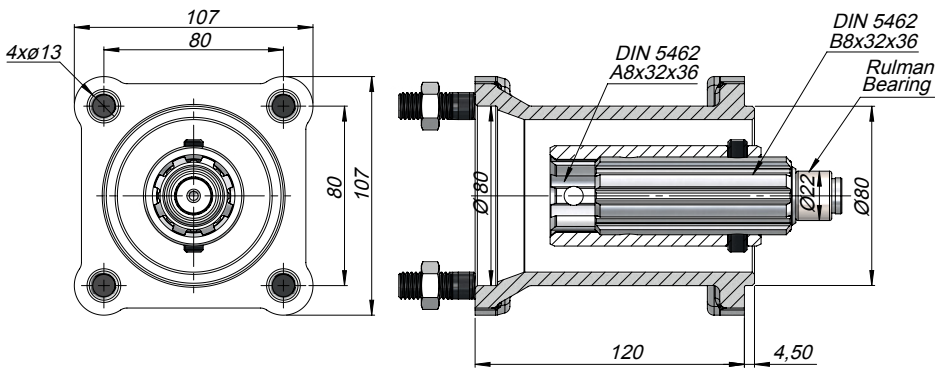
4/3 ASAE ADAPTÖR | 4/3 ASAE ADAPTER



Kod  
Code AU43SF2

**TEKNİK VERİLER | TECHNICAL DATA**

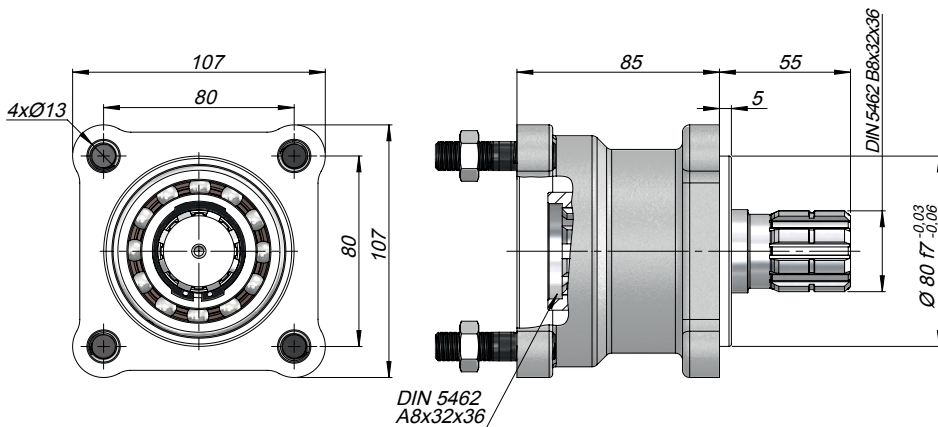
ARA UZATMA | PITCH LENGTHENING



Kod  
Code AURSF1

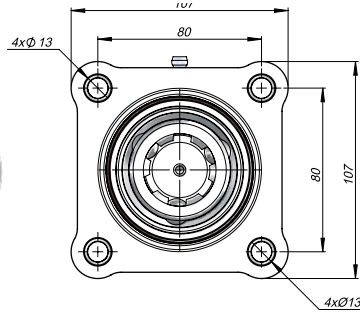
**TEKNİK VERİLER | TECHNICAL DATA**

KISA ARA UZATMA RULMANLI | PITCH LENGTHENING

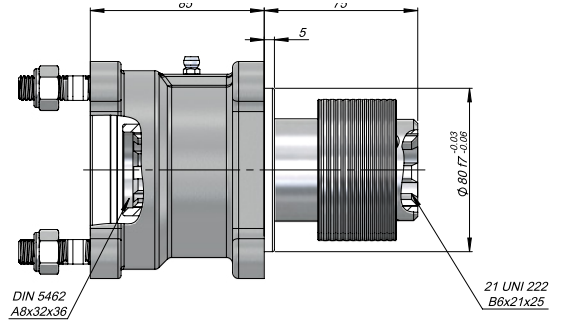


Kod  
Code AKSF1

TEKNİK VERİLER | TECHNICAL DATA



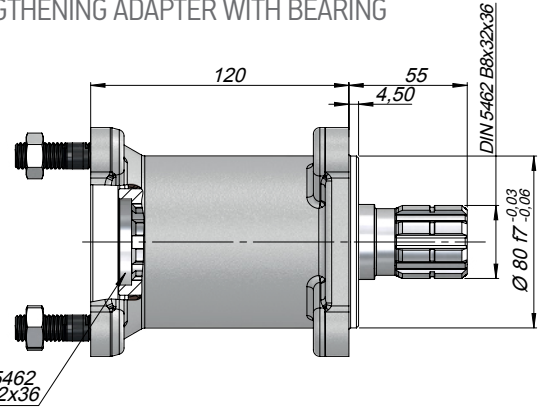
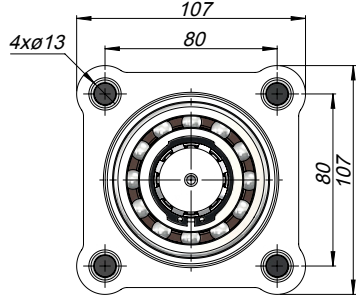
ARA UZATMA | TRC ADAPTER



Kod  
Code AKSF3

TEKNİK VERİLER | TECHNICAL DATA

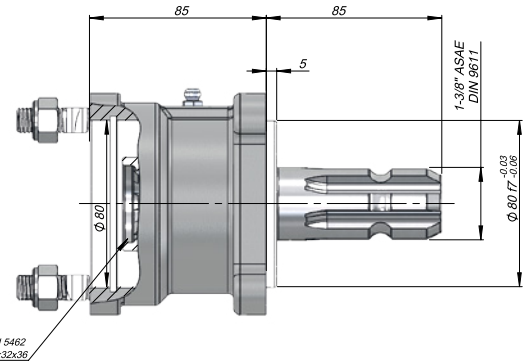
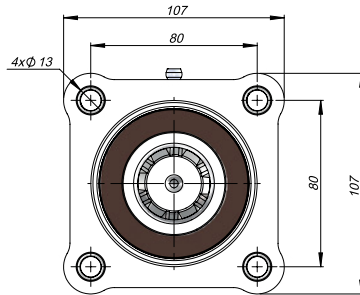
ARA UZATMA UZUN RULMANLI ADAPTER | LONG PITCH LENGTHENING ADAPTER WITH BEARING



Kod  
Code AUSF1

TEKNİK VERİLER | TECHNICAL DATA

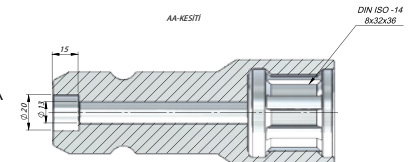
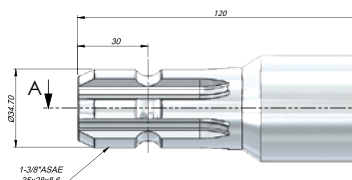
TRAKTÖR ADAPTÖR | TRACTOR ADAPTER



Kod  
Code AKSF2

TEKNİK VERİLER | TECHNICAL DATA

TRAKTÖR ADAPTÖR | TRACTOR ADAPTER

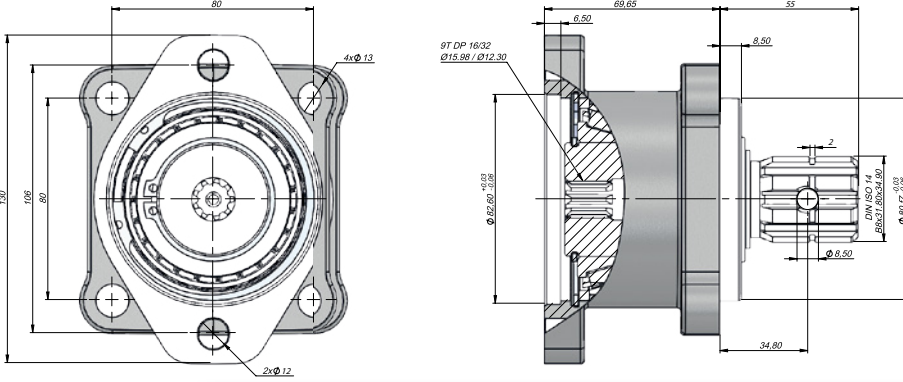


Kod  
Code ASF212

ADAPTER  
FLANGE-COUPLING

**TEKNİK VERİLER | TECHNICAL DATA**

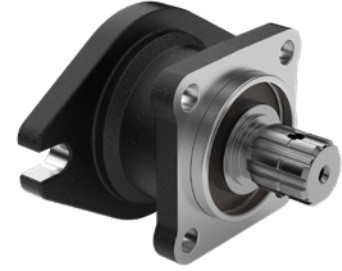
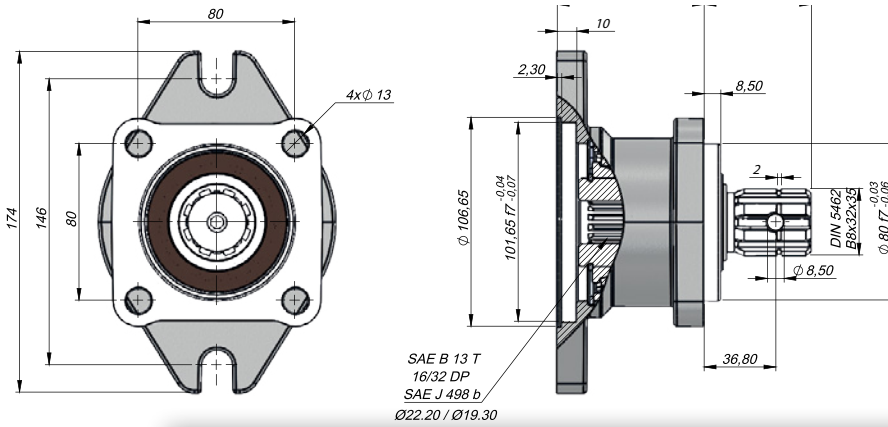
ARA UZATMA| SAE A - ISO ADAPTER



Kod  
Code AUA24SF1

**TEKNİK VERİLER | TECHNICAL DATA**

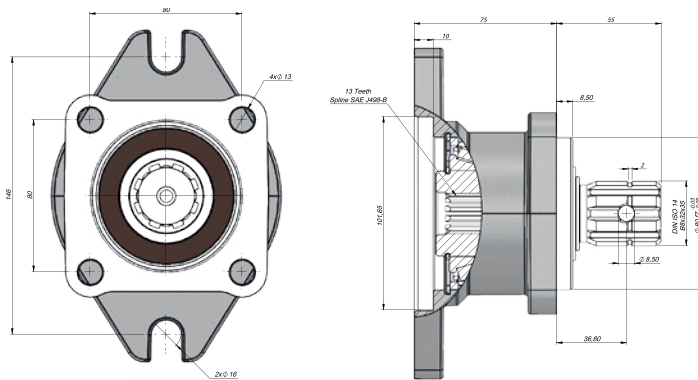
ARA UZATMA| SAE B - ISO ADAPTER



Kod  
Code AUB24SF10

**TEKNİK VERİLER | TECHNICAL DATA**

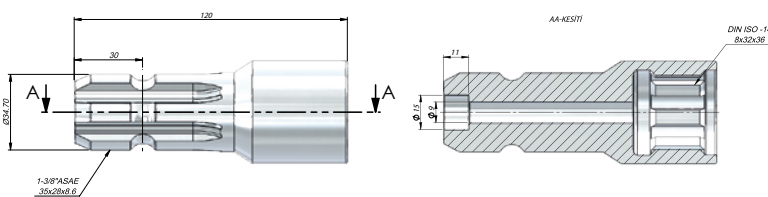
ARA UZATMA| SAE B - ISO ADAPTER



Kod  
Code AUB24SF1

**TEKNİK VERİLER | TECHNICAL DATA**

ARA UZATMA| ISO - ASAE ADAPTER

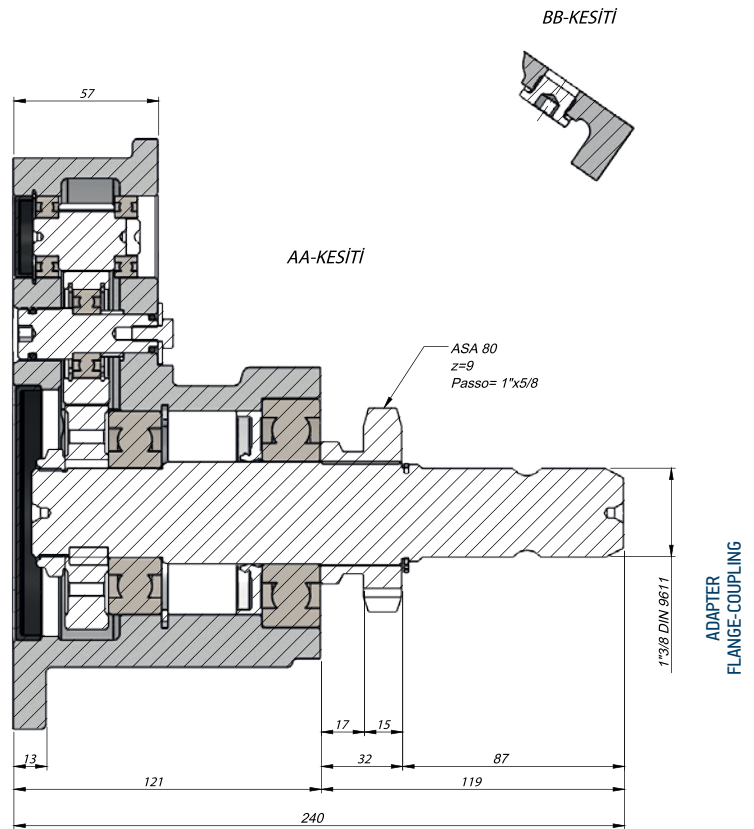
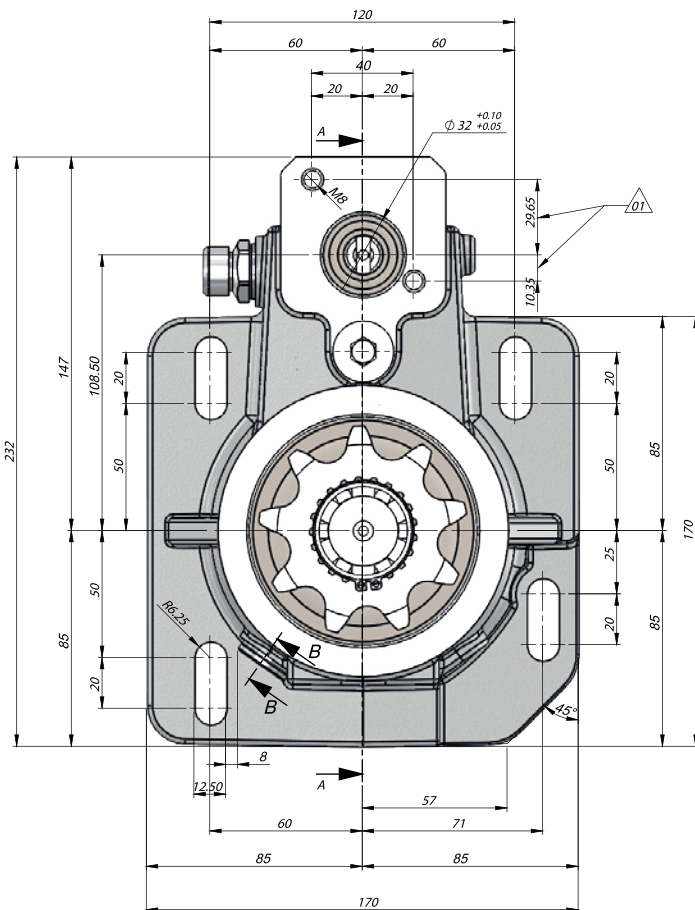


Kod  
Code ASF28

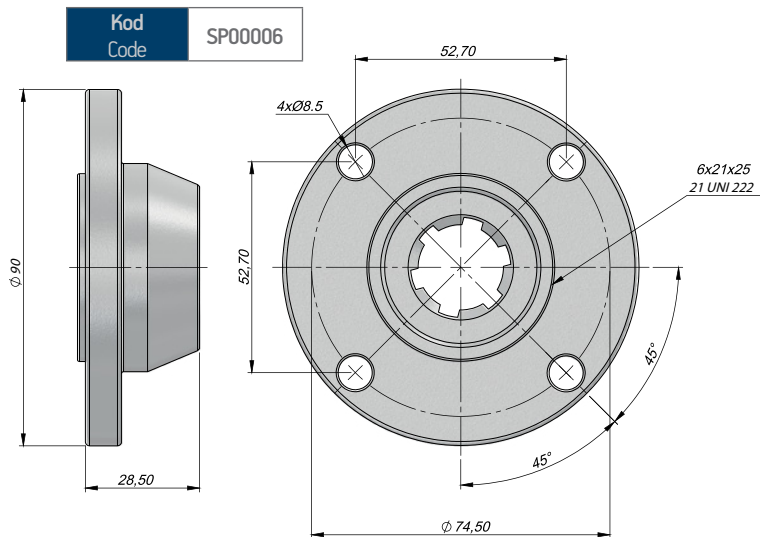
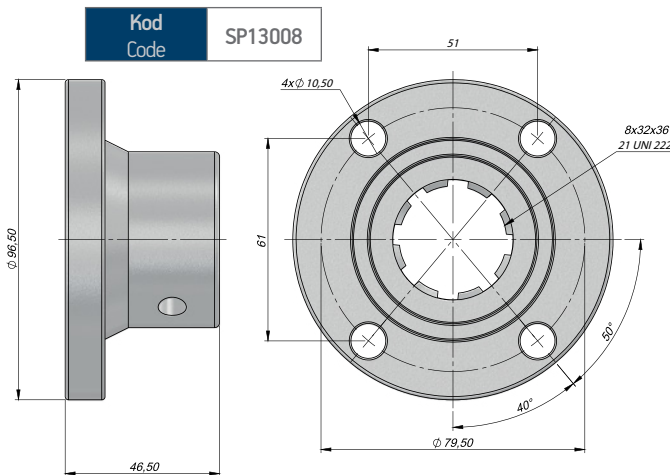
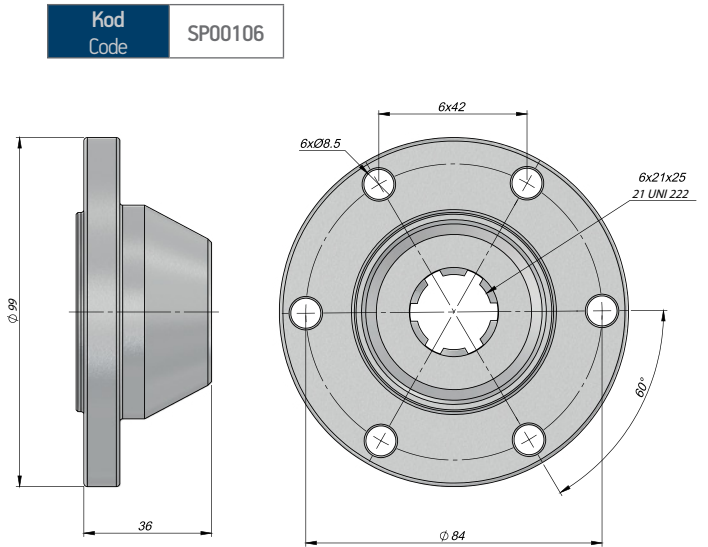
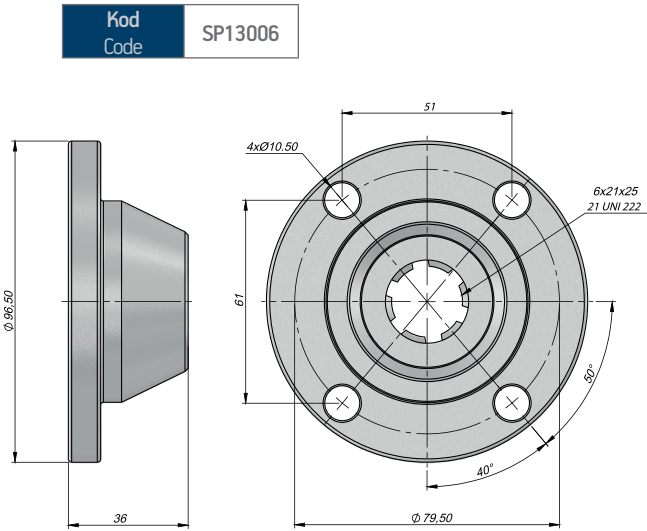
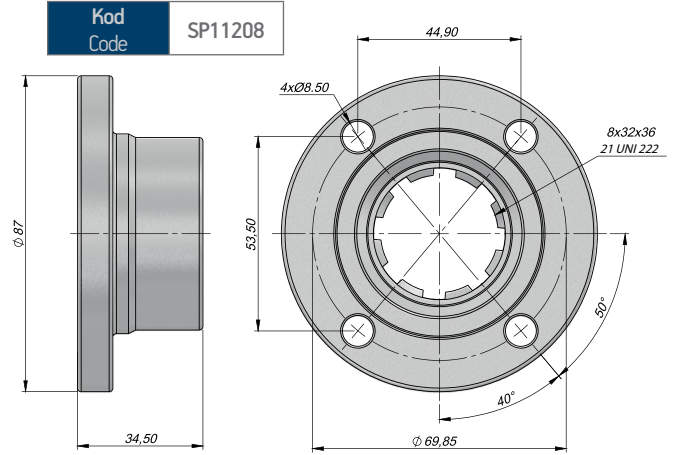
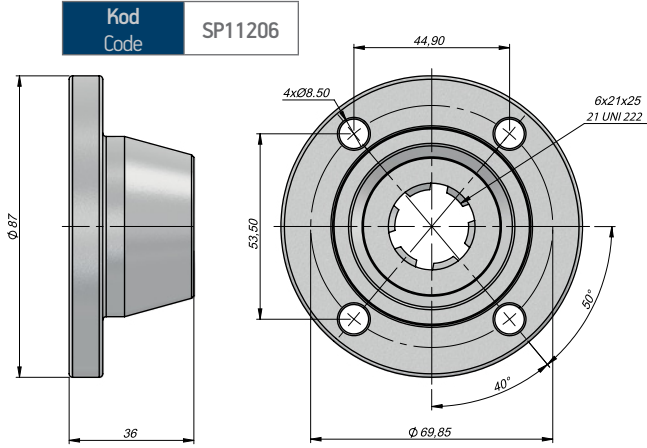


**TEKNİK VERİLER | TECHNICAL DATA**

REDÜKTÖR | REDUCER



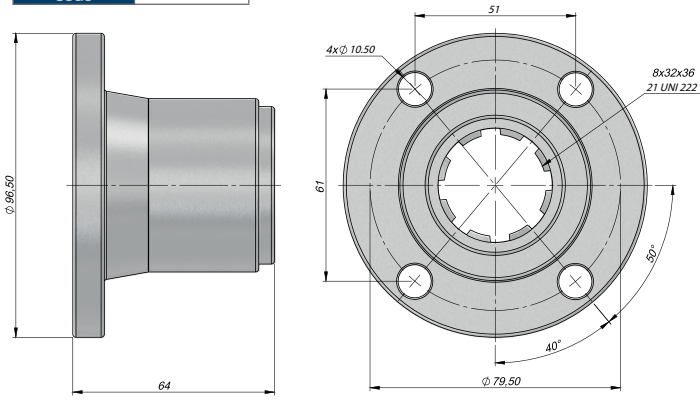
Kod  
Code GBKZLGR65



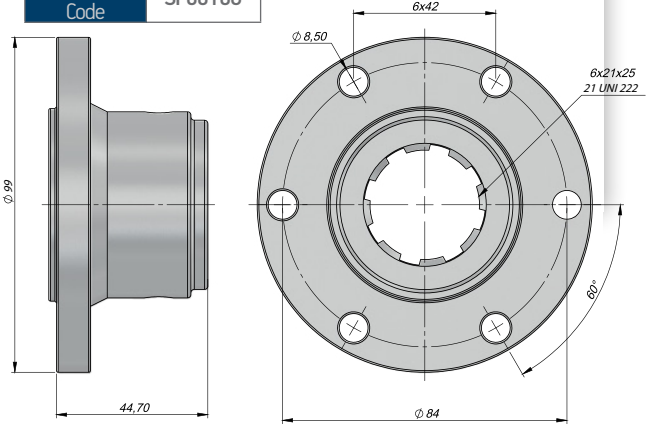


TEKNİK VERİLER | TECHNICAL DATA

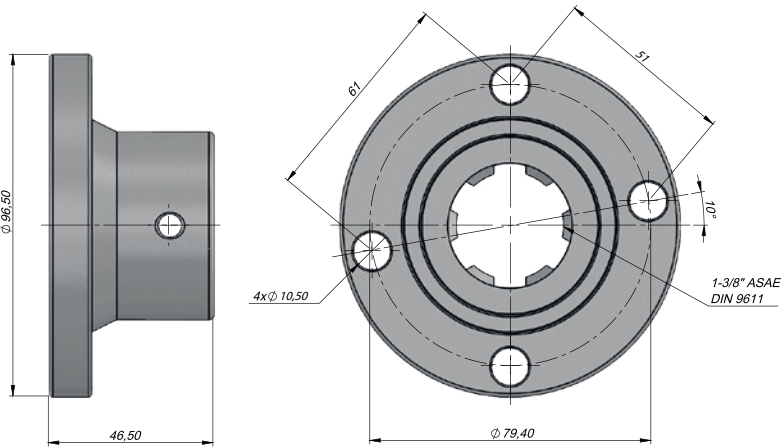
Kod Code SPR13008



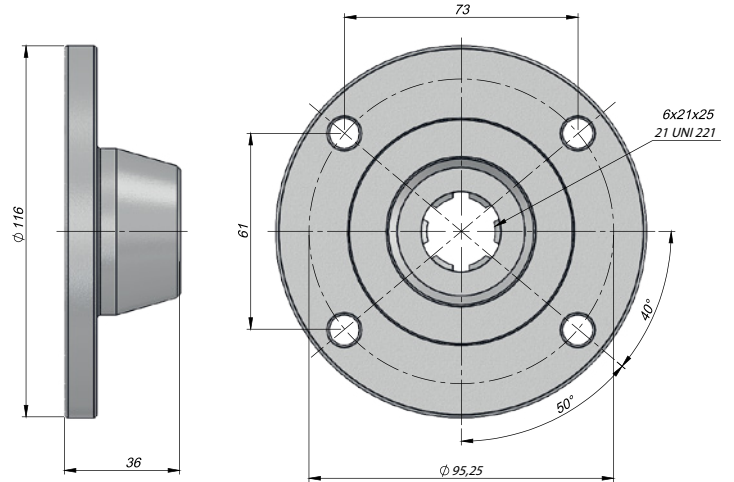
Kod Code SP00108



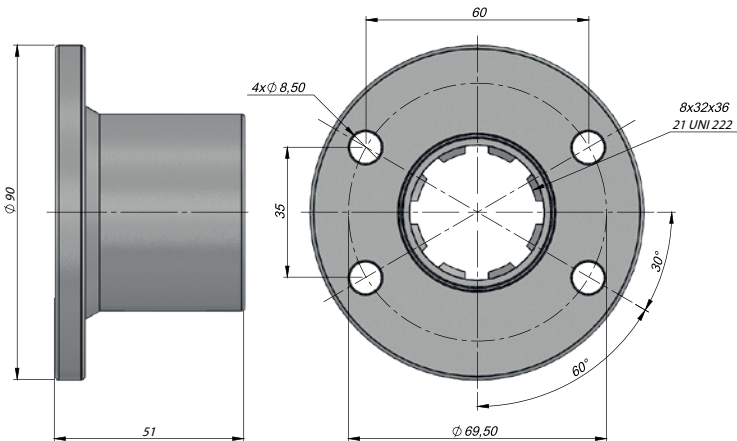
Kod Code SP00008



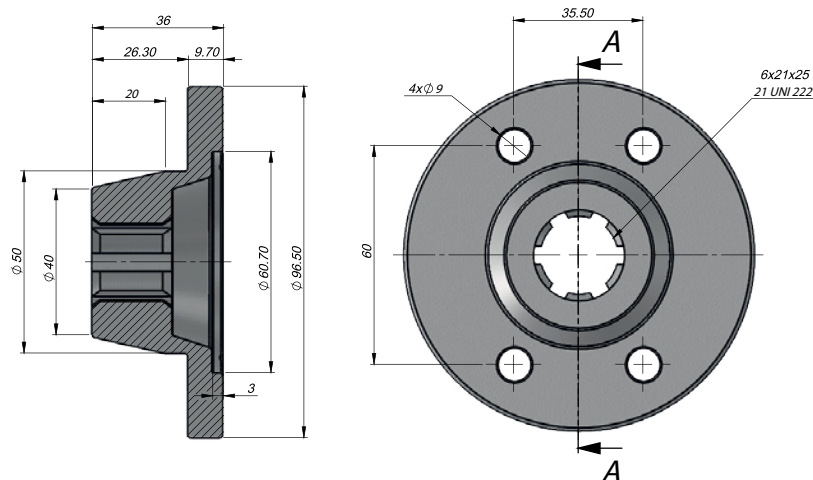
Kod Code SP140006



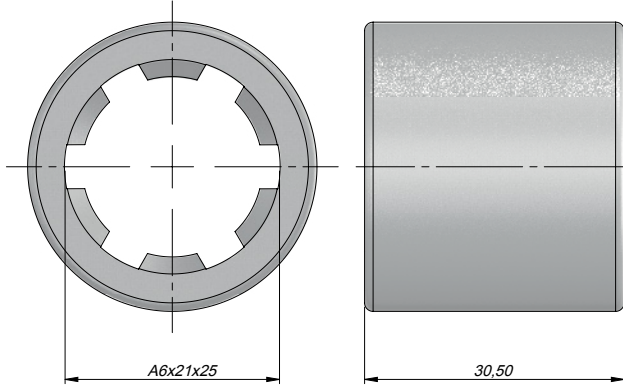
Kod Code SP11206



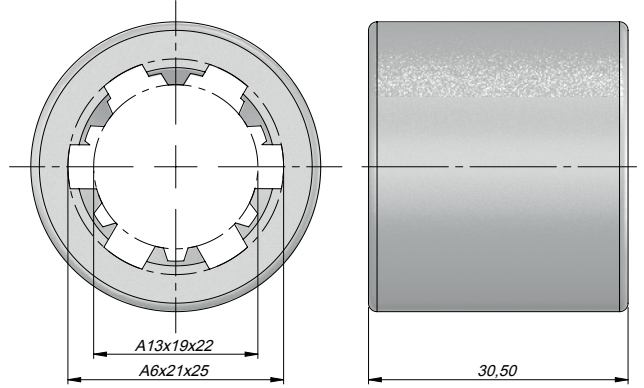
Kod Code SP13006J



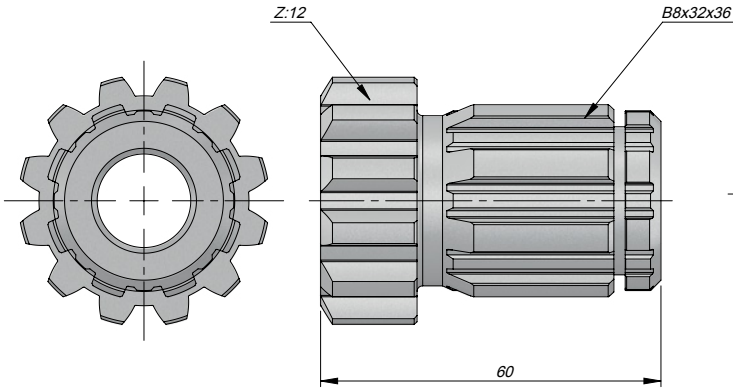
ADAPTER  
FLANGE-COUPLING



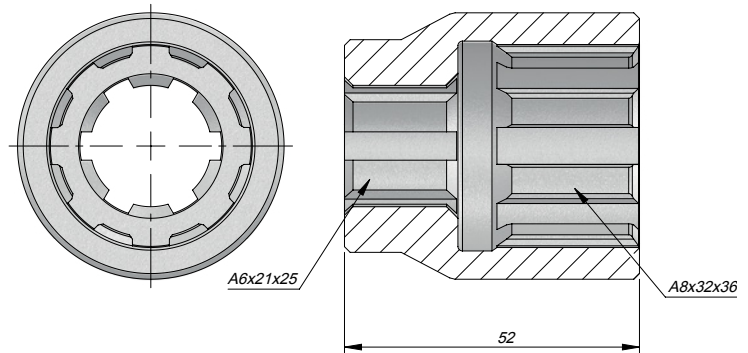
Kod  
Code CP006



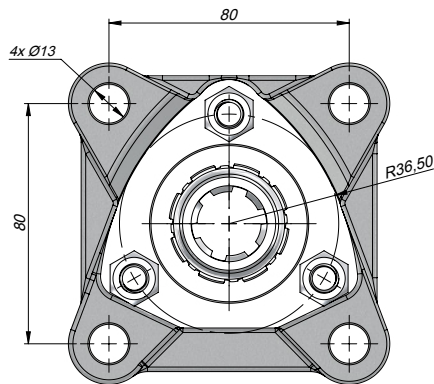
Kod  
Code CP136



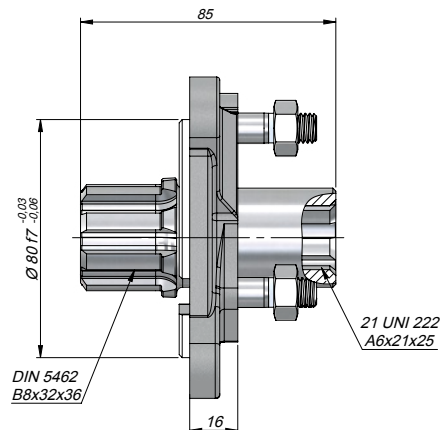
Kod  
Code CP128



Kod  
Code CP068

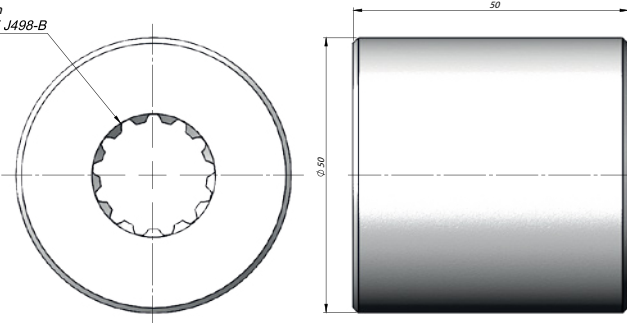


Kod  
Code CPS8U6



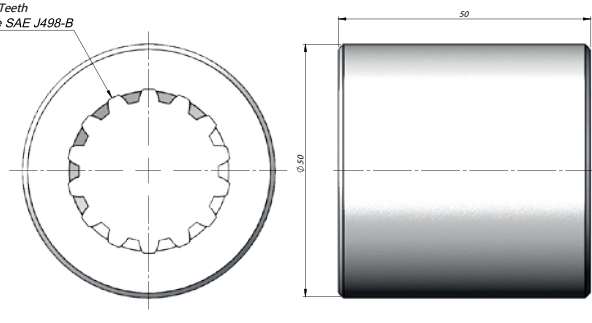
TEKNİK VERİLER | TECHNICAL DATA

13 Teeth  
Spline SAE J498-B



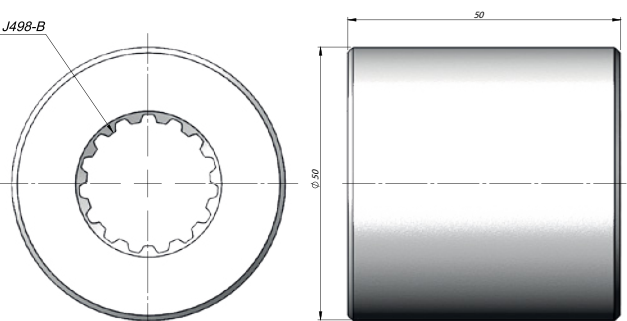
Kod  
Code CP013

14 Teeth  
Spline SAE J498-B



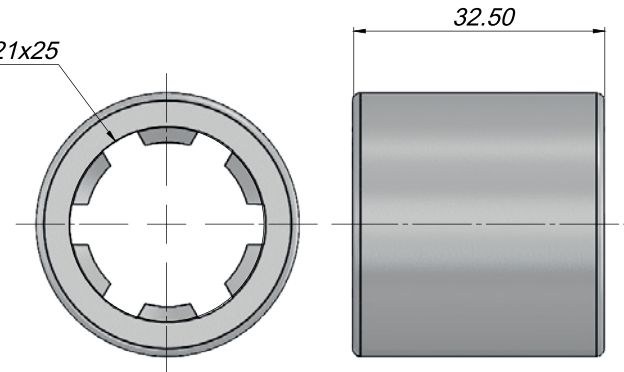
Kod  
Code CP014

15 Teeth  
Spline SAE J498-B



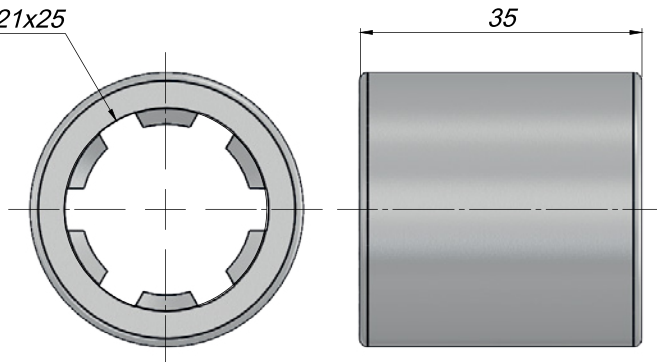
Kod  
Code CP015

6x21x25



Kod  
Code CP00613

6x21x25

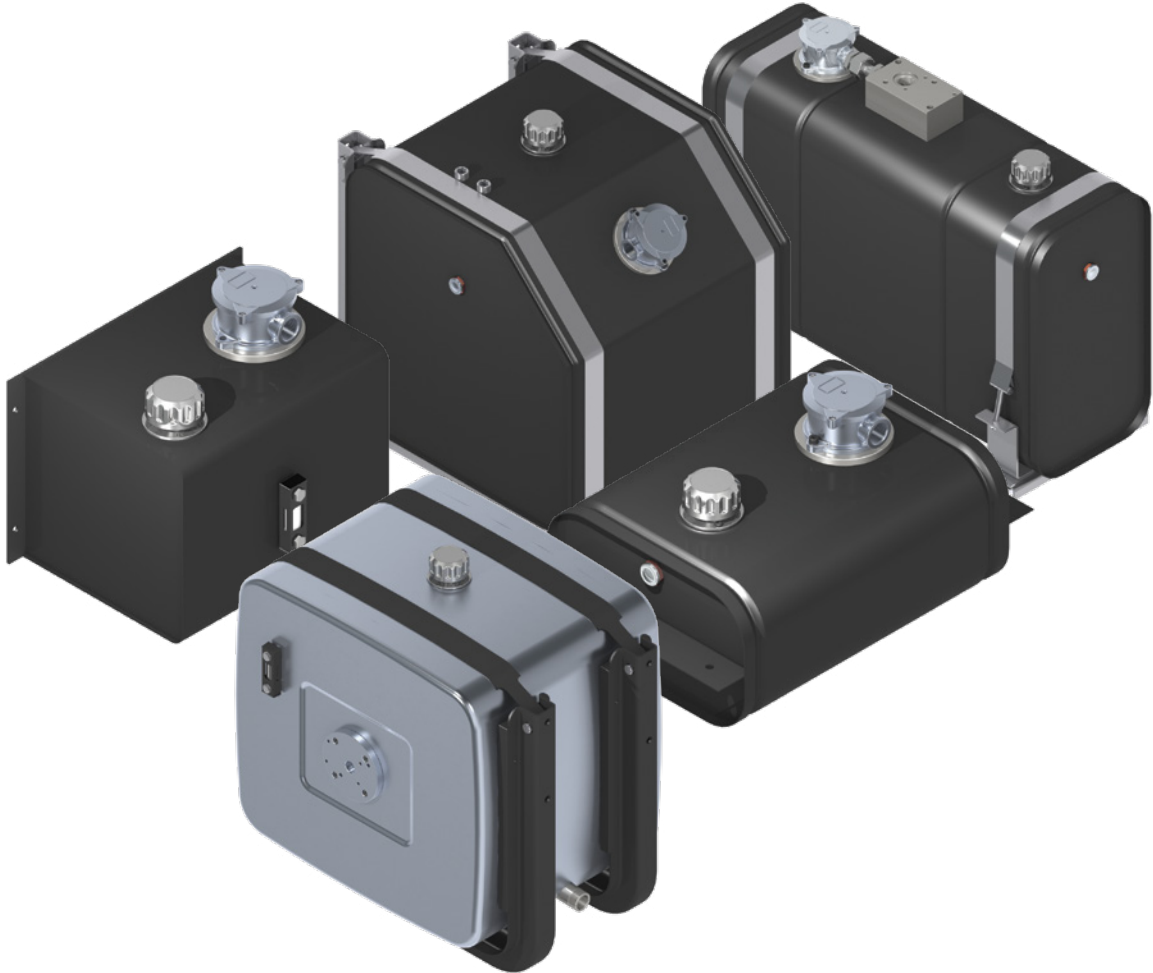


Kod  
Code CP00614

# KAZEL<sup>®</sup>

## OIL TANKS

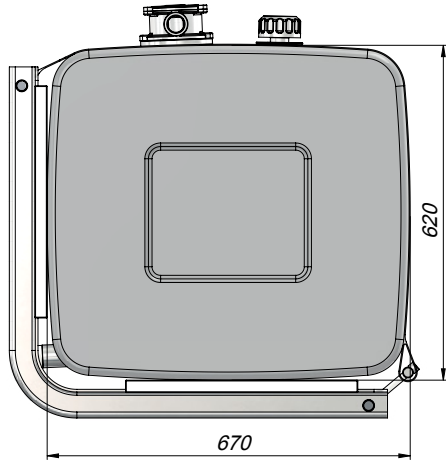
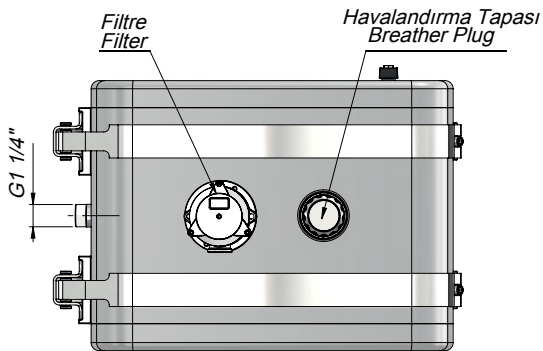
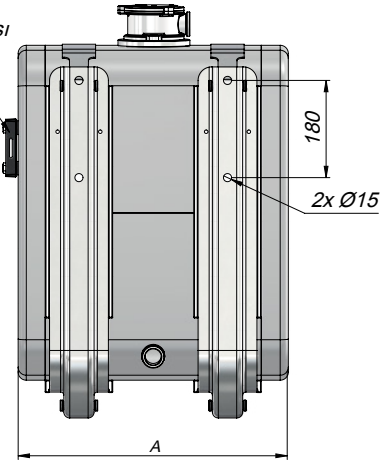
TANK SERIES



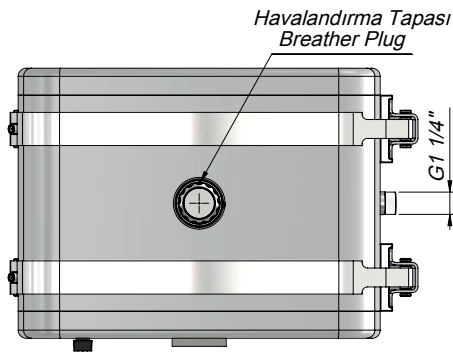
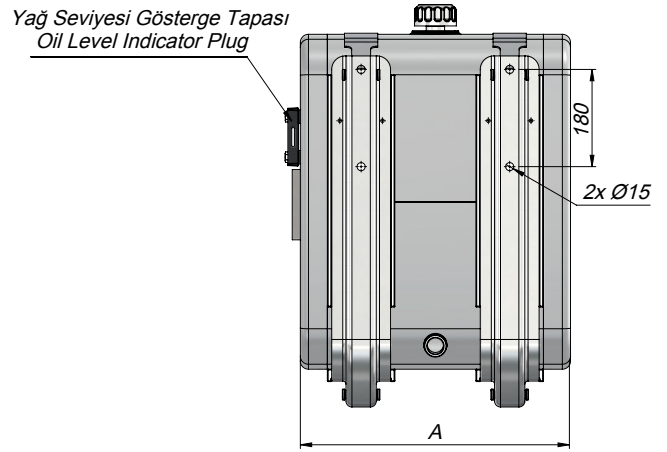
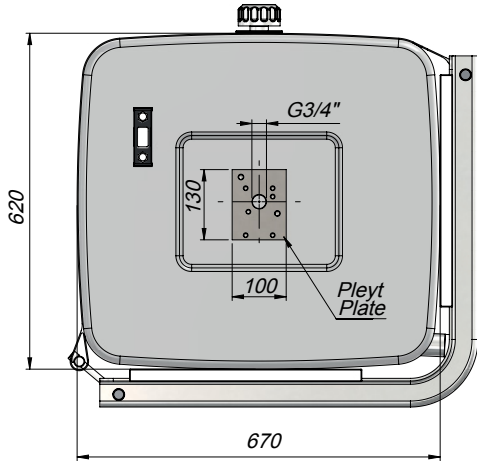
OIL TANK

## TEKNİK VERİLER | TECHNICAL DATA

FİLTRELİ ŞASİ ALTI ÇELİK YAĞ TANKI | SIDE MOUNTED STEEL OIL TANK WITH FILTER

Yağ Seviyesi Gösterge Tapası  
Oil Level Indicator Plug

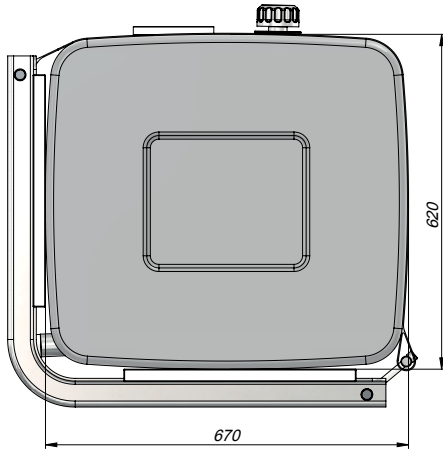
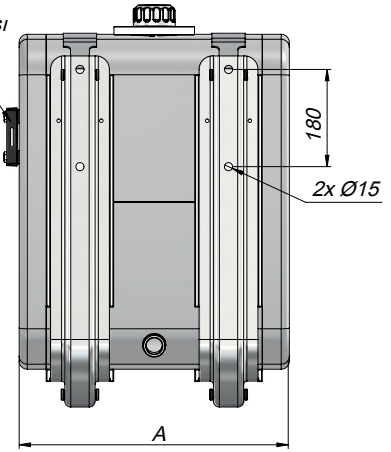
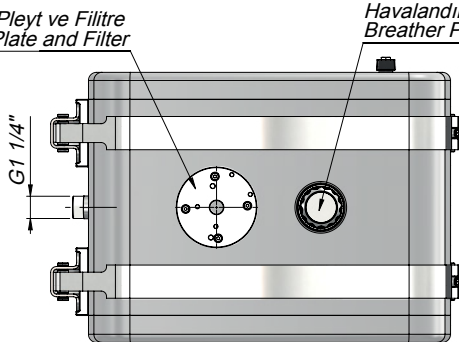
Kod Code	Hacim Volume (Lt)	A
TSMRF1001	100	275
TSMRF1201	120	330
TSMRF1351	135	375
TSMRF1501	150	425
TSMRF1651	165	450
TSMRF1701	170	475
TSMRF1801	180	500
TSMRF1901	190	525
TSMRF2001	200	550
TSMRF2501	250	700



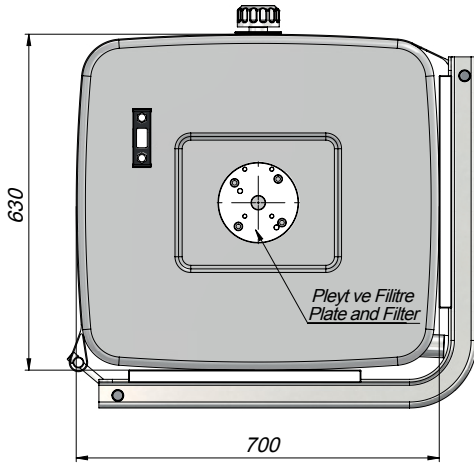
Kod Code	Hacim Volume (Lt)	A
TSMNF1001	100	275
TSMNF1201	120	330
TSMNF1351	135	375
TSMNF1501	150	425
TSMNF1651	165	450
TSMNF1701	170	475
TSMNF1801	180	500
TSMNF1901	190	525
TSMNF2001	200	550
TSMNF2501	250	700

**TEKNİK VERİLER | TECHNICAL DATA**

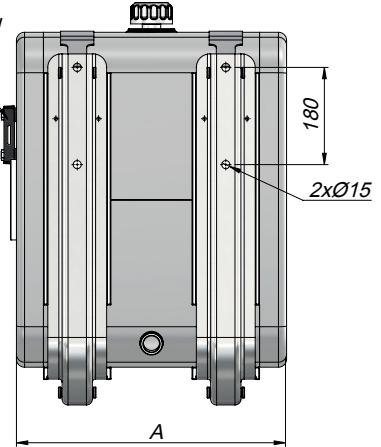
İÇTEN FİLTRELİ ŞASİ ALTI ÇELİK YAĞ TANKI | SIDE MOUNTED STEEL OIL TANK WITH INTERNAL FILTER

Yağ Seviyesi Gösterge Tapası  
Oil Level Indicator PlugPleyt ve Filtre  
Plate and FilterHavalandırma Tapası  
Breather Plug

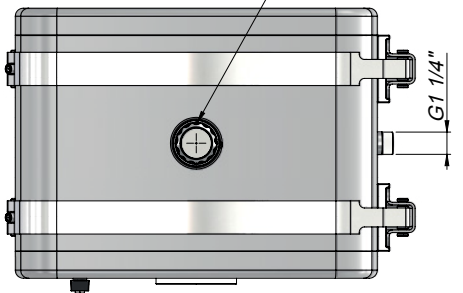
Kod Code	Hacim Volume (Lt)	A
TSMIF1001	100	275
TSMIF1201	120	330
TSMIF1351	135	375
TSMIF1501	150	425
TSMIF1651	165	450
TSMIF1701	170	475
TSMIF1801	180	500
TSMIF1901	190	525
TSMIF2001	200	550
TSMIF2501	250	700



Yağ Seviyesi Gösterge Tapası  
Oil Level Indicator Plug



Havalandırma Tapası  
Breather Plug

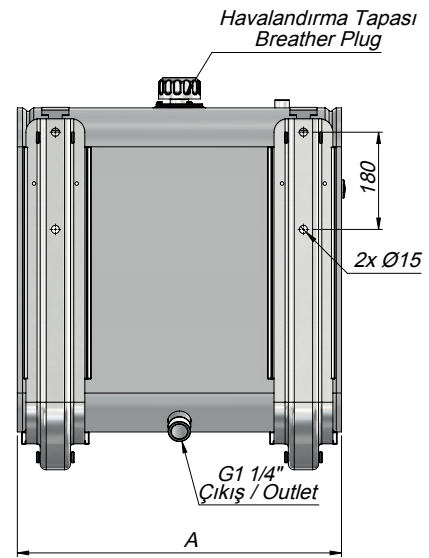
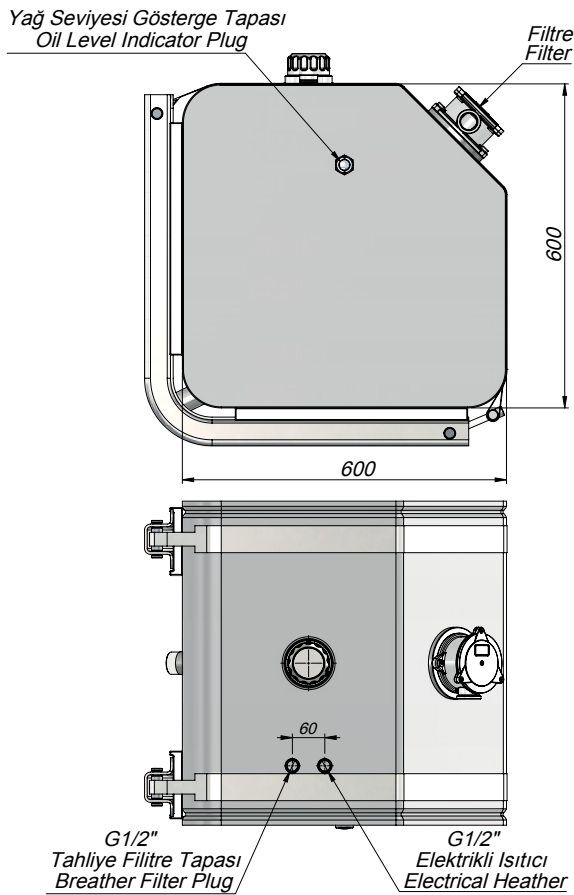
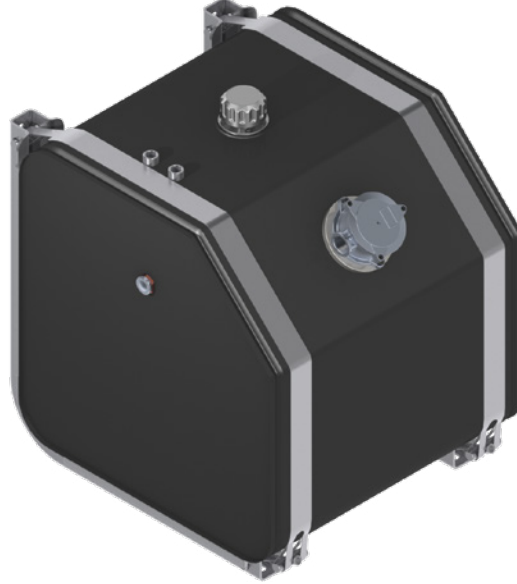


Kod Code	Hacim Volume (Lt)	A
TSMAIF1001	100	260
TSMAIF1201	120	320
TSMAIF1351	135	350
TSMAIF1501	150	400
TSMAIF1651	165	425
TSMAIF1701	170	450
TSMAIF1801	180	470
TSMAIF1901	190	500
TSMAIF2001	200	525
TSMAIF2501	250	650



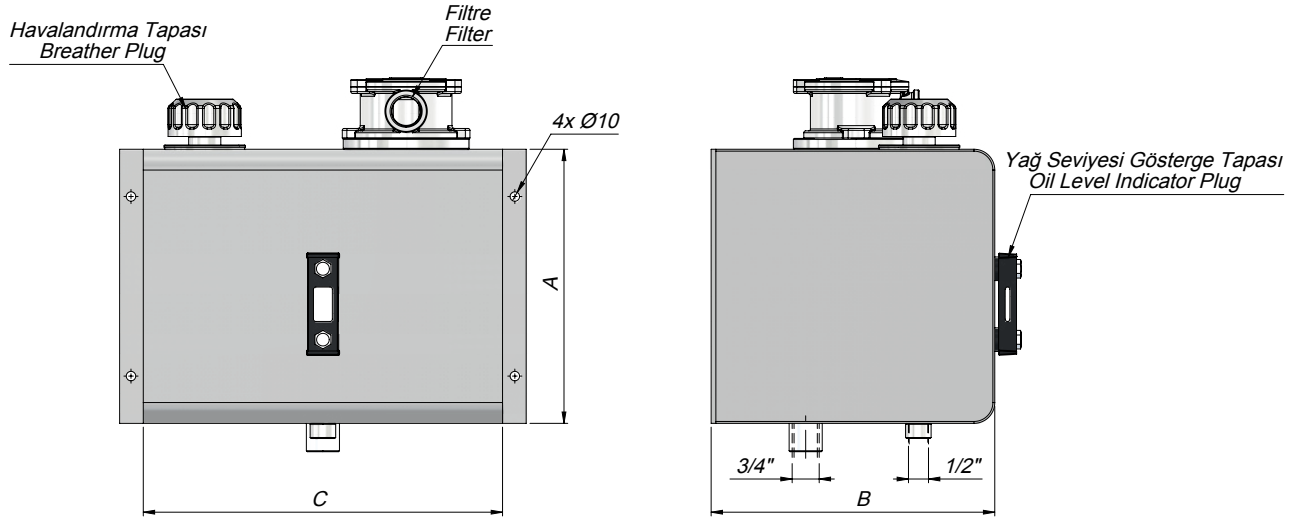
**TEKNİK VERİLER | TECHNICAL DATA**

FİLTRELİ ŞASI ALTI AÇILI YAĞ TANKI | SIDE MOUNTED BEVELLED STEEL OIL TANK WITH FILTER



Kod Code	Hacim Volume (Lt)	A
TSMRF1002	100	350
TSMRF1502	150	500
TSMRF1802	180	600
TSMRF2502	250	800

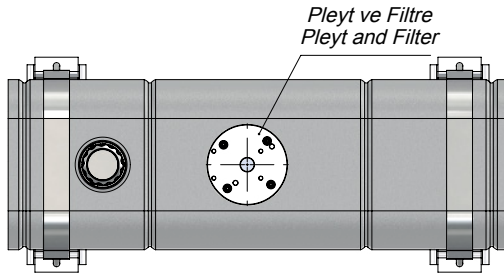
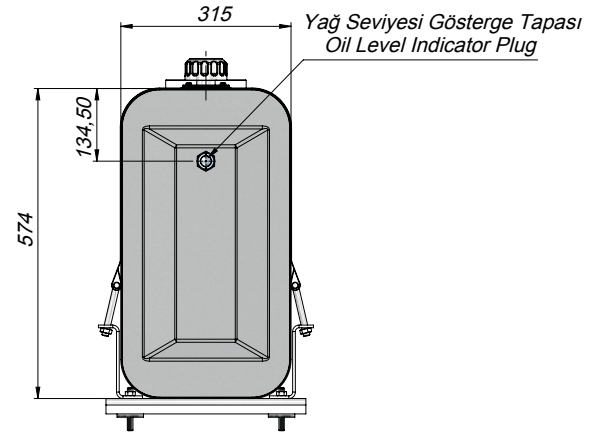
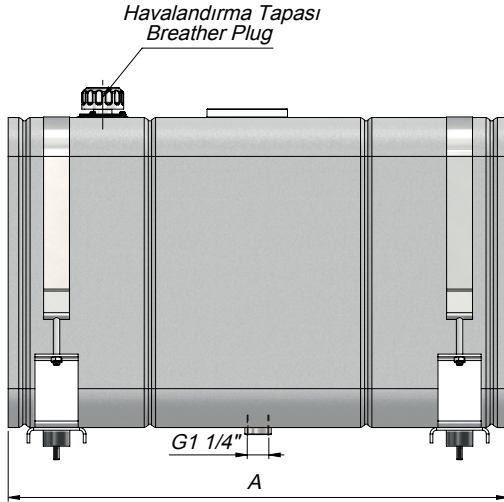
FİLTRELİ ŞASİ ALTI ÇELİK YAĞ TANKI | SIDE MOUNTED STEEL OIL TANK WITH FILTER



Kod Code	Hacim Volume (Lt)	A	B	C
TSMRF156	15	265	290	285
TSMRF256	25	265	290	400
TSMRF306	30	265	290	450
TSMRF406	40	330	290	475
TSMRF606	60	475	290	490
TSMRF806	80	475	290	650

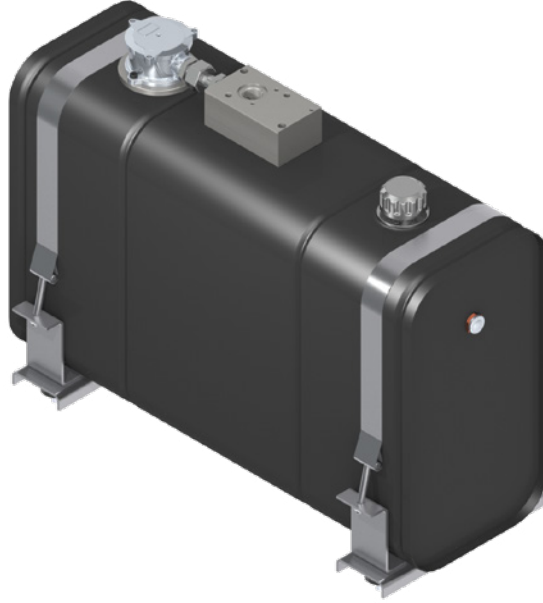
## TEKNİK VERİLER | TECHNICAL DATA

İÇTEN FİLTRELİ ŞASI ÜSTÜ ÇELİK YAĞ TANKI | REAR MOUNTED STEEL OIL TANK WITH INTERNAL FILTER

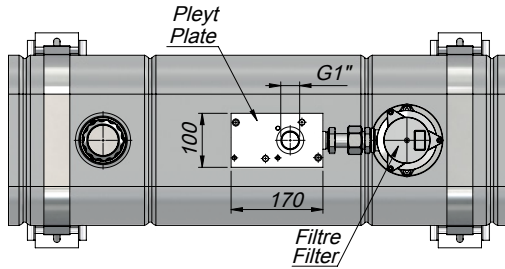
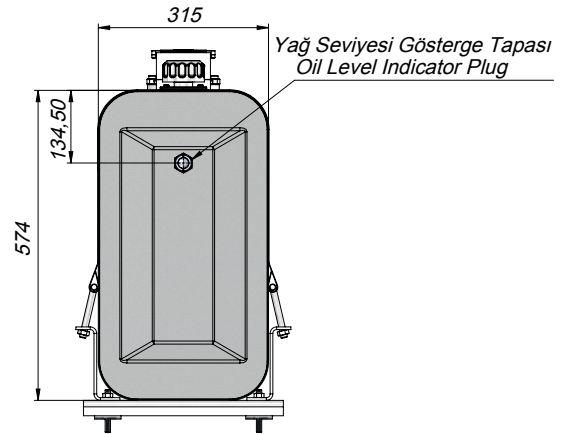
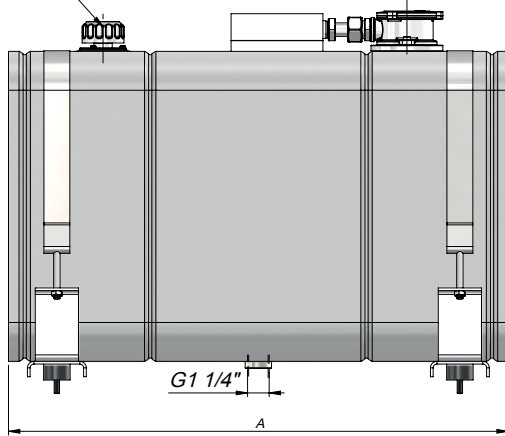


Kod Code	Hacim Volume (Lt)	A
TRMIF1001	100	650
TRMIF1201	120	745
TRMIF1501	150	925
TRMIF1801	180	1090
TRMIF2001	200	1200

FİLTRELİ ŞASI ÜSTÜ ÇELİK YAĞ TANKI | REAR MOUNTED STEEL OIL TANK WITH FILTER



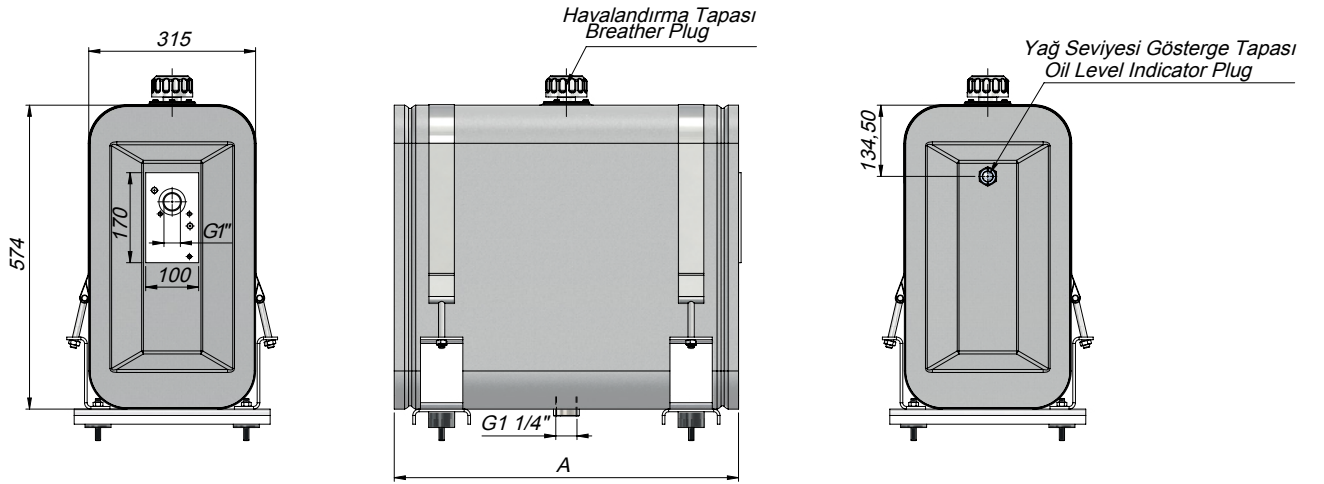
Havalandırma Tapası  
Breather Plug



Kod Code	Hacim Volume (Lt)	A
TRMRF1001	100	650
TRMRF1201	120	745
TRMRF1501	150	925
TRMRF1801	180	1090
TRMRF2001	200	1200

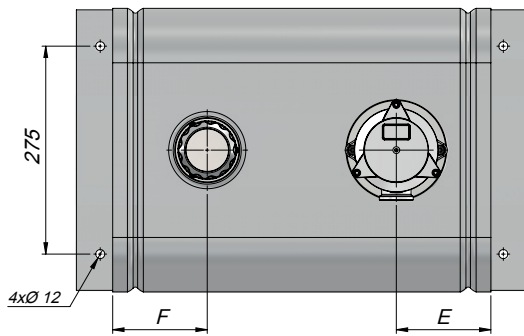
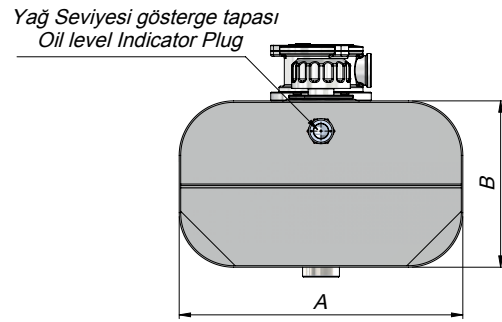
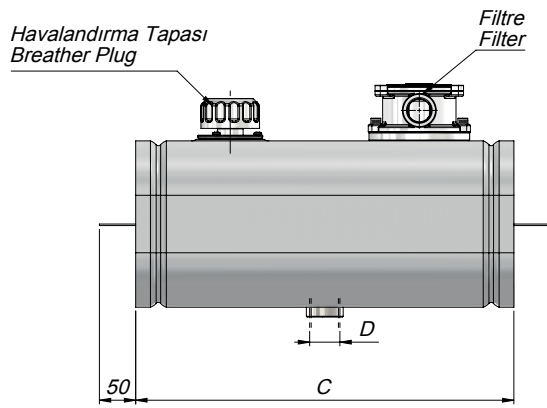
## TEKNİK VERİLER | TECHNICAL DATA

FİLTRESİZ ŞASİ ÜSTÜ ÇELİK YAĞ TANKI | REAR MOUNTED STEEL OIL TANK WITHOUT FILTER



Kod Code	Hacim Volume (Lt)	A
TRMNF0551	55	370
TRMNF0701	70	470
TRMNF0801	80	520
TRMNF1001	100	650
TRMNF1201	120	740
TRMNF1801	180	1090
TRMNF2001	200	1200

FİLTRELİ ŞASI ÜSTÜ ÇELİK YAĞ TANKI | REAR MOUNTED STEEL OIL TANK WITH FILTER

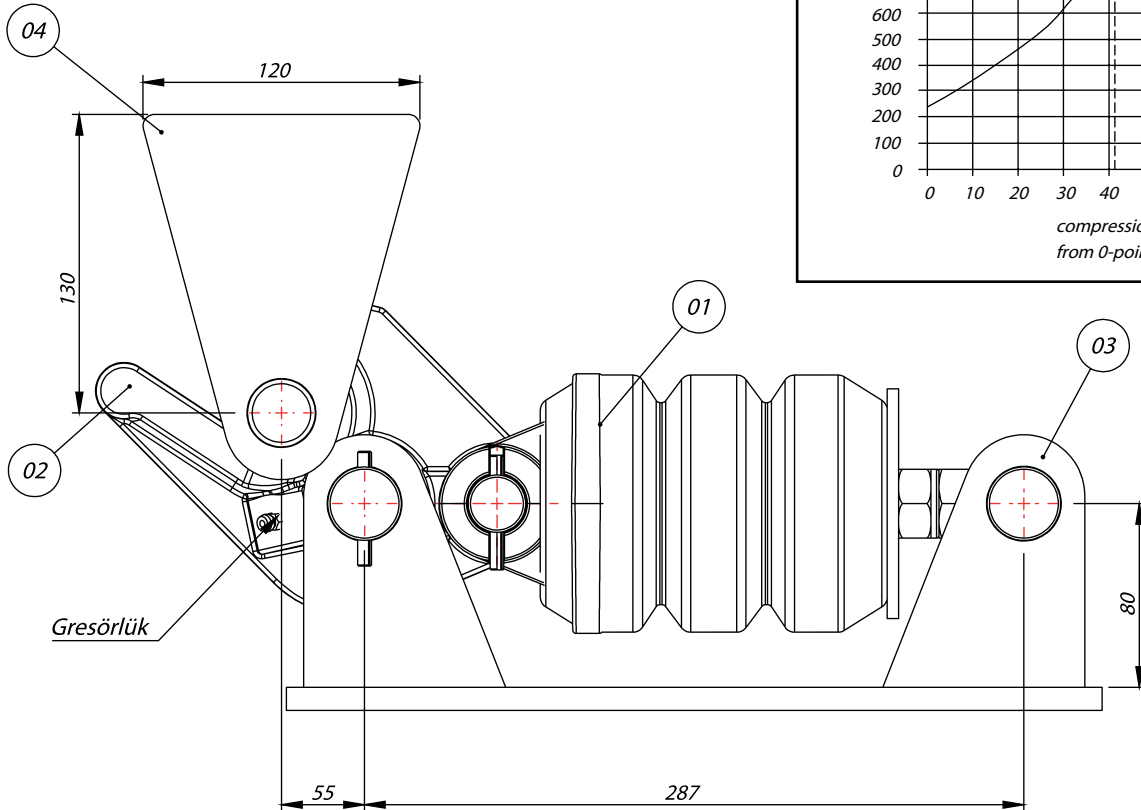
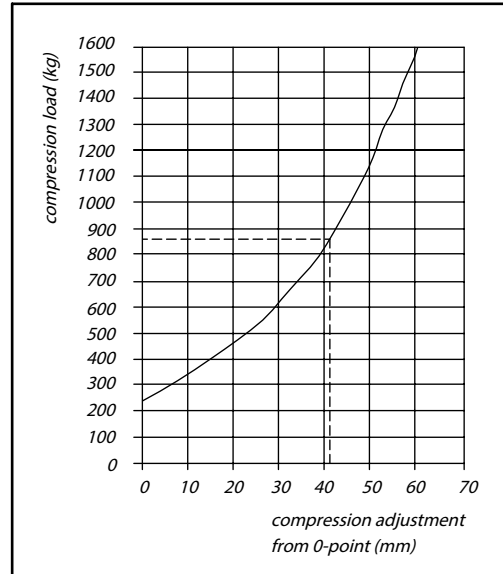


Kod Code	Hacim Volume (Lt)	A	B	C	D	E	F
TRMRF0209	20	370	220	250	G1"	100	75
TRMRF0259	25	370	270	300		100	75
TRMRF0359	35	370	220	400		100	75
TRMRF0509	50	360	320	500	G1" 1/4"	150	100
TRMRF0609	60	360	300	600		150	100



Compression load diagram

POS	Description
01	Lever operated clamp
02	Hook
03	Frame Stell
04	Bracket Stell



Kod  
Code KZL1630

# KAZEL<sup>®</sup>

## SPARE PARTS

PART SERIES





## TEKNİK VERİLER | TECHNICAL DATA



## SUCTION HOSE R4

Kod Code	Uzunluk Length	Hortum Çapı Hose Diameter
	mm	
SPSH100034	1000	3/4"
SPSH15001	1500	1"
SPSH2000114	2000	1 1/4"
SPSH2500112	2500	1 1/2"
SPSH30002	3000	2"
SPSH3500	3500	

PRESSURE HOSE R2  
90° ELBOW - STRAIGHT

Kod Code	Uzunluk Length	Hortum Çapı Hose Diameter
	mm	
SPPHSE100034	1000	3/4"
SPPHSE15001	1500	1"
SPPHSE2000114	2000	1 1/4"
SPPHSE2500112	2500	1 1/2"
SPPHSE30002	3000	2"
SPPHSE3500	3500	

PRESSURE HOSE R2  
STRAIGHT - STRAIGHT

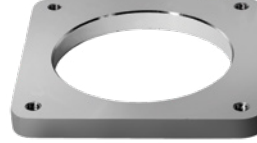
Kod Code	Uzunluk Length	Hortum Çapı Hose Diameter
	mm	
SPPHSS100034	1000	3/4"
SPPHSS15001	1500	1"
SPPHSS2000114	2000	1 1/4"
SPPHSS2500112	2500	1 1/2"
SPPHSS30002	3000	2"
SPPHSS3500	3500	

PRESSURE HOSE R2  
90° ELBOW - 90° ELBOW

Kod Code	Uzunluk Length	Hortum Çapı Hose Diameter
	mm	
SPPHEE100034	1000	3/4"
SPPHSS15001	1500	1"
SPPHSS200114	2000	1 1/4"
SPPHSS2500112	2500	1 1/2"
SPPHSS30002	3000	2"
SPPHSS3500	3500	



Kod Code	Oil Indicator
	Product Type
TSP0076	76 mm
TSP0127	127 mm



Kod Code	Filter Flange
	Product Type
TSPFF4	Square



Kod Code	Return Filter
	Product Type
TSPRF110	110 lt
TSPRF150	150 lt



Kod Code	Filter Flange
	Product Type
TSPRFC	-----



Kod Code	Return Filter
	Product Type
TSPRF240	240 lt
TSPRF260	260 lt



Kod Code	Ball Valve
	Product Type
SPBV12	R 1/2"
SPBV34	R 3/4"
SPBV01	R 1"
SPBV114	R 1 1/4"
SPBV112	R 1 1/2"
SPBV02	R 2"



Kod Code	Filler Cup
	Code
TSPFC	Filler Cup



Kod Code	Hose Clip
	Product Type
SPHC4446	Ø 44-Ø 46
SPHC4751	Ø 47-Ø 51
SPHC5255	Ø52 -Ø 55
SPHC5661	Ø 56-Ø 61
SPHC6266	Ø 62-Ø 66
SPHC7483	Ø 74-Ø 83



Kod Code	Filter Flange
	Product Type
TSPFF2	Oval

## TEKNİK VERİLER | TECHNICAL DATA



Kod Code	Hose Pillar Elbow 90°
	Product Type
SPHPE1121	R 1 1/2"
SPHPE21	R 2"



Kod Code	Hose Pillar Elbow 90°
	Product Type
SPHPE12	R 1"
SPHPE1142	R 1 1/4"
SPHPE1122	R 1 1/2"
SPHPE22	R 2"



Kod Code	Hose Pillar Straight
	Product Type
SPHPS132	R 1" -Ø 32
SPHPS11439	R 1 1/4" -Ø 39
SPHPS11245	R 1 1/2" -Ø 45
SPHPS251	R 2" -Ø 51



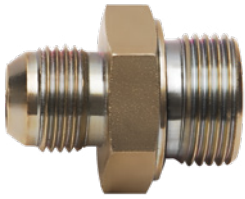
Kod Code	Hose Pillar Straight
	Product Type
SPHPS3432	R 3/4"-Ø 32
SPHPS139	R 1"-Ø 39
SPHPS11445	R 1 1/4"-Ø 45
SPHPS11251	R 1 1/2"-Ø 51



Kod Code	Quick Coupling
	Product Type
SPQC34	R 3/4"
SPQC01	R 1"
SPQC114	R 1 1/4"
SPQC112	R 1"-1/2"
SPQC002	R 2"



Kod Code	Hose Clip (Plastic)
	Product Type
SPHC272	Ø 27
SPHC272	Ø 27



Kod Code	Fitting
	Product Type
SPF158	R 1"-5/8 UNF
SPF11116	R 1"-1 1/16 UNF
SPF3478	R 3/4"-7/8 UNF
SPF11258	R 1 1/2"-5/8 UNF
SPF11516	R 1"-1 5/16 UNF
SPF1158	R 1"-1 5/8 UNF
SPF1341116	R 1 3/4"-1 1/16 UNF
SPF11278	R 1 1/2"-7/8 UNF



Kod Code	Fitting
	Product Type
SPF3434	R 3/4"-R 3/4"
SPF0101	R 1"- R1
SPF114114	R 1 1/4"-R 1 1/4"
SPF112112	R 1 1/2"-R 1 1/2"
SPF0202	R 2"-R 2"



Kod Code	Fitting
	Product Type
SPF2112	R 2"-R1 1/2"



Kod Code	Fitting (Unf)
	Product Type
SPF1516	R 1"- 5/16 UNF
SPF34116	R 3/4"- 1 1/16 UNF



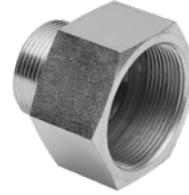
Kod Code	Fitting (Unf)
	Product Type
SPFS1516	R 1"- 1 5/16 UNF
SPFS34116	R 3/4"- 1 1/16 UNF



Kod Code	FITTING ELBOW 90°
	PRODUCT TYPE
SPFE58	5/8 UNF-5/8 UNF
SPFE78	7/8 UNF-7/8 UNF
SPFE1116	1 1/16 UNF-1 1/16 UNF
SPFE1516	1 5/16 UNF-1 5/16 UNF



Kod Code	Reducer
	Product Type
SPR3412	R 3/4"-R 1/2"
SPR134	R 1"-R 3/4"
SPR1141	R 1 1/4"-R 1"
SPR112114	R 1 1/2"-R 1 1/4"
SPR2114	R 2"-R 1 1/4"
SPR2112	R 2"-R 1 1/2"



Kod Code	Fitting Increase
	Product Type
SPFI1141	R 1 1/4"-R 1"
SPFI0134	R 1"-R 3/4"



Kod Code	Fitting "T" Nut
	Product Type
SPFT58	5/8 UNF
SPFT78	7/8 UNF
SPFT1116	1 1/16 UNF
SPFT1516	1 5/16 UNF



Kod Code	Fitting Female
	Code
SPFF38	R 3/8"
SPFF12	R 1/2"
SPFF34	R 3/4"
SPFF01	R 1"



Kod Code	Fitting "T" Male
	Product Type
SPFTM58	5/8 UNF
SPFTM78	7/8 UNF
SPFTM1116	1 1/16 UNF
SPFTM1516	1 5/16 UNF



Kod Code	Fitting For Tipping Valve
	Product Type
SPFV1	R 1"-REVERSE



Kod Code	Fitting For Tipping Valve
	Product Type
SPFV11516	R 1"-1 5/16 UNF
SPFV341116	R 3/4"-1 1/16 UNF



Kod Code	Blind Plug
	Product Type
SPBP14	R 1/4"
SPBP12	R 1/2"
SPBP34	R 3/4"
SPBP01	R 1"
SPBP114	R 1 1/4"

**TEKNİK VERİLER | TECHNICAL DATA**



Kod Code	Washer Product Type
SPW38	R 3/8"
SPW34	R 3/4"
SPW101	R 1"
SPW114	R 1 1/4"



Kod Code	Washer With Seal Product Type
SPWS38	R 3/8"
SPWS12	R 1/2"
SPWS34	R 3/4"
SPWS101	R 1"
SPWS114	R 1 1/4"
SPWS112	R 1 1/2"
SPWS02	R 2"



Kod Code	Air Hose-Ø6 Product Type
SPAH10	10 mt
SPAH15	15 mt
SPAH20	20 mt
SPAH25	25 mt
SPAH30	30 mt
SPAH35	35 mt



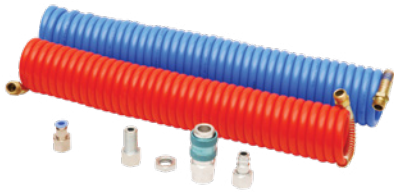
Kod Code	Air Fitting "T" Product Type
SPAFT12	M12
SPAFT14	R 1/4
SPAFT18	R 1/8



Kod Code	Air Fitting Elbow Product Type
SPAFE12	M12
SPAFE14	R 1/4
SPAFE18	R 1/8



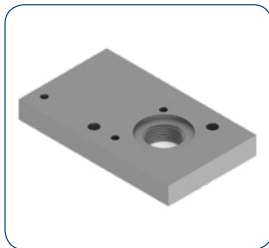
Kod Code	Air Fitting Straight Product Type
SPAFS126	M12-Ø 6
SPAFS146	R 1/4-Ø 6
SPAFS186	R 1/8-Ø 6
SPAFS128	M12-Ø 8
SPAFS148	R 1/4-Ø 8
SPAFS188	R 1/8-Ø 8



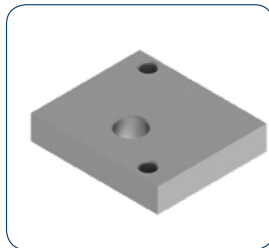
Kod Code	Air Hose Kit With Pneumatic Fitting Product Type
SPAHK	Full Kit



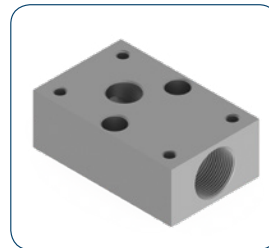
Kod Code	Filtreli Yağ Tank Kapağı Filter Oil Tank Cover
TSPRFC	



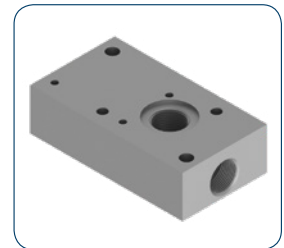
Kod Code	Yağ Tank Pleyt Oil Tank Plate
TSPTP1	



Kod Code	Hilal Tank Pleyt Hilal Tank Plate
TSPHTP	



Kod Code	3B İzam Tank Pleyti 3B İzam Tank Plate
TSPITP	



Kod Code	Tank Pleyt Tank Plate
TSPTP2	



Kod Code  
SPSDV1 Tekli Damper Valfi  
Single Dumper Valve



Kod Code  
SPSDV2 İkilili Damper Valfi  
Double Dumper Valve



Kod Code  
SPSDV3 Üçlü Damper Valfi  
Tripple Dumper Valve



Kod Code  
SPSDV4 Dörtlü Damper Valfi  
Fourfold Dumper Valve



Kod Code  
SPPC01 Pnömatik Kontrol  
Pneumatic Control



Kod Code  
SPEC3 Elektrik Kontrol  
Electric Control



Kod Code  
SPLCV Limit Kontrol Valf  
Limit Control Valve



Kod Code  
SPPV01 Pnömatik Valf  
Pneumatic Valve



Kod Code  
SPOC3422 Çıkış Rekoru  
G3/4"-M22  
Outlet Coupling  
G3/4" - M22



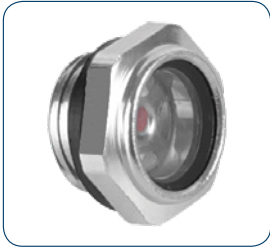
Kod Code  
SPOC3422 Çıkış Rekoru  
G3/4" 12- G3/4"14  
Outlet Coupling  
G3/4" 12- G3/4"14



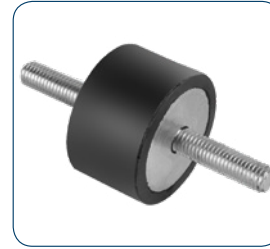
Kod Code  
SPOC11234 Çıkış Rekoru  
G1" - G3/4"  
Outlet Coupling  
G1" 12 - G3/4



Kod Code  
SPUS Nipel Bağlantısı  
Union Straight



Kod Code  
TSPLI Yağ Seviye Göstergesi  
Oil Level Indicator



Kod Code  
TSPTR Yağ Tank Takozu  
Oil Tank Rubber



Kod Code  
SW12 Müşür 1/2  
Switch 1/2



Kod Code  
SW16 Müşür M16  
Switch M16



Kod Code  
SPS1045 Saplama  
M10x12x23x45  
Stud M10x12x23x45



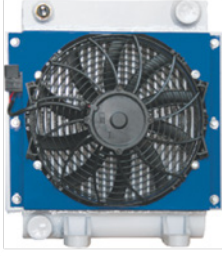
Kod Code  
SPS1250 Saplama  
M12x15x23x50  
Stud M12x15x23x50



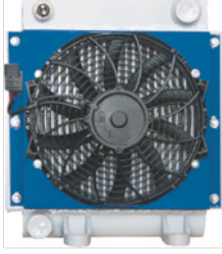
Kod Code  
SPS12115 Saplama  
M12x15x32x115  
Stud M12x15x32x115

**TEKNİK VERİLER | TECHNICAL DATA**

Kod Code	Max Debi	Kapasite Capacity	Basınç Pressure	Voltaj Voltage	Termostat Thermostat
	(lt/dk)	(kcal/h)	(bar)	(AC/DC)	(C)
CLR2020	90	6000	20	220V 12-24 V	50/60



Kod Code	Max Debi	Kapasite Capacity	Basınç Pressure	Voltaj Voltage	Termostat Thermostat
	(lt/dk)	(kcal/h)	(bar)	(AC/DC)	(C)
CLR2024	135	12000	20	220V 12-24 V	50/60



Kod Code	Max Debi	Kapasite Capacity	Basınç Pressure	Voltaj Voltage	Termostat Thermostat
	(lt/dk)	(kcal/h)	(bar)	(AC/DC)	(C)
CLR2030	150	24000	20	220V 12-24 V	50/60



Kod Code	Max Debi	Kapasite Capacity	Basınç Pressure	Voltaj Voltage	Termostat Thermostat
	(lt/dk)	(kcal/h)	(bar)	(AC/DC)	(C)
CLR2040	250	28000	20	220V 12-24 V	50/60



Kod Code	Max Debi	Kapasite Capacity	Basınç Pressure	Voltaj Voltage	Termostat Thermostat
	(lt/dk)	(kcal/h)	(bar)	(AC/DC)	(C)
CLR2050	350	40000	20	220V 12-24 V	50/60



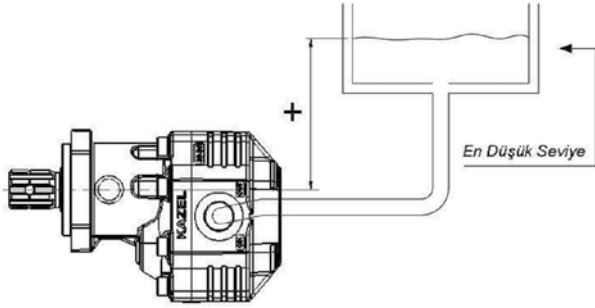
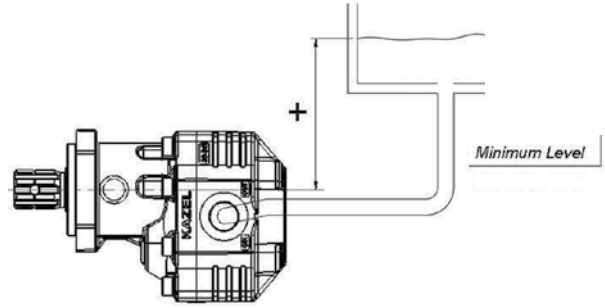
Kod Code	Max Debi	Kapasite Capacity	Basınç Pressure	Voltaj Voltage	Termostat Thermostat
	(lt/dk)	(kcal/h)	(bar)	(AC/DC)	(C)
CLR2075	480	60000	20	220V 12-24 V	50/60

Hidrolik yağ soğutucular Hidrolik mobil vinçler hidrolik ile çalışan tüm makinalarda kullanılmak üzere tasarlanmış davlumbazı ve fanı ile kompakt bir üründür.  
Because it is used in the whole machines which start with hydraulic in hydraulic oil cooling, hydraulic mobile winc, it is a compact product which is planned with paddle box and fan.

# **KAZEL<sup>®</sup>** **TECHNICAL** DATA

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**YERLEŞTİRME KURALLARI****RULES OF INSTALLATION****HİDROLİK SIVILAR**

Sıvı seçileceği zaman bütün sistem elemanları ile birlikte sistem içi uyumun göz önünde bulundurularak mineral yağa göre sıvı kullanılmasını tavsiye ediyoruz. Hidrolik sıvı kategorisi açıklaması onların durumuna göre olmalıdır. Akışkanlığına, derecesine, kullanımına göre.

**STANDART SIVILAR**

Sıvılar hl/hm/hv iso 6743-4 e göre. Bu sıvılar hidrolik sistemlerde çok fazla kullanılan sıvılardır. Onlar anti korozyon (paslanmayı engelleyici madde), aşınma önleyici ve oksitlenmeyi önleyici katkıları içermektedirler ve akışkanlık hakkındaki zaman aşımının muteber olduğunu temin eder. Bu yağlar bütün hidrolik parçalarla bağdaşabilir.

**ÖZEL SIVILAR**

Ateşe dayanıklı sıvılar (hf kategorisi) veya ekolojik (çevrebilimsel) sıvılar (he kategorisi) belki materyallerle uyumluluk problemlerine veya aksel piston ünitelerindeki hız yada en yüksek kabul edilmiş basıncı sınırlandıran niteliklerine sahip olabilir. Bu yüzden, bu sıvıların kullanımı zorunlu olduğu durumlarda teknik destek almanızı

tavsiye ederiz. Ayrıca bütün parçalar mineral yağla test edildikten sonra sistemi toplamadan önce onlardan artan yağı tamamen boşaltmak zorunludur. Bunu yapabilmek için sizin sisteme göre ve çalışma sıcaklığına göre en iyi işletme akışkanlığını dikkate almanız gerekmektedir. Eğer

mineral yağlar kullanılır ise, akışkanlığı;

- Dişli pompalar için  $\leq 1300$  cst

- Piston pompalar için  $\leq 1000$  cst

$\leq 1000$  cst olarak başlıyor olmalıdır.

Çalışma esnasında 10 cst nin akışkanlığının en asgari olması gerekmektedir. En uygun çalışma alanı, 40 ve 15 cst arasında bir akışkanlık ile elde edilebilir.

**HYDRAULIC FLUIDS**

We recommend using fluids based on mineral oil; in particular, when selecting the fluid, the compatibility with all the systems elements has to be taken into consideration. The hydraulic fluid category explanation must be according to the situation of its viscosity, temperature and usage.

**STANDARD FLUIDS**

Fluids HL/HM/HV are according to ISO6743-4. These fluids are the most used fluids in the hydraulic systems. They contain anticorrosion, antiwear and anti oxidation additives, and provided that the prescriptions about viscosity are respected. These oils are compatible with all the hydraulic parts.

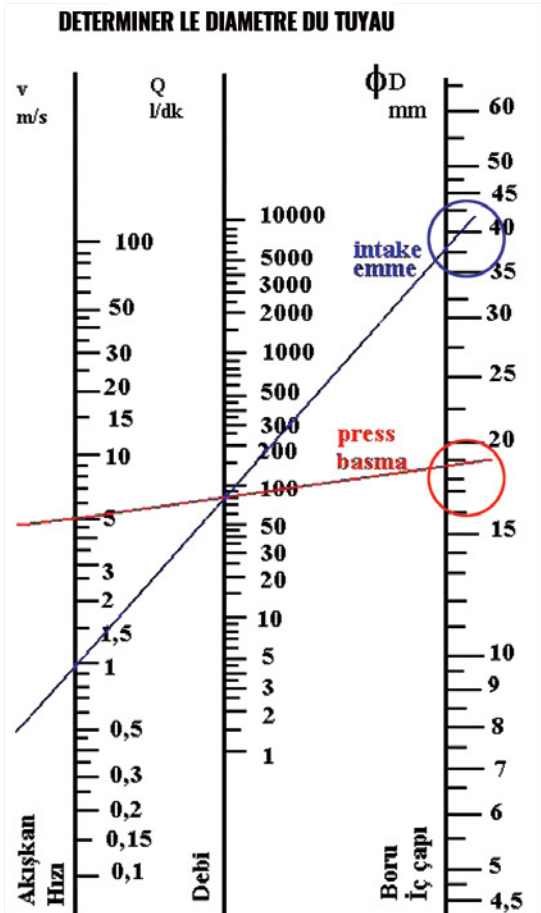
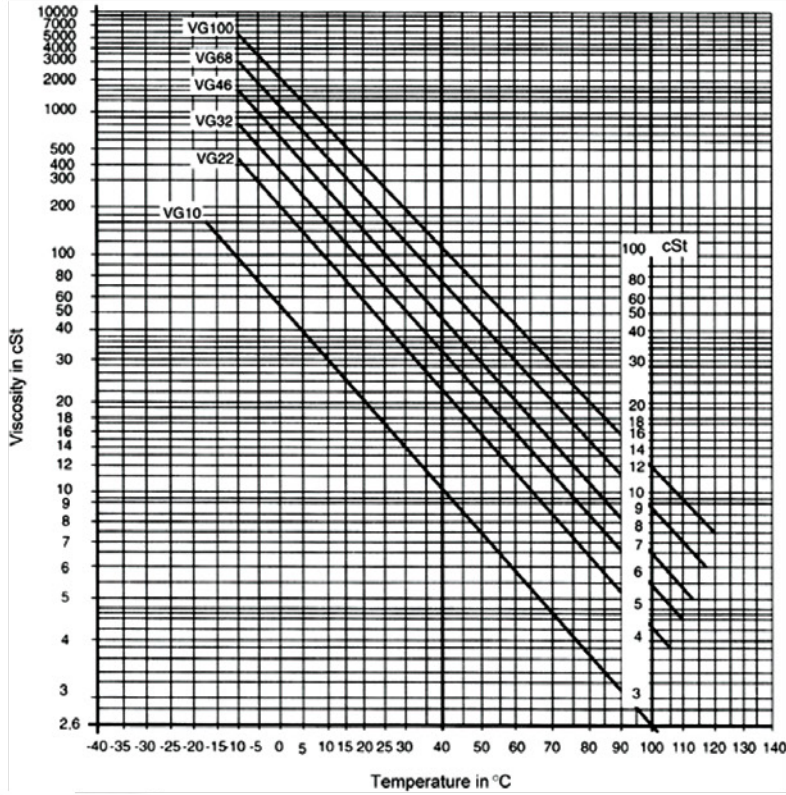
**SPECIAL FLUIDS**

The flame-resistant fluids (HF category) or ecological fluids (HE category) may have compatibility problems with materials or may have characteristics that limit the admitted maximum pressure or speed in the axial piston units. Therefore, in case it is necessary to use these fluids, we recommend contacting our Technical Dept; moreover, since all the elements are tested with mineral oil, it is necessary to remove completely the residual oil from them before assembling the system to make this you have to take into consideration the optimal service viscosity according to the system and the working temperature. If mineral oils are used, the viscosity at starting should be;

- For gear pumps  $\leq 1300$  cSt

- For piston units  $\leq 1000$  cSt

During operation a minimal viscosity of cSt is required. The optimal operation range is obtained with a viscosity between 40 and 15 cSt.



$$d = \sqrt{\frac{21 \times Q}{V}}$$

d=Boru iç çapı (mm)

Q=Pompa debisi (lt/dk)

V=Akış hızı (m/s)

V=11.5 m/s emme      V=46 m/s basma

Örnek: Pompa debisi 80 lt/dk olan bir sistemde emme ve basma hatlarında kullanılacak boru çaplarını bulunuz.

For example: Find the pipe diameters which will be used on the suction and force lines at a system whose flow of the pump is 80 lt /min.

$$d_{emme(intake)} = \sqrt{\frac{21 \times Q}{V_{emme}}}$$

$$d_{emme(intake)} = \sqrt{\frac{21 \times 80}{1}} \Rightarrow$$

$$d_{emme(intake)} = 40 \text{ mm}$$

$$d_{basma(press)} = \sqrt{\frac{21 \times Q}{V_{basma}}}$$

$$d_{basma(press)} = \sqrt{\frac{21 \times 80}{5}} \Rightarrow$$

$$d_{basma(press)} = 18 \text{ mm}$$

## Hidrolik pompaların çalıştırılması, kullanılması ve bakımı için tavsiyeler

### 1. Genel:

Bir hidrolik pompadan düzgün ve verimli çalışma alabilmek için üretici firmanın öğüt ve tavsiyelerini tümüyle yerine getirmek gerekir. Pompanın temizliği için gerekli önlemler alınmalı, özellikle iç parçalar hem montaj hem de çalışma anında temiz olmalıdır. Kullanılan yağın gerek özellik gerekse temizlik bakımından üretici firmanın koşullarına uygun olması gerekir. Aşağıdaki tavsiyeler hemen tüm pompalar için geçerlidir. Bazı özel pompalarda özel durumlar çıkabilse de üretici firma bu konuda gerekli açıklamayı yapacaktır.

### 2. Montaj:

**2.1. Yıkama:** Pompanın kullanılmadan önce, kullanılacak yağ ile iyice yıkanması gerekir. Bol yağ ile yapılacak yıkamada koruyucu özel maddeler atılmış olacaktır.

**2.2. Donanım:** Üreticinin tavsiyeleri doğrultusunda monte edilmelidir. Bağlantı için gerekli boru ve hortumlar özenle seçilmelidir.

**2.3. Yağın depoya dönüşü:** Tüm dönüş boruları depodaki yağ düzeyinin içine girecek şekilde olmalı, üstten akmamalıdır. Ayrıca boru çapları kayıp yaratmayacak büyüklükte olmalıdır. Sızıntıların depoya dönüş borusu pompa merkezinden yüksekçe olmalı ki sifon olayı yapıp pompanın içini yağsız bırakmasın.

**2.4. Besleme boruları:** Pompa cinsine göre seçilmelidir. Deponun çok yüksekte bulunması bakımından fazla basınç veya emiş hattındaki filtre, valf, ekleme parçası v.s. gibi daraltıcı öğeler nedeniyle fazla basınç kaybı olamamalıdır. Bu değerlerin pompanın çalışabileceği en az ve en çok değerleri aşmamasına dikkat edilmelidir. Tüm bağlantı ve sızdırmazlık öğeleri hava girişini kesinlikle önlemelidir.

### 3. İşletmeye geçiş:

**3.1. Bağlantı:** Pompa, üreticisinin tavsiyelerine uygun takılmış olmalıdır. Hatasız bağlantı, tam merkezleme, dönüş yönünün uygunluğu gerçekleştirilmelidir.

## Suggestions for operation, usage and maintenance of hydraulic pumps

### 1- General

It is necessary to apply all the advises of manufacturer company completely to be able to get regular and productive working from the hydraulic pump. Necessary precautions must be taken for cleanliness of the pump, especially the inner parts must be clean both during montage and during working. Used oil has to be convenient to the conditions of the manufacturer company from the point of view, both cleanliness and its features. Below advises are valid about every type of pump. If some special situations appears on some special pumps, the producing company explains the necessary things on this subject.

### 2- Assembly

**2.1- Washing;** Before using the pump, it must be washed with the suitable oil. Completely by the plenty of oil washing, special materials which are the protective of pump will be excited.

**2.2- Equipment;** It must be assembled in the direction of the manufacturer advises. The pipe and hoses which are necessary for the bracket must be chosen carefully.

**2.3-Return of the oil to the tank;** All the return pipes must be in the form of penetration to the level of the oil which is in the tank and it musn't flow from above. Besides, diameters of them must be in the convenient size not to create any missing. The leakages 'turning pipe to the tank must be higher than the pump center that it can't leave oil-free inner of the pump by making siphon event.

**2.4- Feed pipes;** It must be chosen according to the type of the pump. Due to the tank which is on very high, there musn't be much pressure missing because of the reducer items such as too much pressure or the filter on the suction line, valve, extension piece etc.. Pay attention to these values not to exceed the least and most values of pump running. All bracket and leaking items must avoid the air inlet certainly.

### 3. Transition to operation;

**3.1-Bracket;** It must be put on properly according to the manufacturer suggestions. Faultless bracket, exact centering, convenience of the direction of rotation must be carried out.

**3.2. Elektrik bağlantılar:** Elektrikle çalışan donanım, motor ve valflerin besleme gerilim ve akımına uygunluğu denetlenmelidir.

**3.3. Pompanın dönüş yönü:** Dönüş yönünün uygunluğu üzerindeki oktan anlaşılır. Ok yoksa emme ve basma deliklerine göre yağın nasıl bir hareket yapması gerektiği bilindiğinden kolayca bulunur. Pompa ters yönde çalıştırılmamalıdır.

**3.4. Dolum:** İlk hareketten önce emiş hattı ve pompanın içi yağla doldurulmalıdır. Böylece ilk dönmeye yağsız çalışma önlenmelidir.

**3.5. Pompalar çok değişik yapı ve özelliklerde üretilirler.** Bu nedenle ilk hareket işlemi için öncelikle üreticinin tavsiyelerine uyulmalıdır. Çoğunluğu hareketi boşta alırlar fakat bazıları ise aşamalı bir ilk hareket gerektirirler. İlk hareketten önce emiş hattındaki tüm yolların açık olması denetlenmelidir. Pompa doğru ve kesintisiz basana dek motor çalıştırılıp devrini almadan durdurulur, bu işlem birkaç defa yinelenir.

**3.6. Çalışmaya başlangıç:** İlk harekette basınç hattındaki boruların havasının alınması gerekir. Bu işlem basınç bölümündeki bir rakorun gevşetilerek hava karışimsız (köpüksüz) yağ gelene dek beklenmesi ile yapılır. Değişken oranlı pompa konusunda üretici firmanın önerileri yoksa yarısında ayarlama yaparak pompayı çalıştırmaya başlamak en uygun olanıdır. İlk harekette devre dolmaya başlarken depodaki yağ düzeyinin normalin altına düşmemesi gereklidir. Eğer depoda önemli bir alçalma görülüyorsa yağ eklenerek normal düzeye getirilmelidir.

**3.7. Basınç Sınırlaması:** Basınç ayarları pompa normal devrinde çalışırken yapılır. Basınç yavaş yükseltilmelidir. Ayar yapıldıktan sonra, ayarın başkası tarafından değiştirilmemesi için gerekli önlemler alınmalıdır. Pompanın içindeki sızıntı yağı basıncının normalin üzerine çıkmamasına dikkat edilmelidir.

**3.8.Sıcaklık:** Üreticinin verdiği basınç ve hız değerleriyle kısa bir çalışma devrinden sonra pompa yataklarının, sızdırmazlık öğelerinin ve yağın Sıcaklığı denetlenmelidir.

4. çalışma anındaki denetimler:

**4.1.Sürekli (periyodik) bakım:** Üreticinin uyarıları ve deneyimler ışığında düzgün aralıklarla uygulanmalıdır.

**3.2- Electricity Brackets;** Equipment which is working by electricity,motor and valves must be checked for the convenience of feed voltage and current.

**3.3-Direction of rotation of the pumps;** The convenience of the direction of the rotation can be understood by the help of the arrow on it.If there isn't any arrow, it can be found easily according to the suction and force holes as it is known how the oil will move .The pump musn't be run at reverse direction.

**3.4-Filling;** Before the first action , suction line and inner of the pump must be fill ed with the oil. So that to run without oil in the first turning must be avoided.

**3.5- The pumps are manufactured in very different features and structure.** For this reason,for the first action operation,firstly you must obey the suggestions of manufacturer but for some few, the greater part moves in out of gear but require some a first movement stage. Before the first movement, it must be controlled that being open of all the ways on the suction line.Untill the pump depress accurate and continually, motor must be run and stop without revolve,this operation can be repeated a few times.

**3.6- Starting of Running;** At the first movement, it requires to be deflated of the pipes on the pressure line.This operation is done untill the unmixed air (sudless)oil come by unscrew the nipple which is in the pressure part .If there aren't any suggestions of the producing company on the variable rate pump, it is the most convenient to start to run the pump by adjusting in half. At the first action while the cycle is starting to fill,it shouldn't be less than the normal level of the oil in the tank. If there is an important decrease at the fluid level of the tank, the oil must be added and it must be brought into the normal level.

**3.7- Restriction of Pressure;** Pressure adjustings is done while the pump is running on the normal revolution.The pressure must be increased by slowly.After the adjustings are done, the necessary precautions must be taken not to be changed the adjustings by others. Pay attention not to raise above the normal the pressure of the leaking oil in the pump above the normal.

**3.8-Temperature;** After the short revolution working with, the pressure and speed values are given by the manufacturer, pump bearing, leaking items and temperature of oil must be controlled, temperature of leaking items, pump bearing and oil must be controlled.

4. Controls during the running;

**4.1- Constant ( periodic ) treatment;** It must be applied by regular intervals through the manufacturer's warnings and experiences.

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**4.2.Bağlantılar:** Pompa motor bağlantısı normal işletme Sıcaklığı ve basıncı altında denetlenmelidir. Aynı zamanda devre öğelerinin de sıklığı ve bağlantıları denetlenmelidir.

**4.3.Çalışma:** Pompanın çalışırken beşinci bölümde belirtilen anormalliklerden hiç birini göstermediği denetlenmelidir.

**4.4.Filtreler:** emiş ve dönüş hattındaki filtreler denetlenmeli, temizlenmeli veya yenilenmelidir.

**4.5.Aralı bakım:** Pompalar belirli bir çalışma devresinden sonra bakıma alınmalıdır. Bu süre çalışma koşullarına, üreticinin tavsiyelerine ve kullanıcının deneyimine bağlıdır.

**4.6.Üretici firmanın tavsiyeleri:** Üreticinin bakımla ilgili öğütlerine tam olarak uyulmalıdır. Bir bakım kartı tutulması, malzemeyi koruyucu ve bozulmayı önleyici bakım tavsiye edilir. Sızdırmazlık öğeleri bozulmuş parçalar veya aşınan bölümler gerektiğinde yenilenmelidir. Toplama sırasında pompa içinde yabancı maddelerin kalmamasına özen gösterilmelidir.

**4.7.Yedek pompa:** İşletmeye ara vermemek için bir yedek pompa veya kovan (kanatların veya pistonların bulunduğu bölüm) bulundurulması tavsiye edilir. Böylece pompanın biri bozulduğunda veya bakıma alındığında diğeri çalışır ve işletme durmaz.

## 5. Arızaların giderilmesi:

**5.1.Genel:** Doğru olarak seçilen ve takılan hidrolik pompalar birkaç yıl sağlıklı çalışırlar. Bununla birlikte bazı nedenlerle arızalar ortaya çıkar. Bu durumda en kısa sürede arıza yapan noktanın saptanması ve giderilmesi gerekir. Bundan sonraki bölümler hataların bulunması için genel bir yol gösterici niteliğindedir. Arızaların giderilmesini kolaylaştırmak bakımından devre şemasının bulunması çok yararlıdır.

**5.2.Arıza no 1:Pompanın çok ses yapması**

**5.2.1.Kavitasyon olayı**

### NEDENİ

**5.2.1.1.Emiş filtresinin kirden tıkalı olması.**

Temizleyin veya değiştirin.

**5.2.1.2.Emiş borusunun dar olması.**

Daha geniş çapta boru kullanın

**5.2.1.3.Emiş hattında fazla dirsek ve dönemeçler bulunması.**

Ya şekil değiştirin veya daha geniş boru kullanın.

**5.2.1.4.Emiş çapının daralması (tam açık olmayan bir vana, tek yön valfinin yayının çok sert olması, ezik boru veya yassılaştıran hortum).**

Vanayı tam açın, tek yön valf yayının sertliğini değiştirin.

**4.2- Brackets;** Pump motor fitting must be controlled under the normal operation temperature and pressure.At the same time,the compactness of the cycle items and its fittings must be controlled.

**4.3- Working;** When the pump is working,it must be controlled not to be seen any anomalies which is stated in the fifth part.

**4.4- Filters;** The filters on the suction and rotational line must be controlled ,cleaned or renovated.

**4.5- Interval treatment;** The pump must be taken to maintenance after the definite working process.This process is based on the working condition, the manufacturer advises and the experience of the user.

**4.6- Advises of the manufacturer company;** You must obey the manufacturer advises which is related with the maintenance exactly .It is advised to keep a maintenance card, and a maintenance which is productive of the materials and preventive of deformation.When needed, leaking items,deformed parts or ablative parts must be renovated.While assemblind, you must make a point of not keeping any foreign materials in thi pump.

**4.7-Alternative Pump;** Not to interrupt of the operation ,it is advised to keep a spare pump or sleeve ( the part which has pistons and wings ).So that,when one of the pump breaks or is taken to maintenance ,the other one runs and the operation doesn't stop.

## 5. Troubleshoot;

**5.1- General;** The pumps ,which are chosen and montaged correctly ,run buxomly for a few years. However, troubles appear because of the some reasons. In that case, the trouble point should be determined and troubleshooed soonest. Next parts are general guide way to be able to find the faults.It is very useful to being cycle diagram for simplifying the troubleshooting.

**5.2- Trouble no 1: Making noisy of the pump ;**

**5.2.1: Cavitation Event**

### Reason

**5.2.1.1 Clean and replace rt.**

It should clean or change .

**5.2.1.2 To be tight of suction pipe.**

Use the pipe with more wide diameter .

**5.2.1.3 There have been most curves and elbow on the suction line.**

Change the shape or use more wide pipe.

**5.2.1.4 Constriction of the suction diameter ( not to exact be on a vane,to be very rough of the one way valve's spring, smashed pipe and flakied hose)**

Open the vane exactly,change the roughness of the one way valve's spring.

**5.2.1.5.Yağın çok soğuk olması**

Yağı ısıtın

**5.2.1.6.Yağın yapışkanlığının çok yüksek olması (yağın kalın olması).**

Uygun yapışkanlıktaki yağla değiştirin

**5.2.1.7.Buhar oluşması.**

İşletme Sıcaklığını azaltın, yağ düzeyini tamamlayın, depoyu büyütün veya buharlaşma yapmayacak kalitede yağ kullanın.

**5.2.1.8.Basınç valflerin de arıza.**

Onarın veya değiştirin

**5.2.1.9.Pompanın dönüş hızının fazla olması.**

Dönme sayısını düşürün

**5.2.1.10.Deponun hava almayacak şekilde tam kapalı olması.**

Depoya hava emiş filtresi veya borusu takın

**5.2.2.Yağda hava bulunması:****5.2.2.1.Pompa milindeki keçeden hava girmesi.**

Keçeyi veya mili değiştirin

**5.2.2.2.Emiş borusundan hava girmesi.**

Bağlantı ve sızdırmazlık öğelerini denetleyin, boruyu değiştirin

**5.2.2.3.Emiş borusunun içinin pürüzlü olması.**

Hortumu değiştirin.

**5.2.2.4.Devrenin havasının içine alınmamış olması.**

Devrenin havasını alın

**5.2.3.Mekanik titreşimler:****5.2.3.1.Hatalı hizalama veya kötü kavrama bağlantısı.**

Yeniden hizalayın veya esnek kavrama kullanın.

**5.2.3.2.Boruların titreşim yapması.**

Bağlantıları destekleyin.

**5.2.4.Pompanın mekanik titreşimleri.****5.2.4.1.Aşınmış, bozulmuş veya kötü takılmış pompa.**

Onarın veya değiştirin.

**5.2.4.2.Pompanın istenen özelliklere uygun olmaması.**

Pompayı üreticisinin tavsiyesine göre değiştirin.

**5.3. Arıza No 2:Kifayetsiz basınç veya hiç basınç olmaması****5.3.1.Emiş hattından hava girmesi.**

Onarın veya değiştirin.

**5.3.2.Pompanın olağanüstü ısınması.****5.3.2.1.Pompanın aşınması veya bozulması.**

Onarın veya değiştirin.

**5.3.2.2.Yağın yapışkanlığının çok düşük olması veya kötü ayarlanması.**

Uygun yağ ile değiştirin.

**5.2.1.5 To be very cold oil.**

Heat the oil.

**5.2.1.6 To be very high viscosity of the oil (to be thick of the oil )**

Replace with the convenient viscosity oil.

**5.2.1.7 To be vapour .**

Reduce the operation temperature, complete the oil level,extend the tank or use the quality oil which is not to be vapour.

**5.2.1.8 Trouble in pressure valve.**

Repair or replace it.

**5.2.1.9 To be very fast of the rotation speed of the pump.**

Reduce the rotation number.

**5.2.1.10 To exact be up the tank in the form of not receiving any air.**

Put the suction filter or pipe on to the tank.

**5.2.2 To be air in the oil.****5.2.2.1 Entrance of air from the seal of the pump shaft.**

Replace the seal or pump shaft.

**5.2.2.2Entrance of air from the suction pipe**

Control the fittings and leaking items, replace the pipe.

**5.2.2.3 To be rugged of the inner of the suction hose.**

Replace the hose.

**5.2.2.4 Not to be deflated of the cycle perfectly.**

Deflate the cycle.

**5.2.3 Mechanical vibrations.****5.2.3.1 Faulty alignment or bad coupling fitting.**

Realign or use the flexible coupling.

**5.2.3.2 To make vibration of the pipes.**

Bracket the fittings.

**5.2.4 Mechanical vibrations of the pump.****5.2.4.1 Worn,corrupt or bad montaged pump**

Repair or replace it.

**5.2.4.2 Not to be convenient for requested**

features of the pump.

Replace the pump according to its manufacturer advises.

**5.3.Trouble no 2 : Scant pressure or not to be any pressure.****5.3.1 To be air blowing from the suction line.**

Repair or replace it.

**5.3.2 To heat of the pump very extraordinarily.****5.3.2.1 To be worn or corrupt of the pump.**

Repair or replace it.

**5.3.2.2 To be very low viscosity of the oil or its bad adjusting.**

Replace with the convenient oil.

## TEKNİK VERİLER | TECHNICAL DATA

5.3.2.3. Soğutma donanımının yetersiz olması veya kötü ayarlanması.

Soğutucu büyüklüğünü arttırın veya ayarlayın. Besleme suyunun yeterli olup olmadığına bakın.

5.3.2.4. Yön valflerinin yanlış seçilmiş olması.

Devreyi tasarlayana danışın gerekirse yeni devre kurun.

5.3.2.5. Yağın devre içinde herhangi bir yerde ısınması.

Yerini bulun ve gidirin.

5.3.3. Pompanın devrinin çok düşük olması veya motor gücünün yeterli olmaması

Bağlantıları sıkın veya değiştirin.

5.3.3.1. Basınç valflerinde aşınma veya bozulma.

Onarın veya değiştirin.

5.3.3.2. Basınç sınırlama valfinin düşük basınca ayarlanmış olması.

Yeniden ayarlayın ve mühürleyin.

5.4. Arıza no. 3: Basınç ve debide değişiklikler ve kesiklikler:

5.4.4. Pompanın uygun seçilmemiş olması.

Üreticiye danışarak uygun olanı ile değiştirin.

5.4.5. Basınç valflerinin iyi çalışmaması.

Üreticiye danışarak uygun olanı ile değiştirin.

Söküp temizleyin, eğer varsa aşınmış ve bozulmuş parçaları yenileyin. Ayarlarını yapıp mühürleyin. Olumlu sonuç alınamıyorsa üreticisine danışın.

5.5. Arıza no 4: Anormal debi

5.5.1. Kavite olayı, yağda hava bulunması, pompayı tahrik eden motorun devir sayısının düşük olması veya momentinin yetersiz olması.

Onarın ve değiştirin.

5.5.2. Aşırı iç kaçaklar. Pompanın aşınma veya bozulması, devreye bağlı ayar elemanın bozuk veya aşınmış olması.

Onarın ve değiştirin.

5.5.3. Pompanın ters yönde dönmesi.

Kablo uçlarını değiştirin.

5.5.3.1. Elektrik motoru bağlantısında hata.

Pini değiştirin.

5.5.3.2. Donanımında, kasnak ve kavramada hata

Kavrama düzenini değiştirin.

5.6. Arıza no 5: Kaçaklar

Aşırı basınç nedeniyle bozulan sızdırmazlık öğeleri, çatlaklar.

Olayı yaratan noktayı bulun, bozuk malzemeleri değiştirin.

5.3.2.3 To be inadequate of the cooling equipment or its bad adjusting.

Raise the size of the cooler or adjust. Check the feed water whether it is enough or not.

5.3.2.4 To be wrong chosen of the directional valve.

Consult to the contemplating of cycle, if it requires, set up the new cycle.

5.3.2.5 To heat the oil at anywhere in the cycle.

Find its place and repair.

5.3.3 To be very low pump's speed or not to be enough power of the motor.

Tighten the fittings or replace.

5.3.3.1 Abrasion or deterioration at pressure valve.

Repair or replace it.

5.3.3.2 Tabe adjusted to the low pressure of pressure limiting valve.

Readjust or stamp.

5.4. Trouble no 3: Changings on pressure and flow rate and interruptions:

5.4.4 Not to be chosen the convenient pump.

Consult the manufacturer and replace it with the convenient one.

5.4.5 Not to work of the pressure valves perfectly.

Consult the manufacturer and replace it with the convenient one.

Disassemble and clean, if there are any worn and corrupt parts, replace them. make its adjusting and stamp. If the positive result is not received, consult the manufacturer .

5.5 Trouble no 4 : abnormal rate;

5.5.1 cavitation event ,to be air in the oil, to be low of the rotation number of the motor which drives the pump or to be inadequate of its momentum.

Repair and replace it.

5.5.2 Excessive interior leakage. To be worn or corrupt of the pump, to be worn or corrupt adjusting elements which are connected to the cycle.

Repair and replace it.

5.5.3 The rotation of the pump in the opposite direction.

Replace the edge of the cable.

5.5.3.1 Error in the fitting of the electromotor.

Replace the pins.

5.5.3.2 Error in equipment, pulley and coupling.

Replace the coupling sequence.

5.6 Trouble no 5 : Leakages,

Due to the overpressure, discarded leaking items, cracks.

Find the problem point, replace the discarded materials.



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