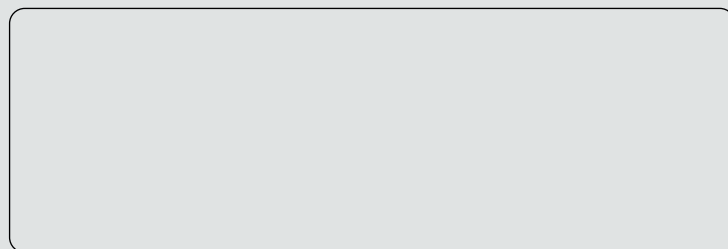




地址：浙江省杭州市萧山区义桥镇义桥村桥亭桥金线
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 邮箱：dfyy88@vip.163.com (公司办)
 dfyy_sales@163.com (销售)
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Add : Qiaojin Line , Yiqiao Town , Xiaoshan District , Hangzhou , Zhejiang
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 dfyy_sales@163.com (Sales Dept)
 Web : www.eyc.cn



Professional manufacturer of hydraulic components for
 ships/automobiles/engineering machinery



Hangzhou Xiaoshan East Hydraulic Parts Co., Ltd. was established in 1995 and is located in the beautiful city of Xiaoshan, Hangzhou. Covering an area of 13000 square meters, with a factory building of 25000 square meters. East Hydraulic has been committed to the research and manufacturing of hydraulic components (pumps, valves) since its establishment, and has a young and strong management team, as well as a group of high-quality and highly skilled technical talents. The company has a complete range of products, widely used in various hydraulic systems such as ships, automobiles, and engineering machinery, and maintains close cooperation with multiple domestic research institutes for a long time, Involving multiple fields of national defense and scientific engineering

East Hydraulic has advanced manufacturing technology and possesses various precision CNC lathes, machining centers, precision grinders, forming gear grinders and other manufacturing equipment. At the same time, the testing center has more than 20 hydraulic components testing equipment with comprehensive performance, which meet the performance and reliability testing of various hydraulic components. We have established a feasible and effective quality management system, which passed ISO9001 quality system certification in 2004, factory certification by BV classification society in 2008, ISO/TS16949 quality system certification and type approval by CCS China Classification Society in 2010, GJB9001C national military standard quality management system certification in 2019, and was rated as a national high-tech enterprise in 2015. We also have a provincial high-tech research and development center for pump and valve. There are physical and chemical laboratories of materials, non-destructive testing rooms, measuring rooms at constant temperature, etc., and dedicated performance testing equipment are provided for each product. We have perfect quality control ability for our products from feeding to output. At the same time, a wholly-owned subsidiary, Hangzhou Dongye Hydraulic Technology Co., Ltd., was established in 2019, focusing on intelligent manufacturing and digital empowerment of hydraulic components.

We will continue to uphold the principle of "dedication, integrity, and pursuit of excellence" in the future; Adhere to the quality policy of "satisfying customers and continuously improving"; To innovate and improve, to develop steadily. Adhering to the concept of creating value for customers and creating platforms for employees, we seize the opportunities of the times, build an internationally competitive east hydraulic brand, and contribute to China's intelligent manufacturing.

Qualification certificate





in 1995



in 2003

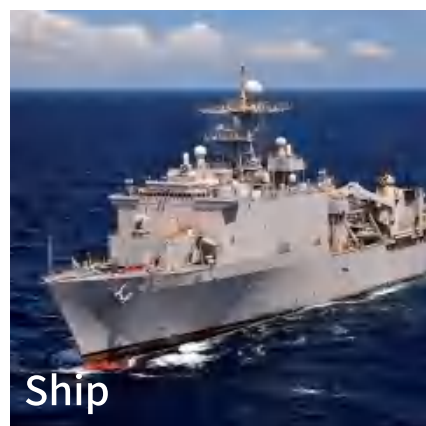


in 2019

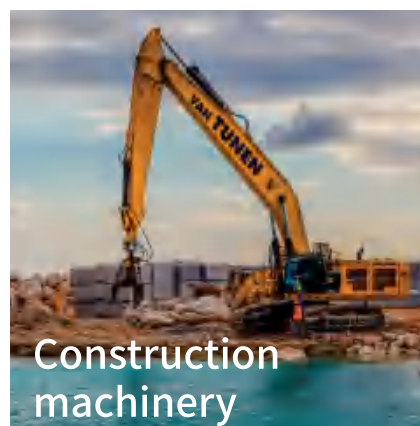
- Advanced Enterprise in Technological Innovation in 2006
- Green Technology Enterprise in Zhejiang Province in 2008
- Xiaoshan District level Enterprise Technology Center in 2009
- Famous Trademark of Xiaoshan District in 2013
- National High tech Enterprise in 2015
- High tech R&D Center of Hangzhou Enterprises in 2016
- Demonstration enterprise of integrity and law-abiding in 2017
- Research and Development Centers of Provincial High tech Enterprises in 2020

2022年

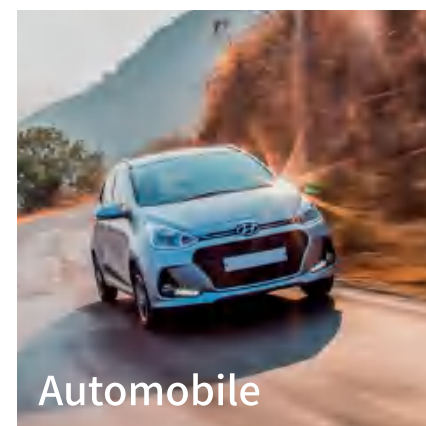




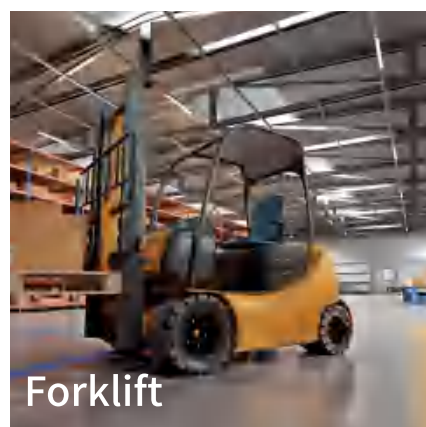
Ship



Construction
machinery



Automobile

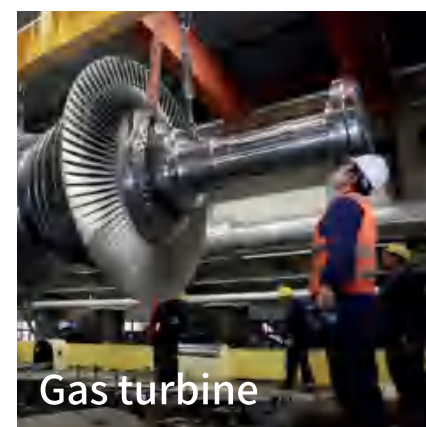


Forklift



行业应用
APPLICATION

More applications.....



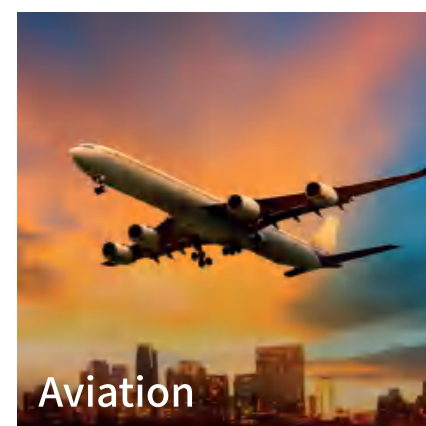
Gas turbine



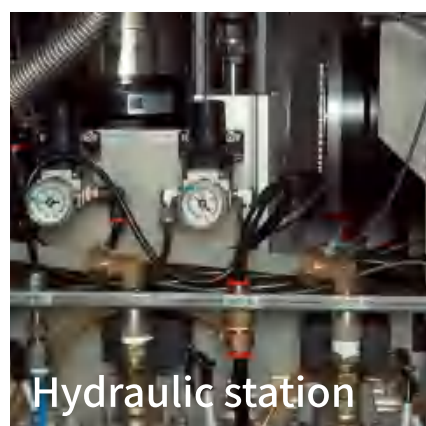
Wind power generation



High-speed rail



Aviation



Hydraulic station



Machine tool



Nuclear power

Cooperative customers



Walking at the forefront of technology

Provincial High tech R&D Center for Pump and Valve Technology of East Hydraulic.

Provincial R&D Center for Pump and Valve Technology of East Hydraulic takes the development of new technologies and processes as its core task, specializing in new product research and development, new material application, process improvement and other work. The center has perfect research and development capabilities, and has accumulated many technologies for many years in computer-aided design, strength analysis, transmission analysis, life analysis, fluid simulation and other aspects. Especially in the research and development of pump products, the center has a perfect development system, and has unique technical advantages in the development of various types of high and low pressure gear pumps, cycloidal rotor pumps, and plunger pumps. At present, the center has more than 20 national patents, and maintains long-term close cooperation with a number of domestic research institutions. The R & D Center actively carries out various scientific research work and participates in a number of national key projects. It has contributed its own strength in the fields of infrastructure construction, Marine economy, science and technology application, and national defense..

Standing at the starting line of global competition, the R&D center constantly pays attention to the latest developments of domestic and foreign market , faces new opportunities and challenges in the wave of technological innovation, highlights the concept of "innovation, service, value", and provides customers with quality products and satisfactory services.

Integrating five key technologies

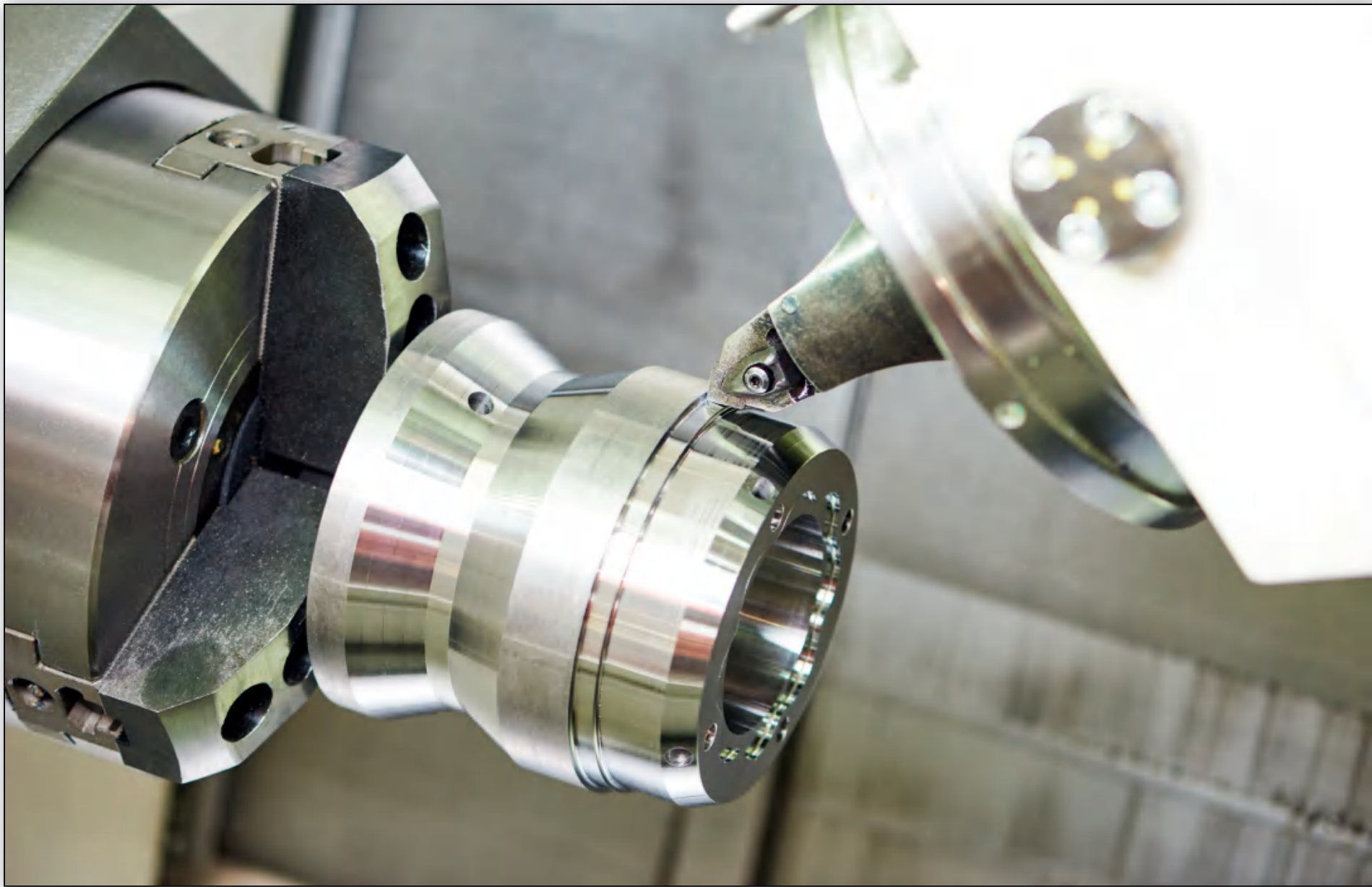
Mature technology



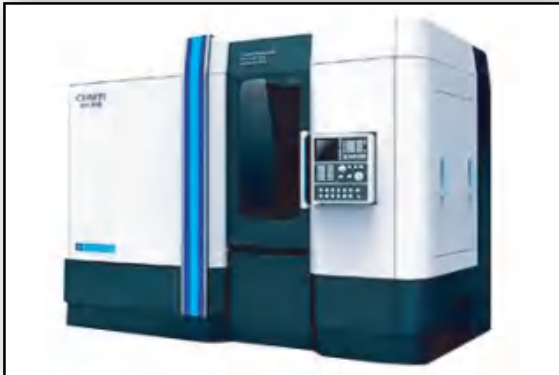
Core technology

.....A professional service provider for solving the technical problems of hydraulic components





A complete production line for hydraulic components to meet the production and testing of all types of parts. The testing scope of the measurement center covers the physical and chemical analysis of materials, geometric measurement, cleanliness and other full coverage



Production equipment

Housing processing equipment



Blasting

Rough machining



Precision machining
(machining center)

Precision machining
(precision turning)

Housing processing equipment



Sawing

Rough turning

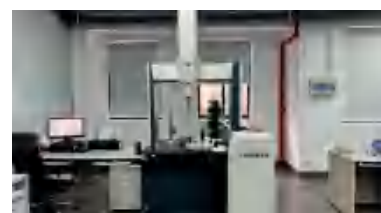
Hobbing



Heat treatment

Precision machining
(gear grinding, external grinding)

Production equipment



Parts testing equipment



Type test bench



Offline testing platform

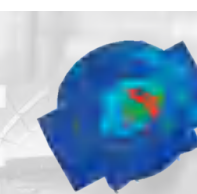
Our technical capabilities

3D structural technology



Fluid simulation

2D engineering drawing



FEA

Strength/fatigue
simulation

Transmission analysis



Bearing life
calculation

Our technical capabilities



Optimization of Airhole Noise



Fluid optimization

PUMP

Ultra high speed technology

Lightweight technology

Life extension

The company's environment



Display Product



1 Oil pump for construction machinery

- 13 ZCB45/50 Internal gear pump
- 14 ZNB45/50 Internal gear pump
- 15 ZL40/50 Gear pump
- 16 503601 Gear pump
- 16 ZL60 Gear pump
- 17 SLB-31-31 Dual gear pump

3 Wind Power category

- 24 BLP-B Series two-way pump
- 27 ZCB-C Series gear pump
- 31 FD-B45 Two-way cycloidal pump

2 Oil pump for construction machinery

- 19 NB Series Forklift Pump (1)
- 21 NB Series Forklift Pump (2)
- 22 YB82 201 004 Both sides work gear pump
- 23 JB16,JB32 Radial piston pump

4 Comprehensive category (special customization)

- 32 GYB-39-16 Dual high pressure pump
- 33 BB-B10S Two-way cycloidal pump
- 34 RSB/M15A Fuel pump
- 35 91023/92024 Gear pump
- 36 DT18-B20 Lubricating device
- 37 PU-C70

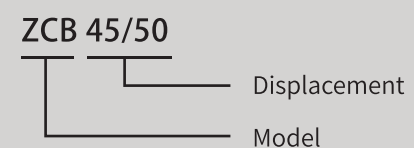


1 Oil pump for construction machinery

ZCB45/50 Internal gear pump

The pump is developed and produced with reference to foreign advanced technology, its performance indicators have reached the level of similar foreign products. Mainly used in engineering, mining machinery hydraulic system.

■ Model Description

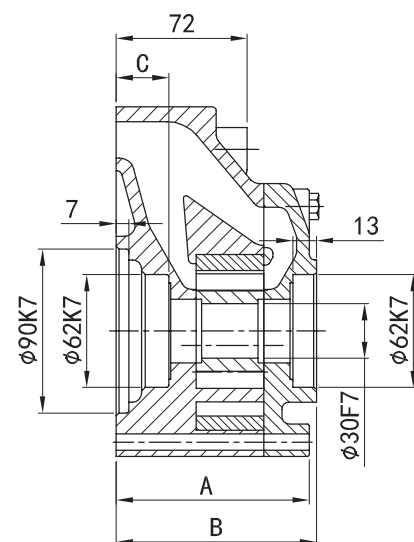
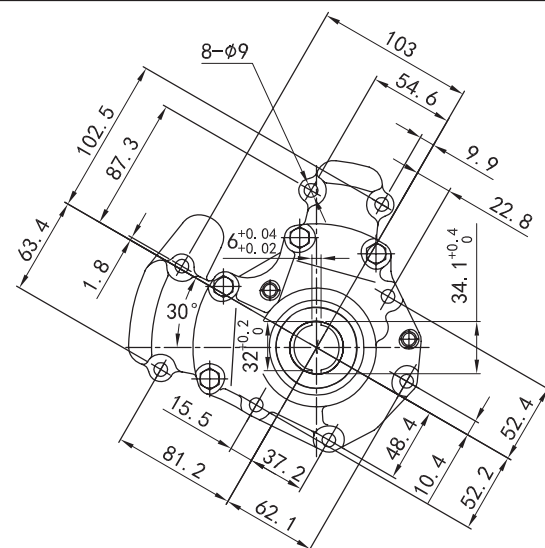


■ External connection dimensions

Model	A	B	C
ZCB45	97	106	32
ZCB50	106	110	29

- Performance parameter

Model	Displacement ml/r	Rated pressure MPa	Rated speed MPa	Maximum speed r/min	Net Weight kg	The model of transmission provided
ZCB45	45	1.9	2000	2800	8.5	WG180/181
ZCB50	50				9.0	WG200/201

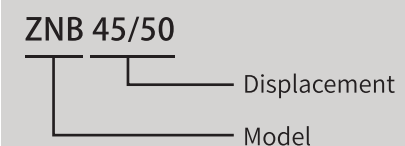


ZNB45/50 Internal gear pump

The pump is a matching model upgraded and developed on the basis of the original WG180 gear box, which can be widely used in the gear box platform of various construction machinery, such as loaders, excavators, road levelers, etc. The pump uses a new internal structure design, and has excellent performance in reliability, performance stability, noise and other aspects.



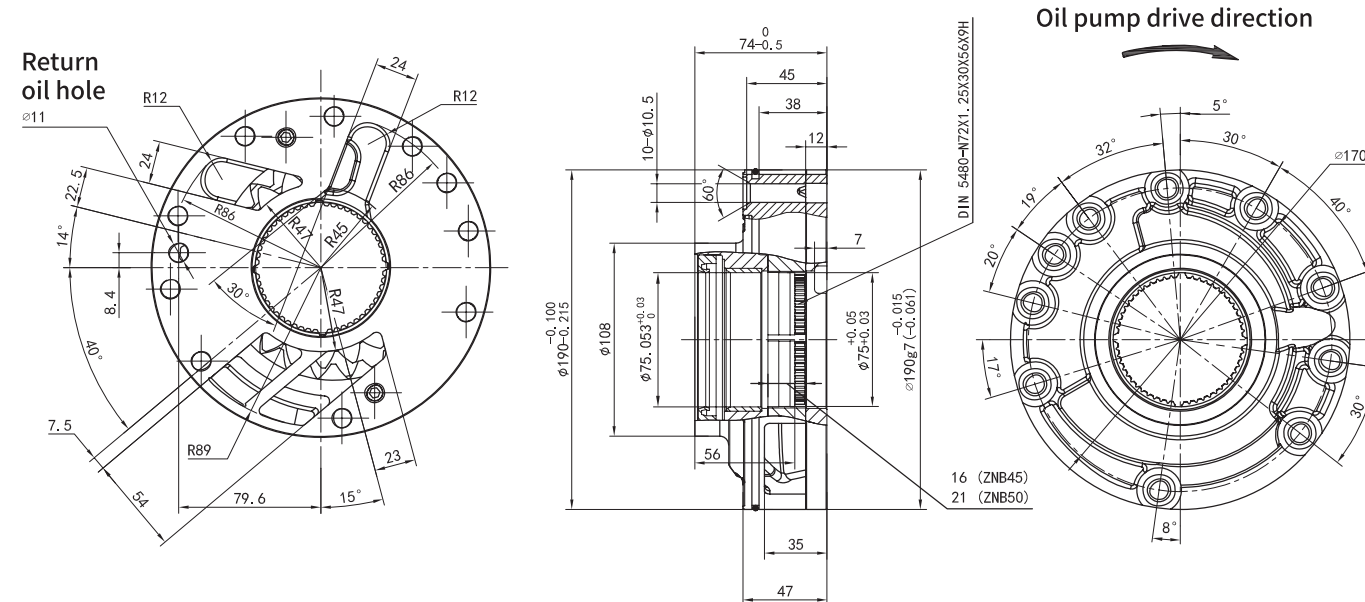
■ Model Description



■ Performance parameter

Model	Displacement	Rated pressure	Speed range	Net weight
	ml/r	MPa	r/min	kg
ZNB45	45.4	2	500~2200	—
ZNB50	54.5			—

- Shape and connection dimensions



ZL40/50 Gear pump

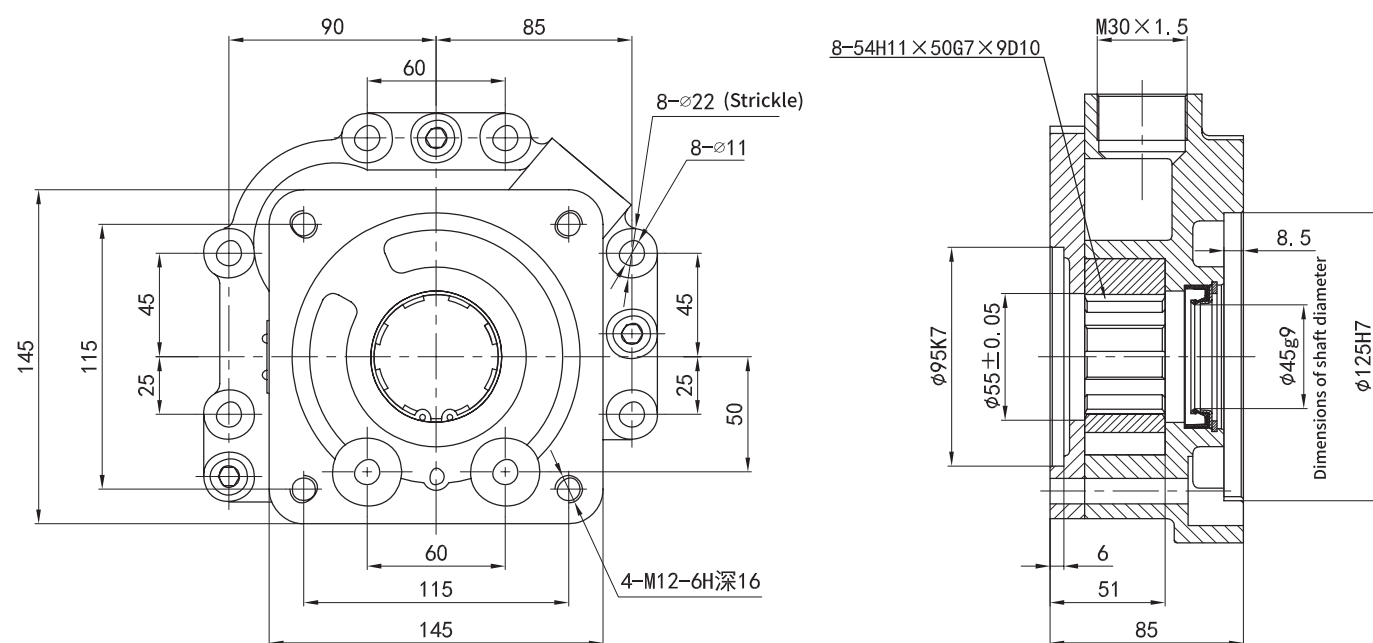
Used in ZL40/50 loader gearbox



- Performance parameter

Rated flow L/min	Rated pressure MPa	Maximum pressure MPa	Rated speed r/min	Maximum speed r/min	weight kg
≥120	1.5	2	2200	2500	10.4

■ Shape and connection dimensions



503601 Gear pump

Improved ZL40/50 pump

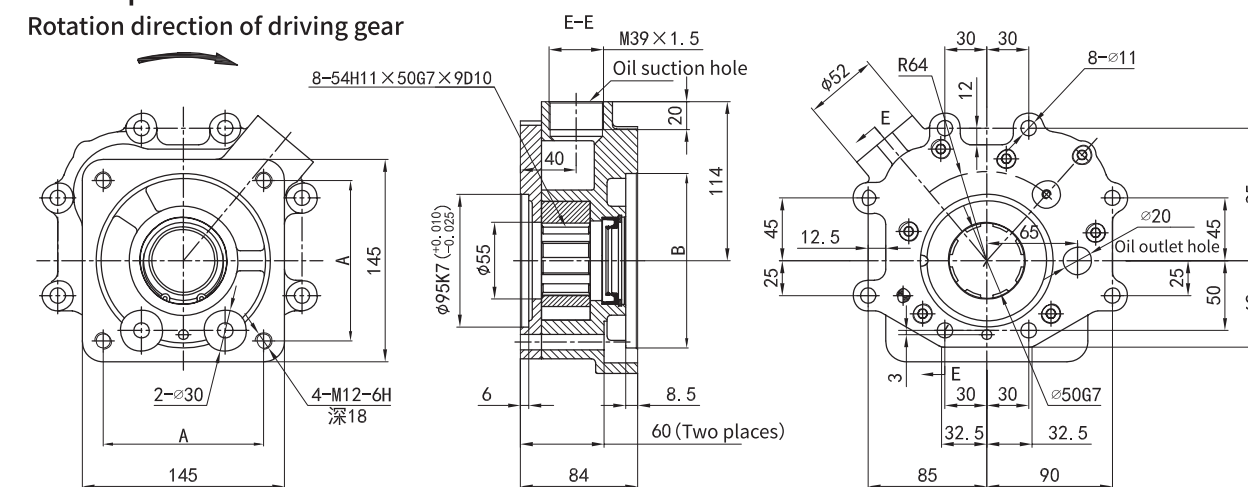
Model	A	B
503601-608A	115	Φ 125H8
503601-608B	114.5	Φ 127H8

- Performance parameter

Rated flow L/min	Rated pressure MPa	Maximum pressure MPa	Rated speed r/min	Maximum speed r/min	Net weight kg
≥120	1.5	2	2200	2500	8.8

■ Shape and connection dimensions

Rotation direction of driving gear



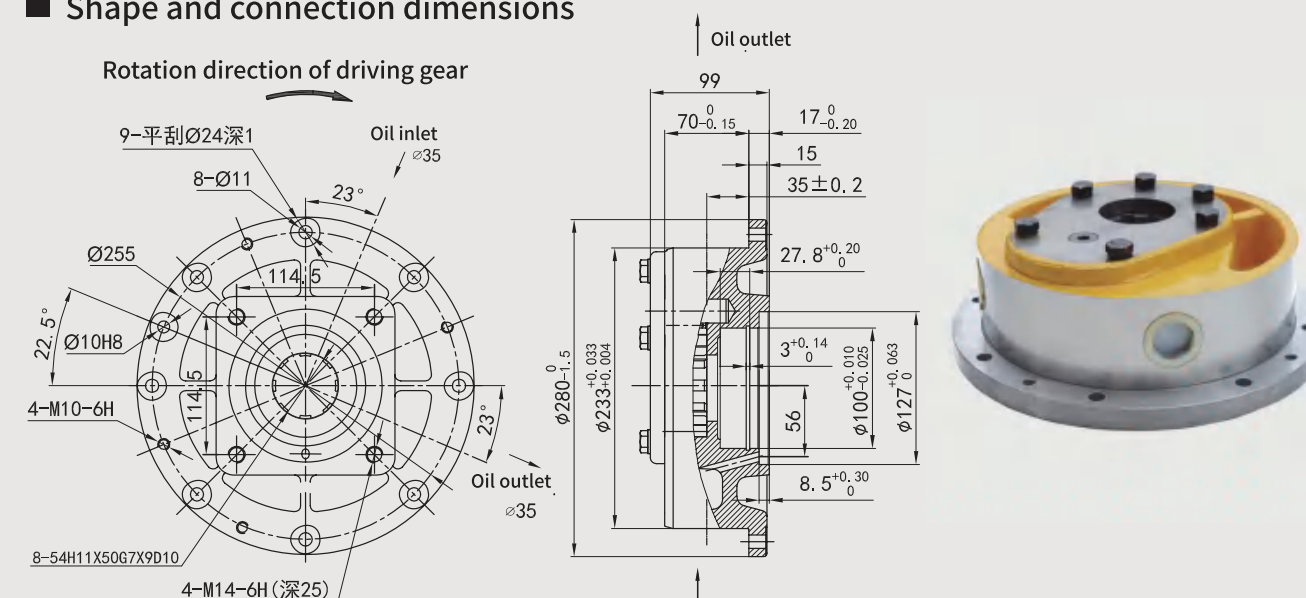
ZL60 Gear pump

Used in ZL60 loader gearbox

■ Performance parameter

Rated flow L/min	Rated pressure MPa	Maximum pressure MPa	Rated speed r/min	Maximum speed r/min	Net weight kg
≥120	1.5	2	2200	2400	19.7

- Shape and connection dimensions



SLB-31-31 Dual gear pump

This product is a custom-developed dual gear pump for Caterpillar 950GC loader. The oil circuit adopts the structure design of single entry and double exit. A pump control oil line, B pump lubricating oil line. The oil pressure of the two oil circuits is different to achieve the effect of high life, low noise and low energy consumption.

■ Model Description

SLB - 31 - 31

- B Pump displacement
- A Pump displacement
- Model

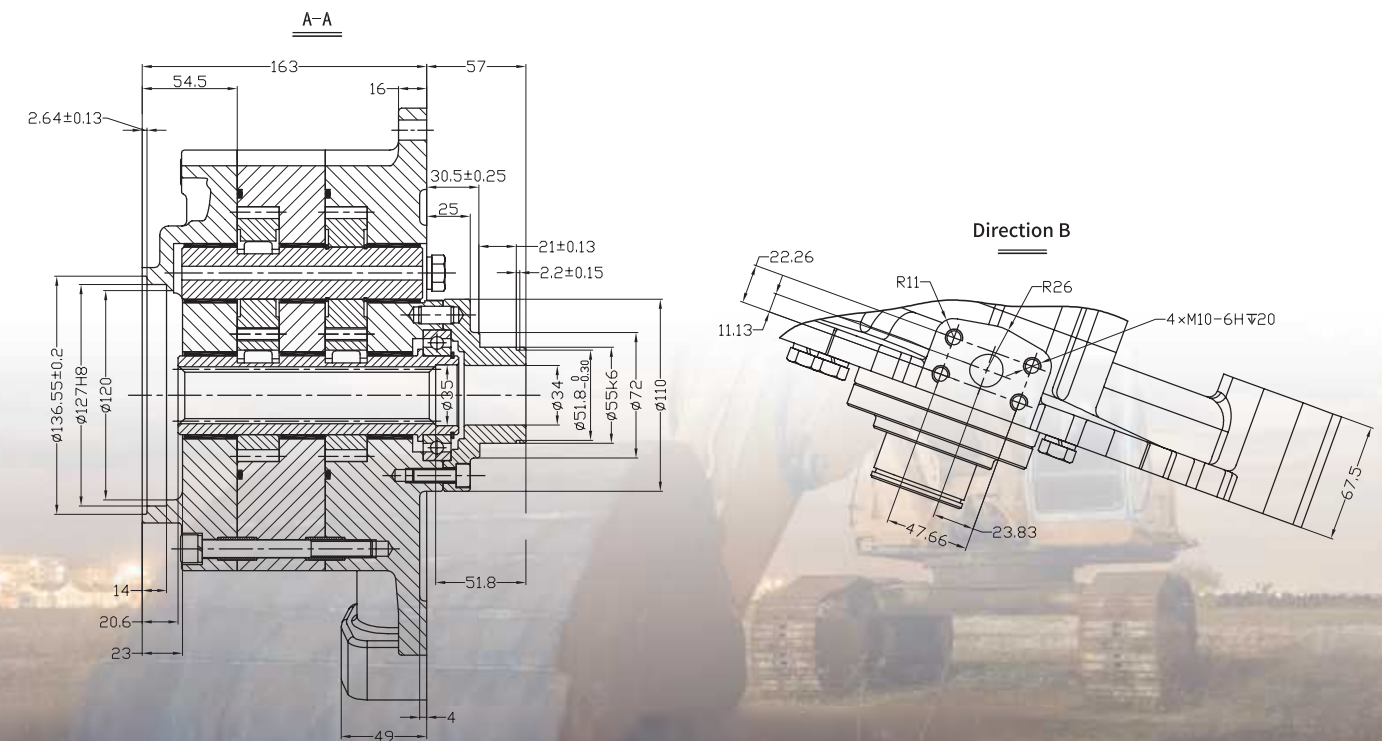
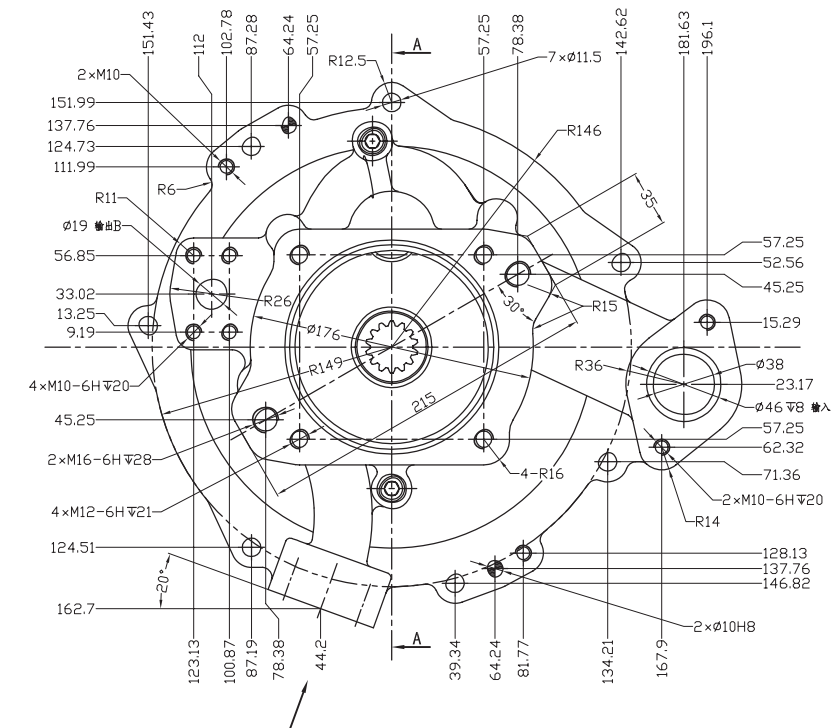


■ Performance parameter

Model	Displacement	Rated pressure	Speed range	Net weight
	ml/r	MPa	r/min	kg
SLB-31-31	31/31	3.5/1.2	850~2360	35.0



■ Shape and connection dimensions



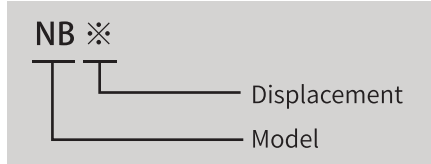
2

Oil pump for construction machinery

NB Series Forklift pump (1)

NB15, NB20, NB25 are mainly used in the gearboxes of forklifts.

Model Description



NB20

NB15

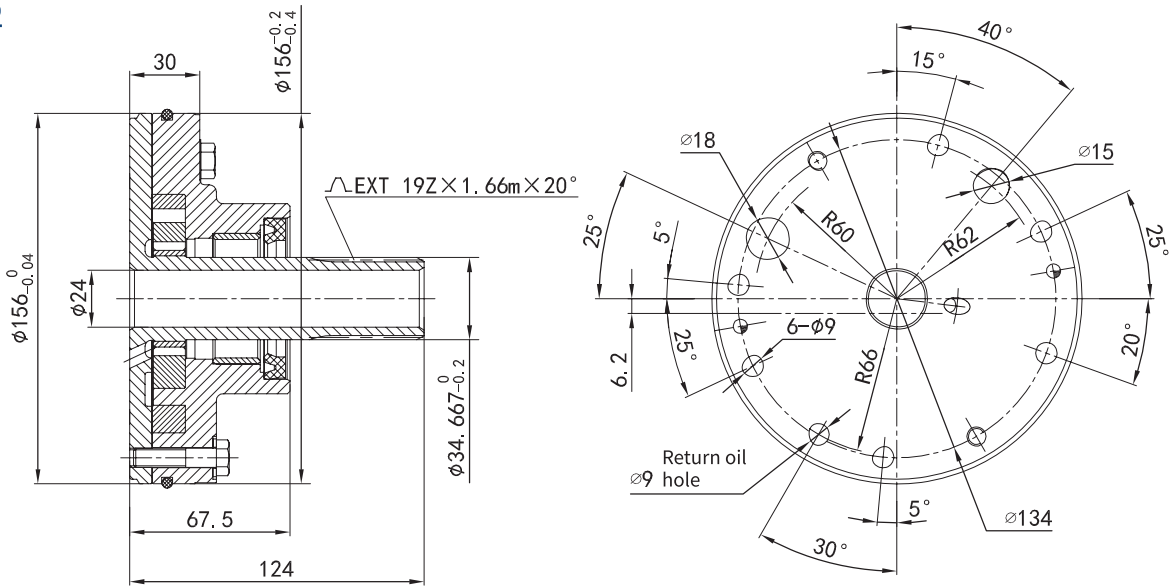
NB25

Performance parameter

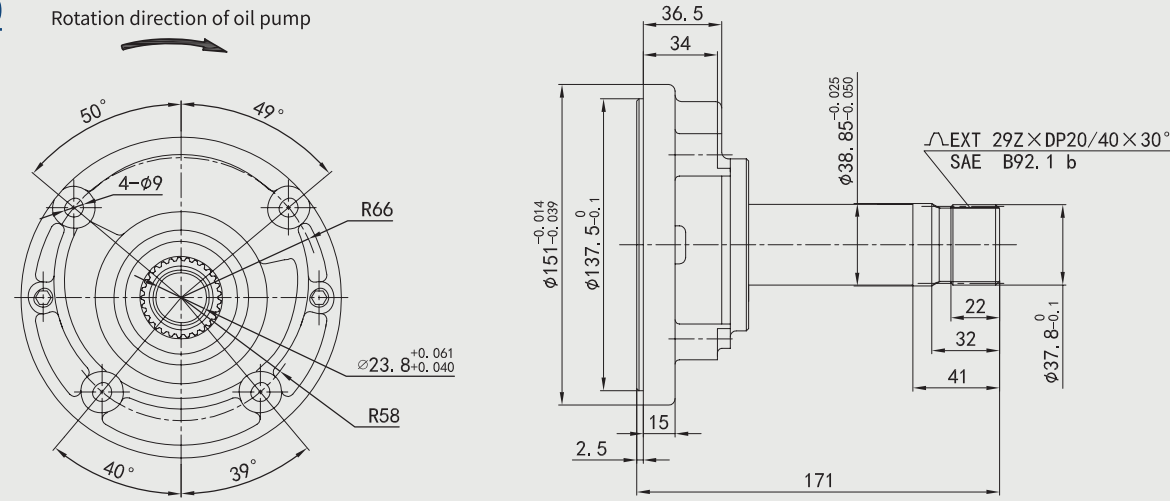
Model	Displacement ml/r	Rated pressure MPa	Maximum pressure MPa	Rated speed r/min	Maximum speed r/min	Net Weight kg
NB15	15	1.5	2.5	2600	3000	4.8
NB20	20	1	1.5	2000	2500	4.0
NB25	25	2.5	3	2950	3500	8.8

Shape and connection dimensions

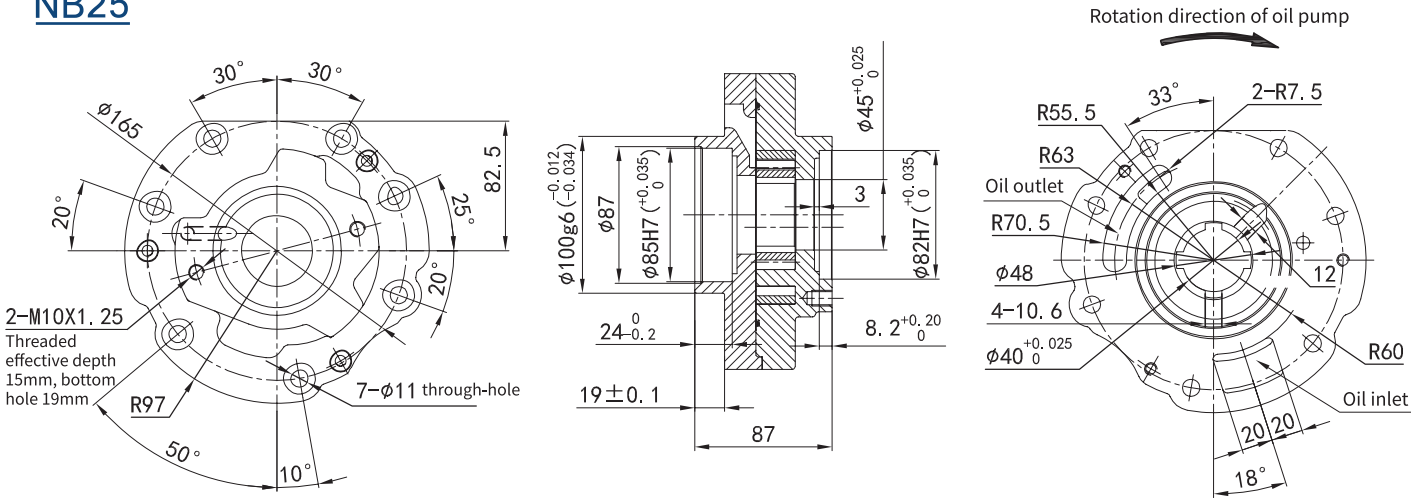
NB15



NB20



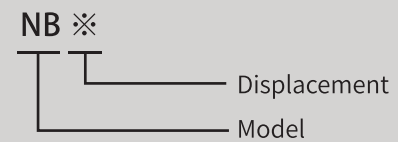
NB25



NB Series Forklift Pump (2)

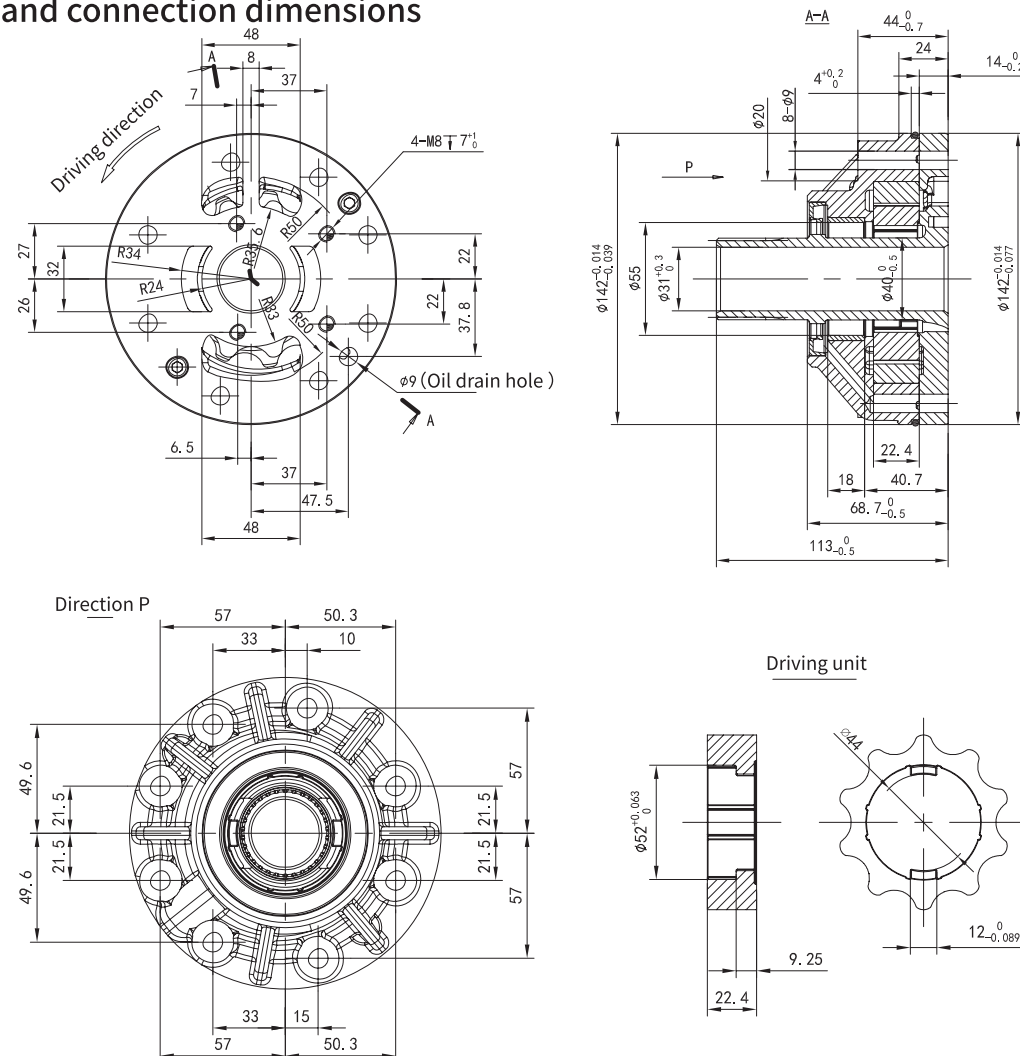
NB35 is mainly used in the gearboxes of forklifts

■ Model Description



Model	displacement ml/r	Pressure range bar	Common speed range r/min	Common oil temperature range °C	Net weight kg
NB35	34.5	17~26	800~2600	-20~110	4.2

■ Shape and connection dimensions



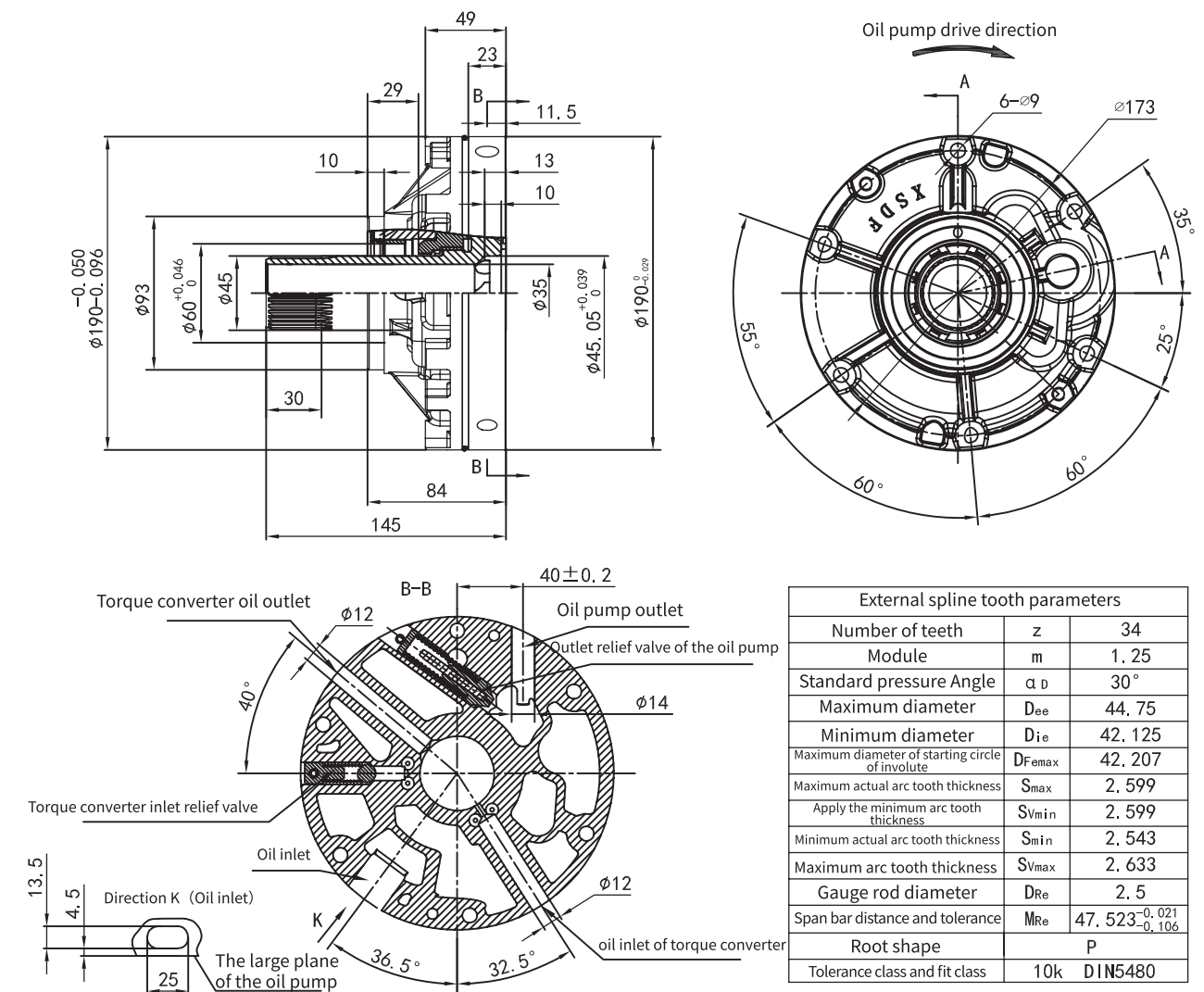
YB82 201 004 Both sides work gear pump

The product is used on both sides, for Hangzhou Advance gear box Group directional development, the pump belongs to the structure of involute gear with torque converter relief valve and outlet overload protection valve. The performance and quality are better than similar products in the market.

- Performance parameter

Model	Displacement ml/r	Rated pressure Mpa	Rated speed r/min	Net weight kg
YB82 201 004	37	2	2200	—

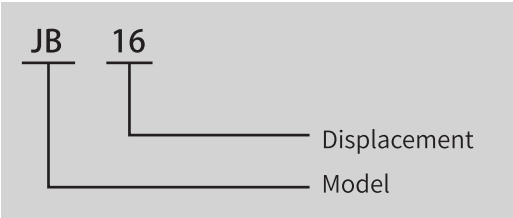
- Shape and connection dimensions



JB16,JB32 Radial Piston Pump

Hydraulic device for rail cars and car cranes

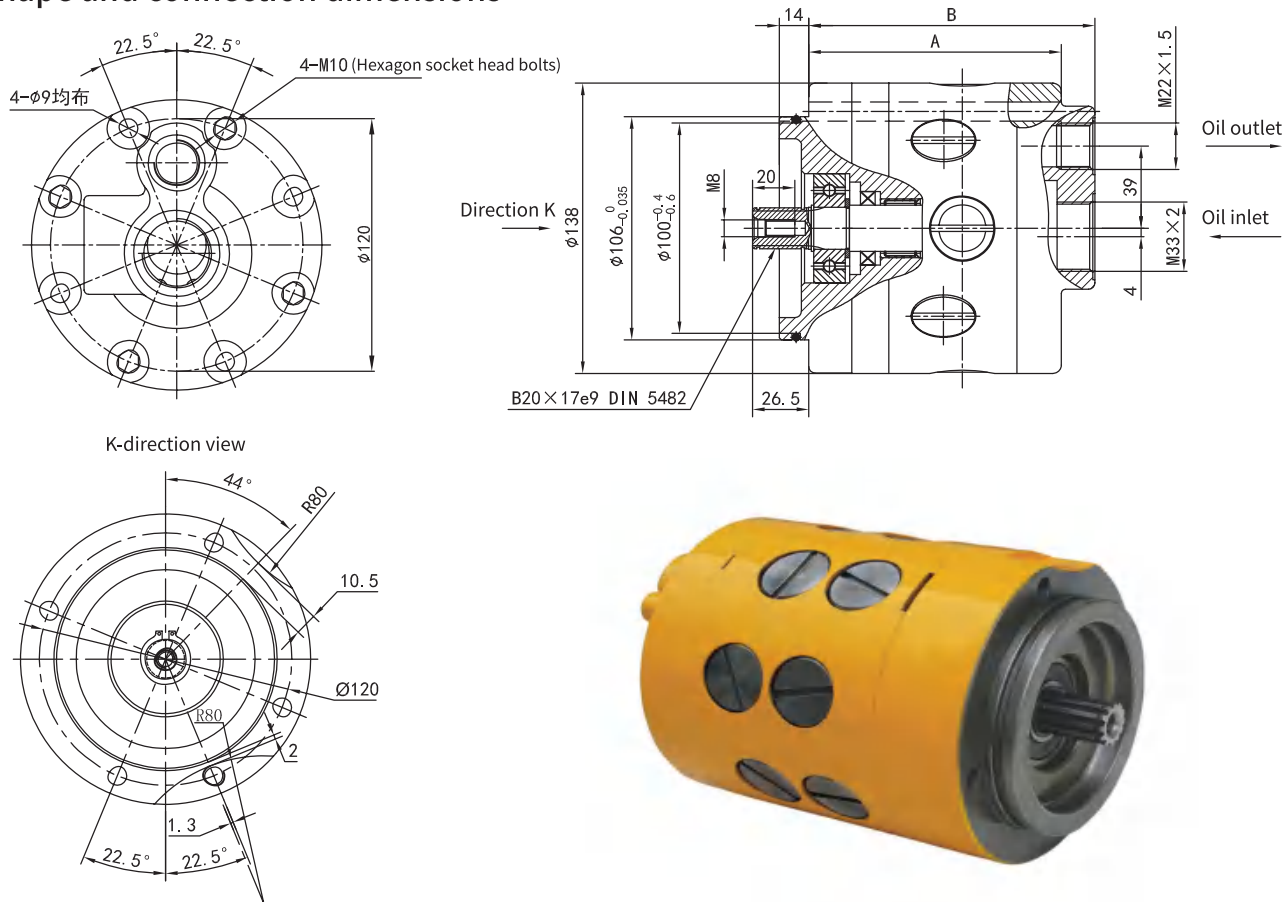
Model description



Performance parameter

Model	Displacement ml/r	Rated pressure MPa	Maximum pressure MPa	Rated speed r/min	Maximum speed r/min	Net Weight	A	B
JB16	14	13	16	1500	3000	11.8	136	120
JB32	28					14.7	170	154

Shape and connection dimensions





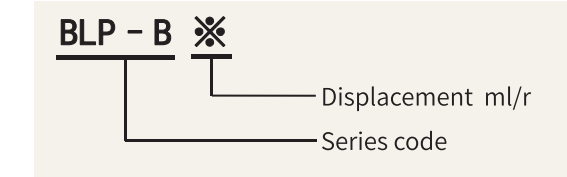
3

Wind power oil pump

BLP-B Series two-way pump

BLP-B series bidirectional pump lubrication pump is composed of pump shell, pump cover, rotating pump body, inner rotor, outer rotor, shaft, etc., because of its special internal structure, so that it has bidirectional characteristics, that is, when the rotation direction changes, the oil inlet and outlet position remains unchanged. It has the characteristics of long life, high reliability, can adapt to harsh environment, etc., mainly used in the lubrication system of wind power products.

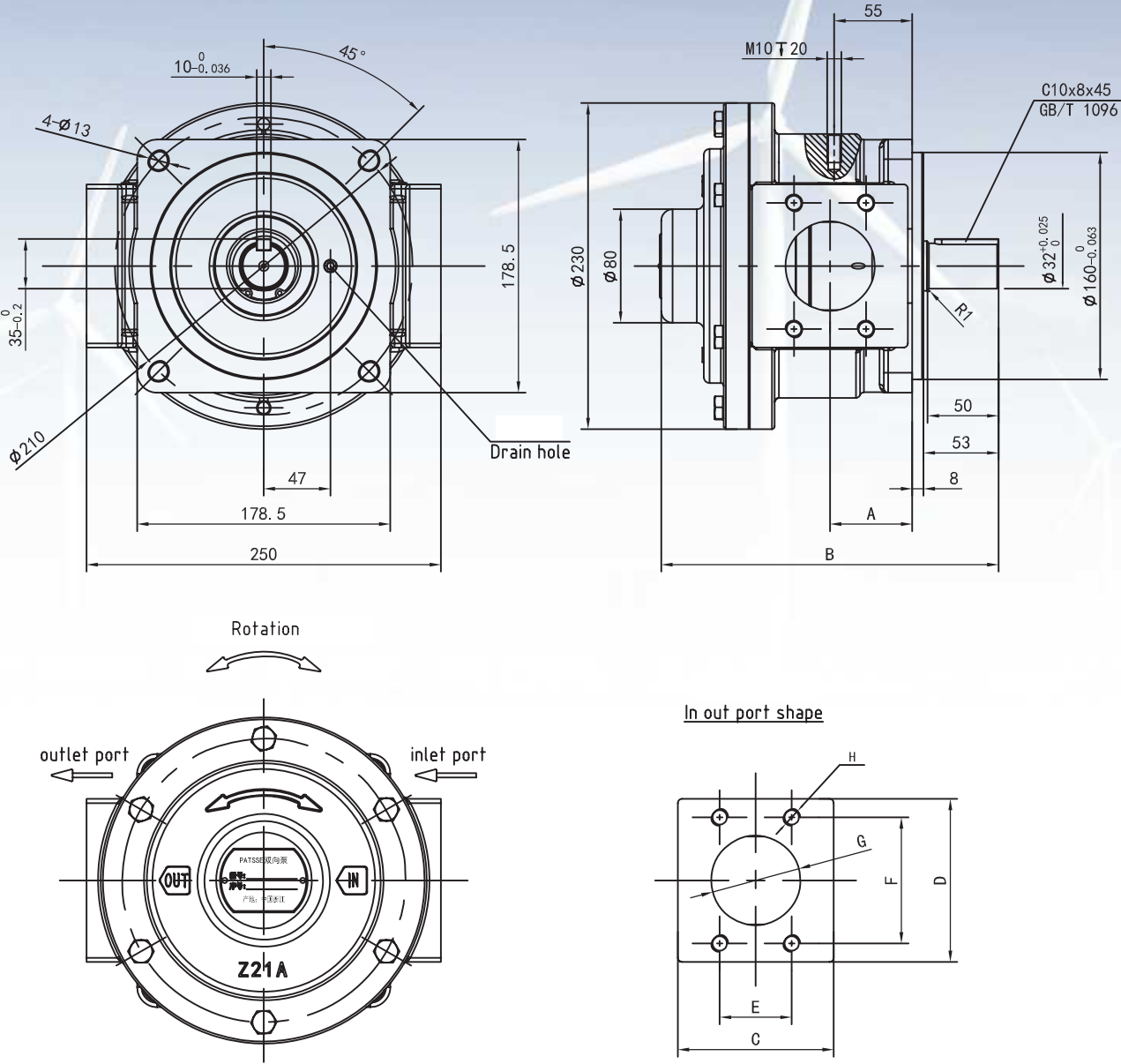
Model description



Performance parameter

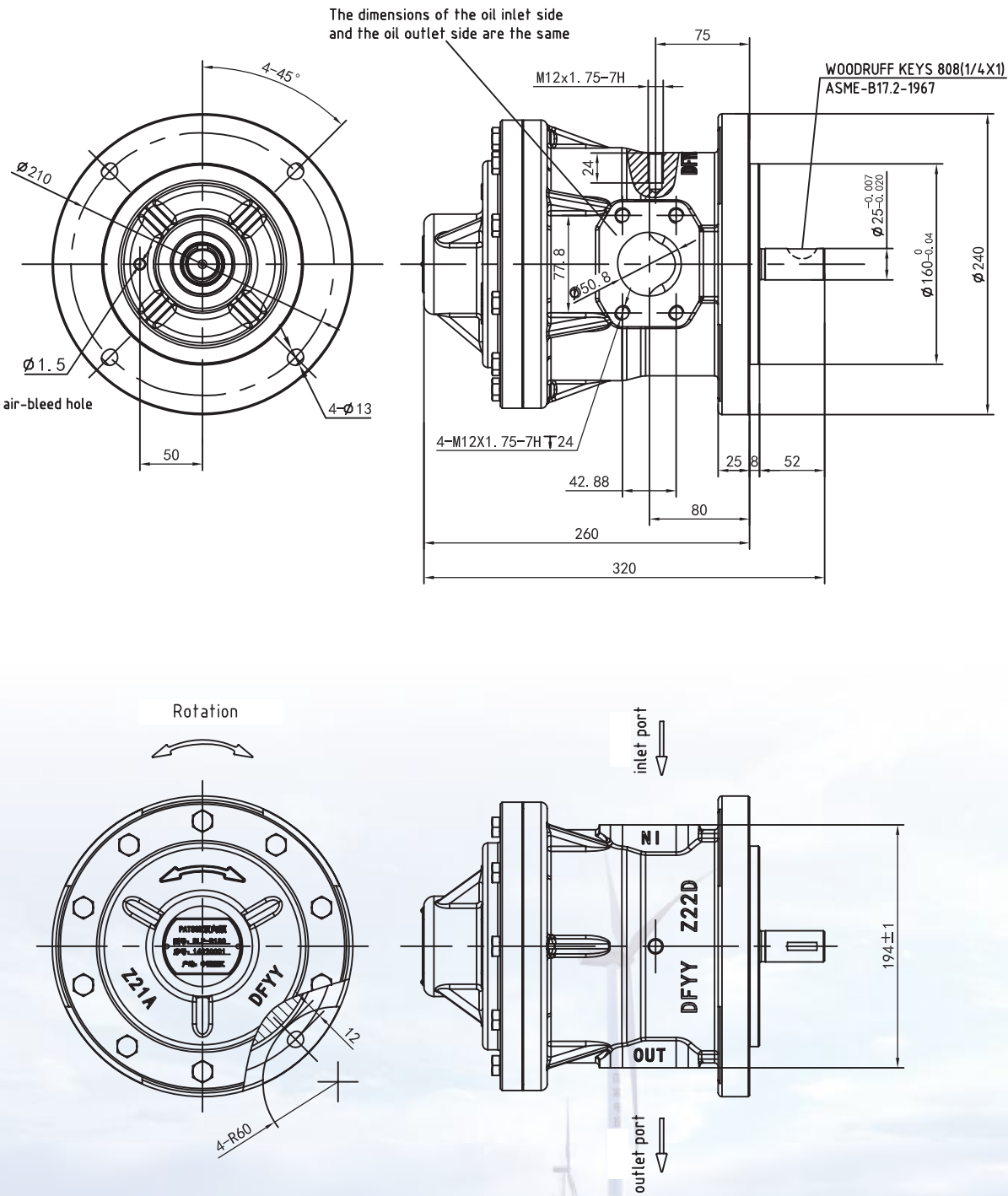
Serial number	Design parameters	Requirement					Unit
		BLP-B80	BLP-B100	BLP-B150	BLP-B180	BLP-B220	
1	Nominal displacement	80	100	150	180	220	ml/r
2	Rated speed	1500	1500	1500	1300	1500	Rpm
3	Allowable speed range	100-1800					Rpm
4	Rated pressure	15					Bar
5	Maximum pressure	16					Bar
6	Mode of engagement	The cycloid meshes inside					-
7	Working medium	ISO VG32 or other hydraulic fluids (without hard mixtures)					-
8	Service oil temperature	-30-80					°C
9	Allowable minimum oil temperature	-40 (Short time)					°C

■ Shape and connection dimensions (BLP-B80/100/150/220)



Size	A	B	C	D	E	F	G	H
Model								
BLP-B80/100	58	238	110	115	50.8	88.9	$\phi 63$	4-M12 Deep 20
BLP-B150		253						
BLP-B220	70	289	135	140	61.9	106.4	$\phi 76$	4-M16 $\times$ 2 Deep 30

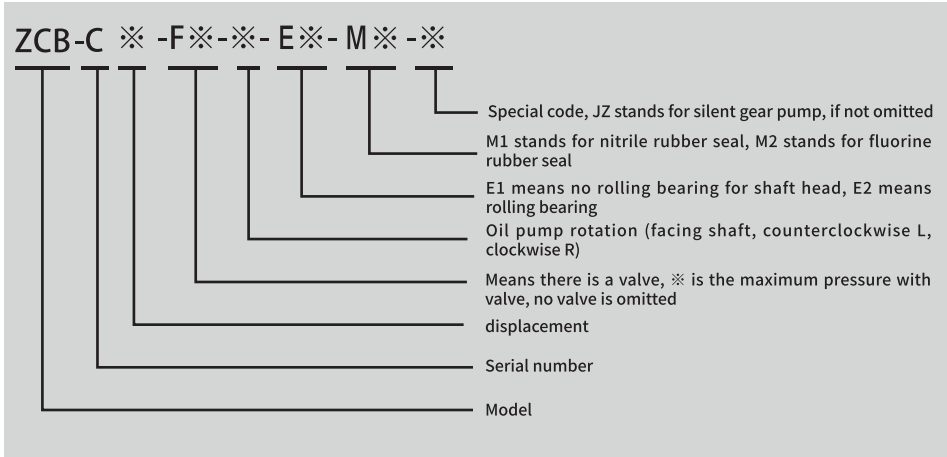
■ Shape and connection dimensions (BLP-B180)



ZCB-C Series gear pump

This series of gear pump adopts involute external meshing helical gear structure, which is an improved series. The new internal structure and parameters make this series of products have better performance, low noise and reliable life. This series covers a wide range and can also be customized to larger displacement specifications. Meet the needs of various industries. This series of products are widely used in Marine, wind power, engineering, hydraulic station and other hydraulic systems.

Model description



ZCB-C100-F2.5-L-E2-M1-JZ
(ZCB-C series, displacement 100ml/r, with safety valve, set pressure 2.5Mpa, counterclockwise facing shaft, shaft head with rolling bearing, nitrile rubber seal, noise reduction process)

Performance parameter

Model	Displacement ml/r	Pressure MPa	Max. Pressure MPa	speed		Volume efficiency (1500r/min, 2.5Mpa)	Weight Kg	
				Min.	Max.		No valve	With valve
ZCB-C2.5	2.5	2.5	3	400	3600	65%	3.3	4.3
ZCB-C4	4			400	3600	75%	3.3	4.3
ZCB-C5	5			400	3600		3.3	4.3
ZCB-C6	6			400	3600		3.3	4.3
ZCB-C8	8			400	3600	80%	3.3	4.3

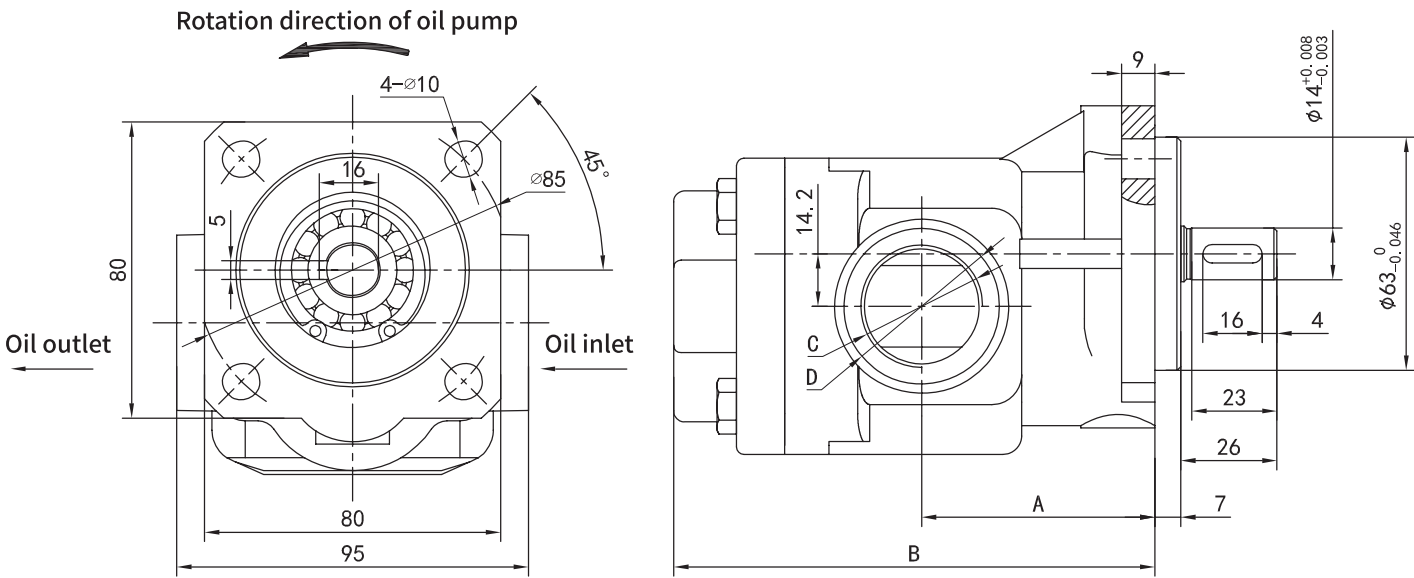
ZCB-C10	10	2.5	3	400	3600	80%	3.3	4.3
ZCB-C12	12			400	3600		3.3	4.3
ZCB-C16	16			400	3000	85%	3.7	4.7
ZCB-C20	20			400	3000		3.7	4.7
ZCB-C25	25			400	3000		3.7	4.7
ZCB-C32	32			400	3000	>90%	10.4	12.3
ZCB-C40	40			400	3000		10.4	12.3
ZCB-C50	50			400	3000		10.4	12.3
ZCB-C63	63			400	3000		11.6	13.5
ZCB-C80	80			400	3000		11.8	13.7
ZCB-C100	100			200	3000		16.6	18.6
ZCB-C112	112			200	3000		16.7	18.7
ZCB-C125	125			200	3000		24.0	27.0
ZCB-C150	150			200	3000		24.1	27.1
ZCB-C180	180			200	3000		25.0	28.0
ZCB-C200	200			200	2500		25.0	28.0

Note: Under certain operating conditions (such as low speed and low viscosity), maximum or minimum values should not be used.

Shape and connection dimensions

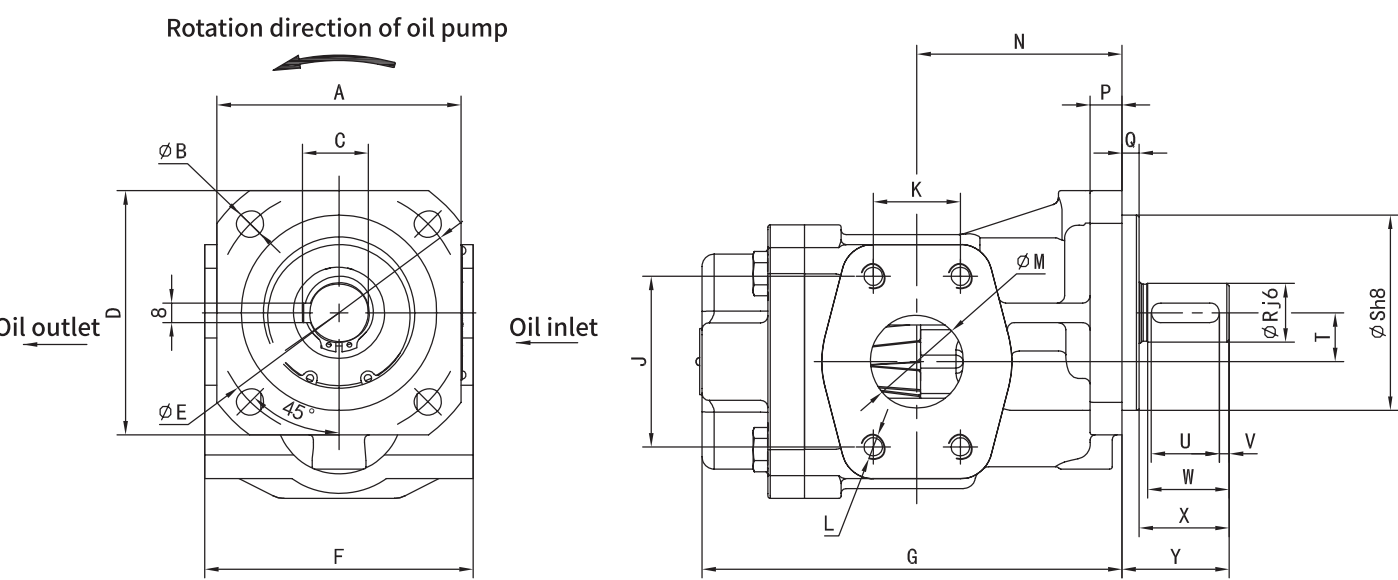
Note: Look from the direction of the shaft end of the oil pump, the counterclockwise model is marked L, and the clockwise is R. When the rotation is opposite, the position of the oil inlet and outlet is exchanged.

ZCB-C2.5/4/5/6/8/10/12/16/20/25 (No valve)



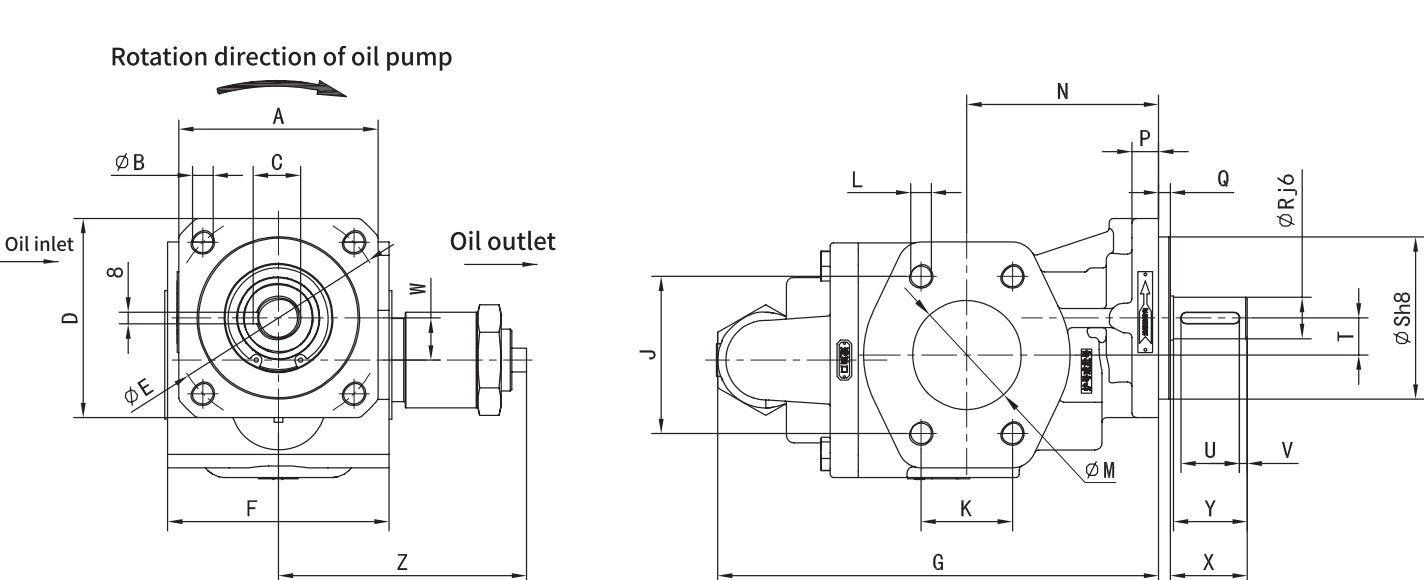
Model	A	B	C	D
ZCB-C2.5/4/5/6/8/10/12	54	108	2-G3/4 Depth 17	Φ36 Depth 0.3
ZCB-C16/20/25	63	130	2-M33X2	Φ42 Depth 0.3

ZCB-C32/40/50/63/80/100/112/125/150/180/200 (No valve)



Size	Model	ZCB-C32/40/50	ZCB-C63/80	ZCB-C100/112	ZCB-C125/150	ZCB-C180/200
A		100	100	135	135	135
B		11	11	14	14	14
C		27	27	31	31	31
D		100	100	135	135	135
E		103	103	145	145	145
F		110	110	130	150	150
G		172	203	220.5	245	261.5
J		69.9	69.9	77.8	88.9	106.4
K		35.7	35.7	42.9	50.8	61.9
L		4-M12 Depth 20	4-M12 Depth 20	4-M12 Depth 20	4-M12 Depth 24	4-M16 Depth 32
M		38	38	51	63.5	76.2
N		84	100	102	120	130
P		13	13	17	18	18
Q		7	7	8	8	8
R		24	24	28	28	28
S		80	80	110	110	110
T		20	20	23.7	25	25
U		28	28	40	40	40
V		4	4	5	5	5
W		33.8	33.8	47	47	47
X		36	36	50	52	52
Y		44	44	60	60	60

ZCB-C32/40/50/63/80/100/112/125/150/180/200 (With valve)

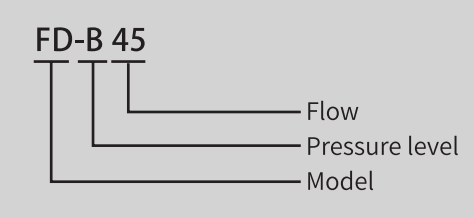


Size	Model	ZCB-C32/40/50	ZCB-C63/80	ZCB-C100/112	ZCB-C125/150	ZCB-C180/200
A		100	100	135	135	135
B		11	11	14	14	14
C		27	27	31	31	31
D		100	100	135	135	135
E		103	103	145	145	145
F		110	110	130	150	150
G		211.5	246.5	263	282	298.5
J		69.9	69.9	77.8	88.9	106.4
K		35.7	35.7	42.9	50.8	61.9
L		4-M12 Depth 20	4-M12 Depth 20	4-M12 Depth 20	4-M12 Depth 24	4-M16 Depth 32
M		38	38	51	63.5	76.2
N		84	100	102	120	130
P		13	13	17	18	18
Q		7	7	8	8	8
R		24	24	28	28	28
S		80	80	110	110	110
T		20	20	23.7	25	25
U		28	28	40	40	40
V		4	4	5	5	5
W		20	20	23.7	28.5	28.5
X		36	36	50	52	52
Y		33.8	33.8	47	47	47
Z		160.5	160.5	172	180.5	180.5

FD-B45 Bidirectional cycloidal pump

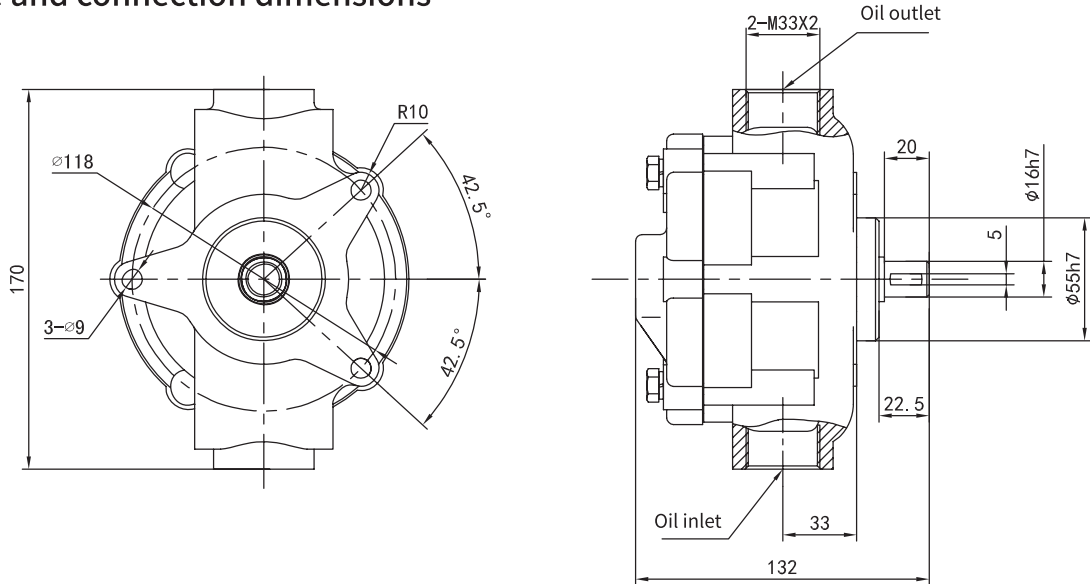
Used for wind power transmission and can also be used for other hydraulic machinery products.

Model Description



Model	displacement ml/r	Rated pressure MPa	Maximum pressure MPa	Rated speed r/min	Maximum speed r/min	Net weight kg
FD-B45	45	0.3	1.5	1400	1800	7.2

Shape and connection dimensions

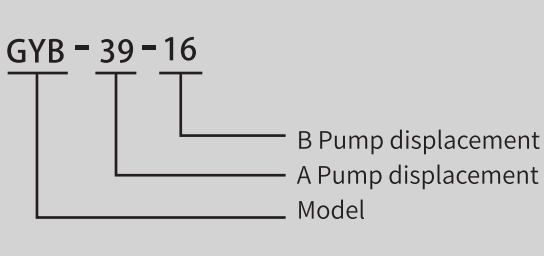


4 Comprehensive (Special customization)

GYB-39-16 Dual high pressure pump

The product is a double high pressure pump with involute gear structure and pressure compensated side plate bearings on both sides. The shell is made of special aluminum alloy material, which has compact structure, light weight and low noise. It can be used in pressurizing devices or lubricating devices of various hydraulic systems.

Model description



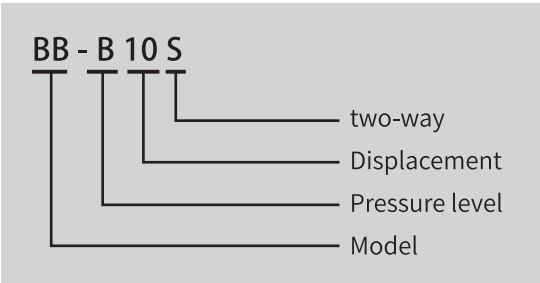
Performance parameter

Model	Displacement		Rated pressure		Speed range
	ml/r		Mpa		
GYB-39-16	A pump	B pump	A pump	B pump	r/min
	39	16	2.2	13	700~2800

BB-B10S Two-way cycloidal pump

When the power input direction is changed, the direction of the oil inlet and outlet of the pump is unchanged, which is used for the lubrication system of Marine propulsion equipment and other hydraulic mechanical products.

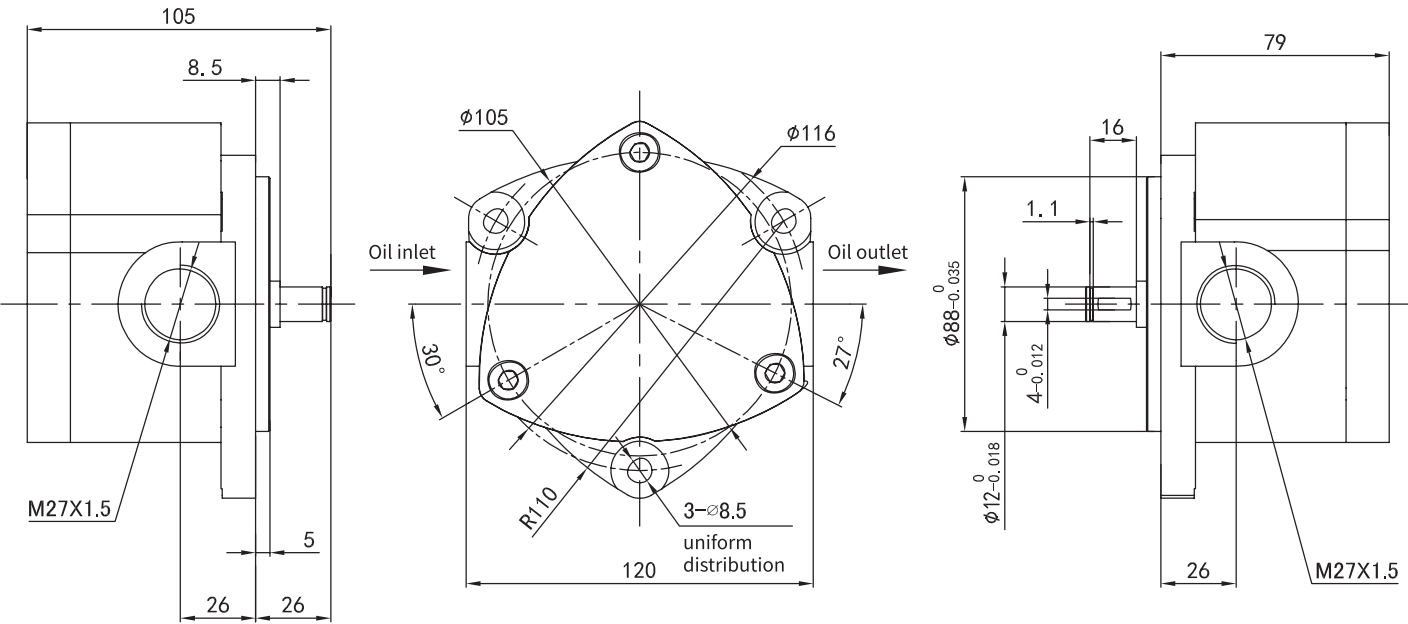
Model description



performance parameter

Model	displacement ml/r	Rated pressure MPa	Speed range r/min	Drive power Kw	connection	Net weight kg
BB-B10S	10	0.6	600~2500	0.51	Flat Key	3.5

Shape and connection dimensions



RSB/M15A Fuel pump

This product is a high pressure fuel pump produced by our company for a research institute of China Shipbuilding Industry Group. The fuel pump has large displacement, high pressure and wide speed range. The pump is integrated with a drain valve, limit pressure valve, differential pressure alarm, refining filter and other sets of components. The pump is mainly used in fuel system of gas turbine, and can be used in ship, generator set, booster set and other fields.

Model description

RSB
M15A



Performance parameter

Model	Displacement	Rated pressure	Speed range	Net weight
	ml/r	MPa	r/min	kg
RSB	55	8.7	600~4400	15.7
M15A	75	9.5	600~4200	22.7



91023 Two-way gear pump

This product is a bidirectional gear pump developed for CRRC Group, which is mainly used in the hydraulic system of high-speed rail vehicles or maintenance vehicles. The pump integrates the oil discharge check valve and the oil suction check valve, so that the direction of oil supply of the lubrication system remains unchanged when the input shaft changes positively and negatively.

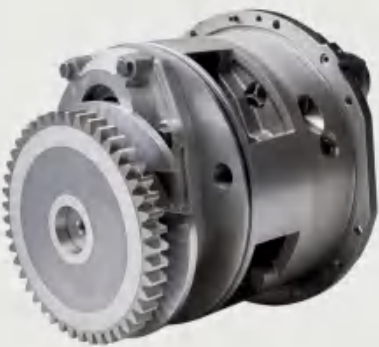


Performance parameter

Model	Displacement	Rated pressure	Speed range	Net speed	Remarks
	ml/r	MPa	r/min	kg	
91023	15.5	2	700~4000	/	/

Shape and connection dimensions

Due to the directional development of this product, the shape connection size calls for consultation.



92024 Double gear pump

This product is a double gear pump developed by CRRC Group, which is mainly used in the hydraulic system of high-speed rail vehicles or high-speed rail maintenance vehicles. The pump consists of a supply oil pump and a control pump in series, and an overload safety valve is integrated in the pump. Special internal oil circuit design, to meet the design needs of low noise, large displacement, high speed.

Performance parameter

Model	Displacement	Rated pressure	Speed range	Net speed	Remarks
	ml/r	MPa	r/min	kg	
92024	183/25	0.7/0.6	920~5400	/	/

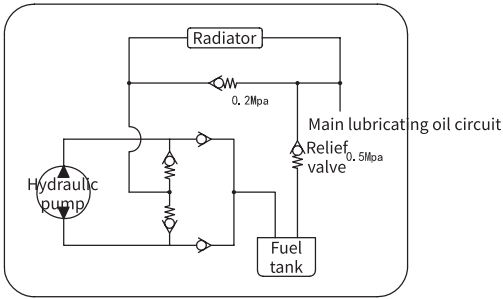
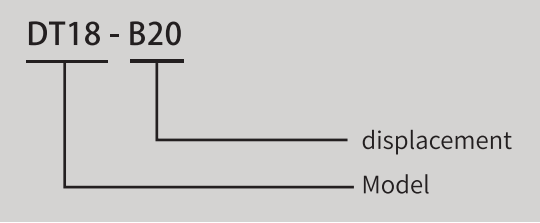
Shape and connection dimensions

Due to the directional development of this product, the shape connection size calls for consultation.

DT18-B20 Lubrication device

The DT18-B20 lubricating device is a transfer case assembly lubricating device developed by our company for a research institute of Aerospace Science and Technology Group. The lubricating device is a hydraulic component on the transfer case, which provides lubrication and heat dissipation for bearings and gears. It includes a set of internal meshing gear pairs, and integrates an oil suction check valve, an oil outlet check valve, a cooler bypass valve, and a protection relief valve. The oil suction check valve and the oil outlet check valve make the oil supply direction of the lubrication system unchanged when the input shaft is rotated forward and reverse.

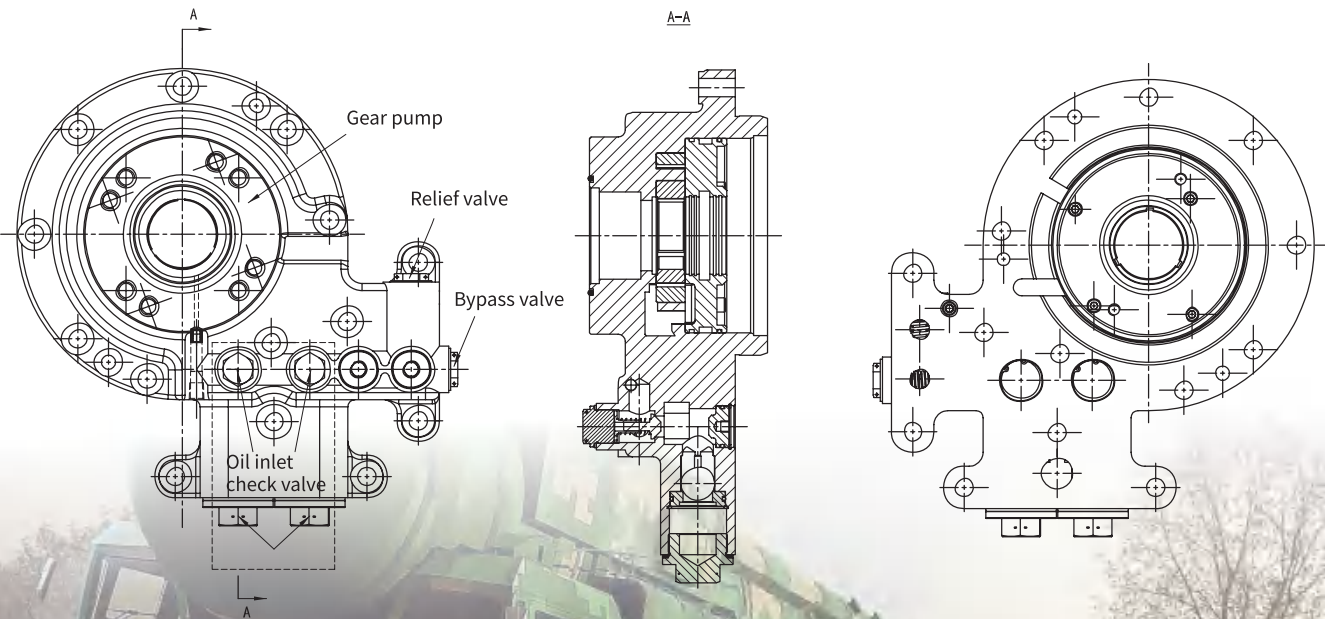
Model description



performance parameter

Model	Displacement	Rated pressure	Rated speed	Net weight
	mr/l	MPa	r/min	kg
DT18-B20	20	0.5	2300	/

Basic structure



PU-C70(T41-43) Oil filter

The product is used in the filter equipment of the hydraulic system of the ship, adopts chip filter, can be replaced without.

If the working condition you use is not consistent with the model description, please fill in the form below, we will adapt the corresponding product configuration for you.

Performance parameter

Name	Oil filter
Model	PU-C70
Performance	The working pressure in the system is 50Kgf/cm
	When the pressure drops to 2Kgf/cm' and the gap between the plates is 0.2mm, the flow rate is 70L/min
Net weight	7.7kg

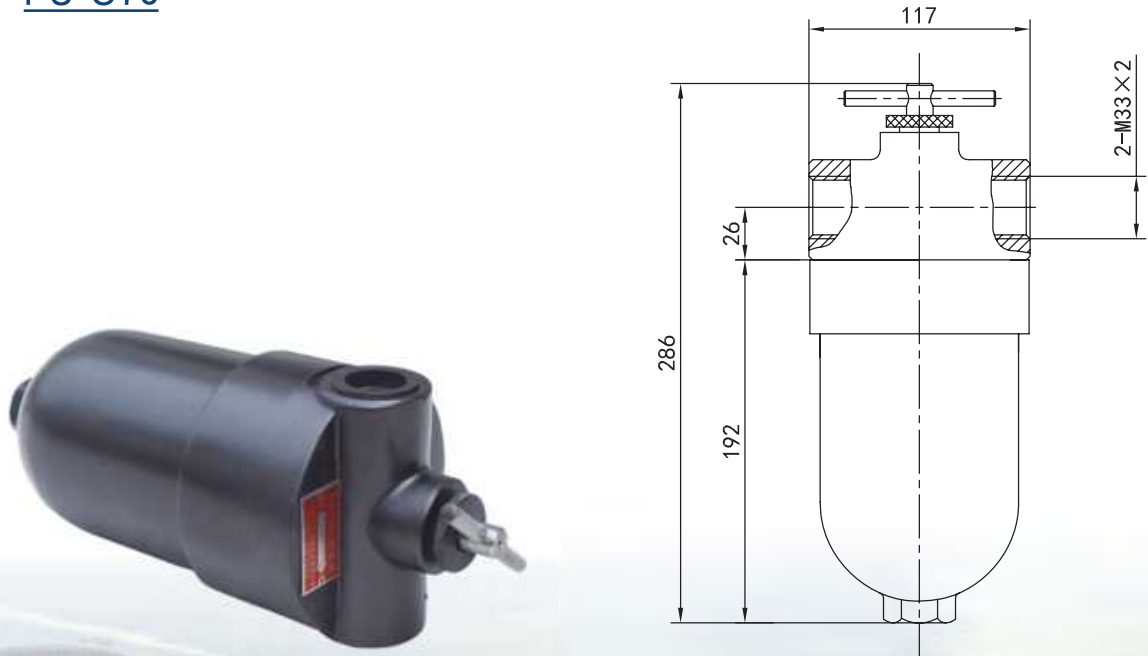
Model description

PU-C70

The model provided by the customer
Plate type oil filter

Shape and connection dimensions

PU-C70



Required throughput (continuous) :	L/min
RPM:	
- Continuous	rpm
- Min/Max	rpm
Inlet pressure (manometer) :	
- Continuous	bar
- Min/Max	bar
Outlet pressure (manometer) :	
- Continuous	bar
- Max	bar
Ambient temperature:	
- Continuous	℃
- Min/Max	℃
Conveying medium temperature:	
- Continuous	℃
- Min/Max	℃
Motion viscosity:	
- Continuous	mm²/s
- Min/Max	mm²/s
Transport medium:	

Other instructions on pump design: