

引进 创新 超越
IMPORTING INNOVATION EXCELLING

VICKS 威克斯液压
VICKS HYDRAULIC

叶片泵·叶片马达
Vane Pump Vane Motor

宁波威克斯液压有限公司

NINGBO VICKS HYDRAULIC CO.,LTD.

地址: 浙江省宁波市奉化区溪口镇后旺南路一号

Add: No.1, South Houwang Road, Xikou Zone, Fenghua, Ningbo,
Zhejiang, China

公司总部/Domestic Sales:

Tel: 86-574-88901118 88900002

Fax: 86-574-88900007

Email: vicksxia@163.com

Http://www.nvicks.cn

国际业务部/International Sales:

Tel: 86-574-88876506

Fax: 86-574-88876505

Email: sales@hydnavicks.com

美国分公司:

地址: 加利福尼亚州洛杉矶喜瑞都制鞋大道16300号

邮编: CA 90703

电话: 909-594-1683

广东分公司:

东莞办地址: 东莞寮步上屯良平西路142号

江门办地址: 广东省江门市鹤山市桃源镇桃源大道341号厂房三楼 (农商银行对面)

电话: 0769-81101311

传真: 0769-89610893

福建分公司:

地址: 晋江市安海镇可慕恒安生活区2号楼104

电话: 0595-85668821

传真: 0595-85668821

成都分公司:

地址: 成都市青白江区青江中路318号8栋1801

电话: 18428160062



叶片泵·叶片马达系列

Vane Pump / Vane Motor Series



2024

VICKS 威克斯液压
VICKS HYDRAULIC



工厂实景/Factory Live-action

关于我们

宁波威克斯液压有限公司是上市公司鲍斯股份（股份代码：300441）控股子公司，创始于2007年，是一家拥有多项发明专利的国家高新技术企业，现有10条世界领先的液压泵生产检测流水线。年产液压泵15万多台，节能伺服系统1万多套，提供节能电储料成套解决方案（直驱、行星减速机、齿轮箱）。

公司是叶片泵行业新标准修订主持单位，工信部专精特新“小巨人”企业；荣获中国液气密行业技术进步二等奖、区长质量奖和国家创新基金项目支持。

公司拥有VG系列超高压内啮合齿轮泵最高压力40Mpa、最高转速4000r/min，排量范围3-320ml/r，世界首创ABT系列伺服叶片泵，T6、T7、V、VQ、V10、V20、SQP、PV2R叶片泵，M3B、M4C、M4D、M4E、25/26M、35/36M、45/46M、50/51M叶片马达的核心技术。产品通过中国CCS、挪威DNV、美国ABS、法国BV、英国LR、日本NKK等世界六大权威船级社认证，广泛应用在注塑橡塑、压铸、工程、船舶、农机、油压、打包、港口等机械行业。

公司是台湾台达、奥地利KEBA、菲仕电机、韵升股份、美的集团、日本住友的战略合作伙伴。

公司坚持引进、创新、超越的发展之路和优质、高效、低耗、安全的经营理念，致力于打造世界著名的液压泵制造商及伺服节能成套解决方案专家，为装备升级造“中国心脏”。

公司以学习、和谐、坚持、专业为企业文化的核心思想，倡导至真、至善、至美的价值观和开明开拓、和谐和乐的精神。

ABOUT US

Ningbo Vicks Hydraulic Co., Ltd. is a holding subsidiary of the listed company Baosi Stock (stock code: 300441). It is founded in 2007. It is a national high-tech enterprise with a number of invention patents. There are 10 world leading production and testing lines for hydraulic pumps. With an annual output of more than 150,000 pcs hydraulic pumps, more than 10,000 sets energy-saving servo system, and supply complete solutions for electric melt glue energy-saving. (DD motor, Planetary reducer, Gearbox).

The company is the host of the revision of the new standard of the vane pump industry, praised by the Ministry of Industry and Information Technology as the new title "Little Giant" enterprise. We won the second prize of technology progress by China Hydraulics Pneumatics & Seals Association. Also we got the district mayor's quality award and the National Innovation Fund project support.

The company has core technology of VG series high pressure internal gear pumps (Max.Pressure 40Mpa, Max. Speed 4000r/min and Discharge range 3-320ml/r), World-first ABT series servo vane pumps, T6, T7, V, VQ, V10, V20, SQP, PV2R series vane pumps and M3B, M4C, M4D, M4E, 25/26M, 35/36M, 45/46M, 50/51M series vane motors. Our products are certified by the world's top six authoritative classification societies such as Chinese CCS, Norway DNV, American ABS, French BV, British LS and Japan NKK, and are widely used in injection molding, die-casting, engineering, ships, agricultural machinery, hydraulic, packaging, ports and other machinery industries.

The company is strategic partner of Taiwan DELTA, Austria KEBA, PHASE motor, Yunsheng Group, Midea Group and SUMITOMO Pump.

Ningbo Vicks adheres to the development path of introduction, innovation and transcendence, and the business philosophy of high quality, high efficiency, low power consumption and safety, and is committed to building a world-renowned hydraulic pump manufacturer and servo energy-saving complete solution expert. We want to make a "Chinese heart" for industrial equipment upgrades.

The company takes learning, harmony, persistence and professionalism as the core ideas of enterprise culture, and advocates the values of truth, goodness and beauty as well as the spirit of open exploration, harmony and joy.



办公区/Office



科研中心/Scientific Research Centre



生活区/Staff Living Area



活动中心/Activity Center

高速 · 高压 · 节能
High Speed High Voltage Energy Saving

BSC 股票代码
鲍斯股份 300441

内啮合齿轮泵 · 伺服系统
Internal Gear Pump Servo system

叶片(伺服)泵 · 叶片马达
Vane(Servo) Pump Vane Motor

电储料成套解决方案
Complete Set Of Solutions For Electrical Storage Materials



NUICKS 威克斯液压
VICKS HYDRAULIC



台湾台达



奥地利科霸



菲仕电机



韵升集团
YUNSHENG GROUP



日本住友



台湾传仕重工



American Albert Hydraulic
美国艾伯特(ABT)流体动力

Strategic Cooperative

战略合作



China Shipbuilding
中船重工



美国卡特彼勒



法因股份



力劲集团
L.K. GROUP



博创智能装备



佳明机器



联升精密



台意德型机



乐星机械



伟达智能



康思达



晋江火炬油压机械



成都正西



梁发记



新佳盛



Honorary Certificate

荣誉证书



科研合作高校 Cooperation of colleges



Zhejiang University



Zhejiang University of Technology

船级社认证 Classification society certification



挪威 / Norwegian DNV



美国 / American ABS



日本 / Japan NKK



法国 / French BV



中国 / China CCS



英国 / British LR



Technology as the new "little giant" enterprise



The national ministry of science and technology innovation fund support



Progress prize in national industry



National high and new technology enterprise



The municipal scientific research center



The mayor quality award



National high and new technology enterprise



Innovative companies



China famous brand product



Quality management system certification



National fluid laboratory testing certificate



National center for plastics machinery testing certificate



Ningbo Municipal Pneumatic and Hydraulic Components Industry Association



China Hydraulic and Pneumatic Industry Association



System Integrator



Ningbo Municipal Pneumatic and Hydraulic Components Industry Association

Production Workshop

生产车间



数控曲线、槽磨床生产线 / CNC Machines, groove grinding machine production line



日本牧野CNC生产线 / Japan Makino CNC production line



瑞士费尔曼CNC生产线 / Swiss Fehlmann CNC production line

Key Equipment

关键设备



英国霍洛伊德涡轮磨床 / British HOLROYD Scroll grinder



德国卡帕涡轮磨齿机 / Germany Scroll gear grinding machine



日本马扎克机床
Japan Mazak CNC



奥地利WFL车铣复合加工中心
Austria WFL Turn milling compound machining center



韩国AM公司双端面磨床
Korea AM Parallel Surface Grinding Machine



400KN数控拉床
40KN CNC broaching machine



日本津上数控外圆磨床
Japan TSUGAMI CNC cylindrical grinder



数控滚齿机
CNC hobbing machine



电机功率250KW 转速3000r/min 超大功率叶片泵全自动测试平台
Full automatic testing bench for vane pump with 250KW motor power and 3000R/M speed



伺服泵全自动测试平台 / Servo pump automatic test bench



CONTENTS

目录

	01 T6, T7 系列单泵 Series-single pumps		58 SQP 系列单泵 Series-single pumps
	15 T6, T67, T7 系列双联泵 Series-double pumps		62 SQP 系列双联泵 Series-double pumps
	21 T6, T67, T7 系列三联泵 Series-treble pumps		68 SQP 系列三联泵 Series-treble pumps
	26 T6GC, T7GB 系列单泵 Series-single pumps		
	28 T6GCC, T67GCB, T7GBB 系列双联泵 Series-double pumps		72 V, VQ, SQP 所有轴类尺寸 Shaft Dimensions
	30 T6DR 系列通轴式叶片泵 Series-vane pumps		73 50V 系列叶片泵 Series Vane Pumps
	31 T7EE, T7EES, T7EEZ 系列通轴式叶片泵 Series-vane pumps		74 PV2R 系列叶片泵 Series-vane pumps
	33 T6、T7 系列泵芯 Series-cartridge		79 油口连接法兰对照表 Port flange kits table
	35 V 系列单泵 Series-single pumps		
	38 V 系列双联泵 Series-double pumps		80 ABT 系列伺服泵 Series-servo pumps
	41 V 系列泵芯 Series-cartridge		81 ABT 系列伺服单泵 Series-servo single pumps
	42 VQ 系列单泵 Series-single pumps		88 ABT 系列伺服双联泵 Series-servo double pumps
	46 VQ 系列双泵 Series-double pumps		91 T7-E 系列变速驱动用叶片泵 Vane pump for variable speed drive
	47 产品重量 Product weight		
	51 VQ 系列泵芯 Series-cartridge		106 25/26M, 35/36M, 45/46M, 50/51M 系列叶片马达 / Series-vane motor
	52 2520VQSV10S 三联泵 Series-treble pumps		111 M4 系列叶片马达 Series-vane motor
	53 V10, V20 系列叶片泵 Series-vane pumps		117 安装、使用与维护 Installation Application and Maintenance
	55 V2010, V2020 系列双联泵 Series-double pumps		118 常见故障及排除方法一览表 Common trouble and solving

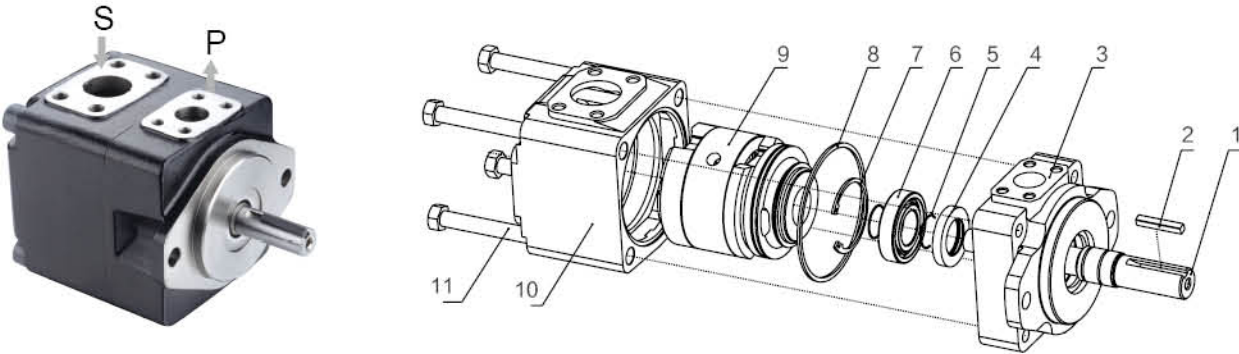
T6, T7 系列柱销式叶片泵
Series-pin Vane Pumps

适用于塑胶机械、压铸机械、冶金机械、炼油机械、压力机械、工程机械及船舶机械等的高压高性能柱销式叶片泵。
 High pressure and high performance dowel pin type vane pumps are widely used for plastic machinery, casting machinery, metallurgy machinery, pressing machinery, refining machinery, construction machinery, marine-Machinery.

- 主要特点为：
 - 1、采用柱销式叶片的结构，其工作压力更高，噪声更低，寿命更长。
 - 2、适应液压介质的粘度范围大，能在低温下启动和高温下运行。
 - 3、采用双层结构的叶片，抗污染能力强，转速范围宽。

- Features
 1. With dowel pin vane structure, it can work in high pressure, low noise and long lifetime.
 2. This vane pump can fit wide viscosity hydraulic medium, and be started at low temperature and work at high temperature.
 3. As the vane pump adopts bilabial structure vane, it has high oil polution resistance and wide speed scope.

T6, T7 系列单泵
Series-single Pumps



序号 NO.	名称 Part	数量 Qty	序号 NO.	名称 Part	数量 Qty	序号 NO.	名称 Part	数量 Qty
1	轴 shaft	1	5	轴用钢丝挡圈 cir clip for shaft	2	9	泵芯 cartridge kit	1
2	平键 straight key	1	6	滚动轴承 ball bearing	1	10	后盖 rear cover	1
3	前盖 front cover	1	7	孔用弹性挡圈 cir clip for hole	1	11	外六角头螺栓 Hexagon head bolt	4
4	油封 shaft seal	1	8	矩形密封圈 rectangle seal ring	1			

型号说明 /Model Designation

T7B	S	-B10	-1	R	00	-A	1	01
系列号 Series	类别代号 Type Code	排量代号 Flow code	轴伸形式 Shaft type	旋转方向 Rotation	出油口位置 Outlet positions	设计号 Design number	密封等级 Sealing Level	油口尺寸 Port dimensions
T7B	无 No: ISO 3019 安装法兰 Installation Flange S: SAE J744 安装法兰 installation flange	B02, B03, B04, B05, B06, B07, B08, B10, B12, B15, B20	见轴伸尺寸 See of shaft	(从泵的轴端看) (Viewed from shaft end of pump) R-顺时针旋转 right hand for clockwise L-逆时针旋转 left hand for counter- clockwise	(从泵的轴端看) (Viewed from shaft end of pump) 00-进油口对面 Opposite inlet port 01-进油口同侧 Inline with inlet 02-从进油口逆时针90° 90° CCW from inlet 03-从进油口顺时针90° 90° CW from inlet	A	1-S1, 丁晴橡胶 (Buna) NBR Nitrile rubber 5-SS, 氟橡胶 (Viton) Fluororubber	00、01, 见安装 连接尺寸 See installation dimensions
T7D		B14, B17, B20, B22, B24, B28, B31, B35, B38, B42						无此选项 No
T7E		042, 045, 050, 052, 054, 057, 062, 066, 072, 085						
T6C	无: 工业用型 M: 车用型 P: 双重油封 车用型	003/B03, 005/B05, 006/B06, 008/B08, 010/B10, 012/B12, 014/B14, 017/B17, 020/B20, 022/B22, 025/B25, 028/B28, 031/B31						
T6D	NO: industrial type M: truck type P: truck type double seal kits	014/B14, 017/B17, 020/B20, 024/B24, 028/B28, 031/B31, 035/B35, 038/B38, 042/B42, 045/B45, 050/B50, 061						
T6E		042, 045, 050, 052, 057, 062、066, 072, 085						

003/B03 排量代号中0表示单转向型配流侧板结构，B表示双转向型配流侧板结构
 In displacement code, 0 means single steering valve plate structure, B means the two steering valve plate structure.

技术参数 / Technical Data

系列号 series	排量代号 Flow code (USgpm)	理论排量 Geometric displace- ment mL/r	最高压力/Max.pressure Mpa						最高转速/Max.speed r/min		最低转速 Min. speed r/min
			抗磨液压油 Antiwear hydraulic oil		普通液压油和磷酸脂液 General hydraulic oil or phosphate ester fluid		水乙二醇和油包水乳化液 Water glycol fluid or water-oil emulsions		普通液压油和 抗磨液压油 General hydraulic oil or antiwear hydraulic oil	水乙二醇、磷酸脂 液和油包水乳化液 Water glycol fluid or phosphate ester fluid or water-oil emulsions	
			间歇	连续	间歇	连续	间歇	连续			
T7B T7BS	B02	5.8	35	32	24	21	17.5	14	3600	1800	600
	B03	9.8									
	B04	12.8									
	B05	15.9									
	B06	19.8									
	B07	22.5									
	B08	24.9									
	B10	31.8									
	B12	41.0	30	27.5	24	21	17.5	14	3000	1800	600
	B15	50.0	28	24							
	B20	63.0									
T7D T7DS	B14	44.0	30	25	24	21	17.5	14	3000	1800	600
	B17	55.0									
	B20	66.0									
	B22	70.3									
	B24	81.1									
	B28	90.0									
	B31	99.2									
	B35	113.4	28	25	24	21	17.5	14	2800	1800	600
	B38	120.6									
	B42	137.5	26	23	24	21	17.5	14	2500	1800	600
T7E T7ES	042	132.3	24	21	21	17.5	17.5	14	2200	1800	600
	045	142.4									
	050	158.5									
	052	164.8									
	054	171.0									
	057	183.3									
	062	196.7									
	066	213.3									
	072	227.1									
	085	268.7	9	7.5	7.5	7.5	7.5	7.5	2000	1800	600

技术参数 / Technical Data

系列号 series	排量代号 Flow code (USgpm)	理论排量 Geometric displace- ment mL/r	最高压力/Max.pressure Mpa						最高转速/Max.speed r/min		最低转速 Min. speed r/min
			抗磨液压油 Antiwear hydraulic oil		普通液压油和磷酸脂液 General hydraulic oil or phosphate ester fluid		水乙二醇和油包水乳化液 Water glycol fluid or water-oil emulsions		普通液压油和 抗磨液压油 General hydraulic oil or antiwear hydraulic oil	水乙二醇、磷酸脂 液和油包水乳化液 Water glycol fluid or phosphate ester fluid or water-oil emulsions	
			间歇 Instant	连续 Continuous	间歇 Instant	连续 Continuous	间歇 Instant	连续 Continuous			
T6C	003/B03	10.8	28	24	21	17.5	17.5	14	2800	1800	600
	005/B05	17.2									
	006/B06	21.3									
	008/B08	26.4									
	010/B10	34.1									
	012/B12	37.1									
	014/B14	46.0									
	017/B17	58.3									
	020/B20	63.8									
	022/B22	70.3									
	025/B25	79.3							2500		
	028/B28	88.8	21	16	21	16	17.5	14	2500	1800	600
	031/B31	100.0									
T6D	014/B14	47.6	25	21	21	17.5	17.5	14	2500	1800	600
	017/B17	58.2									
	020/B20	66.0									
	024/B24	79.5									
	028/B28	89.7									
	031/B31	98.3									
	035/B35	111.0									
	038/B38	120.3									
	042/B42	136.0							2200		
	045/B45	145.7							2200		
	050/B50	158.0	21	16	21	16	17.5	14	2200	1800	600
	061	190.5	12	8	8	8	7.5	7.5			
	T6E	042	132.3	25	21	21	17.5	17.5	14	2200	1800
045		142.4									
050		158.5									
052		164.8									
057		179.8									
062		196.7									
066		213.3									
072		227.1									
085		269.0	12	8	12	8	7.5	7.5	2000	1800	600

003/B03 排量代号中0表示单转向型配流侧板结构，B表示双转向型配流侧板结构
 In displacement code, 0 means single steering valve plate structure, B means the two steering valve plate structure.

工作性能 / Operation Performance

使用抗磨液压油，油液粘度24cst时。Using the anti-wear hydraulic oil, the oil viscosity 24cst.

系列 Series	理论排量 Geological Displaceme-nt mL/rev	转速 Rotation speed r/min	流量/Flow (L/min)							输入功率 /Input Power (KW)						
			P=0 MPa	P=7 MPa	P=14 MPa	P=21 MPa	P=24 MPa	P=28 MPa	P=32 MPa	P=0.7 MPa	P=7 MPa	P=14 MPa	P=21 MPa	P=24 MPa	P=28 MPa	P=32 MPa
			L/min	L/min	L/min	L/min	L/min	L/min	L/min	KW	KW	KW	KW	KW	KW	KW
T7B(S)-B02	5.8	1000	5.8	4.9	4.2	3.3	-	-	-	0.2	0.9	1.7	2.5	-	-	-
		1200	7.0	6.1	5.4	4.5	4.0	-	-	0.4	1.3	2.2	3.2	3.6	-	-
		1500	8.7	7.8	7.1	6.2	5.7	5.2	4.7	0.6	1.7	2.8	4.0	4.5	5.2	5.9
		1800	10.4	9.5	8.8	7.9	7.4	6.9	6.4	0.7	2.0	3.4	5.0	5.6	6.4	7.2
T7B(S)-B03	9.8	1000	9.8	8.9	8.2	7.3	6.8	6.3	5.8	0.2	1.3	2.6	3.9	4.5	5.2	6.0
		1200	11.8	10.9	10.2	9.3	8.8	8.3	7.8	0.4	1.8	3.3	4.9	5.5	6.4	7.3
		1500	14.7	13.8	13.1	12.2	11.7	11.2	10.7	0.7	2.4	4.2	6.1	6.9	8.0	9.1
		1800	17.6	16.7	16.0	15.1	14.6	14.1	13.6	0.8	2.8	5.1	7.5	8.5	9.7	11.0
T7B(S)-B04	12.8	1000	12.8	11.9	11.2	10.3	9.8	9.3	8.8	0.2	1.7	3.3	5.0	5.7	6.6	7.6
		1200	15.4	14.5	13.8	12.9	12.4	11.9	11.4	0.5	2.2	4.2	6.1	6.9	8.1	9.2
		1500	19.2	18.3	17.6	16.7	16.2	15.7	15.2	0.7	2.9	5.3	7.7	8.7	10.1	11.5
		1800	23.0	22.1	21.4	20.5	20.0	19.5	19.0	0.9	3.4	6.4	9.4	10.6	12.3	13.9
T7B(S)-B05	15.9	1000	15.9	15.0	14.3	13.4	12.9	12.4	11.9	0.3	2.1	4.1	6.0	6.9	8.1	9.2
		1200	19.1	18.2	17.5	16.6	16.1	15.6	15.1	0.5	2.7	5.0	7.4	8.4	9.8	11.2
		1500	23.9	23.0	22.3	21.4	20.9	20.4	19.9	0.8	3.4	6.4	9.3	10.6	12.3	14.0
		1800	28.6	27.7	27.0	26.1	25.6	25.1	24.6	0.9	4.1	7.7	11.3	12.8	14.9	16.9
T7B(S)-B06	19.8	1000	19.8	18.9	18.2	17.3	16.8	16.3	15.8	0.3	2.5	5.0	7.4	8.5	9.9	11.3
		1200	23.8	22.9	22.2	21.3	20.8	20.3	19.8	0.6	3.2	6.1	9.1	10.3	12.0	13.7
		1500	29.7	28.8	28.1	27.2	26.7	26.2	25.7	0.8	4.1	7.7	11.4	12.9	15.0	17.1
		1800	35.6	34.7	34.0	33.1	32.6	32.1	31.6	1.0	4.9	9.3	13.8	15.7	18.1	20.6
T7B(S)-B07	22.5	1000	22.5	21.6	20.9	20.0	19.5	19.0	18.5	0.4	2.8	5.6	8.3	9.6	11.2	12.8
		1200	27.0	26.1	25.4	24.5	24.0	23.5	23.0	0.6	3.6	6.9	10.2	11.6	13.5	15.4
		1500	33.8	32.9	32.2	31.3	30.8	30.3	29.8	0.9	4.6	8.7	12.8	14.6	16.9	19.3
		1800	40.5	39.6	38.9	38.0	37.5	37.0	36.5	1.1	5.5	10.5	15.5	17.6	20.4	23.2
T7B(S)-B08	24.9	1000	24.9	24.0	23.3	22.4	21.9	21.4	20.9	0.4	3.1	6.2	9.2	10.5	12.3	14.0
		1200	29.9	29.0	28.3	27.4	26.9	26.4	25.9	0.6	3.9	7.6	11.2	12.8	14.8	16.9
		1500	37.4	36.5	35.8	34.9	34.4	33.9	33.4	0.9	5.0	9.5	14.1	16.0	18.6	21.2
		1800	44.8	43.9	43.2	42.3	41.8	41.3	40.8	1.1	6.0	11.5	17.0	19.3	22.4	25.5
T7B(S)-B10	31.8	1000	31.8	30.9	30.2	29.3	28.8	28.3	27.8	0.5	3.9	7.8	11.6	13.3	15.5	17.7
		1200	38.2	37.3	36.6	35.7	35.2	34.7	34.2	0.7	4.9	9.5	14.1	16.1	18.7	21.4
		1500	47.7	46.8	46.1	45.2	44.7	44.2	43.7	1.1	6.2	11.9	17.7	20.1	23.4	26.7
		1800	57.2	56.3	55.6	54.7	54.2	53.7	53.2	1.3	7.4	14.4	21.3	24.3	28.2	32.1
T7B(S)-B12	41.0	1000	41.0	40.1	39.4	38.5	38.0	37.5	-	0.6	5.0	9.9	14.8	17.0	19.8	-
		1200	49.2	48.3	47.6	46.7	46.2	45.7	-	0.9	6.2	12.1	18.0	20.5	23.9	-
		1500	61.5	60.6	59.9	59.0	58.5	58.0	-	1.2	7.8	15.2	22.5	25.7	29.9	-
		1800	73.8	72.9	72.2	71.3	70.8	70.3	-	1.5	9.4	18.2	27.1	30.9	35.9	-
T7B(S)-B15	50.0	1000	50.0	49.1	48.4	47.5	47.0	46.5	-	0.7	6.0	12.0	18.0	20.6	24.0	-
		1200	60.0	59.1	58.4	57.5	57	56.5	-	1.0	7.4	14.6	21.7	24.8	28.9	-
		1500	75.0	74.1	73.4	72.5	72.0	71.5	-	1.4	9.4	18.3	27.2	31.1	36.2	-
		1800	90.0	89.1	88.4	87.5	87.0	86.5	-	1.7	11.3	22.0	32.8	37.4	43.5	-
T7B(S)-B20	63.0	1500	94.5	92.6	91.2	90.0	89.2	88.5	-	1.8	12.5	22.8	33.2	38.1	44.8	-

工作性能 / Operation Performance

使用抗磨液压油，油液粘度24cst时。Using the anti-wear hydraulic oil, the oil viscosity 24cst.

系列 Series	理论排量 Geological Displaceme-nt mL/rev	转速 Rotation speed r/min	流量/Flow (L/min)		
			P=0 MPa	P=14 MPa	P=30 MPa
			L/min	L/min	L/min
T7D(S)-B14	44.0	1000	44.0	37.4	29.9
		1200	52.8	46.2	38.7
		1500	66.0	59.4	51.9
		1800	79.2	72.6	65.1
T7D(S)-B17	55.0	1000	55.0	48.4	40.9
		1200	66.0	59.4	51.9
		1500	82.5	75.9	68.4
		1800	99.0	92.4	84.9
T7D(S)-B20	66.0	1000	66.0	59.4	51.9
		1200	79.2	72.6	65.1
		1500	99.0	92.4	84.9
		1800	118.8	112.2	104.7
T7D(S)-B22	70.3	1000	70.3	63.7	56.2
		1200	84.4	77.8	70.3
		1500	105.5	98.8	91.4
		1800	126.5	119.9	112.4
T7D(S)-B24	81.1	1000	81.1	74.5	67
		1200	97.3	90.7	83.2
		1500	121.7	115.1	107.6
		1800	146.0	139.4	131.9
T7D(S)-B28	90.0	1000	90.0	83.4	75.9
		1200	108.0	101.4	93.9
		1500	135.0	128.4	120.9
		1800	162.0	155.4	147.9
T7D(S)-B31	99.2	1000	99.2	92.6	85.1
		1200	119.8	113.2	105.7
		1500	148.8	142.2	134.7
		1800	178.6	172.0	164.5
T7D(S)-B35	113.4	1000	113.4	106.8	-
		1200	136.1	129.5	-
		1500	170.1	163.5	-
		1800	204.1	197.5	-
T7D(S)-B38	120.6	1000	120.6	114.0	-
		1200	144.7	138.1	-
		1500	180.9	174.3	-
		1800	217.1	210.5	-
T7D(S)-B42	137.5	1000	137.5	130.9	-
		1200	165.0	158.4	-
		1500	206.3	199.7	-
		1800	247.5	240.9	-

系列 Series	输入功率 /Input Power (KW)		
	P=0.7 MPa	P=14 MPa	P=30 MPa
	KW	KW	KW
T7D(S)-B14	1.5	16.6	34.2
T7D(S)-B17	1.7	20.4	42.4
T7D(S)-B20	1.9	24.3	50.7
T7D(S)-B22	2.0	25.8	53.9
T7D(S)-B24	2.2	29.5	62.0
T7D(S)-B28	2.3	32.7	68.7
T7D(S)-B31	2.5	35.9	75.6
T7D(S)-B35	2.7	40.8	-
T7D(S)-B38	2.9	43.4	-
T7D(S)-B42	3.2	49.3	-

工作性能 / Operation Performance

使用抗磨液压油，油液粘度24cst时。Using the anti-wear hydraulic oil, the oil viscosity 24cst.

系列 Series	理论排量 Geological Displaceme-nt mL/rev	转速 Rotation speed r/min	流量/Flow (L/min)		
			P=0 MPa	P=14 MPa	P=24 MPa
			L/min	L/min	L/min
T7E(S)-042	132.3	1000	132.3	122.3	115.2
		1200	158.8	150.8	143.7
		1500	198.5	188.5	181.4
		1800	238.1	228.1	221.0
T7E(S)-045	142.4	1000	142.4	132.4	125.3
		1200	170.9	160.9	153.8
		1500	213.6	203.6	196.5
		1800	256.3	246.3	239.2
T7E(S)-050	158.5	1000	158.5	148.5	141.4
		1200	190.2	180.2	173.1
		1500	237.7	227.7	220.6
		1800	285.3	275.3	268.2
T7E(S)-052	164.8	1000	164.8	154.8	147.7
		1200	197.8	187.8	180.7
		1500	247.2	237.2	230.1
		1800	296.6	286.6	279.5
T7E(S)-054	171.0	1000	171.0	161.0	153.9
		1200	205.2	195.2	188.1
		1500	256.5	246.5	239.4
		1800	307.8	297.8	290.7
T7E(S)-057	183.3	1000	183.3	173.3	166.2
		1200	220.0	210.0	202.9
		1500	275.0	265.0	257.9
		1800	330.0	320.0	312.9
T7E(S)-062	196.7	1000	196.7	186.7	179.6
		1200	236.0	226.0	218.9
		1500	295.0	285.0	277.9
		1800	354.1	344.1	337.0
T7E(S)-066	213.3	1000	213.3	203.3	196.2
		1200	256.0	246.0	238.9
		1500	319.9	309.0	302.8
		1800	384.0	374.0	366.9
T7E(S)-072	227.1	1000	227.1	217.1	210.0
		1200	272.5	262.5	255.4
		1500	340.6	330.6	323.5
		1800	408.8	398.8	391.7
T7E(S)-085*	268.7	1000	268.7	-	-
		1200	322.4	-	-
		1500	403.0	-	-
		1800	483.7	-	-

085* 最大转速2000r/min, 最大间歇压力9MPa
The max rotation speed is 2000r/min, and the max intermittent pressure is 9MPa.

工作性能 / Operation Performance

使用抗磨液压油，油液粘度24cst时。Using the anti-wear hydraulic oil, the oil viscosity 24cst.

系列 Series	理论排量 Geological Displaceme-nt mL/rev	转速 Rotation speed r/min	流量/Flow (L/min)						输入功率 /Input Power (KW)					
			P=0 MPa	P=7 MPa	P=14 MPa	P=21 MPa	P=24 MPa	P=28 MPa	P=0 MPa	P=7 MPa	P=14 MPa	P=21 MPa	P=24 MPa	P=28 MPa
			L/min	L/min	L/min	L/min	L/min	L/min	KW	KW	KW	KW	KW	KW
T6C-003 T6C-B03	10.8	1000	10.8	8.3	5.8	-	-	-	0.9	2.2	3.7	-	-	-
		1200	13.0	10.5	8.0	-	-	-	1.1	2.6	4.4	-	-	-
		1500	16.2	13.7	11.2	8.7	8.2	-	1.3	3.3	5.4	7.6	8.5	-
		1800	19.4	16.9	14.4	11.9	11.4	10.3	1.7	4.0	6.4	8.9	10.0	11.5
T6C-005 T6C-B05	17.2	1000	17.2	14.7	12.2	9.7	9.2	-	1.0	3.0	5.2	7.4	8.4	-
		1200	20.6	18.1	15.6	13.1	12.6	11.5	1.1	3.5	6.2	8.8	10.0	11.5
		1500	25.8	23.3	20.8	18.3	17.8	16.7	1.4	4.4	7.7	10.9	12.3	14.1
		1800	31.0	28.5	26.0	23.5	23.0	21.9	1.9	5.3	9.1	13.0	14.6	16.8
T6C-006 T6C-B06	21.3	1000	21.3	18.8	16.3	13.8	13.3	12.2	1.0	3.4	6.1	8.9	10.0	11.5
		1200	25.6	23.1	20.6	18.1	17.6	16.5	1.2	4.1	7.3	10.5	11.9	13.8
		1500	32.0	29.5	27.0	24.5	24.0	22.9	1.5	5.1	9.1	13.1	14.8	17.0
		1800	38.3	35.8	33.3	30.8	30.3	29.2	1.9	6.2	10.8	15.6	17.6	20.3
T6C-008 T6C-B08	26.4	1000	26.4	23.9	21.4	18.9	18.4	17.3	1.1	4.0	7.3	10.6	12.0	13.9
		1200	31.7	29.2	26.7	24.2	23.7	22.6	1.3	4.8	8.7	12.7	14.4	16.6
		1500	39.6	37.1	34.6	32.1	31.6	30.5	1.6	6.0	10.9	15.8	17.8	20.6
		1800	47.5	45.0	42.5	40.0	39.5	38.4	2.1	7.2	13.0	18.8	21.3	24.6
T6C-010 T6C-B10	34.1	1000	34.1	31.6	29.1	26.6	26.1	25.0	1.2	4.9	9.1	13.3	15.1	17.5
		1200	40.9	38.4	35.9	33.4	32.9	31.8	1.4	5.9	10.9	15.9	18.1	20.9
		1500	51.2	48.7	46.2	43.7	43.2	42.1	1.7	7.3	13.6	19.8	22.5	26.0
		1800	61.4	58.9	56.4	53.9	53.4	52.3	2.2	8.9	16.2	23.6	26.8	31.0
T6C-012 T6C-B12	37.1	1000	37.1	34.6	32.1	29.6	29.1	28.0	1.2	5.3	9.8	14.4	16.3	18.9
		1200	44.5	42.0	39.5	37.0	36.5	35.4	1.4	6.3	11.7	17.2	19.5	22.6
		1500	55.7	53.2	50.7	48.2	47.7	46.6	1.7	7.9	14.6	21.4	24.3	28.1
		1800	66.8	64.3	61.8	59.3	58.8	57.7	2.3	9.5	17.5	25.5	29.0	33.6
T6C-014 T6C-B14	46.0	1000	46.0	43.5	41.0	38.5	38.0	36.9	1.3	6.3	11.9	17.5	19.9	23.1
		1200	55.2	52.7	50.2	47.7	47.2	46.1	1.5	7.6	14.2	20.9	23.8	27.6
		1500	69.0	66.5	64.0	61.5	61.0	59.9	1.9	9.4	17.7	26.1	29.6	34.3
		1800	82.8	80.3	77.8	75.3	74.8	73.7	2.5	11.4	21.2	31.1	35.4	41.0

工作性能 / Operation Performance

使用抗磨液压油，油液粘度24cst时。Using the anti-wear hydraulic oil, the oil viscosity 24cst.

系列 Series	理论排量 Geological Displaceme-nt mL/rev	转速 Rotation speed r/min	流量/Flow (L/min)						输入功率 /Input Power (KW)					
			P=0 MPa	P=7 MPa	P=14 MPa	P=21 MPa	P=24 MPa	P=28 MPa	P=0 MPa	P=7 MPa	P=14 MPa	P=21 MPa	P=24 MPa	P=28 MPa
			L/min	L/min	L/min	L/min	L/min	L/min	KW	KW	KW	KW	KW	KW
T6C-017 T6C-B17	58.3	1000	58.3	55.8	53.3	50.8	50.3	49.2	1.5	7.8	14.8	21.8	24.8	28.8
		1200	70.0	67.5	65.0	62.5	62.0	60.9	1.7	9.3	17.7	26.1	29.7	34.5
		1500	87.5	85.0	82.5	80.0	79.5	78.4	2.1	11.6	22.0	32.5	37.0	42.9
		1800	104.9	102.4	99.9	97.4	96.9	95.8	2.7	13.9	26.4	38.9	44.2	51.4
T6C-020 T6C-B20	63.8	1000	63.8	61.3	58.8	56.3	55.8	54.7	1.5	8.4	16.0	23.7	27.0	31.4
		1200	76.6	74.1	71.6	69.1	68.6	67.5	1.8	10.0	19.2	28.4	32.3	37.6
		1500	95.7	93.2	90.7	88.2	87.7	86.6	2.2	12.5	24.0	35.4	40.3	46.8
		1800	114.8	112.3	109.8	107.3	106.8	105.7	2.8	15.1	28.7	42.3	48.2	56.0
T6C-022 T6C-B22	70.3	1000	70.3	67.8	65.3	62.8	62.3	61.2	1.6	9.2	17.6	26.0	29.6	34.4
		1200	84.4	81.9	79.4	76.9	76.4	75.3	1.9	11.0	21.0	31.1	35.5	41.2
		1500	105.5	103.0	100.5	98.0	97.5	96.4	2.3	13.7	26.2	38.8	44.2	51.3
		1800	126.5	124.0	121.5	119.0	118.5	117.4	3.0	16.5	31.4	46.4	52.9	61.5
T6C-025 T6C-B25	79.3	1000	79.3	76.8	74.3	71.8	71.3	70.2	1.7	10.2	19.7	29.2	33.2	38.6
		1200	95.2	92.7	90.2	87.7	87.2	86.1	2.0	12.2	23.6	34.9	39.8	46.3
		1500	119.0	116.5	114.0	111.5	111.0	109.9	2.5	15.2	29.4	43.5	49.6	57.6
		1800	142.7	140.2	137.7	135.2	134.7	133.6	3.2	18.4	35.2	52.1	59.3	69.0
T6C-028* T6C-B28	88.8	1000	88.8	86.3	83.8	81.3	-	-	1.8	11.3	21.9	32.5	-	-
		1200	106.6	104.1	101.6	99.1	-	-	2.1	13.5	26.2	38.9	-	-
		1500	133.2	130.7	128.2	125.7	-	-	2.7	16.9	32.7	48.5	-	-
		1800	159.8	157.3	154.8	152.3	-	-	3.4	20.3	39.2	58.1	-	-
T6C-031* T6C-B31	100.0	1000	100.0	97.5	95.0	92.5	-	-	2.0	12.6	24.5	36.4	-	-
		1200	120.0	117.5	115.0	112.5	-	-	2.3	15.1	29.4	43.6	-	-
		1500	150.0	147.5	145.0	142.5	-	-	2.9	18.9	36.6	54.4	-	-
		1800	180.0	177.5	175.0	172.5	-	-	3.6	22.7	43.9	65.1	-	-
028* / 031* 最大间歇压力21MPa。 The max intermittent pressure is 21MPa。 - 因为内泄大于理论值的50%，故没有应用。 - AS the inner leakage is over 50% of thcoretical valuc, so it is not used														

工作性能 / Operation Performance

使用抗磨液压油，油液粘度24cst时。Using the anti-wear hydraulic oil, the oil viscosity 24cst.

系列 Series	理论排量 Geological Displaceme-nt mL/rev	转速 Rotation speed r/min	流量/Flow (L/min)					输入功率 /Input Power (KW)				
			P=0 MPa	P=7 MPa	P=14 MPa	P=21 MPa	P=24 MPa	P=0 MPa	P=7 MPa	P=14 MPa	P=21 MPa	P=24 MPa
			L/min	L/min	L/min	L/min	L/min	KW	KW	KW	KW	KW
T6D-014 T6D-B14	47.6	1000	47.6	43.6	38.6	34.6	32.6	1.6	6.8	12.5	18.3	20.7
		1200	57.1	53.1	48.1	44.1	42.1	1.8	8.0	14.9	21.8	24.8
		1500	71.4	67.4	62.4	58.4	56.4	2.3	10.0	18.5	27.0	30.7
		1800	85.7	81.7	76.7	72.7	70.7	2.9	12.1	22.3	32.5	36.9
T6D-017 T6D-B17	58.2	1000	58.2	54.2	49.2	45.2	43.2	1.7	8.0	15.0	22.0	25.0
		1200	69.8	65.8	60.8	56.8	54.8	1.9	9.5	17.9	26.3	29.9
		1500	87.3	83.3	78.3	74.3	72.3	2.5	11.8	22.2	32.6	37.0
		1800	104.8	100.8	95.8	91.8	89.8	3.1	14.4	26.8	39.2	44.5
T6D-020 T6D-B20	66.0	1000	66.0	62.0	57.0	53.0	51.0	1.8	8.9	16.8	24.7	28.1
		1200	79.2	75.2	70.2	66.2	64.2	2.1	10.6	20.1	29.6	33.6
		1500	99.0	95.0	90.0	86.0	84.0	2.7	13.2	24.9	36.7	41.7
		1800	118.8	114.8	109.8	105.8	103.8	3.3	16.0	30.1	44.1	50.1
T6D-024 T6D-B24	79.5	1000	79.5	75.5	70.5	66.5	64.5	1.9	10.5	20.0	29.4	33.5
		1200	95.4	91.4	86.4	82.4	80.4	2.2	12.5	23.9	35.2	40.1
		1500	119.3	115.3	110.3	106.3	104.3	2.9	15.6	29.7	43.7	49.8
		1800	143.1	139.1	134.1	130.1	128.1	3.6	18.8	35.7	52.6	59.9
T6D-028 T6D-B28	89.7	1000	89.7	85.7	80.7	76.7	74.7	2.0	11.7	22.3	33.0	37.5
		1200	107.6	103.6	98.6	94.6	92.6	2.4	13.9	26.7	39.5	45.0
		1500	134.6	130.6	125.6	121.6	119.6	3.1	17.4	33.2	49.1	55.9
		1800	161.5	157.5	152.5	148.5	146.5	3.8	21.0	40.0	59.0	67.2
T6D-031 T6D-B31	98.3	1000	98.3	94.3	89.3	85.3	83.3	2.1	12.7	24.3	36.0	41.0
		1200	118.0	114.0	109.0	105.0	103.0	2.5	15.1	29.1	43.1	49.1
		1500	147.5	143.5	138.5	134.5	132.5	3.2	18.9	36.2	53.6	61.1
		1800	176.9	172.9	167.9	163.9	161.9	4.0	22.8	43.6	64.5	73.4
T6D-035 T6D-B35	111.0	1000	111.0	107.0	102.0	98.0	96.0	2.3	14.2	27.3	40.5	46.1
		1200	133.2	129.2	124.2	120.2	118.2	2.7	16.9	32.7	48.5	55.2
		1500	166.5	162.5	157.5	153.5	151.5	3.4	21.1	40.7	60.3	68.7
		1800	199.8	195.8	190.8	186.8	184.8	4.2	25.4	49.0	72.5	82.5
T6D-038 T6D-B38	120.3	1000	120.3	116.3	111.3	107.3	105.3	2.4	15.2	29.5	43.7	49.8
		1200	144.4	140.4	135.4	131.4	129.4	2.8	18.2	35.3	52.4	59.7
		1500	180.5	176.5	171.5	167.5	165.5	3.6	22.7	43.9	65.2	74.3
		1800	216.5	212.5	207.5	203.5	201.5	4.4	27.4	52.9	78.3	89.2
T6D-042 T6D-B42	136.0	1000	136.0	132.0	127.0	123.0	121.0	2.6	17.1	33.1	49.2	56.1
		1200	163.2	159.2	154.2	150.2	148.2	3.0	20.4	39.7	59.0	67.2
		1500	204.0	200.0	195.0	191.0	189.0	3.9	25.5	49.4	73.4	83.7
		1800	244.8	240.8	235.8	231.8	229.8	4.8	30.7	59.5	88.2	100.5
T6D-045 T6D-B045	145.7	1000	145.7	141.7	136.7	132.7	130.7	2.7	18.2	35.4	52.6	59.9
		1200	174.8	170.8	165.8	161.8	159.8	3.2	21.7	42.4	63.0	71.9
		1500	218.6	214.6	209.6	205.6	203.6	4.0	27.2	52.8	78.5	89.5
		1800	262.3	258.3	253.3	249.3	247.3	5.0	32.7	63.5	94.3	107.5
T6D-050* T6D-B50	158.0	1000	158.0	154.0	149.0	145.0	-	2.8	19.6	38.3	56.9	-
		1200	189.6	185.6	180.6	176.6	-	3.3	23.5	45.8	68.2	-
		1500	237.0	233.0	228.0	224.0	-	4.3	29.3	57.1	85.0	-
		1800	284.4	280.4	275.4	271.4	-	5.2	35.3	68.7	102.1	-
T6D-61 T6D-B61	189.5	1500	284.8	271.8	-	-	-	5.2	40.8	-	-	-
050 * 最大间歇压力21MPa The max intermittent pressure is 21MPa												

工作性能/Operation Performance

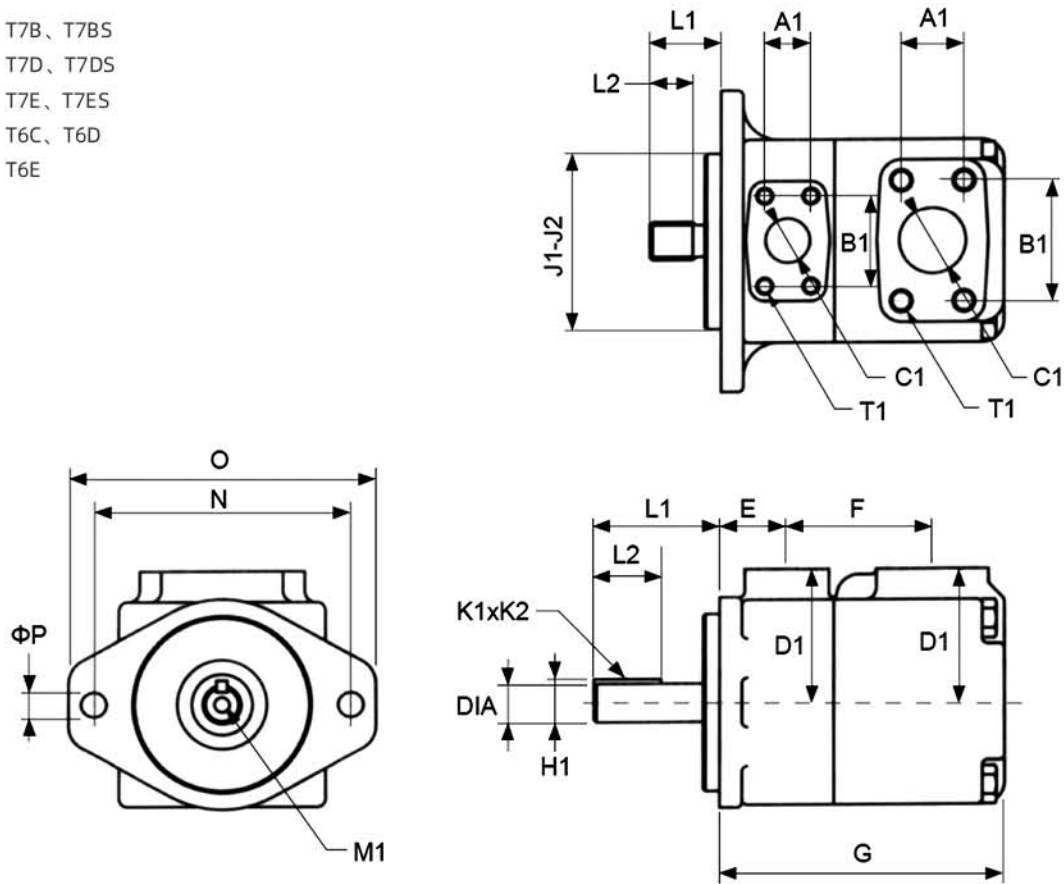
使用抗磨液压油，油液粘度24cst时。Using the anti-wear hydraulic oil, the oil viscosity 24cst.

系列 Series	理论排量 Geological Displaceme-nt mL/rev	转速 Rotation speed r/min	流量/Flow (L/min)					输入功率 /Input Power (KW)				
			P=0 MPa	P=7 MPa	P=14 MPa	P=21 MPa	P=24 MPa	P=0 MPa	P=7 MPa	P=14 MPa	P=21 MPa	P=24 MPa
			L/min	L/min	L/min	L/min	L/min	KW	KW	KW	KW	KW
T6E-042	132.3	1000	132.3	127.3	122.3	117.3	115.3	3.3	17.4	33.0	48.5	55.2
		1200	158.8	153.8	148.8	143.8	141.8	4.0	20.8	39.5	58.3	66.3
		1500	198.5	193.5	188.5	183.5	181.5	5.2	26.2	49.4	72.7	82.7
		1800	238.1	233.1	228.1	223.1	221.1	6.4	31.5	59.4	87.3	99.4
T6E-045	142.4	1000	142.4	137.4	132.4	127.4	125.4	3.5	18.6	35.3	52.1	59.3
		1200	170.9	165.9	160.9	155.9	153.9	4.1	22.2	42.4	62.5	71.2
		1500	213.6	208.6	203.6	198.6	196.6	5.4	27.9	52.9	78.0	88.8
		1800	256.3	251.3	246.3	241.3	239.3	6.6	33.6	63.7	93.7	106.6
T6E-050	158.5	1000	158.5	153.5	148.5	143.5	141.5	3.6	20.4	39.1	57.7	65.7
		1200	190.2	185.2	180.2	175.2	173.2	4.3	24.5	46.9	69.3	78.9
		1500	237.8	232.8	227.8	222.8	220.8	5.7	30.7	58.6	86.5	98.4
		1800	285.3	280.3	275.3	270.3	268.3	6.9	37.0	70.4	103.9	118.2
T6E-052	164.8	1000	164.8	159.8	154.8	149.8	147.8	3.7	21.2	40.6	59.9	68.2
		1200	197.8	192.8	187.8	182.8	180.8	4.4	25.4	48.6	71.9	81.9
		1500	247.2	242.2	237.2	232.2	230.2	5.8	31.8	60.8	89.8	102.2
		1800	296.6	291.6	286.6	281.6	279.6	7.1	38.3	73.1	107.8	122.8
T6E-057	179.8	1000	179.8	174.8	169.8	164.8	162.8	3.9	22.9	44.1	65.2	74.2
		1200	215.8	210.8	205.8	200.8	198.8	4.6	27.5	52.8	78.2	89.1
		1500	269.7	264.7	259.7	254.7	252.7	6.0	34.5	66.0	97.6	111.2
		1800	323.6	318.6	313.6	308.6	306.6	7.4	41.5	79.4	117.3	133.6
T6E-062	196.7	1000	196.7	191.7	186.7	181.7	179.7	4.1	24.9	48.0	71.1	81.0
		1200	236.0	231.0	226.0	221.0	219.0	4.9	29.8	57.6	85.3	97.2
		1500	295.1	290.1	285.1	280.1	278.1	6.3	37.4	71.9	106.5	121.3
		1800	354.1	349.1	344.1	339.1	337.1	7.7	45.0	86.5	127.9	145.7
T6E-066	213.3	1000	213.3	208.3	203.3	198.3	196.3	4.3	26.8	51.9	76.9	87.6
		1200	256.0	251.0	246.0	241.0	239.0	5.1	32.2	62.2	92.3	105.2
		1500	320.0	315.0	310.0	305.0	303.0	6.6	40.3	77.8	115.2	131.3
		1800	383.9	378.9	373.9	368.9	366.9	8.1	48.5	93.4	138.4	157.7
T6E-072	227.1	1000	227.1	222.1	217.1	212.1	210.1	4.4	28.4	55.1	81.7	93.1
		1200	272.5	267.5	262.5	257.5	255.5	5.3	34.1	66.1	98.1	111.8
		1500	340.7	335.7	330.7	325.7	323.7	6.9	42.7	82.6	122.5	139.6
		1800	408.8	403.8	398.8	393.8	391.8	8.4	51.4	99.2	147.1	167.6
T6E-085*	269	1000	269.0	264.0	-	-	-	4.9	33.3	-	-	-
		1200	322.8	317.8	-	-	-	5.9	40.0	-	-	-
		1500	403.5	398.5	-	-	-	7.6	50.1	-	-	-
		1800	484.2	479.2	-	-	-	9.2	60.2	-	-	-

085 * 最大转速2000r/min，最大间歇压力9MPa
The max rotation speed is 2000r/min, and the max intermittent pressure is 9MPa

安装连接尺寸/Installation Dimensions

T7B、T7BS
T7D、T7DS
T7E、T7ES
T6C、T6D
T6E



	T7B	T7BS	T7D	T7DS	T7E	T7ES	T6C	T6D	T6E
E	38.10	38.10	38.10	38.10	52.30	52.30	38.10	38.10	52.30
F	82.30	82.30	87.40	87.40	110.00	110.00	82.30	87.40	110.00
G	168.50	168.50	184.90	184.90	225.30	225.30	161.60	184.90	225.30
J1	100.00	101.60	125.00	127.00	125.00	127.00	101.60	127.00	127.00
J2	99.967	101.550	124.937	126.950	124.937	126.950	101.550	126.950	126.950
N	140.00	146.00	180.00	181.00	180.00	181.00	146.10	181.00	181.00
O	174.50	174.50	212.40	212.40	213.00	213.00	174.50	212.40	213.00
ΦP	14.00	14.30	18.00	17.50	18.00	17.50	14.30	17.50	17.50

安装连接尺寸 / Installation Dimensions

轴伸 Shaft extension

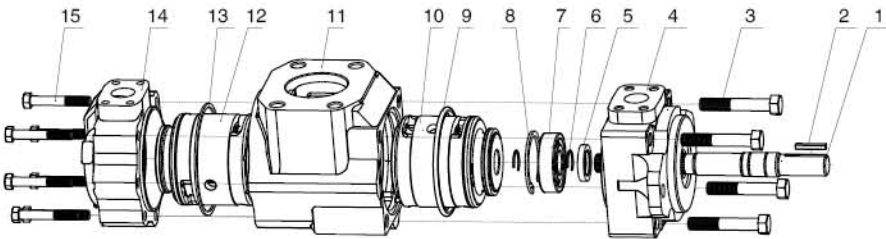
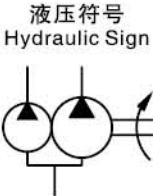
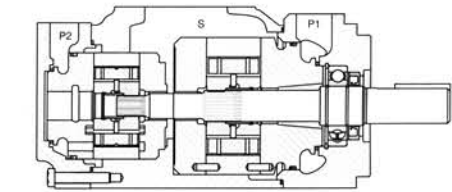
型号 Model	轴伸代号 Shaft code	最大扭矩 Max torque (N.m)	L1	L2	DIA	K1xK2	H1	M1
T7B	2	●	70.0	40.0	25.0065/24.9935	8.00x7.00	28.22	—
T7BS	1	●	71.4	38.1	22.225/22.200	6.35x6.30	24.95	M8x16
	3	●	40.7	24.5	SAE J498b 1级Class, 径节Diameter Pitch 16/32, 13牙Teeth			—
	4	●	45.5	24.5	SAE J498b 1级Class, 径节Diameter Pitch 16/32, 15牙Teeth			—
T7D	5	●	87.4	50.0	32.018/32.002	10.00x8.00	36.3	M10x20
T7DS	1	●	83.6	49.3	31.750/31.700	7.94x7.89	35.27	M10x20
	2	●	73.2	38.1	31.750/31.700	7.94x7.89	35.27	—
	3	●	55.2	38.0	SAE J498b 1级Class, 径节Diameter Pitch 12/24, 14牙Teeth			—
	4	●	77.7	48.0	SAE J498b 1级Class, 径节Diameter Pitch 12/24, 14牙Teeth			—
T7E	5	●	90.0	60.0	38.018/38.002	10.00x8.00	41.3	M10x20
T7ES	1	●	90.9	50.8	38.100/38.050	9.52x9.47	42.36	M10x20
	2	●	61.9	38.1	31.750/31.700	7.94x7.89	35.27	—
	3	●	55.2	38.0	SAE J498b 1级Class, 径节Diameter Pitch 12/24, 14牙Teeth			—
	4	●	62.2	31.5	SAE J498b 1级Class, 径节Diameter Pitch 12/24, 17牙Teeth			—
T6C	1	275	71.4	38.1	22.225/22.200	6.35x6.30	24.95	M8x16
	2	238	58.2	31.7	22.225/22.200	4.76x4.71	24.53	—
	3	343	40.7	24.5	SAE J498b 1级Class, 径节Diameter Pitch 16/32, 13牙Teeth			—
	4	●	45.5	24.5	SAE J498b 1级Class, 径节Diameter Pitch 16/32, 15牙Teeth			—
T6D	1	●	83.6	49.3	31.750/31.700	7.94x7.89	35.27	M10x20
	2	577	73.2	38.1	31.750/31.700	7.94x7.89	35.27	—
	3	●	55.2	38.0	SAE J498b 1级Class, 径节Diameter Pitch 12/24, 14牙Teeth			—
	4	●	77.7	48.0	SAE J498b 1级Class, 径节Diameter Pitch 12/24, 14牙Teeth			—
T6E	1	●	90.9	50.8	38.100/38.050	9.52x9.47	42.36	M10x20
	2	577	61.9	38.1	31.750/31.700	7.94x7.89	35.27	—
	3	●	55.2	38.0	SAE J498b 1级Class, 径节Diameter Pitch 12/24, 14牙Teeth			—
	4	●	62.2	31.5	SAE J498b 1级Class, 径节Diameter Pitch 12/24, 17牙Teeth			—

- 能在最大流量, 最高压力下工作。
Work at maximum flow and pressure.

安装连接尺寸 / Installation Dimensions

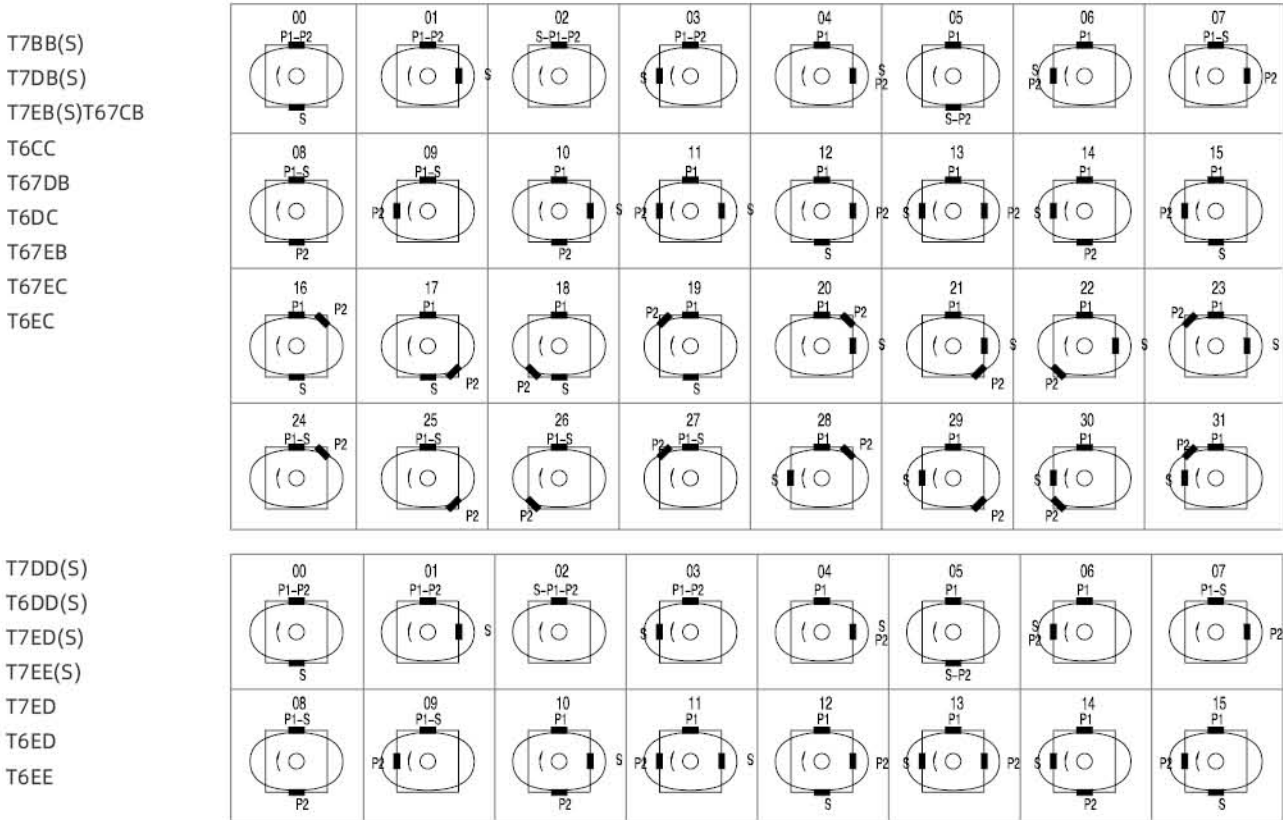
油口/Oil port			法兰 Flange	安装尺寸/Install Dimensions(mm)				
				A1	B1	ΦC1	D1	T1口螺纹Thread
T7B, T7BS	P	01: 3/4"	F06	22.2	47.6	19.0	76.2	3/8"-16UNCx19.0
	P	00: 1"	F08	26.2	52.4	25.4	76.2	3/8"-16UNCx19.0
	S	1-1/2"	F12	35.7	69.9	38.1	76.2	1/2"-13UNCx22.4
T7D, T7DS	P	1-1/4"	F10	30.2	58.7	31.8	82.6	7/16"-14UNCx22.3
	S	2"	F16	42.9	77.8	50.8	82.6	1/2"-13UNCx23.9
T7E, T7ES	P	1-1/2"	F12	35.7	69.9	38.1	98.6	1/2"-13UNCx23.4
	S	3"	F24	61.9	106.4	76.2	98.6	5/8"-11UNC x 24
T6C	P	1"	F08	26.2	52.4	25.4	76.2	3/8"-16UNCx19.0
	S	1-1/2"	F12	35.7	69.9	38.1	76.2	1/2"-13UNCx22.4
T6D	P	1-1/4"	F10	30.2	58.7	31.8	82.6	7/16"-14UNCx22.3
	S	2"	F16	42.9	77.8	50.8	82.6	1/2"-13UNCx23.9
T6E	P	1-1/2"	F12	35.7	69.9	38.1	98.6	1/2"-13UNCx23.4
	S	3"	F24	61.9	106.4	76.2	98.6	5/8"-11UNCx24.0

T6, T67, T7 系列双联泵
 Series-double Pumps



序号 NO.	名称 Part	数量 Qty	序号 NO.	名称 Part	数量 Qty	序号 NO.	名称 Part	数量 Qty
1	轴 shaft	1	6	轴用钢丝挡圈 cir clip for shaft	2	11	中泵体middle body	1
2	平键 straight key	1	7	滚动轴承 ball bearing	1	12	后泵芯 rear cartridge	1
3	外六角螺栓 Hexagon head bolt	4	8	孔用弹性挡圈 cir clip for hole	1	13	矩形密封圈 rectangle seal ring	1
4	前盖 front cover	1	9	矩形密封圈 rectangle seal ring	1	14	后盖 rear cover	1
5	油封 shaft seal	1	10	前泵芯 front cartridge	1	15	外六角螺栓 Hexagon head bolt	4

油口位置(从泵的轴端看) / Port positions(Viewed from shaft end of pump)

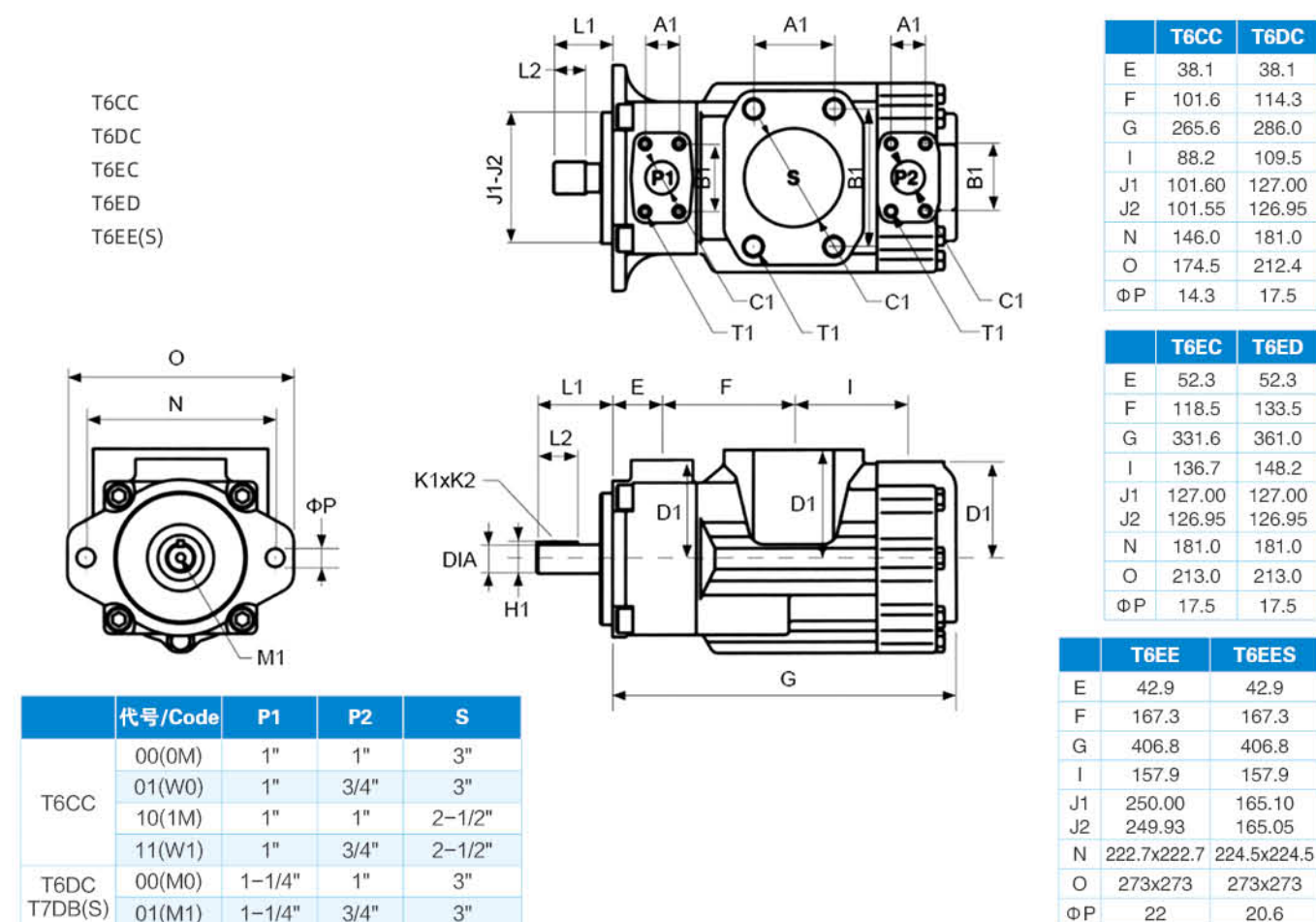


型号说明 / Model Designation

T6CC	S	W	-025	-017	-1	R	02	-C	1	10
系列号 Series	类别代号 Type Code	辅助类别代号 Vice Type Code	轴端泵排量代号 Flow-shaft end Pump	盖端泵排量代号 Flow-cover end pump	轴伸形式 Shaft type	旋转方向 Rotation	油口位置 Port positions	设计号 Design number	密封等级 Sealing Level	油口尺寸 Port dimensions
T7BB	无: 采用 ISO 3019 安装法兰 NO: USE ISO 3019 Installation Flange S: 采用 SAE C J744 安装法兰 S: USE SAE C J744 installation flange	无此项 NO	B02, B03, B04, B05, B06, B07, B08, B10, B12, B15, B20	B02, B03, B04, B05, B06, B07, B08, B10, B12, B15, B20						00, 01, M0, M1 见安装连接尺寸 See installation dimensions
T7DB			B14, B17, B20, B22, B24, B28, B31, B35, B38, B42	B02, B03, B04, B05, B06, B07, B08, B10, B12, B15						00, 01, M1, M0 见安装连接尺寸 See installation dimensions
T6DD			B14, B17, B20, B24, B28, B31, B35, B38, B42, B45, B50, B61	B14, B17, B20, B24, B28, B31, B35, B38, B42, B45, B50, B61						无此选项 No
T7DD			B14, B17, B20, B22, B24, B28, B31, B35, B38, B42	B14, B17, B20, B22, B24, B28, B31, B35, B38, B42						
T7EB			042, 045, 050, 052, 054, 057, 062, 066, 072, 085	B02, B03, B04, B05, B06, B07, B08, B10, B12, B15, B20						
T7ED			042, 045, 050, 052, 054, 057, 062, 066, 072, 085	B14, B17, B20, B22, B24, B28, B31, B35, B38, B42						
T7EE			042, 045, 050, 052, 054, 057, 062, 066, 072, 085	042, 045, 050, 052, 054, 057, 062, 066, 072, 085						
T67CB	无: 工业用型 M: 车用型 P: 车用型 双重油封 NO: industrial type M: truck type P: truck type double seal kits	W: 重型轴 Heavy str keyed shaft	003/B03, 005/B05, 006/B06, 008/B08, 010/B10, 012/B12, 014/B14, 017/B17, 020/B20, 022/B22, 025/B25, 028/B28, 031/B31	B02, B03, B04, B05, B06, B07, B08, B10, B12, B15	从泵的轴端看 Viewed from shaft end of pump R-顺时针 旋转 right hand for clockwise L-逆时针 旋转 left hand for counter- clockwise	见轴伸尺寸 See size of shaft	见下图 see picture below	C	1-S1, 丁晴橡胶 (Buna) NBR Nitrile rubber 5-S5, 氟橡胶 (Viton) Fluororubber	00, 01, M0, M1 见安装连接尺寸 See installation dimensions
T6CC			003/B03, 005/B05, 006/B06, 008/B08, 010/B10, 012/B12, 014/B14, 017/B17, 020/B20, 022/B22, 025/B25, 028/B28, 031/B31	003/B03, 005/B05, 006/B06, 008/B08, 010/B10, 012/B12, 014/B14, 017/B17, 020/B20, 022/B22, 025/B25, 028/B28, 031/B31						00, 01, 10, 11, M0, M1, W0, W1 见安装连接尺寸 See installation dimensions
T67DB			014/B14, 017/B17, 020/B20, 024/B24, 028/B28, 031/B31, 035/B35, 038/B38, 042/B42, 045/B45, 050/B50, 061	B02, B03, B04, B05, B06, B07, B08, B10, B12, B15, B20						无此选项 No
T67DC			B14, B17, B20, B22, B24, B28, B31, B35, B38, B42	003/B03, 005/B05, 006/B06, 008/B08, 010/B10, 012/B12, 014/B14, 017/B17, 020/B20, 022/B22, 025/B25, 028/B28, 031/B31						
T6DC			014/B14, 017/B17, 020/B20, 024/B24, 028/B28, 031/B31, 035/B35, 038/B38, 042/B42, 045/B45, 050/B50, 061	003/B03, 005/B05, 006/B06, 008/B08, 010/B10, 012/B12, 014/B14, 017/B17, 020/B20, 022/B22, 025/B25, 028/B28, 031/B31						
T67EB			042, 045, 050, 052, 057, 062, 066, 072, 085	B02, B03, B04, B05, B06, B07, B08, B10, B12, B15, B20						
T6EC			042, 045, 050, 052, 057, 062, 066, 072, 085	003/B03, 005/B05, 006/B06, 008/B08, 010/B10, 012/B12, 014/B14, 017/B17, 020/B20, 022/B22, 025/B25, 028/B28, 031/B31						
T67EC			042, 045, 050, 052, 057, 062, 066, 072, 085	003/B03, 005/B05, 006/B06, 008/B08, 010/B10, 012/B12, 014/B14, 017/B17, 020/B20, 022/B22, 025/B25, 028/B28, 031/B31						
T6ED			042, 045, 050, 052, 057, 062, 066, 072, 085	014/B14, 017/B17, 020/B20, 024/B24, 028/B28, 031/B31, 035/B35, 038/B38, 042/B42, 045/B45, 050/B50, 061						
T6EE			042, 045, 050, 052, 057, 062, 066, 072, 085	042, 045, 050, 052, 057, 062, 066, 072, 085						

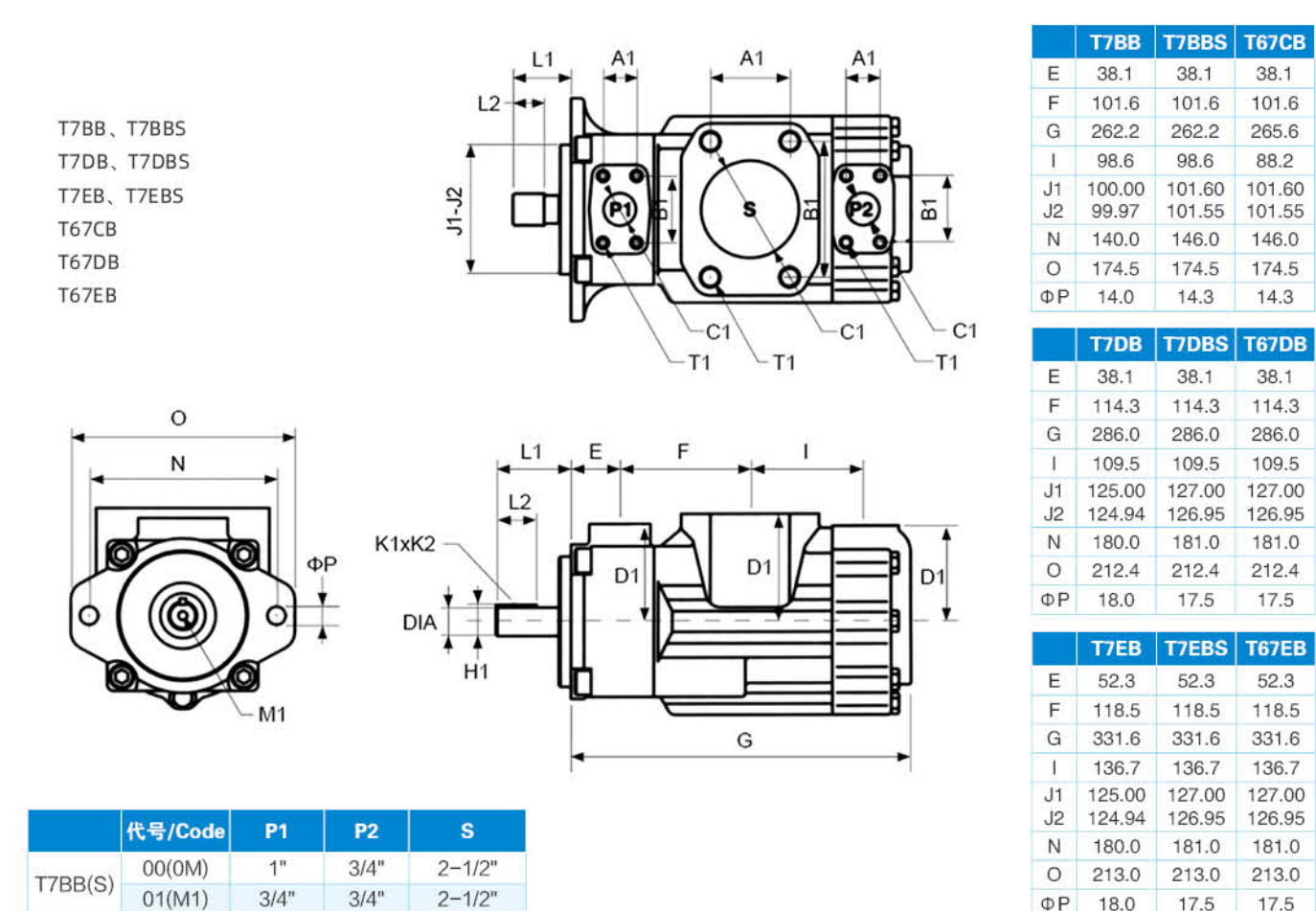
003/B03 排量代号中0表示单转向型配流侧板结构, B表示双转向型配流侧板结构;与相应系列、规格的T6单泵性能参数一致, 详见T6系列单泵的性能参数 In displacement code, 0 means single steering valve plate structure, B means the two steering valve plate structure. The data of relevant series ,model are unanimous.Please see T6 series-single pumps data

安装连接尺寸/Installation Dimensions



油口/Oil port			法兰 Flange	安装尺寸/Install Dimensions(mm)					
				A1	B1	ΦC1	D1	T1口螺纹Thread	
T6CC	P1	1"	F08	26.2	52.4	25.4	76.2	3/8"–16UNCx19.0 (M10x19)	
		3/4"	F06	22.2	47.6	19.0	76.2	3/8"–16UNCx19.0(M10x19)	
	P2	1"	F08	26.2	52.4	25.4	74.7		
		S	2–1/2"	F20	50.8	88.9	63.5	84.1	1/2"–13UNCx23.9(M12x24)
			3"	F24	61.9	106.4	76.2	84.1	5/8"–11UNCx28.4(M16x28)
T6DC	P1	1–1/4"	F10	30.2	58.7	31.8	82.6	7/16"–14UNCx22.3(M12x22)	
		3/4"	F06	22.2	47.6	19.0	74.7	3/8"–16UNCx19.0(M10x19)	
	P2	1"	F08	26.2	52.4	25.4	74.7		
		S	3"	F24	61.9	106.4	76.2	88.9	5/8"–11UNCx28.4(M16x28.4)
T6EC	P1	1–1/2"	F12	35.7	69.9	38.1	98.6	1/2"–13UNCx23.4	
	P2	1"	F08	26.2	52.4	25.4	74.7	3/8"–16UNCx19.0	
	S	3–1/2"	F28	69.9	120.7	88.9	102.4	5/8"–11UNCx29.5	
T6ED	P1	1–1/2"	F12	35.7	69.9	38.1	98.6	1/2"–13UNCx23.4	
	P2	1–1/4"	F10	30.2	58.7	31.8	101.6	7/16"–14UNCx24.0	
	S	4"	F32	77.8	130.2	101.6	102.4	5/8"–11UNCx30.0	
T6EE(S)	P1	1–1/2"	F12	35.7	69.9	38.1	139.7	1/2"–13UNCx30	
	P2	1–1/2"	F12	35.7	69.9	37.1	98.6	1/2"–13UNCx23.4	
	S	4"	F32	77.8	130.2	101.6	115	5/8"–11UNCx30	

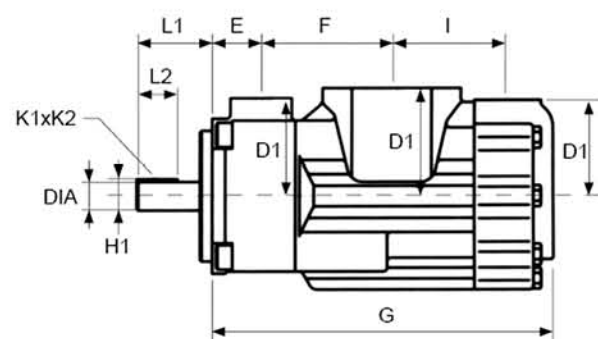
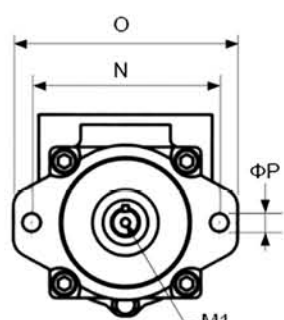
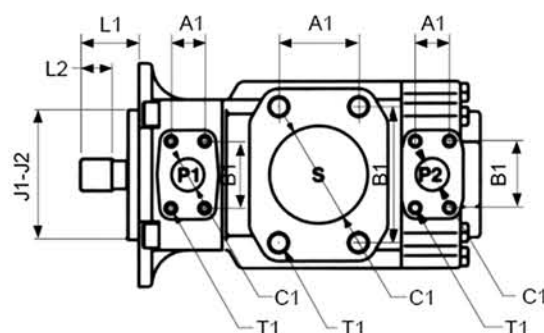
安装连接尺寸/Installation Dimensions



油口/Oil port			法兰 Flange	安装尺寸/Install Dimensions(mm)				
				A1	B1	ΦC1	D1	T1口螺纹Thread
T7BB(S)	P1	1"	F08	26.2	52.4	25.4	76.2	3/8"-16UNCx19.0 (M10x19)
		3/4"	F06	22.2	47.6	19.0	76.2	
	P2	3/4"	F06	22.2	47.6	19.0	76.2	3/8"-16UNCx19.0(M10x19)
	S	2-1/2"	F20	50.8	88.9	63.5	84.1	1/2"-13UNCx23.9(M12x24)
T7DB(S)	P1	1-1/4"	F10	30.2	58.7	31.8	82.6	7/16"-14UNCx22.3(M12x22)
		3/4"	F06	22.2	47.6	19.0	74.7	
	P2	1"	F08	26.2	52.4	25.4	74.7	3/8"-16UNCx19.0(M10x19)
		3"	F24	61.9	106.4	76.2	88.9	
T67CB	P1	1"	F08	26.2	52.4	25.4	76.2	3/8"-16UNCx19.0(M10x19)
	P2	3/4"	F06	22.2	47.6	19.0	76.2	3/8"-16UNCx19.0(M10x19)
	S	2-1/2"	F20	50.8	88.9	63.5	84.1	1/2"-13UNCx23.9(M12x30)
T67DB	P1	1-1/4"	F10	30.2	58.7	31.8	82.6	7/16"-14UNCx22.3
	P2	3/4"	F06	22.2	47.6	19.0	76.2	3/8"-16UNCx19.0
	S	3"	F24	61.9	106.4	76.2	88.9	5/8"-11UNC × 29.5
T67EB	P1	1-1/2"	F12	35.7	69.9	38.1	98.6	1/2"-13UNCx23.4
	P2	3/4"	F06	22.2	47.6	19.0	76.2	3/8"-16UNCx19.0
	S	3-1/2"	F28	69.9	120.7	88.9	102.4	5/8"-11UNC × 29.5
T7EB(S)	P1	1-1/2"	F12	35.7	69.9	38.1	98.6	1/2"-13UNCx23.4
	P2	3/4"	F06	22.2	47.6	19.0	74.7	3/8"-16UNCx19.0
	S	3-1/2"	F28	69.9	120.7	88.9	102.4	5/8"-11UNCx29.5

安装连接尺寸 / Installation Dimensions

T6DD(S)
T7DD(S)
T7ED(S)
T7EE(S)
T67DC
T67EC



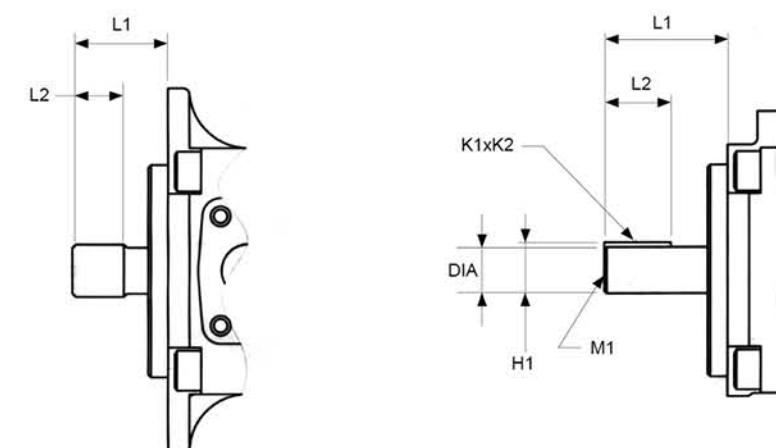
	T6DD T7DD	T6DDS T7DDS	T67DC
E	38.3	38.3	38.1
F	148.3	148.3	114.3
G	347.7	347.7	286.0
I	134.2	134.2	109.5
J1	125.000	127.00	127.00
J2	124.937	126.95	126.95
N	180.0	181.0	181.0
O	213.0	213.0	212.4
ΦP	14.0	14.3	17.5

	T7ED	T7EDS	T67EC
E	52.3	52.3	52.3
F	133.5	133.5	118.5
G	361.0	361.0	331.6
I	148.2	148.2	136.7
J1	125.00	127.00	127.00
J2	124.94	126.95	126.95
N	180.0	181.0	181.0
O	213.0	213.0	213.0
ΦP	18.0	17.5	17.5

	T7EE	T7EES
E	42.9	42.9
F	167.3	167.3
G	406.8	406.8
I	157.9	157.9
J1	250.00	165.10
J2	249.93	165.05
N	222.7x222.7	224.5x224.5
O	273x273	273x273
ΦP	22	20.6

油口/Oil port			法兰 Flange	安装尺寸/Install Dimensions(mm)				
				A1	B1	ΦC1	D1	T1口螺纹 Thread
T6DD(S) T7DD(S)	P1	1-1/4"	F10	30.2	58.7	31.8	101.6	7/16"-14UNCx22.3
	P2	1-1/4"	F10	30.2	58.7	31.8	101.6	7/16"-14UNCx24
	S	4"	F32	77.8	130.2	101.6	114.9	5/8"-11UNCx30
T7ED(S)	P1	1-1/2"	F12	35.7	69.9	37.1	98.6	1/2"-13UNCx23.4
	P2	1-1/4"	F10	30.2	58.7	31.8	101.6	7/16"-14UNCx24
	S	4"	F32	77.8	130.2	101.6	102.4	5/8"-11UNCx30
T7EE(S)	P1	1-1/2"	F12	35.7	69.9	38.1	139.7	M12x30
	P2	1-1/2"	F12	35.7	69.9	37.1	98.6	M12x30
	S	4"	F32	77.8	130.2	101.6	115	M16x30
T67DC	P1	1-1/4"	F10	30.2	58.7	31.8	82.6	7/16"-14UNCx22.3
	P2	1"	F08	26.2	52.4	25.4	74.7	3/8"-16UNCx19.0
	S	3"	F24	61.9	106.4	76.2	88.9	5/8"-11UNCx28.5
T67EC	P1	1-1/2"	F12	35.7	69.9	37.1	98.6	1/2"-13UNCx23.4
	P2	1"	F08	26.2	52.4	25.4	74.7	3/8"-16UNCx19.0
	S	3-1/2"	F28	69.9	120.7	88.9	102.4	5/8"-11UNCx29.5

安装连接尺寸 / Installation Dimensions

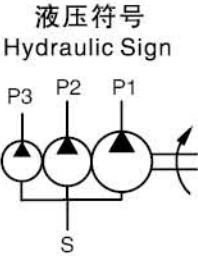
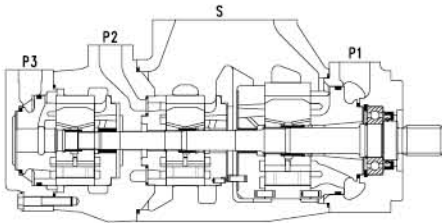


轴伸 / Shaft extension

型号 Model	轴伸尺寸 Shaft code	最大扭矩 Max torque (N.m)	L1	L2	DIA	K1xK2	H1	M1
T7BB	5	●	70.0	40.0	25.006/24.993	8.00x7.00	28.22	-
T7BBS	1	238	58.2	31.7	22.225/22.200	4.76x4.71	24.53	-
	2	357	71.4	38.1	25.400/25.370	6.35x6.30	28.22	M8x16
	3	●	40.7	24.5	SAE J498b class1, 径节Diametral pitch 16/32, 13T			-
	4	●	45.5	24.5	SAE J498b class1, 径节Diametral pitch 16/32, 15T			-
T7DB	5	●	87.9	50.0	32.018/32.002	10.00x8.00	35.0	M10x20
T7DBS	1	●	83.6	49.3	31.75/31.70	7.94x7.89	35.27	M10x20
	2	●	73.2	38.1	31.75/31.70	7.94x7.89	35.27	-
	3	●	55.2	38.0	SAE J498b class1, 径节Diametral pitch 12/24, 14T			-
	4	●	77.7	48.02	SAE J498b class1, 径节Diametral pitch 12/24, 14T			-
T6DD, T7DD	5	●	68.0	50.0	32.018/32.002	10.00x8.00	35.0	M10x20
T6DDS, T7DDS	1	●	84.0	49.3	31.75/31.70	7.94x7.89	35.27	M10x20
	2	●	91.0	50.8	38.10/38.05	9.52x9.47	42.36	M10x20
	3	●	56.0	38.0	SAE J498b class1, 径节Diametral pitch 12/24, 14T			-
	4	●	46.0	24.5	SAE J498b class1, 径节Diametral pitch 16/32, 15T			-
T7EB, T7ED	5	●	90.0	50.0	38.018/38.002	10.00x8.00	41.3	M10x20
T7EBS, T7EDS	1	●	90.9	50.8	38.10/38.05	9.52x9.47	42.36	M10x20
	2	●	61.9	38.1	31.75/31.70	7.94x7.89	35.27	-
	3	●	55.9	38.1	SAE J498b class1, 径节Diametral pitch 12/24, 14T			-
	4	●	62.2	31.5	SAE J498b class1, 径节Diametral pitch 12/24, 17T			-
T6EE, T7EE	2	●	92.0	63.0	45.000/44.975	14.00x9.00	48.5	M12x24
T6EES T7EES	1	●	90.9	63.5	38.100/38.075	9.52x9.47	42.36	M10x20
	3	●	62.2	31.5	SAE J498b class1, 径节Diametral pitch 12/24, 17T			-
	4	●	75.0	48.8	SAE J498b class1, 径节Diametral pitch 8/16, 13T			-
T67CB, T6CC	1	238	58.2	31.7	22.225/22.200	4.76x4.71	24.53	-
	2	357	71.4	38.1	25.400/25.370	6.35x6.30	28.22	M8x16
	3	545	45.5	24.5	SAE J498b class1, 径节Diametral pitch 16/32, 15T			-
	5	343	40.7	24.5	SAE J498b class1, 径节Diametral pitch 16/32, 13T			-
T67DB, T67DC, T6DC	1	721	83.6	49.3	31.750/31.700	7.94x7.89	35.27	M10x20
	2	577	73.2	38.1	31.750/31.700	7.94x7.89	35.27	-
	3	●	55.2	38.0	SAE J498bclass1, 径节Diametral pitch 12/24, 14T			-
	4	●	77.7	48.0	SAE J498b class1, 径节Diametral pitch 12/24, 14T			-
	5	●	83.4	60.0	34.900/34.875	7.94x7.89	38.42	M8x16
T67EB, T67EC, T6EC, T6ED	1	●	90.9	50.8	38.100/38.050	9.52x9.47	42.36	M10x20
	2	577	61.9	38.1	31.750/31.700	7.94x7.89	35.27	-
	3	●	55.7	38.0	SAE J498b class1, 径节Diametral pitch 12/24, 14T			-
	4	●	62.2	31.5	SAE J498bclass1, 径节Diametral pitch 12/24, 17T			-

● 能在最大流量，最高压力下工作
Work at maximum flow and pressure.

T6, T67, T7 系列三联泵
Series-treble Pumps



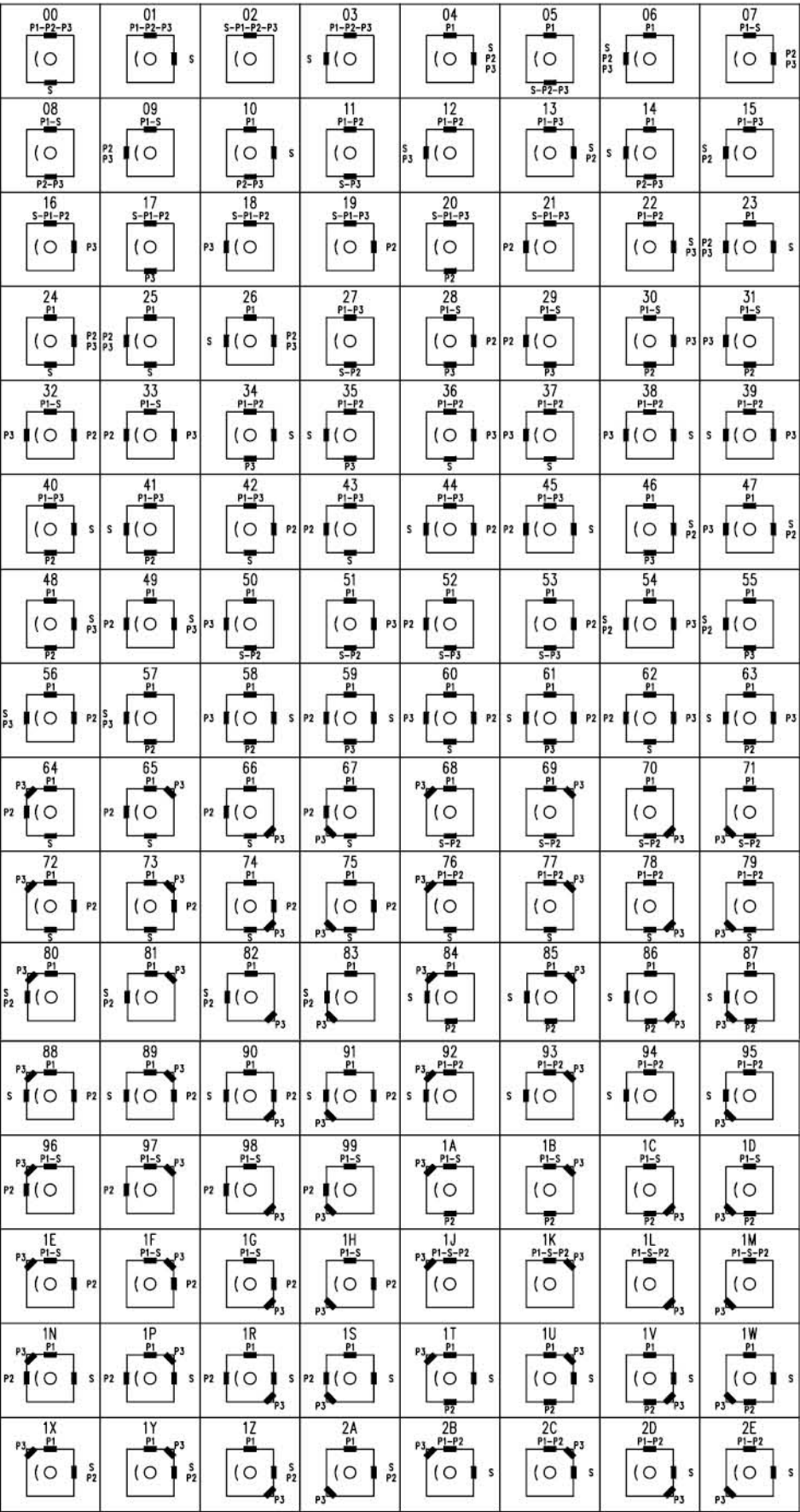
型号说明 / Model Designation

T6DCC	(M)	-042	-017	-010	-1	R	02	-A	1	01
系列号 Series	类别代号 Type Code	轴端泵排量代号 Flow-shaft end Pump	中间泵排量代号 Flow-mid pump	盖端泵排量代号 Flow-cover end pump	轴伸形式 Shaft type	旋转方向 Rotation	油口位置 Port positions	设计号 Design number	密封等级 Sealing Level	油口尺寸 Port dimensions
T67DBB(S)	无: 工业用型 M: 车用型 S: 车用型 采用SAE J744c 安装法兰	014/B14, 017/B17, 020/B20, 024/B24, 028/B28, 031/B31, 035/B35, 038/B38, 042/B42, 045/B45, 050/B50, 061	B02, B03, B04, B05, B06, B07, B08, B10, B12, B15, B20	B02, B03, B04, B05, B06, B07, B08, B10, B12, B15, B20	从泵的轴端看 R-顺时针旋转 L-逆时针旋转 见轴伸尺寸 See size of shaft	R-顺时针旋转 L-逆时针旋转 Viewed from shaft end of pump R-right hand for clockwise L-left hand for counter-clockwise	见下图 see picture below	A	1-S1, 丁腈橡胶 (Buna) NBR Nitrile rubber 5-S5, 氟橡胶 (Viton) Fluororubber	无此选项 NO
T67DCB(S)		014/B14, 017/B17, 020/B20, 024/B24, 028/B28, 031/B31, 035/B35, 038/B38, 042/B42, 045/B45, 050/B50, 061	003/B03, 005/B05, 006/B06, 008/B08, 010/B10, 012/B12, 014/B14, 017/B17, 020/B20, 022/B22, 025/B25, 028/B28, 031/B31	B02, B03, B04, B05, B06, B07, B08, B10, B12, B15, B20						无此选项 NO
T6DCC		014/B14, 017/B17, 020/B20, 024/B24, 028/B28, 031/B31, 035/B35, 038/B38, 042/B42, 045/B45, 050/B50, 061	003/B03, 005/B05, 006/B06, 008/B08, 010/B10, 012/B12, 014/B14, 017/B17, 020/B20, 022/B22, 025/B25, 028/B28, 031/B31	003/B03, 005/B05, 006/B06, 008/B08, 010/B10, 012/B12, 014/B14, 017/B17, 020/B20, 022/B22, 025/B25, 028/B28, 031/B31						00、01, 见安装连接尺寸 See installation dimensions
T67DDBS		014/B14, 017/B17, 020/B20, 024/B24, 028/B28, 031/B31, 035/B35, 038/B38, 042/B42, 045/B45, 050/B50, 061	014/B14, 017/B17, 020/B20, 024/B24, 028/B28, 031/B31, 035/B35, 038/B38, 042/B42, 045/B45, 050/B50, 061	B02, B03, B04, B05, B06, B07, B08, B10, B12, B15, B20						无此选项 NO
T6DDC		014/B14, 017/B17, 020/B20, 024/B24, 028/B28, 031/B31, 035/B35, 038/B38, 042/B42, 045/B45, 050/B50, 061	014/B14, 017/B17, 020/B20, 024/B24, 028/B28, 031/B31, 035/B35, 038/B38, 042/B42, 045/B45, 050/B50, 061	003/B03, 005/B05, 006/B06, 008/B08, 010/B10, 012/B12, 014/B14, 017/B17, 020/B20, 022/B22, 025/B25, 028/B28, 031/B31						00、01, 见安装连接尺寸 See installation dimensions
T6EDB(S)	installation flange	042, 045, 050, 052, 057, 062, 066, 072, 085	014/B14, 017/B17, 020/B20, 024/B24, 028/B28, 031/B31, 035/B35, 038/B38, 042/B42, 045/B45, 050/B50, 061	B02, B03, B04, B05, B06, B07, B08, B10, B12, B15, B20						无此选项 NO
T6EDC		042, 045, 050, 052, 057, 062, 066, 072, 085	014/B14, 017/B17, 020/B20, 024/B24, 028/B28, 031/B31, 035/B35, 038/B38, 042/B42, 045/B45, 050/B50, 061	003/B03, 005/B05, 006/B06, 008/B08, 010/B10, 012/B12, 014/B14, 017/B17, 020/B20, 022/B22, 025/B25, 028/B28, 031/B31						00、01, 见安装连接尺寸 See installation dimensions

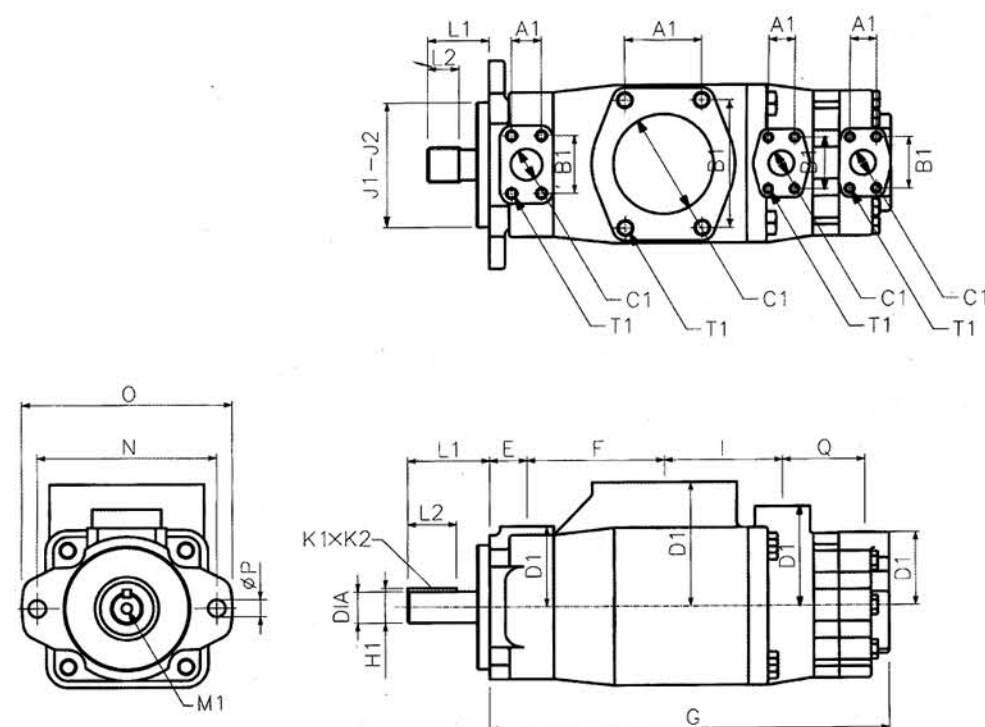
003/B03 排量代号中0表示单转向型配流侧板结构，B表示双转向型配流侧板结构；与相应系列、规格的T6单泵性能参数一致，详见T6系列单泵的性能参数
In displacement code, 0 means single steering valve plate structure, B means the two steering valve plate structure.
The data of relevant series ,model are unanimous.Please see T6 series-single pumps data

油口位置(从泵的轴端看) / Port positions(Viewed from shaft end of pump)

T67DBB(S)
T67DCB(S)
T6DCC
T67DDBS
T6DDC
T6EDB(S)
T6EDC



安装连接尺寸 / Installation Dimensions



T6DCC T67DCB(S) T67DBB(S)	
E	38.1
F	138.0
G	404.0
I	119.3
J1	127.00
J2	126.95
N	181.0
O	212.4
ΦP	17.5
Q	84.4

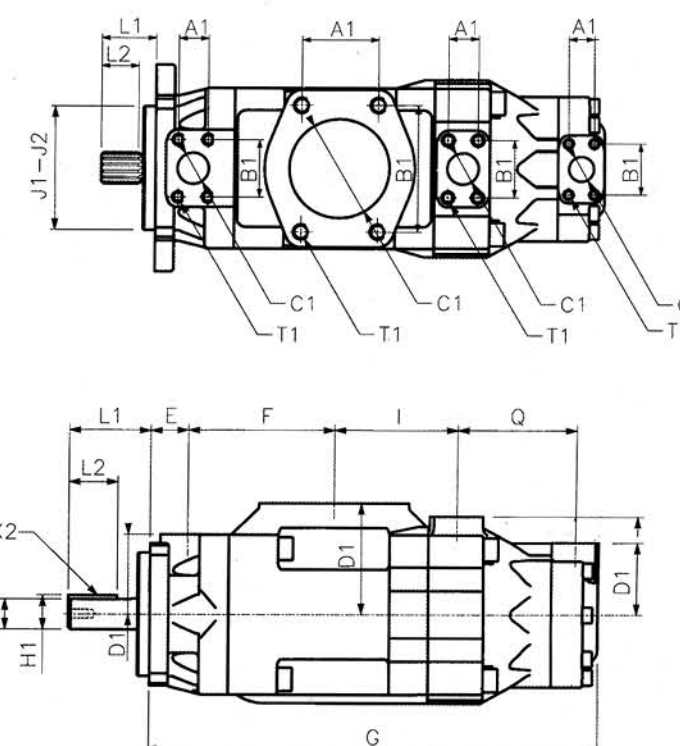
轴伸 / Shaft extension

型号 Model	轴伸代号 Shaft code	最大扭矩 Max torque (N.m)	L1	L2	DIA	K1xK2	H1	M1
T67DBB(S) T67DCB(S) T6DCC	1	721	83.6	49.3	31.750/31.700	6.35x6.30	34.6	—
	2	1108	89.7	50.8	38.100/38.075	9.52x9.47	42.4	—
	3	●	55.2	38.0	SAE J498b 1级class, 径节Diametral pitch 12/24, 14T			—
	4	●	61.0	31.5	SAE J498b 1级class, 径节Diametral pitch 12/24, 17T			—
T6DCC	5	●	76.0	48.0	SAE J498b 1级class, 径节Diametral pitch 12/24, 14T			—

- 能在最大流量, 最高压力下工作。
work at maximum flow and pressure.

油口 / Oil port			法兰 Flange	安装尺寸 / Install Dimensions (mm)				
				A1	B1	ΦC1	D1	T1口螺纹 Thread
T67DBB(S) T67DCB(S)	P1	1-1/4"	F10	30.2	58.7	31.8	82.6	7/16"-14UNCx22.3
	P2	1"	F08	26.2	52.4	25.4	101.6	3/8"-16UNCx19.0
	P3	3/4"	F06	22.2	47.6	19.0	74.7	3/8"-16UNCx19.0
	S	4"	F32	77.8	130.2	101.6	127	5/8"-11UNCx30.0
T6DCC	P1	1-1/4"	F10	30.2	58.7	31.8	82.6	7/16"-14UNCx22.3
	P2	1"	F08	26.2	52.4	25.4	101.6	3/8"-16UNCx19.0
	P3	01: 3/4"	F06	22.2	47.6	19.0	74.7	3/8"-16UNCx19.0
	P3	00: 1"	F08	26.2	52.4	25.4	74.7	3/8"-16UNCx19.0
	S	4"	F32	77.8	130.2	101.6	127	5/8"-11UNCx30.0

安装连接尺寸 / Installation Dimensions



T6DDCS T67DBS	
E	38.1
F	148.5
G	455.0
I	125.0
J1	127.00
J2	126.95
N	181.0
O	213.0
ΦP	17.5
Q	120.0

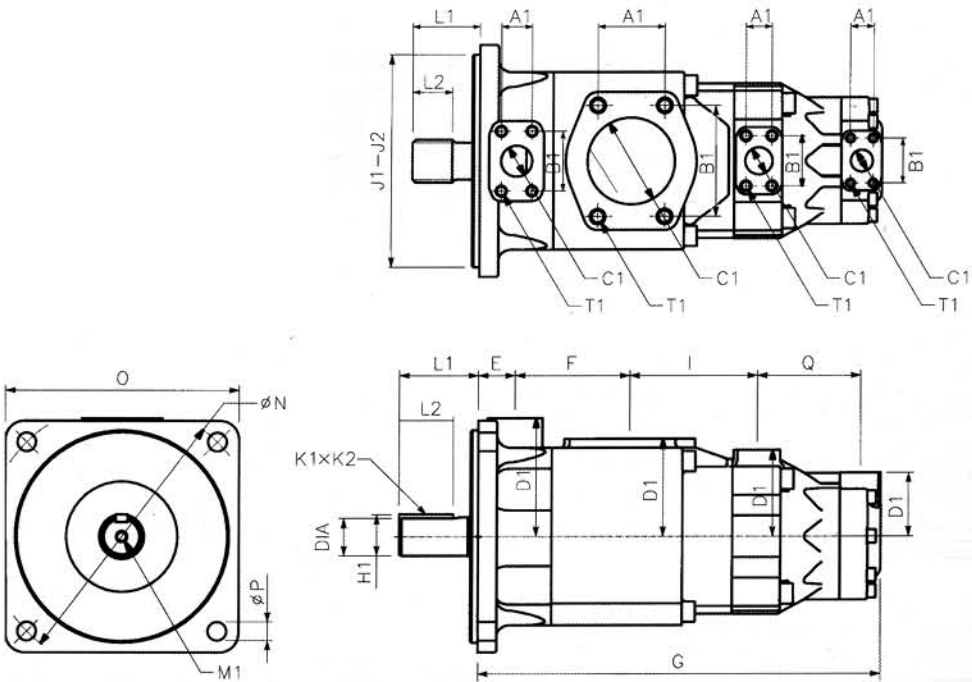
轴伸 / Shaft extension

型号Model	轴伸代号 Shaft code	最大扭矩 Max torque (N.m)	L1	L2	DIA	K1xK2	H1	M1
T67DBS T6DDCS	1	686	84.0	49.3	31.750/31.700	7.94x7.89	35.27	M10x20
	2	1148	91.0	50.8	38.100/38.075	9.52x9.47	42.36	M10x20
	5	883	84.0	60.0	34.900/34.850	7.94x7.89	38.42	M10x20
	3	971	56.0	38.0	SAE J498b 1级class, 径节Diametral pitch 12/24, 14T			—
	4	●	62.0	31.5	SAE J498b 1级class, 径节Diametral pitch 12/24, 17T			—

- 能在最大流量, 最高压力下工作。
work at maximum flow and pressure.

油口 / Oil port			法兰 Flange	安装尺寸 / Install Dimensions (mm)				
				A1	B1	ΦC1	D1	T1口螺纹 Thread
T67DBS	P1	1-1/4"	F10	30.2	58.7	31.8	82.6	7/16"-14UNCx22.3
	P2	1-1/4"	F10	30.2	58.7	31.8	101.6	7/16"-14UNCx24.0
	P3	3/4"	F06	22.2	47.6	19.0	74.7	3/8"-16UNCx19.0
	S	4"	F32	77.8	130.2	101.6	115.0	5/8"-11UNCx30.0
T6DDCS	P1	1-1/4"	F10	30.2	58.7	31.8	82.6	7/16"-14UNCx22.3
	P2	1-1/4"	F10	30.2	58.7	31.8	101.6	7/16"-14UNCx24.0
	P3	01: 3/4"	F06	22.2	47.6	19.0	74.7	3/8"-16UNCx19.0
	P3	00: 1"	F08	26.2	52.4	25.4	74.7	3/8"-16UNCx19.0
	S	4"	F32	77.8	130.2	101.6	115.0	5/8"-11UNCx30.0

安装连接尺寸 / Installation Dimensions



T6EDC	T7EEC
E	42.9
F	133.3
G	468.0
I	148.4
J1	250h8
J2	250h8
ΦN	315.0
O	273.0
ΦP	22.0
Q	120.0

T6EDCS T67EDB(S)	T7EECS
E	42.9
F	133.3
G	468.0
I	148.4
J1	165.10
J2	165.05
ΦN	315.0
O	273.0
ΦP	20.8
Q	120.0

轴伸 Shaft extension

型号Model	轴伸代号 Shaft code	最大扭矩 Max torque (N.m)	L1	L2	DIA	K1xK2	H1	M1
T67EDBS, T6EDC T6EDCS	1	●	92.0	63.0	45h7	14h7x9	48.5	M12x24
T6EDCS	2	●	100.0	63.5	44.45/44.40	11.11x11.06	49.3	1/2-UNCx24
	3	●	75.0	48.8	SAE J498b 1级 class, 径节Diametral pitch8/16, 13T			-
T7EEC(S)	2	●	92.0	63.0	45h7	14h7x9	48.5	M12x24

● 能在最大流量，最高压力下工作。
work at maximum flow and pressure.

油口/Oil port			法兰 Flange	安装尺寸/Install Dimensions(mm)				
				A1	B1	ΦC1	D1	T1口螺纹Thread
T67EDBS	P1	1-1/2"	F12	35.7	69.9	37.1	139.7	1/2"-13UNCx30.0
	P2	1-1/4"	F10	30.2	58.7	31.8	101.6	7/16"-14UNCx24.0
	P3	3/4"	F06	22.2	47.6	19.0	74.7	3/8"-16UNCx19.0
	S	4"	F32	77.8	130.2	101.6	115.0	5/8"-11UNCx30.0
T6EDC T6EDCS	P1	1-1/2"	F12	35.7	69.9	37.1	139.7	1/2"-13UNCx30.0
	P2	1-1/4"	F10	30.2	58.7	31.8	101.6	7/16"-14UNCx24.0
	P3	01: 3/4"	F06	22.2	47.6	19.0	74.7	3/8"-16UNCx19.0
	P3	00: 1"	F08	26.2	52.4	25.4	74.7	3/8"-16UNCx19.0
	S	4"	F32	77.8	130.2	101.6	115.0	5/8"-11UNCx30.0
T7EEC(S)	P1	1-1/2"	F12	35.7	69.9	37.1	139.7	M12x30
	P2	1-1/2"	F12	35.7	69.9	37.1	98.6	M12x30
	P3	1"	F08	26.2	52.4	25.4	74.7	M10x19
	S	4"	F32	77.8	130.2	101.6	115.0	M16x30

T6GC, T7GB, T6GCC, T67GCB, T7GBB 系列柱销式叶片泵 Series-pin Vane Pumps

适用于工程机械特别是行走机械的高压高性能柱销式叶片泵。

主要特点为：

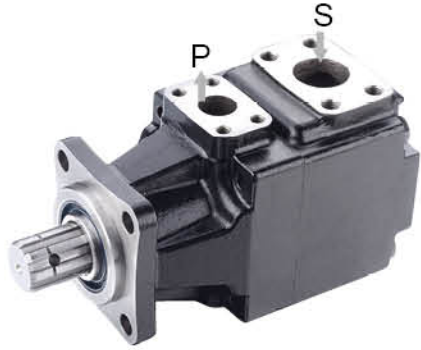
- 1、改进的轴承结构及矩形花键轴设计，可以由发动机或变速箱直接驱动。
- 2、双油封结构，适应行走机械的恶劣环境。
- 3、采用插装式结构，泵芯与T6C及T7B叶片泵泵芯完全互换，维修方便。

The high pressure and high performance pin type vane pump is applicable to engineering machinery, especially to mobile machinery.

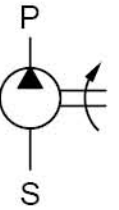
The main features:

- 1.The improved bearing structure and rectangle spline shaft design can be driven by motor or gearbox directly.
- 2.Double shaft seal structure, is fit for bad situations of mobile machinery.
- 3.Adopt insert structure, the cartridge kit of T6C and T7B can be interchangeable completely, very convenient for repair.

T6GC, T7GB 系列单泵 Series-single pumps



液压符号
Hydraulic Sign



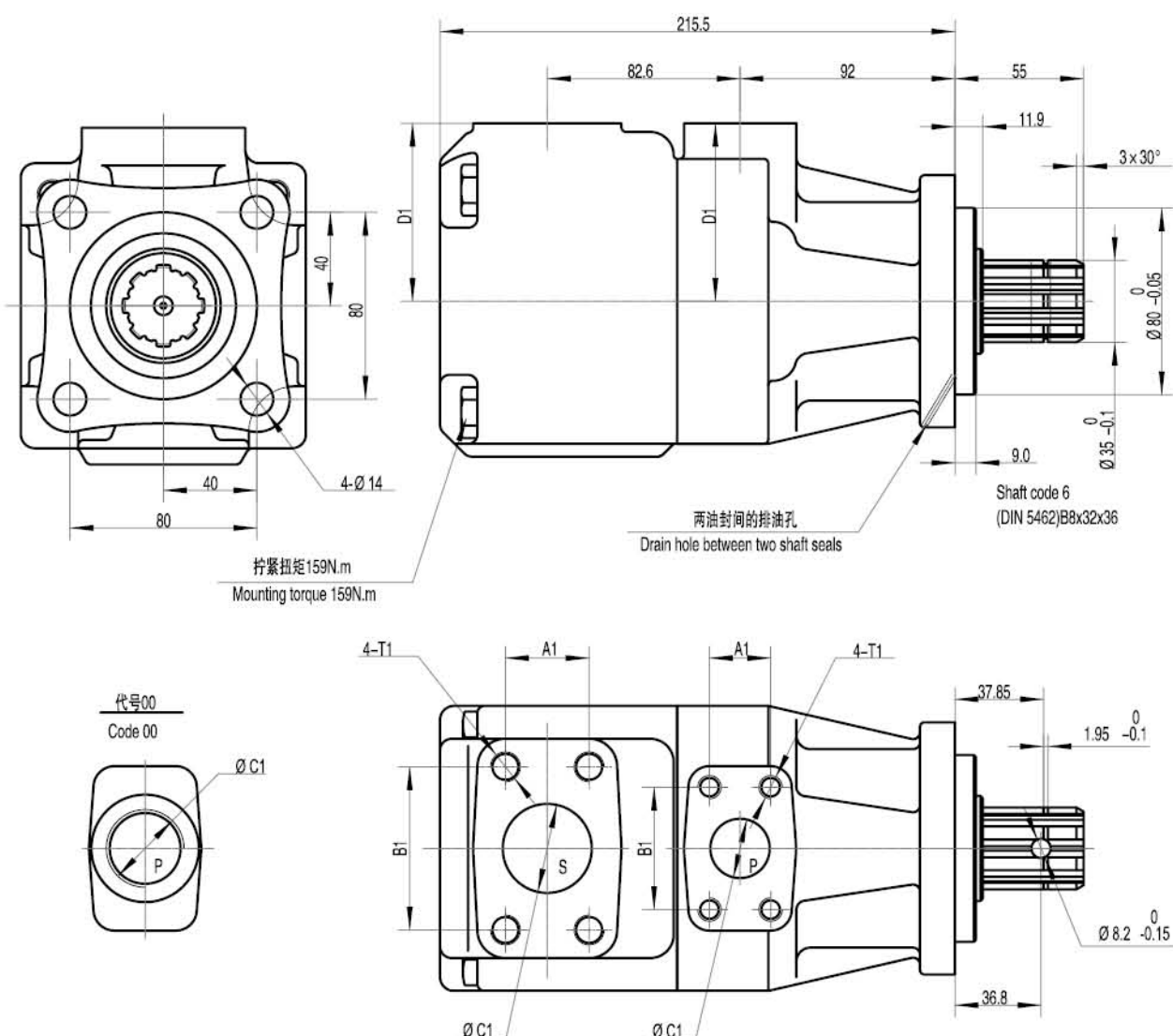
型号说明 / Model Designation

T6GC	-B10	-6	R	00	-A	1	01
系列号 Series	排量代号 Flow code	轴伸形式 Shaft type	旋转方向 Rotation	出口位置 Outlet Positions	设计号 Design number	密封等级 Sealing Level	油口尺寸 Port dimensions
T6GC	B03, B05, B06, B08, B10, B12, B14, B17, B20, B22, B25, B28, B31	见轴伸尺寸 See size of shaft	从泵的轴端看 Viewed from shaft end of pump R-顺时针旋转 right hand for clockwise L-逆时针旋转 left hand for counter-clockwise	(从泵的轴端看) (Viewed from shaft end of pump) 00-进油口对面 Opposite inlet port 01-进油口同侧 Inline with inlet 02-从进油口逆时针90° 90° CCW from inlet 03-从进油口顺时针90° 90° CW from inlet	A	1-S1, 丁晴橡胶 (Buna) NBR Nitrile rubber	00: 法兰螺纹 Flange 1"BSPP 01: SAE法兰四螺孔 Flange SAE 4 bolts(UNC) 见安装连接尺寸 See installation dimensions
T7GB	B02, B03, B04, B05, B06, B07, B08, B10, B12, B15, B20					5-S5, 氟橡胶 (Viton) Fluororubber	

B03 排量代号中B表示双转向型配流侧板结构；与相应系列、规格的T6单泵性能参数一致，详见T6系列单泵的性能参数
B means the two steering valve plate structure.
The data of relevant series, model are unanimous. Please see T6 series-single pumps data.

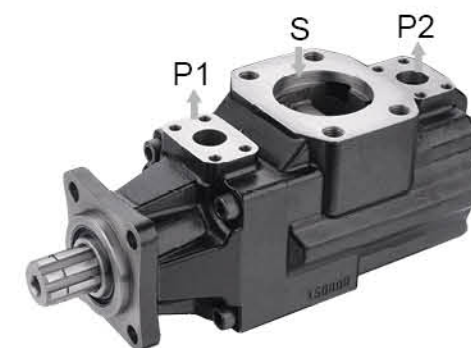
安装连接尺寸/Installation Dimensions

T6GC、T7GB



油口/Oil port			法兰 Flange	安装尺寸/Install Dimensions(mm)				
				A1	B1	ΦC1	D1	T1口螺纹Thread
T6GC T7GB	P	01: 1"	F08	26.2	52.4	25.4	76.2	3/8"-16UNCx19.0
		00: 1"BSPP	—	—	—	1"BSPP	79.5	—
	S	1-1/2"	F12	35.7	69.9	38.1	76.2	1/2"-13UNCx22.4

T6GCC,T67GCB,T7GBB **系列双联泵**
Series-double Pumps



液压符号
 Hydraulic Sign
 P2 P1

 S

型号说明 / Model Designation

T6GCC	—B25	—B17	—6	R	02	—B	1	10
系列号 Series	轴端泵排量代号 Flow-shaft end Pump	盖端泵排量代号 Flow-cover end Pump	轴伸形式 Shaft type	旋转方向 Rotation	油口位置 Port Positions	设计号 Design number	密封等级 Sealing Level	油口尺寸 Port dimensions
T6GCC	B03, B05, B06, B08, B10, B12, B14, B17, B20, B22, B25, B28, B31	B03, B05, B06, B08, B10, B12, B14, B17, B20, B22, B25, B28, B31	见轴伸尺寸 See size of shaft	从泵的轴端看 Viewed from shaft end of pump R—顺时针旋转 right hand for clockwise L—逆时针旋转 left hand for counter- clockwise	见下图 see below	B	1—S1, 丁晴橡胶 (Buna) NBR Nitrile rubber 5—S5, 氟橡胶 (Viton) Fluororubber	00, 01, 10, 11 见安装连接尺 See installation dimensions
T67GCB	B03, B05, B06, B08, B10, B12, B14, B17, B20, B22, B25, B28, B31	B02, B03, B04, B05, B06, B07, B08, B10, B12, B15, B20						
T7GBB	B02, B03, B04, B05, B06, B07, B08, B10, B12, B15, B20	B02, B03, B04, B05, B06, B07, B08, B10, B12, B15, B20						

B03 排量代号中B表示双转向型配流侧板结构;与相应系列、规格的T6单泵性能参数一致,详见T6系列单泵的性能参数
B means the two steering valve plate structure.
The data of relevant series, model are unanimous. Please see T6 series-single pumps data.

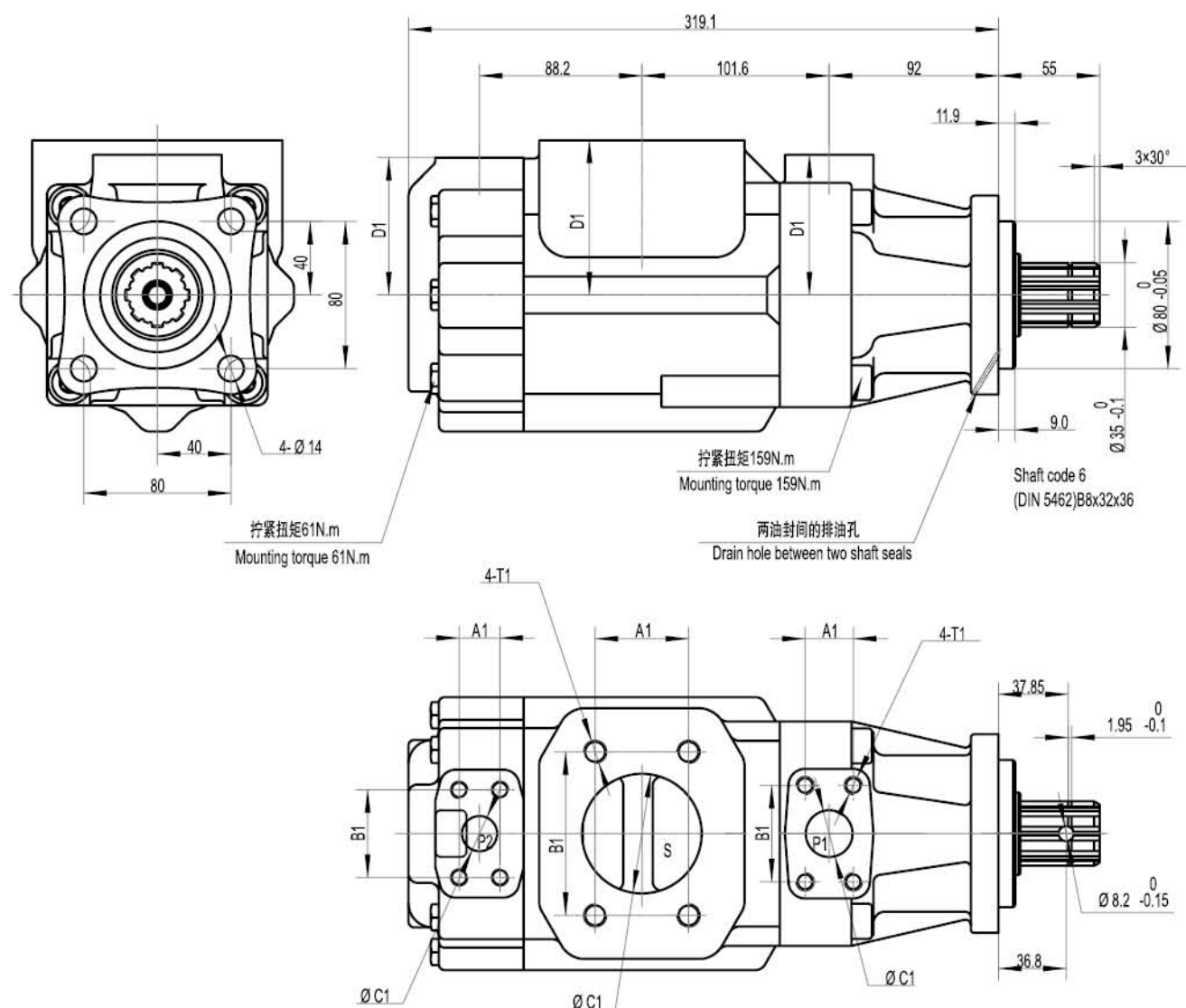
油口位置(从泵的轴端看)/Port positions(Viewed from shaft end of pump)

T6GCC
T7GBB
T67GCB

00 P1-P2	01 P1-P2	02 S-P1-P2	03 P1-P2	04 P1	05 P1	06 P1	07 P1-S
08 P1-S	09 P1-S	10 P1	11 P1	12 P1	13 P1	14 P1	15 P1
16 P1	17 P1	18 P1	19 P1	20 P1	21 P1	22 P1	23 P1
24 P1-S	25 P1-S	26 P1-S	27 P1-S	28 P1	29 P1	30 P1	31 P1

安装连接尺寸/Installation Dimensions

T6GCC、T67GCB、T7GBB

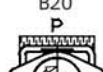


油口/Oil port			法兰 Flange	安装尺寸/Install Dimensions(mm)				
				A1	B1	ΦC1	D1	T1口螺纹Thread
T6GCC T67GCB T7GBB	P1	1"	F08	26.2	52.4	25.4	76.2	3/8"-16UNCx19.0
	P2	01-11: 3/4"	F06	22.2	47.6	19.0	76.2	3/8"-16UNCx19.0
		00-10: 1"	F08	26.2	52.4	25.4	74.7	
	S	10-11: 2-1/2"	F20	50.8	88.9	63.5	84.1	1/2"-13UNCx23.9
		00-01: 3"	F24	61.9	106.4	76.2	84.1	5/8"-11UNCx28.4

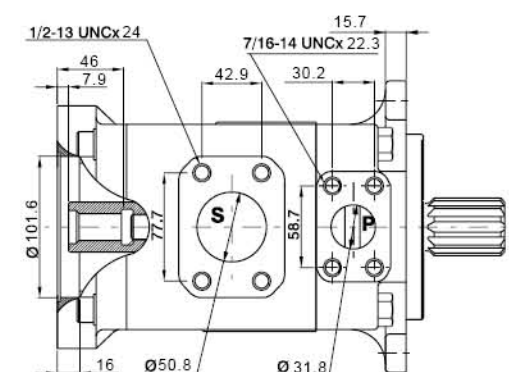
T6DR 系列通轴式叶片泵 Series-vane Pumps



型号说明 / Model Designation

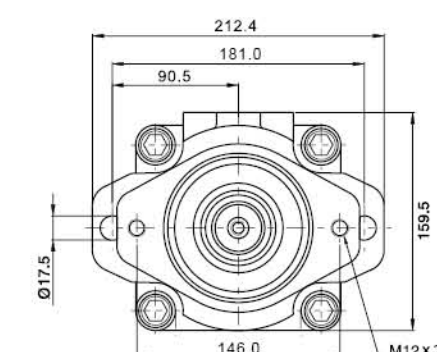
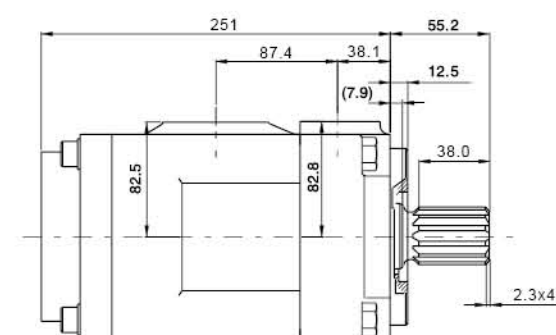
T6DR	-014	-3	R	00	B20	-A	1
系列号 Series	排量代号 Flow code	轴伸形式 Shaft type	旋转方向 Rotation	出口位置 Outlet positions	转接口位置 Porting adaptor	设计号 Design number	密封等级 Sealing Level
T6DR	014, 017, 020, 024, 028, 031, 035, 038, 042, 045, 050, 061	3花键轴 Splined (SAE C)	(从泵的轴端看) (Viewed from shaft end of pump) R-顺时针旋转 right hand for clockwise L-逆时针旋转 left hand for counter- clockwise	(从泵的轴端看) (Viewed from shaft end of pump) 00-进油口对面 Opposite inlet port 01-进油口同侧 Inline with inlet 02-从进油口逆时针90° 90° CCW from inlet 03-从进油口顺时针90° 90° CW from inlet	 	A	1-S1, 丁晴橡胶 (Buna) NBR Nitrile rubber 5-S5, 氟橡胶 (Viton) Fluororubber

安装连接尺寸/Installation Dimensions



Shaft code 3

SAE C SPLINED SHAFT
CLASS 1-J498 b
12/24 d.p. - 14 TEETH
30° PRESSURE ANGLE
FLAT ROOT SIDE FIT



T7EE, T7EES, T7EEZ 系列通轴式叶片泵 Series-vane Pumps

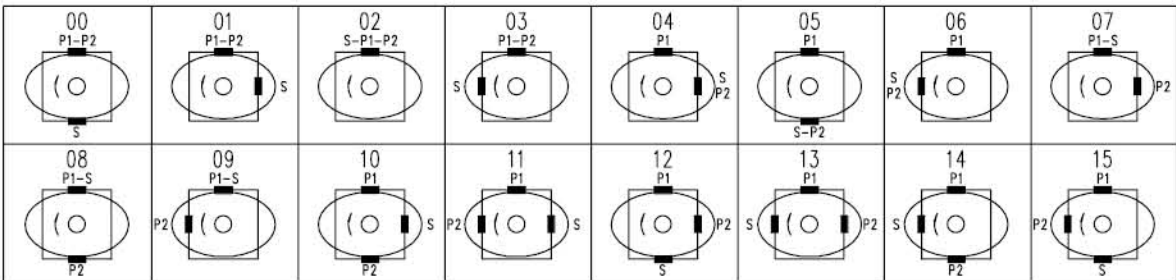
双联泵排量最高可达到537.4mL/r, 尾端根据需求可选择驱动叶片泵、齿轮泵、柱塞泵。

The maximum displacement of the double pump can reach 537.4mL/r, and the rear end can choose to drive vane pump, gear pump, and piston pump according to requirements.

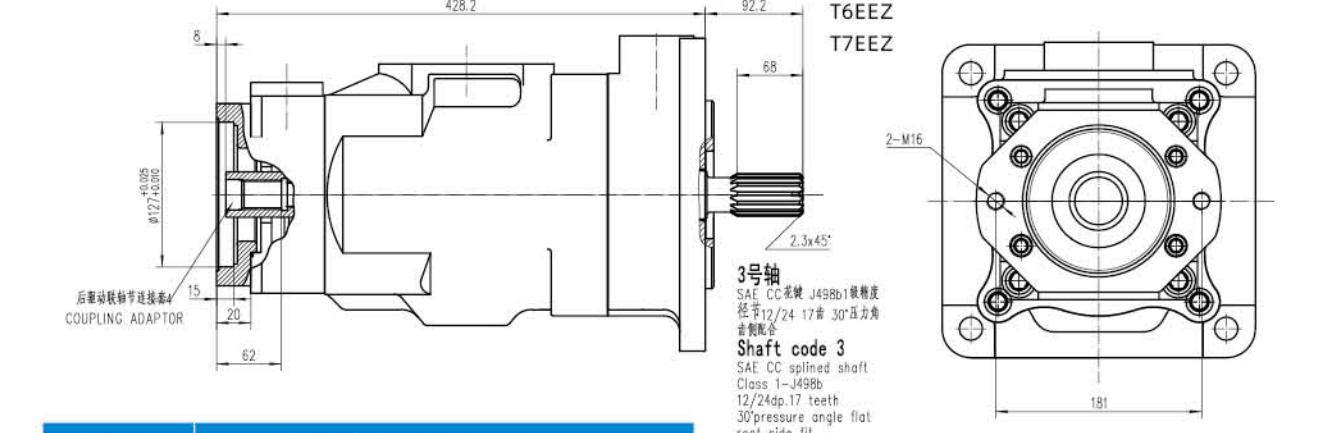
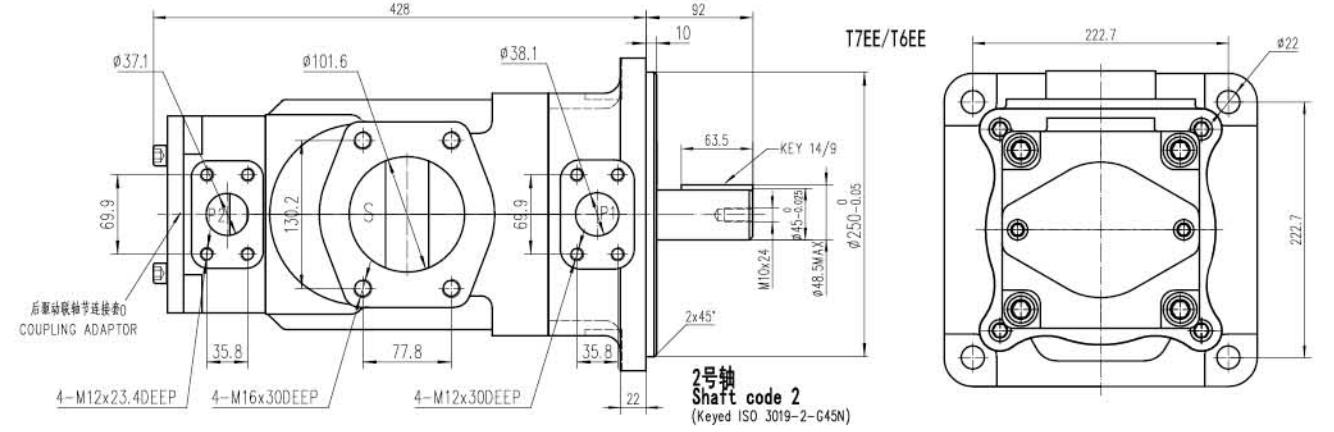
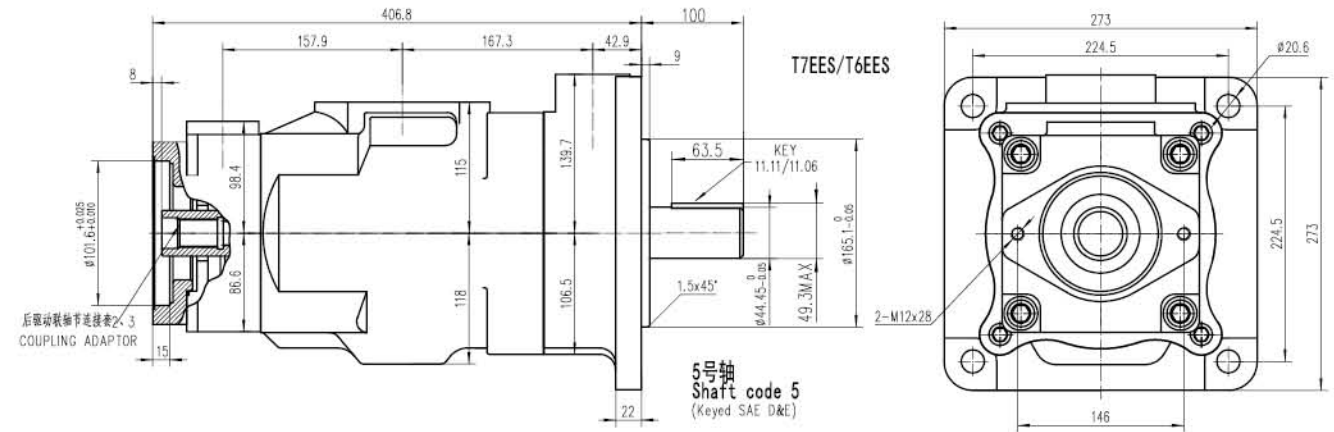


T7EE	-62	-62	-2	R	00	-A	1	0	M0
系列号 Series	轴端泵排量代号 Flow-shaft end Pump	盖端泵排量代号 Flow-cover end Pump	轴伸形式 Shaft type	旋转方向 Rotation	油口位置 Port Positions	设计号 Design number	密封等级 Sealing Level	后驱动联轴 节连接套 Coupling adaptor	油口尺寸 Port dimensions
T7EE\T6EE ISO 4螺钉安装 法兰250 ISO 4 bolts 3019-2 Mounting flange 250 B4 HW			2=平键轴 2=keyed (ISO 3019- 2-G45N)	从泵的轴端看 Viewed from shaft end of pump				0= none 无	
T7EES\T6EES SAE E 4螺钉安 装法兰165.1 SAE E 4 bolts J744 mounting flange	042, 045, 050, 052, 057, 062, 066, 072, 085	042, 045, 050, 052, 057, 062, 066, 072, 085	5=平键轴 5=keyed (SAE D & E)	R-顺时针旋转 right hand for clockwise	见下图 see picture below	A	1-S1, 丁晴橡胶 (Buna) NBR Nitrile rubber 5-S5, 氟橡胶 (Viton) Fluororubber	2= SAE B (孔径101.6花 键套13T) 3= SAE BB (孔径101.6花 键套15T) 4= SAE C (孔径127花键 套14T只适用3 号轴)	M0 见安装连接 尺寸 See installation dimensions
T6EEZ\T7EEZ SAE E 4螺钉安 装法兰165.1 SAE E 4 bolts J744 mounting flange			3=花键轴 3= splined (SAE CC) 17 teeth	L-逆时针旋转 left hand for counter- clockwise					

油口位置(从泵的轴端看) Port positions(Viewed from shaft end of pump)

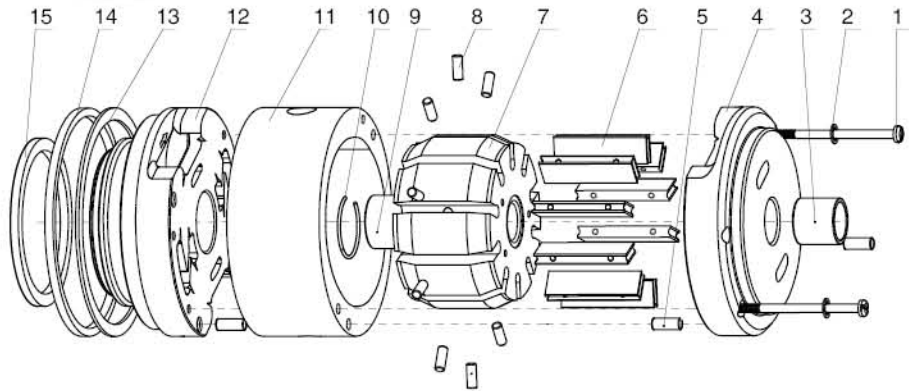
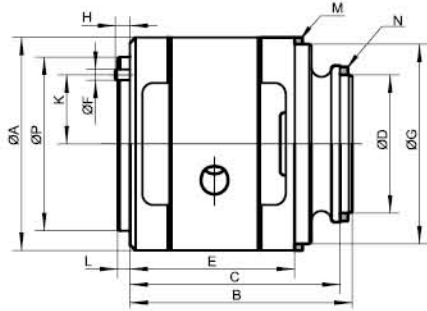


T7EE, T7EES, T7EEZ 连接尺寸图/Installation Dimensions



系列号/Coode	后驱动联轴节连接套/Coupling adaptor
0	无 No
2	SAE B - 13 teeth - pitch 16/32 13齿 径节16/32 Major dia. (min) 22.225 Minor dia. (min.) 19.126
3	SAE BB - 15 teeth - Pitch 16/32 15齿 径节 16/32 Major dia. (min.) 25.400 - Minor dia. (min.) 22.268
4	SAE C - 14 teeth - Pitch 12/24 14齿 径节 12/24 Major dia. (min.) 31.750 - Minor dia. (min.) 27.589

T6, T7 系列泵芯 Series-cartridge

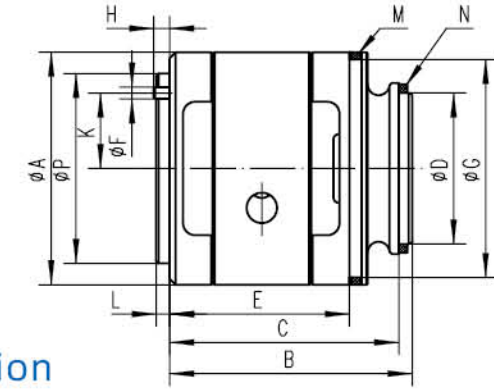


序号 NO.	名称 Part	数量 Qty	序号 NO.	名称 Part	数量 Qty	序号 NO.	名称 Part	数量 Qty
1	一字槽盘头螺钉 slotted pan head screw	2	6	叶片 kit vane	10 or 12	11	定子 cam ring	1
2	内齿锁紧垫圈 internal tooth seal kit	2	7	转子 rotor	1	12	压力侧板 outlet support plate	1
3	滑动轴承 sliding bearing	1	8	柱销 Pins	10 or 12	13	挡圈 retainer	1
4	侧板 inlet support plate	1	9	密封套 Seal bush	1	14	矩形密封圈 rectangle seal kit	1
5	销 Pin	3	10	孔用钢丝挡圈 Roundwire snap rings for hole	1	15	矩形密封圈 rectangle seal kit	1

型号说明 / Model Designation

前泵芯 / Front cartridge	T6DC	-045	R	1
泵芯名称 Cartridge name	系列号 Series	排量代号 Flow code	旋转方向 Rotation	密封等级 Sealing Level
单泵芯 Single pump cartridge 前泵芯 Front cartridge (双联泵或三联泵轴端泵芯) Front cartridge of double or treble pump	T7B(S), T7BB(S), T67CB, T67DB, T67EB, T67DBB, T67DCB, T67DDBS, T67EDB	B02, B03, B04, B05, B06, B07, B08, B10, B12, B15	从泵的轴端看 Viewed from shaft end of pump	1-S1, 丁腈橡胶 NBR Nitrile rubber
中泵芯 Middle cartridge (三联泵中间泵芯) Middle cartridge of treble pump	T7D(S), T7DB(S), T7ED(S), T67DC, T67ED	B14, B17, B20, B22, B24, B28, B31, B35, B38, B42	R-顺时针旋转 right hand for clockwise	5-S5, 氟橡胶 Fluororubber
后泵芯 Rear cartridge (双联泵或三联泵盖端泵芯) Rear cartridge of double or treble pump	T7E(S), T7EE(S), T7ED(S), T7EB(S)	042, 045, 050, 052, 054, 057, 062, 066, 072, 085	L-逆时针旋转 left hand for counter-clockwise	
	T6C, T6CC, T67CB, T6DC, T6EC, T6DCC, T67DCB, T6DDCS, T6EDC(S)	003/B03, 005/B05, 006/B06, 008/B08, 010/B10, 012/B12, 014/B14, 017/B17, 020/B20, 022/B22, 025/B25, 028/B28, 031/B31		
	T6D, T6DC, T67DB, T6ED, T6DCC, T67DBB, T67DCB, T6DDCS, T67DDBS, T6EDC(S), T67EDB	014/B14, 017/B17, 020/B20, 024/B24, 028/B28, 031/B31, 035/B35, 038/B38, 042/B42, 045/B45, 050/B50, 061		
	T6E, T6EC, T67EB, T6ED, T6EE(S), T6EDC(S), T67EDB	042, 045, 050, 052, 057, 062, 066, 072, 085		

003/B03 排量代号中0表示单转向型配流侧板结构, B表示双转向型配流侧板结构; 与相应系列、规格的T6单泵性能参数一致, 详见T6系列单泵的性能参数。
In displacement code, 0 means single steering valve plate structure, B means the two steering valve plate structure.
The data of relevant series ,model are unanimous.Please see T6 series-single pumps data.

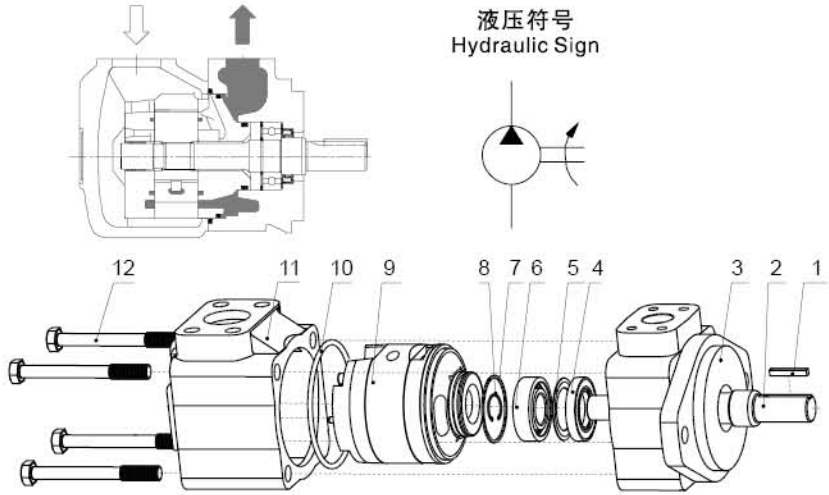


型号说明 / Model Designation

泵芯名称 Cartridge name	滑动轴承内径 Sliding bearing diameter	ΦA	B	C	ΦD	E	ΦF	ΦG	H	K	M(橡胶平垫圈 Rubber washer)	N(橡胶平垫圈 Rubber washer)	ΦP	L
单泵芯/Single pump cartridge T6C, T7B(S)	Φ15.90													
前泵芯/Front cartridge T6CC, T67CB, T7BB(S)	无滑动轴承 No													
后泵芯/Rear cartridge T6CC, T7BB(S), T67CB, T6DCC, T67DBB, T67DCB, T6DDCS, T67DDBS, T6EDC(S), T67EDB	Φ19.05	95.25	99.4	93.9	61.9	72.1	4.8	89.1	4.8	43.7	88.5 × 3.53	60 × 3.53	77.7	5.5
后泵芯/Rear cartridge T6DC, T7DB(S), T7EB(S), T67DB, T67DC, T6EC, T67EC, T67EB	Φ22.225													
中泵芯/Middle cartridge T6DCC, T67DBB, T67DCB	无滑动轴承 No	95.25	83.4	77.3	52.6	—	4.8	—	4.8	43.7	89x2.4	52x2.4	77.7	5.5
单泵芯/Single pump cartridge T6D, T7D(S), 前泵芯/Front cartridge T6DCC, T67DBB, T67DCB	Φ22.225													
前泵芯/Front cartridge T6DC, T67DB, T7DB(S), T7DD(S), T67DC, T6DDCS, T67DDBS	无滑动轴承 No	123.0	132.4	125.8	71.9	102.2	6.4	108.1	8.0	41.2	107.5 × 3.53	69.5 × 3.53		无此台阶 No
后泵芯/Rear cartridge T6ED, 中泵芯/Middle cartridge T6EDC(S), T67EDB	Φ28.6													
中泵芯/Middle cartridge T6DDCS, T67DDBS	Φ22.225													
后泵芯/Rear cartridge T7DD(S)														
单泵芯/Single pump cartridge T6E, T7E(S), 后泵芯/Rear cartridge T6EE(S), T7EE(S)	Φ28.6													
前泵芯/Front cartridge T6ED, T6EC, T67EB, T7EB(S), T7ED(S), T7EE(S), T6EDC(S), T67EDB, T67EC	无滑动轴承 No	143.08	150.3	142.5	88.0	113.0	8.0	137.0	8.0	49.2	136.1 × 3.53	85.3 × 3.53		

泵芯名称 Cartridge name	转子内花键齿廓参数 Inside spline tooth outline parameter of rotor				
	齿数 Number of teeth	径节 Pitch	压力角 Pressure angle	大径 Major diameter	小径 Minor diameter
前泵芯/Front cartridge T6CC, T7BB(S), T67CB 中泵芯/Middle cartridge T6DCC, T67DBB, T67DCB	32	40/80	45 °	21.41	19.9
单泵芯/Single pump cartridge T6C, T7B(S) 后泵芯/Rear cartridge T6CC, T7BB(S), T7DB(S), T7DD(S), T7EB(S), T67CB, T6DC, T67DB, T6EC, T67EB, T67DC, T67EC, T6DCC, T67DBB, T67DCB, T6DDCS, T67DDBS, T6EDC(S), T67EDB	28	40/80	45 °	18.87	17.4
单泵芯/Single pump cartridge T6D 前泵芯/Front cartridge T6DC, T67DB, T6DCC, T67DBB, T67DCB, T6DDCS, T67DDBS, 中泵芯/Middle cartridge T6EDC(S), T67EDB 后泵芯/Rear cartridge T6ED, T7ED(S), T6EE(S), T7EE(S)	25	24/48	45 °	28.19	25.8
中泵芯Middle cartridge T6DDCS, T6DDBS	20	24/48	45 °	22.89	20.5
单泵芯/Single pump cartridge T6E, T7E(S) 前泵芯/Front cartridge T6EC, T67EB, T6ED, T6EDC(S), T67EDB	34	24/48	45 °	37.72	35.4

V 系列单泵
Series-single Pumps



序号NO.	名称Part	数量Qty	序号NO.	名称Part	数量Qty	序号NO.	名称Part	数量Qty
1	平键straight key	1	5	垫片gasket	1	9	泵芯 cartridge	1
2	轴shaft	1	6	滚动轴承Ball bearing	1	10	O型圈O ring	1
3	前盖Front cover	1	7	叠形挡圈pile type retainer	1	11	后盖Rear cover	1
4	油封shaft seal	1	8	轴用弹性挡圈cir clip for shaft	1	12	六角头螺栓hexagon headed bolt	4

适用于塑胶机械、鞋革机械、机床、压铸及冶金设备的高性能子母叶片泵。

主要特点为:

- 1、采用子母叶片及施压平衡的结构，减少了叶片对定子的压力，其性能更稳定，寿命更长。
- 2、12叶片制减小了流量脉动的振幅，系统噪声特性低。
- 3、多排量、多轴伸及进出油口四种不同的相对位置，使用户使用更灵活。
- 4、泵芯的插装式结构，现场维修更方便。

High Performance intravane Pumps for plastic injection machinery, Shoe machinery, Tool machinery, Die casting machinery and Metallurgical equipment.

Features

1. Intra-vane pumps with hydraulic balancing structure provide more stable performance and longer life since less pressure from vane on stator.
2. Twelve vane system provide low amplitude flow pulsation resulting in low system noise characteristics.
3. Verious displacement and shafts with 4 different outlet opposite position make operation more flexible.
4. The cartridge is independent of the drive shaft, allowing for easy servicing without remore the pump from its mounting.

型号说明 / Model Designation

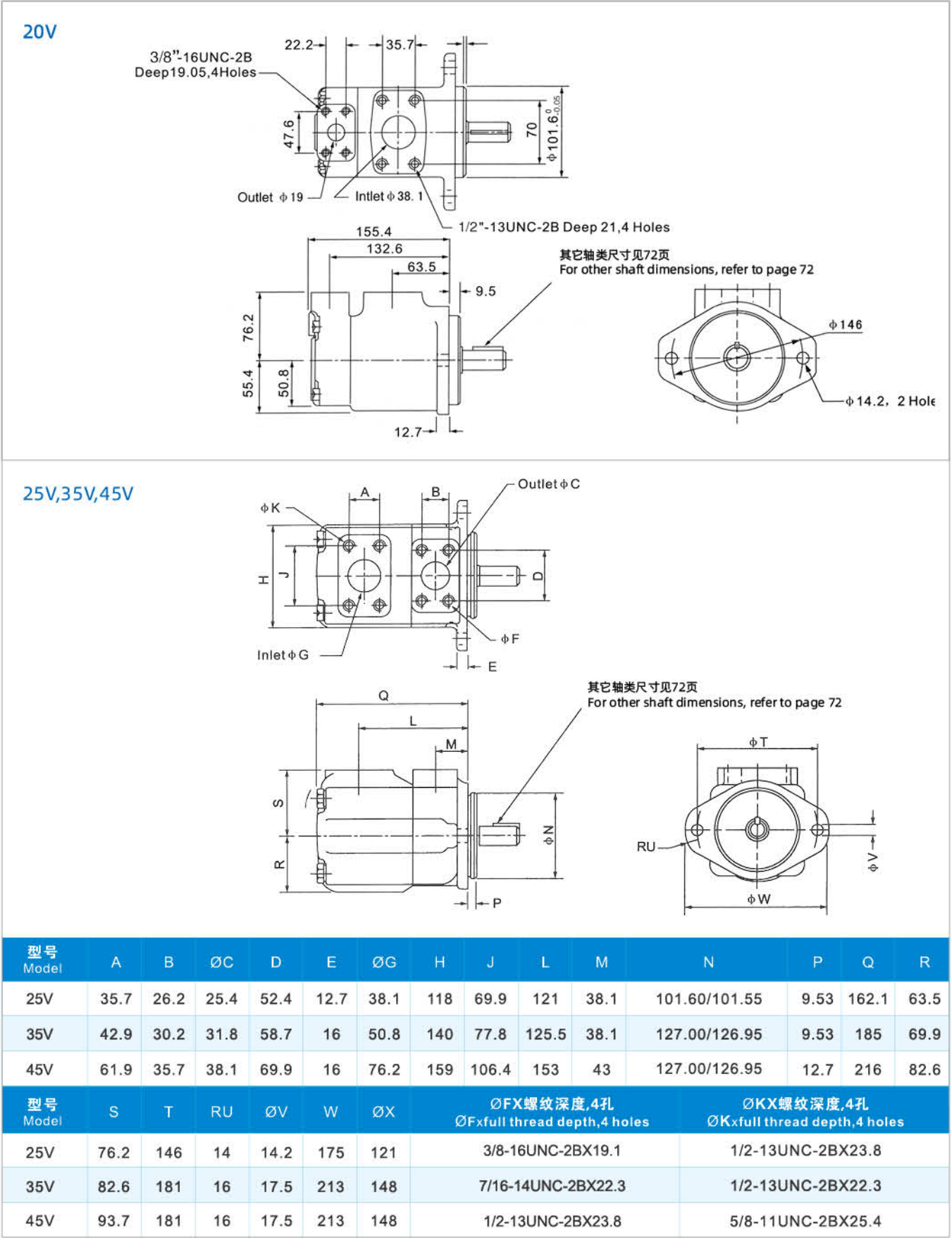
(F3-)	25V	19	A	-1	A	22	R
前注 Note	系列号 Series	▲排量代号 Flow code	油口连接 Port connections	轴伸形式 Shaft type	出油口位置 Outlet positions	设计号 Design number	旋转方向 Rotation
无标记 No-marking: 石油系油 Petroleum series oil 乳化液 emulsification fluid 水-乙二醇 water glycol-fluid F3: 磷酸酯液 phosphate ester fluid	20V	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14	A-SAE 4螺栓法兰 4-bolt flange	1-平键轴 Str key 151-花键轴 Spline	(从泵的盖端看) (Viewed from cover end of pump) A-进油口对面 Opposite inlet B-从进油口逆时针90° 90° CCW from inlet C-进油口同侧 Inline with inlet D-从进油口顺时针90° 90° CW from inlet	22	(从泵的轴端看) (Viewed from shaft end of pump) R-顺时针旋转 right hand for clockwise L-逆时针旋转 left hand for counter-clockwise
	25V	10, 12, 14, 15, 17, 19, 21, 25		1-平键轴 Str key 86-重型平键轴 HD Str key 11-花键轴 Spline			
	35V	21, 25, 30, 32, 35, 38, 45					
	45V	42, 45, 50, 57, 60, 66, 75					

▲ 在1200r/min 和0.69MPa(100psi)下的额定排量
USgpm Flow(USgpm) at 1200r/min and 0.69MPa

技术参数 / Technical Data

系列号 series	排量代号 Flow code (USgpm)	理论排量 Geometric displacement mL/r(in ³ /r)	使用抗磨液压油或磷酸酯 With antiwear hydraulic oil ri phosphate ester fluid		使用水-乙二醇 With water glycol fluid		使用油包水乳化液 With water-oil emulsions		最低转速 Min. speed
			最高使用压力 Max.operating pressure MPa	最高转速 Max.speed r/min	最高使用压力 Max.operating pressure MPa	最高转速 Max.speed r/min	最高使用压力 Max.operating pressure MPa	最高转速 Max.speed r/min	
20V	2	7.5(0.46)	13.8	1800	13.8	1500	6.9	1200	600
	3	10(0.61)							
	4	13(0.79)							
	5	16.5(1.01)	20.7		15.9				
	6	19(1.16)							
	7	23(1.40)							
	8	27(1.67)							
	9	30(1.85)							
	10	32(1.95)							
	11	36(2.20)							
	12	40(2.44)	15.9		13.8				
14	45(2.78)	13.8							
25V	10	32.5(1.98)	17.2	1800	15.9	1500	6.9	1500	600
	12	39(2.38)							
	14	45(2.78)							
	15	47(2.89)							
	17	55(3.36)							
	19	60(3.66)							
	21	67(4.13)							
	25	81(4.94)							
35V	21	67(4.13)	17.2	1800	15.9	1500	6.9	1500	600
	25	81(4.94)							
	30	97(5.91)							
	32	101(6.16)							
	35	112(6.83)							
	38	121(7.37)							
	45	147(8.95)	13.8		13.8				
45V	42	138(8.41)	17.2	1800	15.9	1500	6.9	1500	600
	45	147(8.95)							
	50	162(9.85)							
	57	181(11.05)							
	60	193(11.75)							
	66	212(12.93)							
	75	237(14.46)	13.8		13.8				

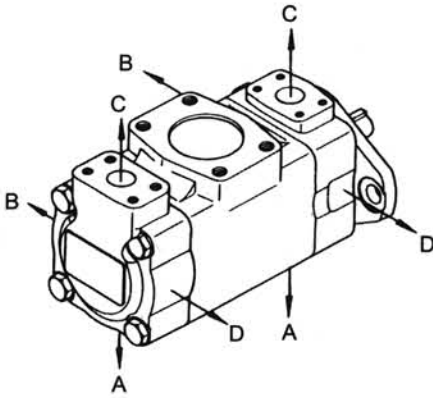
安装连接尺寸 Installation Dimensions



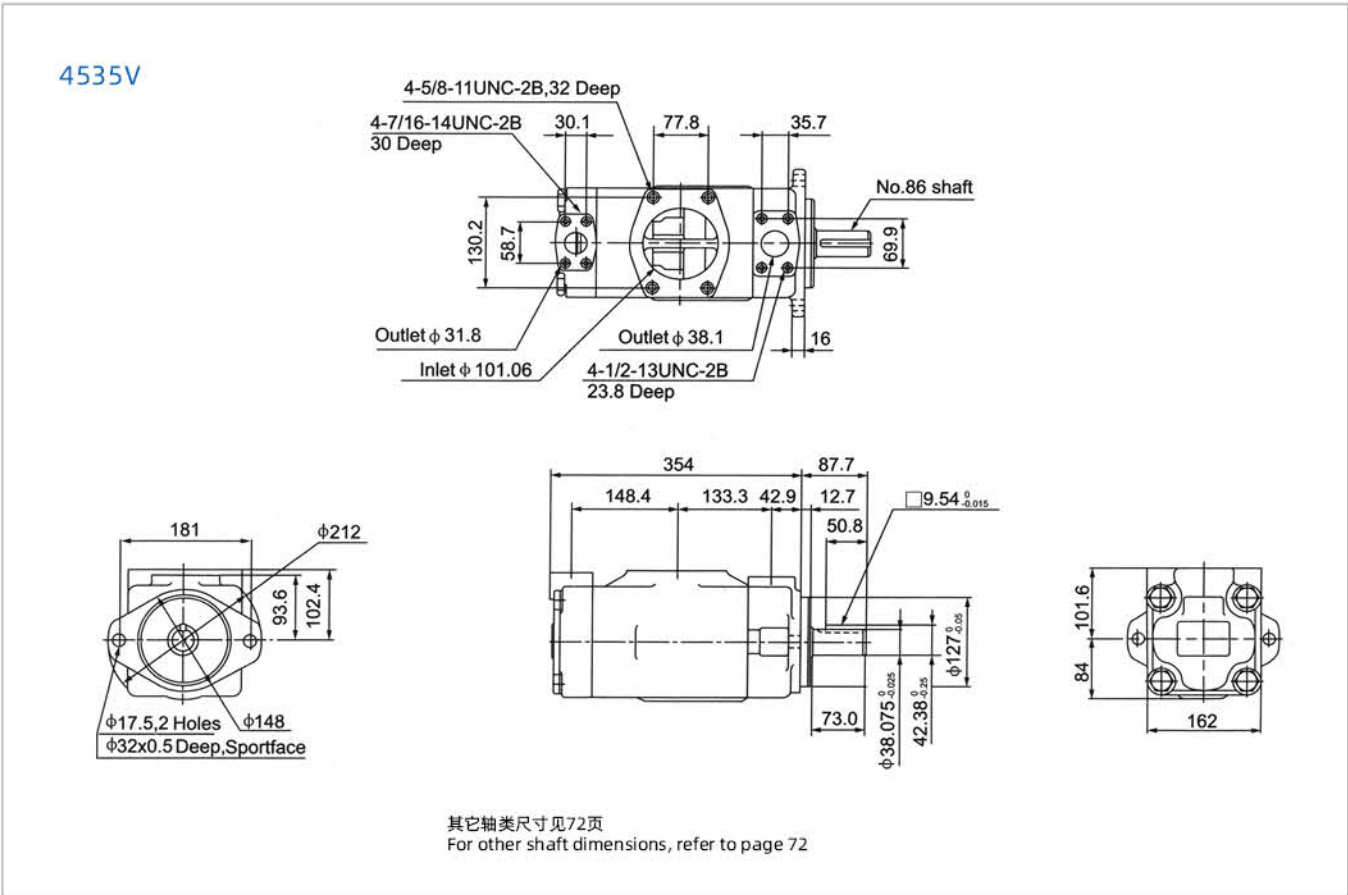
出油口位置 (从泵的盖端看)

Outlet Positions (Viewed from cover end of pump)

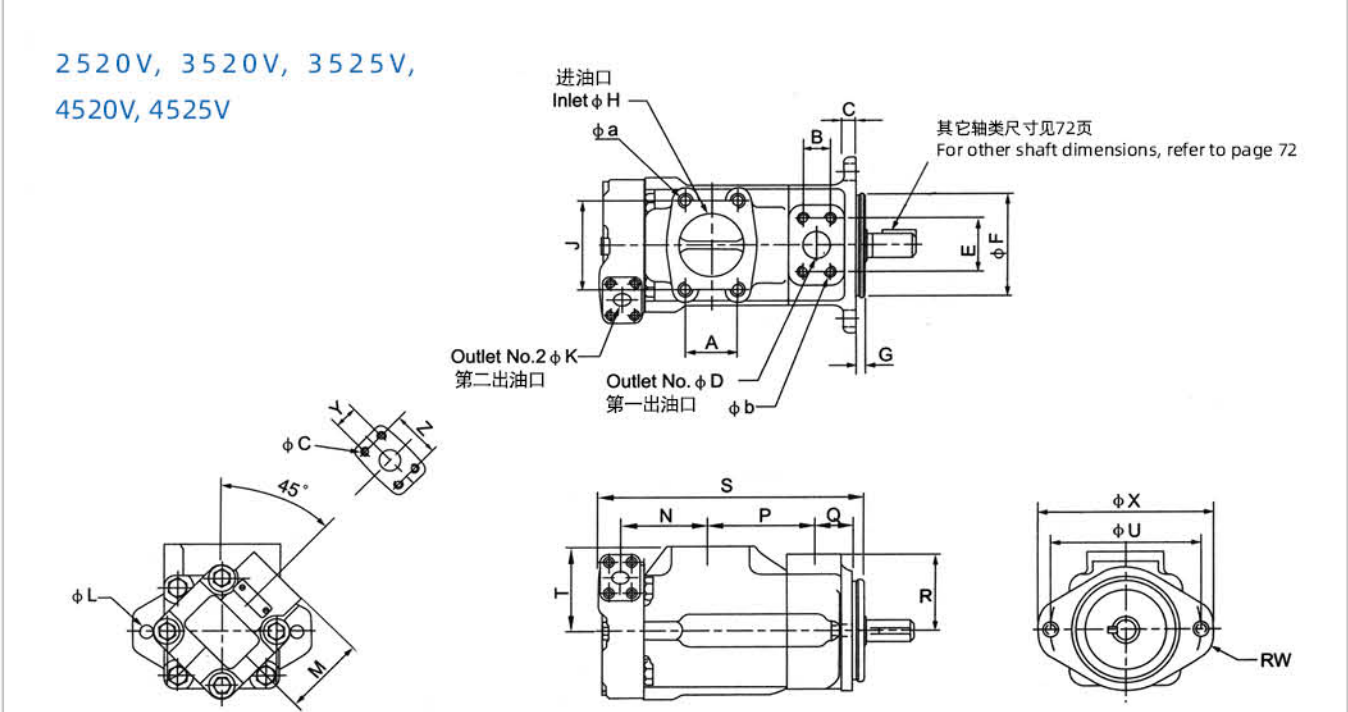
出油口位置 Outlet positions	除 4535V 外的所有系列 All series except 4535V	4535V
第一出油口 在进油口同侧 No.1 outlet inline with inlet	CA 第二出油口在进油口逆时针转135° No.2 outlet 135° CCW from inlet	第二出油口在进油口对面 No.2 outlet opposite inlet
	CB 第二出油口在进油口逆时针转45° No.2 outlet 45° CCW from inlet	第二出油口在进油口逆时针转90° No.2 outlet 90° CCW from inlet
	CC 第二出油口在进油口顺时针转45° No.2 outlet 45° CW from inlet	第二出油口在进油口同侧 No.2 outlet inline with inlet
	CD 第二出油口在进油口顺时针转135° No.2 outlet 135° CW from inlet	第二出油口在进油口顺时针转90° No.2 outlet 90° CW from inlet
第一出油口 从进油口 顺时针转90° No.1 outlet 90° CW from inlet	DA 第二出油口在进油口逆时针转135° No.2 outlet 135° CCW from inlet	第二出油口在进油口对面 No.2 outlet opposite inlet
	DB 第二出油口在进油口逆时针转45° No.2 outlet 45° CCW from inlet	第二出油口在进油口逆时针转90° No.2 outlet 90° CCW from inlet
	DC 第二出油口在进油口顺时针转45° No.2 outlet 45° CW from inlet	第二出油口在进油口同侧 No.2 outlet inline with inlet
	DD 第二出油口在进油口顺时针转135° No.2 outlet 135° CW from inlet	第二出油口在进油口顺时针转90° No.2 outlet 90° CW from inlet



安装连接尺寸 / Installation Dimensions



安装连接尺寸 / Installation Dimensions



型号 Model	$\phi a \times$ 螺纹深度, 4孔 $\phi a \times$ full thread depth, 4 holes	$\phi b \times$ 螺纹深度, 4孔 $\phi b \times$ full thread depth, 4 holes	$\phi c \times$ 螺纹深度, 4孔 $\phi c \times$ full thread depth, 4 holes
2520V	1/2-13UNC-2Bx23.8	3/8-16UNC-2Bx19.1	3/8-16UNC-2Bx19.1
3520V	5/8-11UNC-2Bx30.0	7/16-14UNC-2Bx22.3	3/8-16UNC-2Bx19.1
3525V	5/8-11UNC-2Bx30.0	7/16-14UNC-2Bx22.3	3/8-16UNC-2Bx19.1
4520V	5/8-11UNC-2Bx30.0	1/2-13UNC-2Bx23.8	3/8-16UNC-2Bx19.1
4525V	5/8-11UNC-2Bx30.0	1/2-13UNC-2Bx23.8	3/8-16UNC-2Bx19.1

型号Model	A	B	C	ϕD	E	ϕF	G	ϕH	J	ϕK	ϕL	M
2520V	50.8	26.2	12.7	25.4	52.4	101.60/101.55	9.53	63.5	88.9	19.1	14.2	76.2
3520V	62	30.1	15.9	31.7	58.7	127.00/126.95	9.53	76.2	106.3	19.1	17.5	76.2
3525V	62	30.1	15.9	31.7	58.7	127.00/126.95	9.53	76.2	106.3	25.4	17.5	74.7
4520V	69.9	35.7	15.9	38.1	69.9	127.00/126.95	12.7	88.9	120.6	19.1	17.5	76.2
4525V	69.9	35.7	15.9	38.1	69.9	127.00/126.95	12.7	88.9	120.6	25.4	17.5	74.7

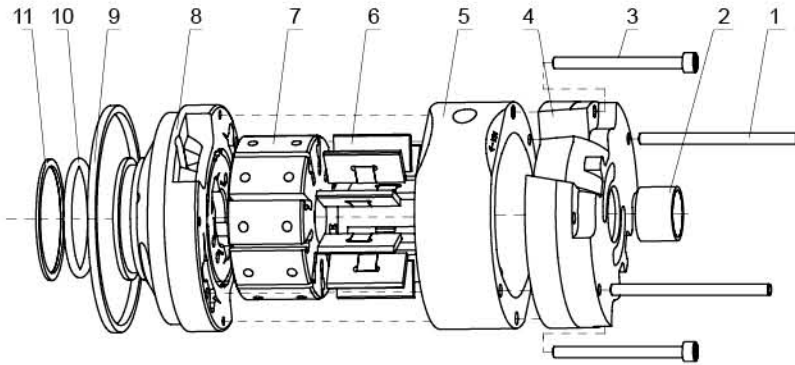
型号Model	N	P	Q	R	S	T	ϕU	ϕV	RW	ϕX	Y	Z
2520V	88.1	101.6	38.1	76.2	250	85.3	146.1	120.7	14	174.7	22.2	47.6
3520V	99.6	114.3	38.1	82.6	273.3	88.9	181	148	16	213	22.2	47.6
3525V	109.5	114.3	38.1	82.6	287.3	88.9	181	148	16	213	26.2	52.4
4520V	120	119.4	42.9	93.7	303.5	102.4	181	148	16	213	22.2	47.6
4525V	136	119.4	42.9	93.7	325	102.4	181	148	16	213	26.2	52.4

V 系列泵芯 Series-cartridge

型号说明 / Model Designation

(F3-)	PC-	25V	19	R	10
前注 Note	泵芯标志 Cartridge mark	系列号 Series	▲排量代号 Flow code	旋转方向 Rotation	设计号 Design number
无标记 No-marking: 石油系油 Petroleum series oil 乳化液 emulsification fluid 水-乙二醇 water glycol-fluid F3: 磷酸酯液 phosphate ester fluid	PC-单泵泵芯	20V	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14	(从泵的轴端看) (Viewed from shaft end of pump) L-逆时针旋转 Left hand for counter clockwise R-顺时针旋转 Right hand for clockwise	10
	双联泵轴端泵芯	25V	10, 12, 14, 15, 17, 19, 21, 25		
	PCT-双联泵盖端泵芯	35V	21, 25, 30, 32, 35, 38, 45		
	双联泵盖端泵芯	45V	42, 45, 50, 57, 60, 66, 75		

▲ 在1200r/min和0.69MPa(100psi)下的额定排量; 与相应系列、规格的油泵性能参数一致, 详见V系列单泵的性能参数。
USgpm Flow(USgpm) at 1200r/min and 0.69MPa.
The data of relevant series, model are unanimous. Please see V series-single pump data.



序号NO.	名称Part	数量Qty	序号NO.	名称Part	数量Qty	序号NO.	名称Part	数量Qty
1	销 Pin	2	5	定子 cam ring	1	9	挡圈 Retainer	1
2	滑动轴承 sliding bearing	1	6	叶片 vane kit	12	10	O型圈 O ring	1
3	十字槽盘头螺钉 cross pan head bolts	2	7	转子 Rotor	1	11	挡圈 Retainer	1
4	侧板 inlet support plate	1	8	压力侧板 outlet support plate	1			

系列号 Series	ØA	B	C	ØD	E	ØF	ØG	H	K	M (挡圈Gasket)	M(O形圈O-Ring)
20V	82.55	81.5	70.1	47	61.5	4.8	76.2	7	73.6	82.76x76.26x3.5	40x3.55
25V	96.8	98.8	87	52.2	71.2	4.8	90.5	7	88.19	97x91x3.5	44x3.53
35V	114.3	117.7	105	72.2	90.3	6.4	108	8	103.94	114.5x108.5x3.5	63.09x3.53
45V	133.35	141.1	129.6	80.2	105.5	6.4	127	8	123.8	133.6x127.6x3.5	71x3.55

转子内花键齿廓参数Inside spline tooth outline parameter of rotor					
系列号 Series	齿数 Number of teeth	径节 Pitch	压力角 Pressure angle	大径 Major Diameter	小径 Minor Diameter
20V	30	48/96	45°	16.617	15.56
25V	40	48/96	45°	21.9	20.86
35V	37	40/80	45°	24.38	23.10
45V	14	12/24	30°	32.59	27.6

VQ 系列叶片泵 Series-vane Pumps

产品简介 / Product Introduction

适用于工程机械的高压高性能子母叶片泵。

主要特点为:

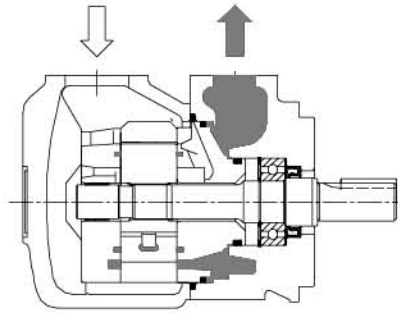
- 1、采用液压平衡的子母叶片结构及10叶片制的设计, 压力更高, 最高达到21MPa。
- 2、采用浮动侧板结构, 可自动补偿端面间隙, 使泵在高压下能保持较高的容积效率。
- 3、侧板采用双金属材料, 提高了抗咬合性能, 使泵的使用寿命更长。

The high-pressure and high-performance intra-vane pumps for Mobile Equipment.

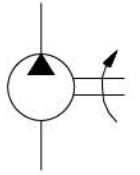
Features:

1. To adopt balanced hydraulic for the struction of intra-vane and ten-Vane design, higher pressure, top to 21 MPa.
2. To adopt floating structure for side plate, it will do a compensation for end-face clearance by automatic, so that even the pump under high pressure it can maintain a high volumetric efficiency.
3. The side plate is made of dual-metal material, it improved the seizure resistance. and so that the life of pump will be longer

VQ 系列单泵 Series-single Pumps



液压符号
Hydraulic Sign



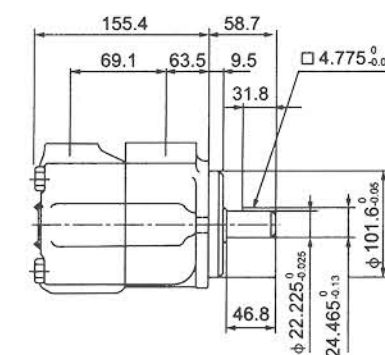
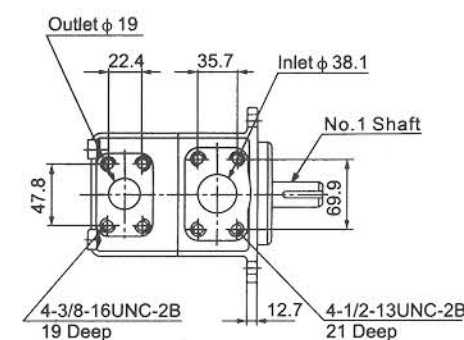
(F3-)	25VQ	19	A	(F)	-1	A	30	R
前注 Note	系列号 Series	▲排量代号 Flow code	油口连接 Port connections	安装形式 Installation type	轴伸形式 Shaft type	出口位置 Outlet positions	设计号 Design number	旋转方向 Rotation
无标记 No-marking 石油系油 Petroleum series oil 乳化液 Emulsification fluid 水-乙二醇 Water glycol-fluid F3: 磷酸酯液 Phosphate ester fluid	20VQ	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14	A-SAE 4 螺栓法兰 A-SAE 4 bolt flange	无标记 No-marking - 法兰安装型 Flange Mounting F - 脚座安装型 F-Foot Mounition	1平键轴/Str key 151花键轴/Spline	(从泵的盖端看) (Viewed from cover end of pump) A-进油口对面 Opposite inlet port B-从进油口逆时针90° 90° CCW from inlet C-进油口同侧 Inline with inlet D-从进油口顺时针90° 90° CW from inlet	30	(从泵的轴端看) (Viewed from shaft end of pump) R - 顺时针旋转 right hand for clockwise L - 逆时针旋转 left hand for counter-clockwise
	25VQ	10, 12, 14, 15, 17, 19, 21, 25						
	35VQ	21, 25, 30, 32, 35, 38, 45			1平键轴/Str key 86重型平键轴 HD str key 11 花键轴/Spline		20	
	45VQ	42, 45, 50, 57, 60, 66, 75						

▲ 在1200r/min 和0.69MPa(100psi)下的额定排量
USgpm Flow(USgpm) at 1200r/min and 0.69MPa

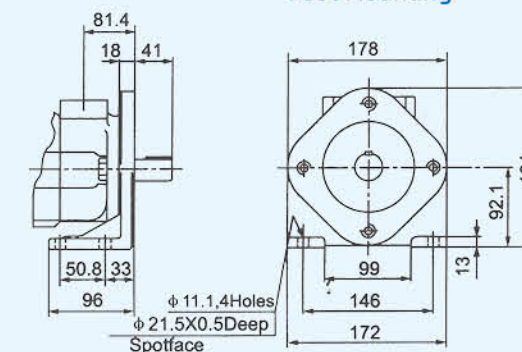
技术参数 / Technical Data

系列号 series	排量代号 Flow code (USgpm)	理论排量 Geometric displace- ment mL/r	最高使用压力 Max.operating pressure Mpa	最高转速 Max.speed r/min	最低转速 Min. speed r/min
20VQ	2	7(0.43)	21	2700	600
	3	10(0.61)			
	4	13(0.79)			
	5	16.5(1.01)			
	6	19(1.16)			
	7	22(1.40)			
	8	27(1.67)			
	9	30(1.85)			
	10	31.5(1.92)			
	11	35(2.14)			
	12	40(2.44)	16		
	14	45(2.78)	14		
25VQ	10	32(1.95)	21	2700	600
	12	38(2.32)		2500	
	14	43.5(2.65)			
	15	47(2.89)			
	17	54(3.30)			
	19	60(3.66)			
	21	67(4.13)			
	25	79.2(4.83)			
35VQ	21	67(4.13)	21	2500	600
	25	81(4.94)		2400	
	30	95(5.80)			
	32	101(6.16)			
	35	109(6.65)			
	38	119(7.26)			
	45	143(8.72)			
45VQ	42	134(8.17)	17.5	2400	600
	45	143(8.72)		2200	
	50	159(9.70)			
	57	181(11.05)			
	60	189(11.53)			
	66	210(12.81)			
	75	237(14.46)	14		

20VQ 法兰安装尺寸
Flange Mounting



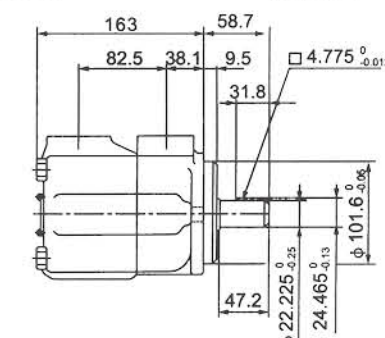
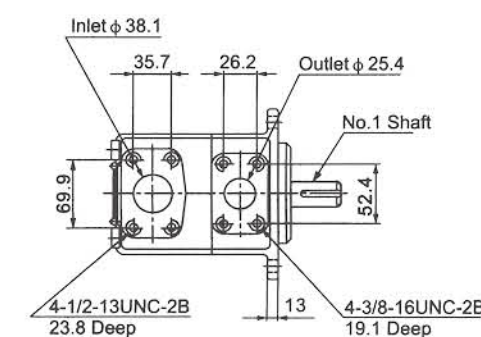
20VQ 脚座安装尺寸
Foot Mounting



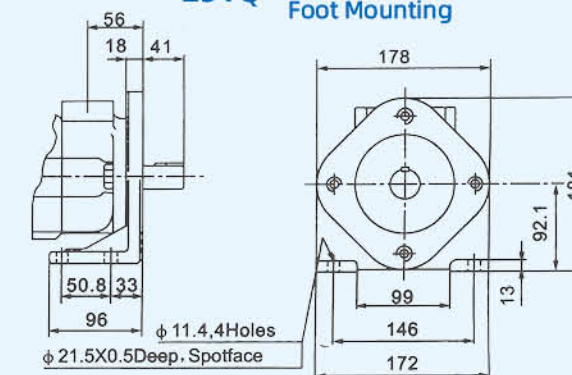
For other dimensions, refer to "Flange Mounting" type.

其它轴类尺寸见72页
For other shaft dimensions, refer to page 72

25VQ 法兰安装尺寸
Flange Mounting



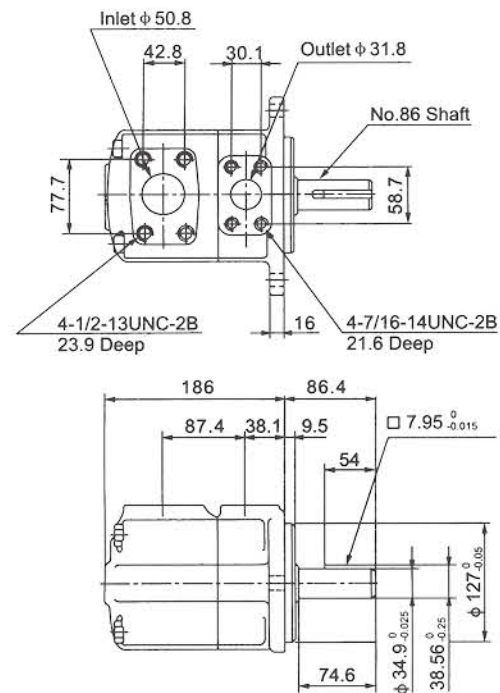
25VQ 脚座安装尺寸
Foot Mounting



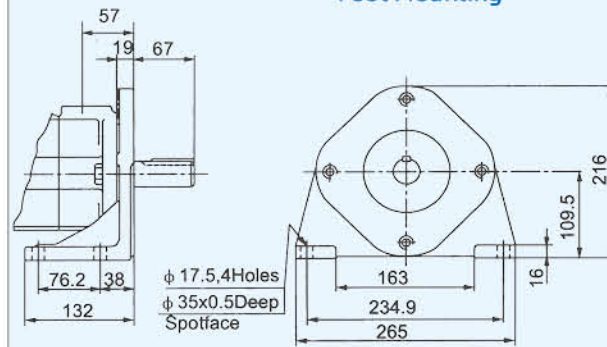
For other dimensions, refer to "Flange Mounting" type.

其它轴类尺寸见72页
For other shaft dimensions, refer to page 72

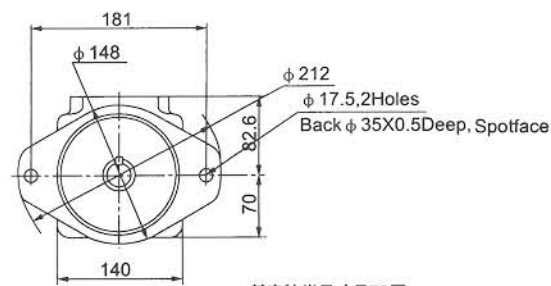
35VQ 法兰安装尺寸 Flange Mounting



35VQ 脚座安装尺寸 Foot Mounting

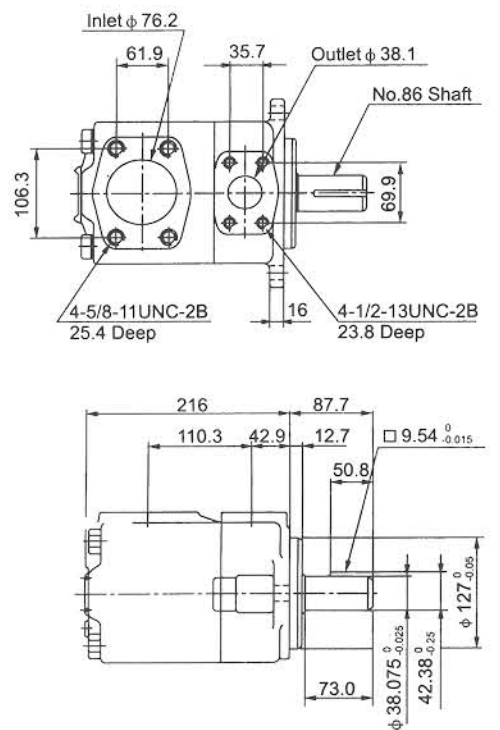


For other dimensions, refer to "Flange Mounting" type.

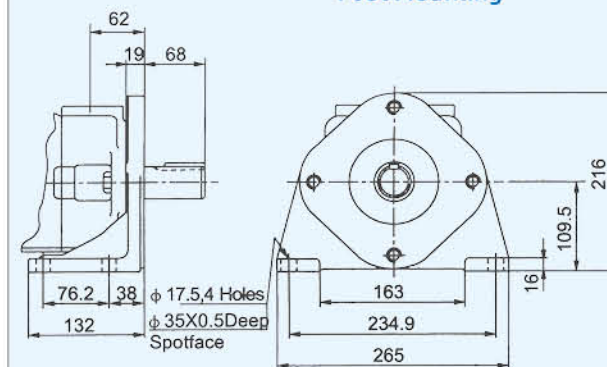


其它轴类尺寸见72页
For other shaft dimensions, refer to page 72

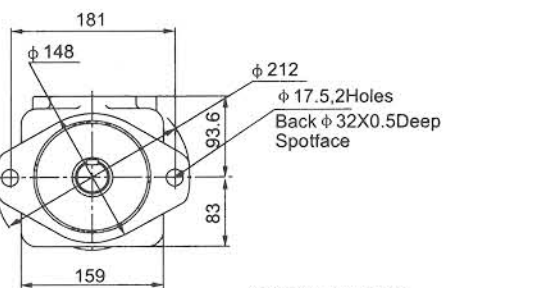
45VQ 法兰安装尺寸 Flange Mounting



45VQ 脚座安装尺寸 Foot Mounting

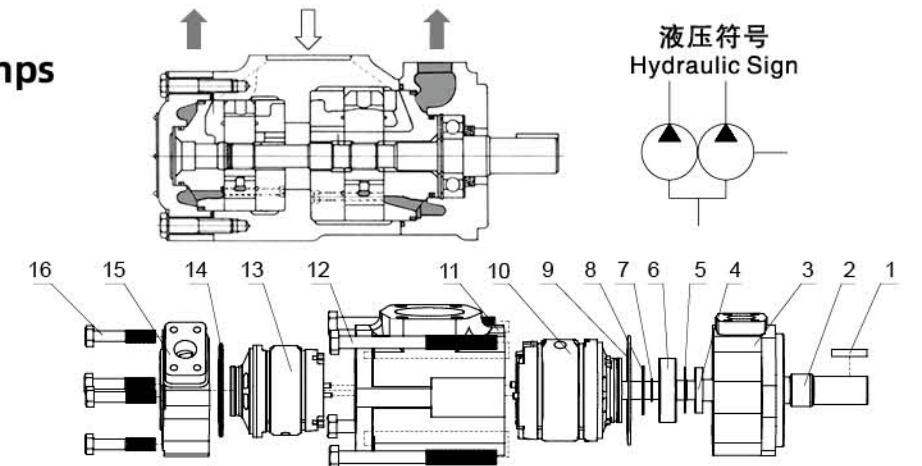


For other dimensions, refer to "Flange Mounting" type.



其它轴类尺寸见72页
For other shaft dimensions, refer to page 72

VQ 系列双联泵 Series-double Pumps



序号NO.	名称Part	数量Qty
1	平键 straight key	1
2	轴 shaft	1
3	前盖 front cover	1
4	油封 shaft seal	1
5	垫片 gasket	1
6	滚动轴承 ball bearing	1

序号NO.	名称Part	数量Qty
7	轴用弹性挡圈 cir clip for shaft	1
8	叠形挡圈 pile type retainer	1
9	O型圈 O ring	1
10	前泵芯 front cartridge	1
11	泵体 body	1
12	六角头螺栓 hexagon headed bolt	4

序号NO.	名称Part	数量Qty
13	后泵芯 rear cartridge	1
14	O型圈 O ring	1
15	后盖 rear cartridge	1
16	六角头螺栓 hexagon headed bolt	4

型号说明 / Model Designation

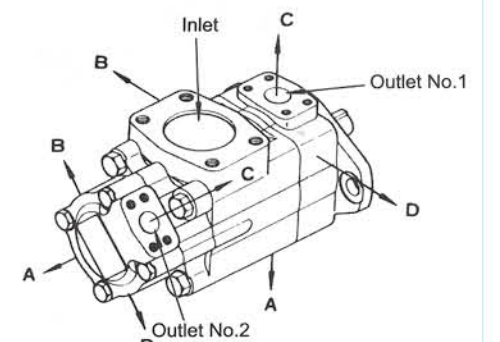
(F3-)	3525VQ	38	A	17	(F)	-1	AB	22	R
前注 Note	系列号 Series	▲轴端泵排量代号 Flow-Shaft end code	油口连接 Port connections	▲盖端泵排量代号 Flow-Cover end code	安装形式 Installation type	轴伸形式 Shaft type	出口口位置 Outlet positions	设计号 Design number	旋转方向 Rotation
无标记 No-marking: 石油系油 Petroleum series oil 乳化液 emulsification fluid 水-乙二醇 water glycol- fluid F3: 磷酸酯液 phosphate ester fluid	2520VQ 3520VQ 3525VQ 4520VQ 4525VQ 4535VQ	10, 12, 14, 15, 17, 19, 21, 25 21, 25, 30, 32, 35, 38, 45 21, 25, 30, 32, 35, 38, 45 42, 45, 50, 57, 60, 66, 75 42, 45, 50, 57, 60, 66, 75 42, 45, 50, 57, 60, 66, 75	A-SAE 4螺栓法兰 4-bolt flange	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14 10, 12, 14, 15, 17, 19, 21, 25 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14 10, 12, 14, 15, 17, 19, 21, 25 21, 25, 30, 32, 35, 38, 45	无标记 No-marking: 法兰安装型 Flange Mounting F-脚座安装型 F-Foot Mounition	1-平键轴 Str key 86-重型平键轴 HD Str key 11-花键轴 Spline	见下表 See below	20	(从泵的轴端看) (Viewed from shaft end of pump) R-顺时针旋转 right hand for clockwise L-逆时针旋转 left hand for counter- clockwise

▲ 在1200r/min 和0.69MPa(100psi)下的额定排量
USgpm Flow(USgpm) at 1200r/min and 0.69MPa

出油口位置 (从泵的盖端看)

Outlet Positions (Viewed from cover end of pump)

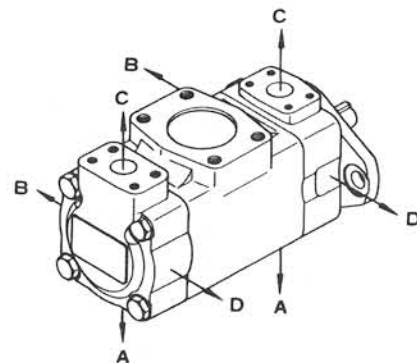
出油口位置 Outlet positions	除4535VQ外的所有系列 All series except 4535VQ	4535VQ
第一出油口在进油口 对面 NO.1 outlet opposite inlet	AA 第二出油口在进油口逆时针转135° NO.2 outlet 135° CCW from inlet AB 第二出油口在进油口逆时针转45° NO.2 outlet 45° CCW from inlet AC 第二出油口在进油口顺时针转45° NO.2 outlet 45° CW from inlet AD 第二出油口在进油口顺时针转135° NO.2 outlet 135° CW from inlet	第二出油口在进油口对面 NO.2 outlet opposite inlet 第二出油口在进油口逆时针转90° NO.2 outlet 90° CCW from inlet 第二出油口在进油口同侧 NO.2 outlet inline with inlet 第二出油口在进油口顺时针转90° NO.2 outlet 90° CW from inlet
第一出油口从进油口 逆时针转90° NO.1 outlet 90° CCW from inlet	BA 第二出油口在进油口逆时针转135° NO.2 outlet 135° CCW from inlet BB 第二出油口在进油口逆时针转45° NO.2 outlet 45° CCW from inlet BC 第二出油口在进油口顺时针转45° NO.2 outlet 45° CW from inlet BD 第二出油口在进油口顺时针转135° NO.2 outlet 135° CW from inlet	第二出油口在进油口对面 NO.2 outlet opposite inlet 第二出油口在进油口逆时针转90° NO.2 outlet 90° CCW from inlet 第二出油口在进油口同侧 NO.2 outlet inline with inlet 第二出油口在进油口顺时针转90° NO.2 outlet 90° CW from inlet



出油口位置 (从泵的盖端看)

Outlet Positions (Viewed from cover end of pump)

出油口位置 Outlet positions		除 4535VQ 外的所有系列 All series except 4535VQ	4535VQ
第一出油口在进油口同侧 NO.1 outlet inline with inlet	CA	第二出油口在进油口逆时针转135° NO.2 outlet 135° CCW from inlet	第二出油口在进油口对面 NO.2 outlet opposite inlet
	CB	第二出油口在进油口逆时针转45° NO.2 outlet 45° CCW from inlet	第二出油口在进油口逆时针转90° NO.2 outlet 90° CCW from inlet
	CC	第二出油口在进油口顺时针转45° NO.2 outlet 45° CW from inlet	第二出油口在进油口同侧 NO.2 outlet inline with inlet
	CD	第二出油口在进油口顺时针转135° NO.2 outlet 135° CW from inlet	第二出油口在进油口顺时针转90° NO.2 outlet 90° CW from inlet
第一出油口从进油口顺时针转90° NO.1 outlet 90° CW from inlet	DA	第二出油口在进油口逆时针转135° NO.2 outlet 135° CCW from inlet	第二出油口在进油口对面 NO.2 outlet opposite inlet
	DB	第二出油口在进油口逆时针转45° NO.2 outlet 45° CCW from inlet	第二出油口在进油口逆时针转90° NO.2 outlet 90° CCW from inlet
	DC	第二出油口在进油口顺时针转45° NO.2 outlet 45° CW from inlet	第二出油口在进油口同侧 NO.2 outlet inline with inlet
	DD	第二出油口在进油口顺时针转135° NO.2 outlet 135° CW from inlet	第二出油口在进油口顺时针转90° NO.2 outlet 90° CW from inlet

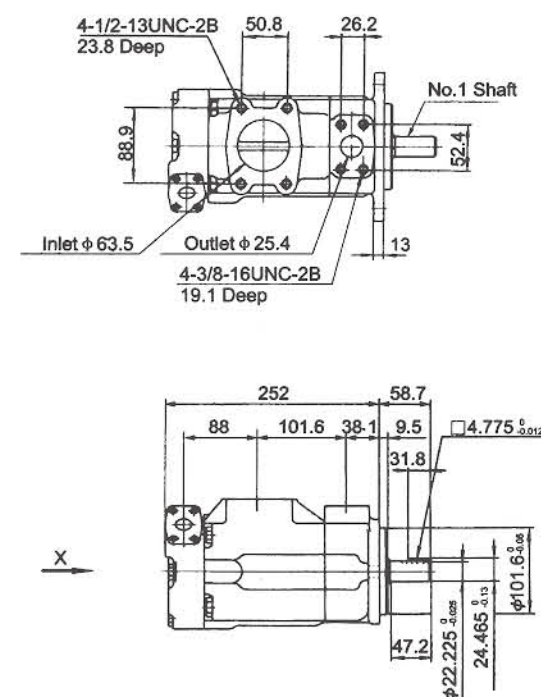


产品重量 / Product Weight

产品名称 Product name	型号 Series	重量 Weight Kg	产品名称 Product name	型号 Series	重量 Weight Kg	产品名称 Product name	型号 Series	重量 Weight Kg
泵芯 Cartridge	20V, 20VQ, SQP1	3.0	单泵 Single pump	20V, 20VQ	13.0	单泵 Single pump	SQP1	16.7
	25V, 25VQ, SQP2	4.0		25V, 25VQ	15.0		SQP2	28.0
	35V, 35VQ, SQP3	7.0		35V, 35VQ	24.0		SQP3	38.0
	45V, 45VQ, SQP4	11.0		45V, 45VQ	37.0		SQP4	65.0
	T6C, T6CC	4.1		T6C	15.7		PV2R1	9.0
	T6D	8.3		T6D	24.0		PV2R2	17.0
	T6E	12.8		T6E	43.0		PV2R3	33.0

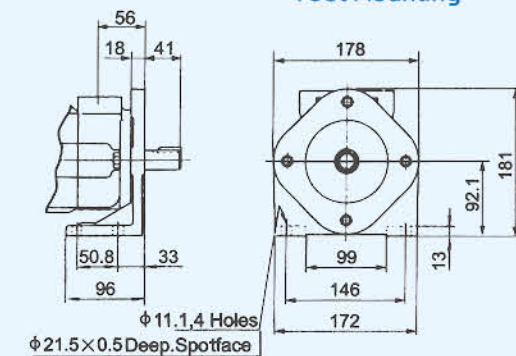
产品名称 Product name	型号 Series	重量 Weight Kg	产品名称 Product name	型号 Series	重量 Weight Kg	产品名称 Product name	型号 Series	重量 Weight Kg
双联泵 Double pumps	2520V, 2520VQ	23.0	双联泵 Double pumps	SQP21	34.0	双联泵 Double pumps	T6CC	26.0
	3520V, 3520VQ	33.0		SQP31	48.0		T6DC	36.6
	3525V, 3525VQ	35.0		SQP32	50.0		T6EC	55.0
	4520V, 4520VQ	46.0		SQP41	80.0		T6ED	66.0
	4525V, 4525VQ	48.0		SQP42	85.0		PV2R21	23.0
	4535V, 4535VQ	58.0		SQP43	95.0		PV2R31	41.0
							PV2R32	45.0

2520VQ 法兰安装尺寸 Flange Mounting

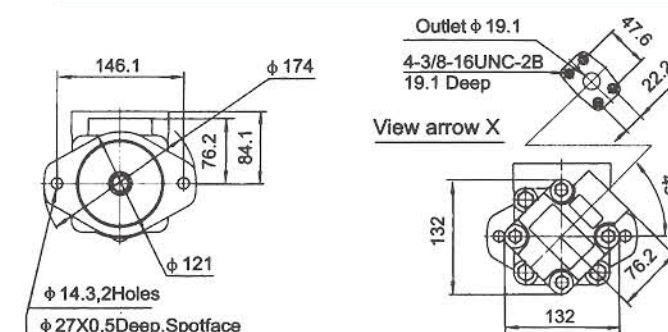


其它轴类尺寸见72页
For other shaft dimensions, refer to page 72

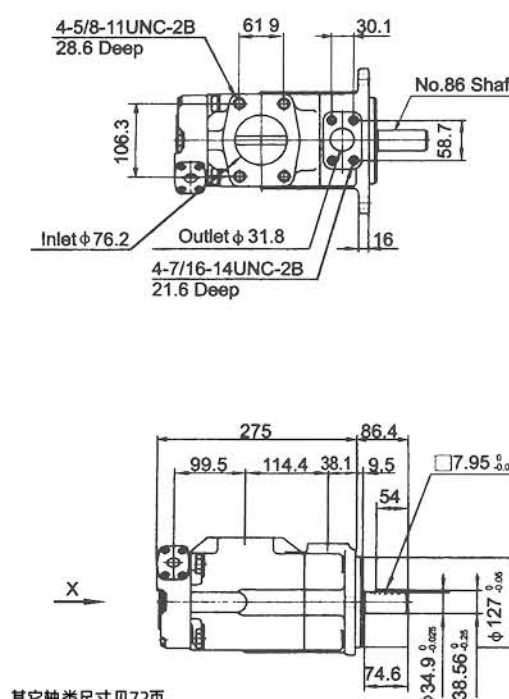
2520VQ 脚座安装尺寸 Foot Mounting



For other dimensions, refer to "Flange Mounting" type.

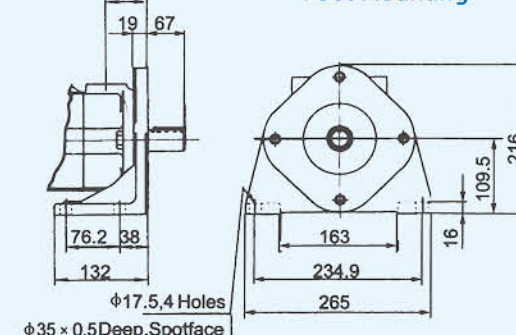


3520VQ 法兰安装尺寸 Flange Mounting

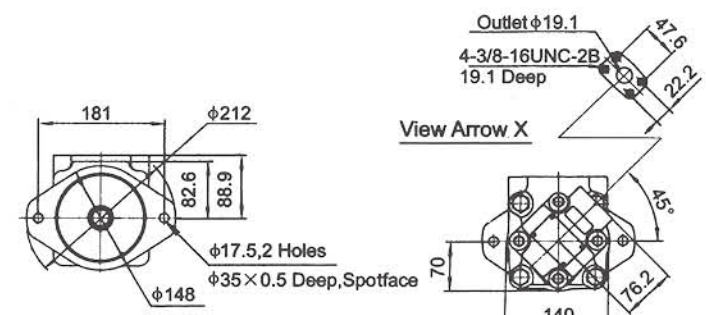


其它轴类尺寸见72页
For other shaft dimensions, refer to page 72

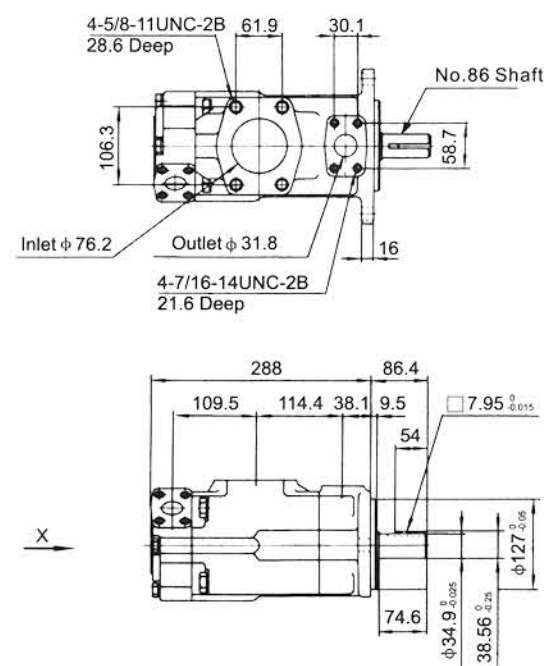
3520VQ 脚座安装尺寸 Foot Mounting



For other dimensions, refer to "Flange Mounting" type.

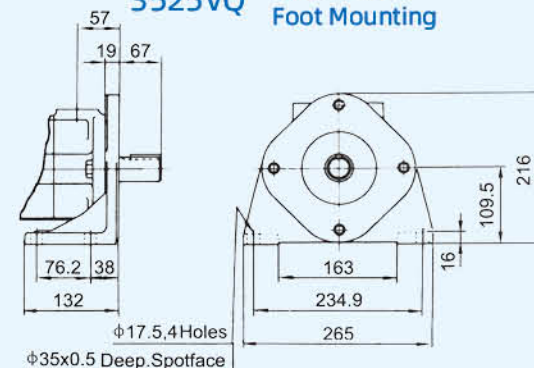


3525VQ 法兰安装尺寸 Flange Mounting



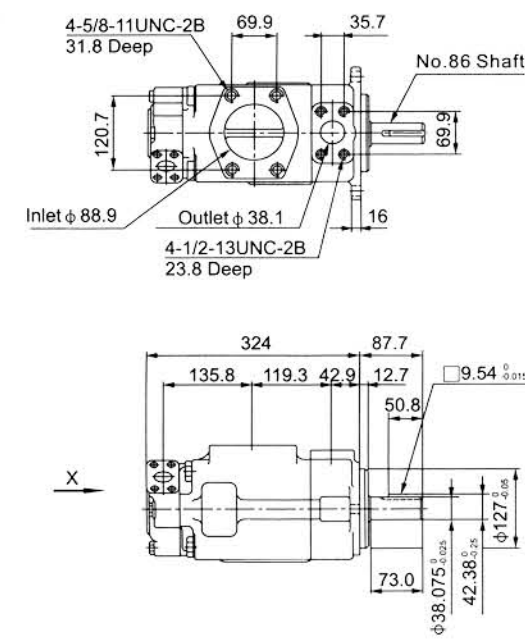
其它轴类尺寸见72页
For other shaft dimensions, refer to page 72

3525VQ 脚座安装尺寸 Foot Mounting



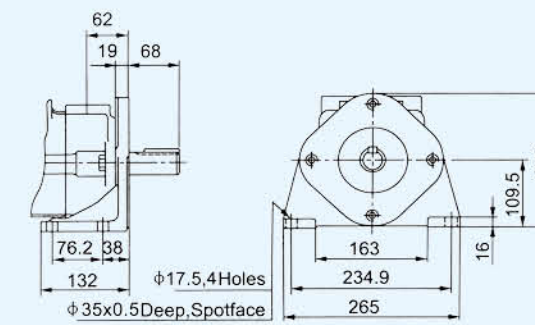
For other dimensions, refer to "Flange Mounting" type.

4525VQ 法兰安装尺寸 Flange Mounting



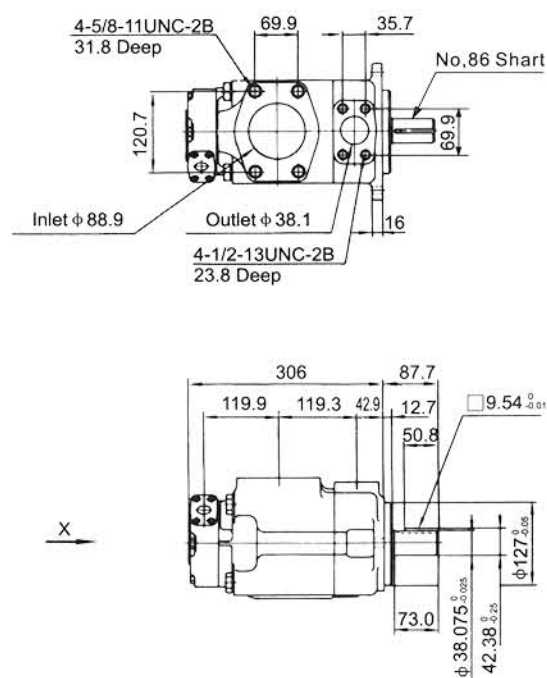
其它轴类尺寸见72页
For other shaft dimensions, refer to page 72

4525VQ 脚座安装尺寸 Foot Mounting



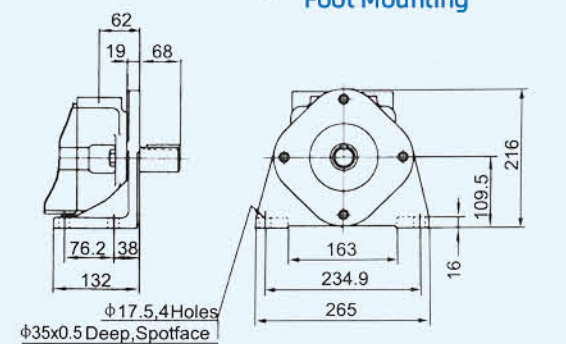
For other dimensions, refer to "Flange Mounting" type.

4520VQ 法兰安装尺寸 Flange Mounting



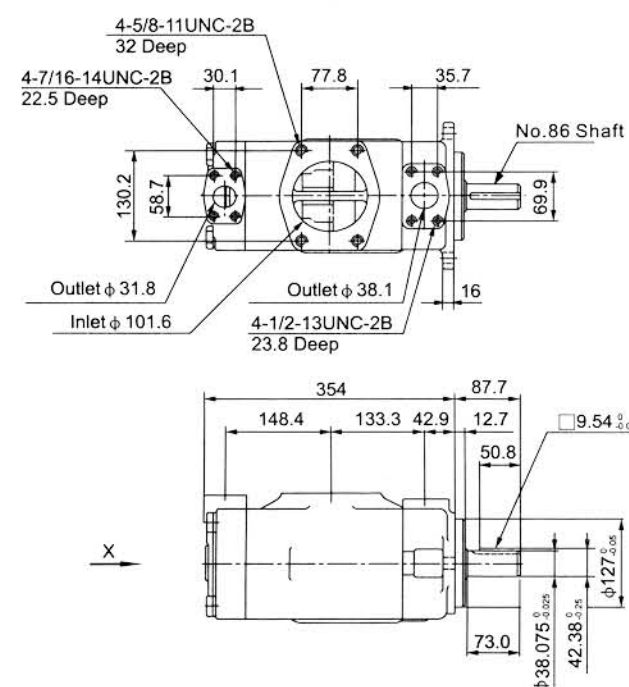
其它轴类尺寸见72页
For other shaft dimensions, refer to page 72

4520VQ 脚座安装尺寸 Foot Mounting



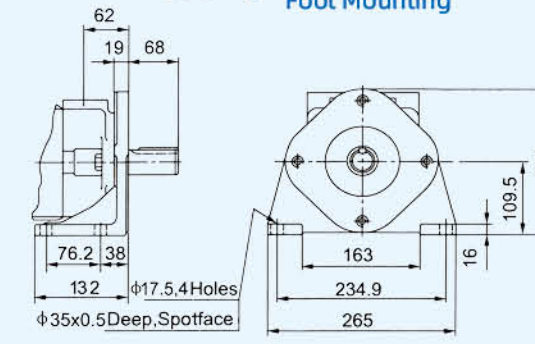
For other dimensions, refer to "Flange Mounting" type.

4535VQ 法兰安装尺寸 Flange Mounting



其它轴类尺寸见72页
For other shaft dimensions, refer to page 72

4535VQ 脚座安装尺寸 Foot Mounting



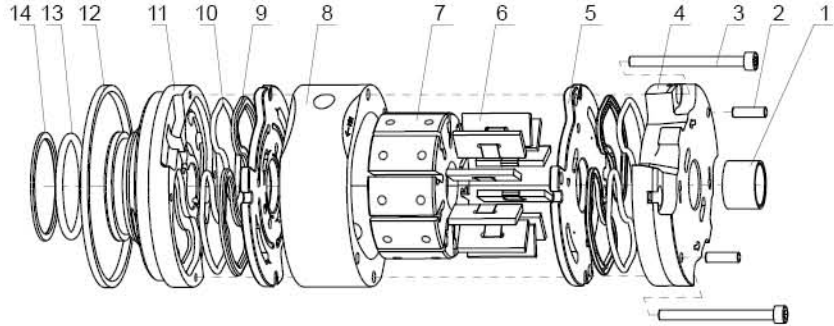
For other dimensions, refer to "Flange Mounting" type.

VQ 系列泵芯
Series-cartridge

型号说明/Model Designation

(F3-)	PC-	25VQ	19	R	10
前注 Note	泵芯标记 Cartridge mark	系列号 Series	▲排量代号 Displacement	旋转方向 Rotation	设计号 Design number
无标记 No-marking: 石油系油 Petroleum series oil 乳化液 emulsification fluid 水-乙二醇 water glycol-fluid F3: 磷酸酯液 phosphate ester fluid	PC-单泵泵芯、双联泵轴端泵芯 Cartridge kit of single pump double pump shaft end PCT-双联泵盖端泵芯 Cartridge kit of double pump cover end	20VQ 25VQ 35VQ 45VQ	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14 10, 12, 14, 15, 17, 19, 21, 25 21, 25, 30, 32, 35, 38, 45 42, 45, 50, 57, 60, 66, 75	(从泵的轴端看) (Viewed from shaft end of pump) R-顺时针旋转 right hand for clockwise L-逆时针旋转 left hand for counter-clockwise	10

▲ 在1200r/min 和0.69MPa(100psi)下的额定排量; 与相应系列、规格的油泵性能参数一致, 详见VQ系列单泵的性能参数。
USgpm Flow(USgpm) at 1200r/min and 0.69MPa.
The data of relevant series, model are unanimous. Please see VQ series-single pumps data.



序号NO.	名称Part	数量Qty	序号NO.	名称Part	数量Qty	序号NO.	名称Part	数量Qty
1	滑动轴承 Sliding bearing	1	6	叶片 vane kit	10	11	压力侧板 outlet support plate	1
2	销 Pin	2	7	转子 Rotor	1	12	挡圈 Retainer	1
3	内六角圆柱头螺钉 Hexagon socket head cap screws	2	8	定子 cam ring	1	13	O型圈 O shape retainer	1
4	侧板 inlet support plate	1	9	异形挡圈 irregular shape retainer	4	14	挡圈 Retainer	1
5	配油盘 valve plate	2	10	O型圈 O shape retainer	4			

技术规格/Specifications

系列号 Series	ΦA	B	C	ΦD	E	ΦF	ΦG	H	K	M(挡圈Gasket)	N(O形圈O-Ring)
20VQ	82.55	81.5	70.1	47.2	61.5	4.8	76.2	7	73.8	82.76×76.26×3.5	40×3.55
25VQ	96.8	98.8	87	52.2	71.2	4.8	90.5	7	88.19	97×91×3.5	44×3.53
35VQ	114.3	117.7	105	72.2	90.3	6.4	108	7	103.94	114.5×108.5×3.5	63.09×3.53
45VQ	133.35	141.1	129.6	80.2	105.5	6.4	127	11	123.8	133.6×127.6×3.5	71×3.55

系列号 Series	转子内花键齿廓参数 Inside spline tooth outline parameter of rotor				
	齿数 Number of teeth	径节 Pitch	压力角 Pressure angle	大径 Major diameter	小径 Minor diameter
20VQ	30	48/96	45°	16.617	15.56
25VQ	40	48/96	45°	21.9	20.86
35VQ	37	40/80	45°	24.38	23.10
45VQ	14	12/24	30°	32.59	27.6

2520VQSV10S 三联泵
Series-treble Pumps



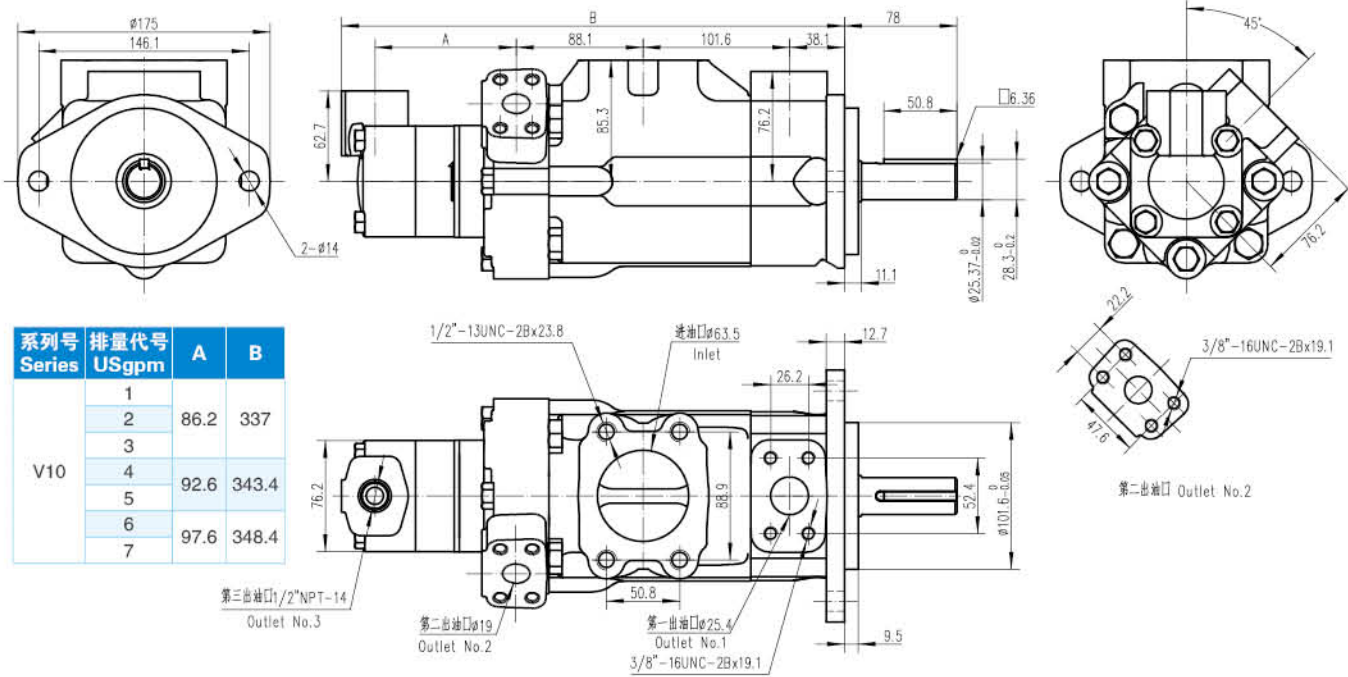
型号说明/Model Designation

(F3-)	2520VQSV10S	-21	A	7	-P	7	-86	C	B	C	-20	R
前注 Note	系列号 Series	轴端泵排量 代号 Flow-shaft end code	双泵油口连接 Double pump port connection	中间泵排量 代号 Flow-mid code	盖端泵油口连接 Flow-cover end pump port connetion	盖端泵排 量代号 Flow-cover end code	轴伸形 式 Shaft type	第一出 油口位 置 No.1 Outlet positions	第二出 油口位 置 No.2 Outlet positions	第三出 油口位 置 No.3 Outlet positions	设计号 Design number	旋转方向 Rotation
无标记 No-marking: 石油系油 Petroleum series oil 乳化液 emulsification fluid 水-乙二醇 water glycol- fluid F3: 磷酸酯液 phosphate ester fluid	2520VQSV10S	10, 12, 14, 15, 17, 19, 21, 25	A- SAE 4螺栓法兰 A- SAE 4-bolt flange	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14	1/2"NPT-14	1, 2, 3, 4, 5, 6, 7	-86 轴 Shaft	见下表 see below	见下表 see below	见下表 see below	-20	(从泵的轴端看) (Viewed from shaft end of pump) R-顺时针旋转 right hand for clockwise L-逆时针旋转 left hand for counter- clockwise

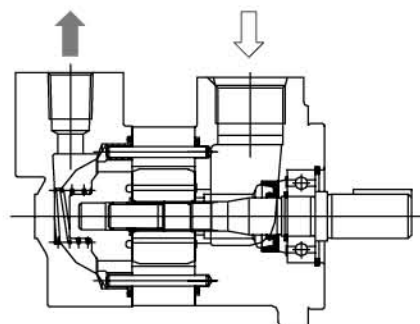
出油口位置代号/Outlet oil port position code

从盖端观察的位置/Views from cover end of pump	No.1 出油口/No.1 Outlet	No.2 出油口/No.2 Outlet	No.3 出油口/No.3 Outlet
在进油口对侧 Oppsite of the inlet oil port	A	-	A
从进油口逆时针135° CCW from the inlet oil port	-	A	-
从进油口逆时针90° CCW from the inlet oil port	B	-	B
从进油口逆时针45° CCW from the inlet oil port	-	B	-
在进油口同侧 Same side of the inlet oil port	C	-	C
从进油口顺时针45° CW from the inlet oil port	-	C	-
从进油口顺时针90° CW from the inlet oil port	D	-	D
从进油口顺时针135° CW from the inlet oil port	-	D	-

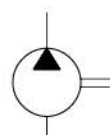
2520VQSV10S安装连接尺寸/Installation Dimensions



V10, 20 系列叶片泵 Series-vane Pumps



液压符号
Hydraulic Sign



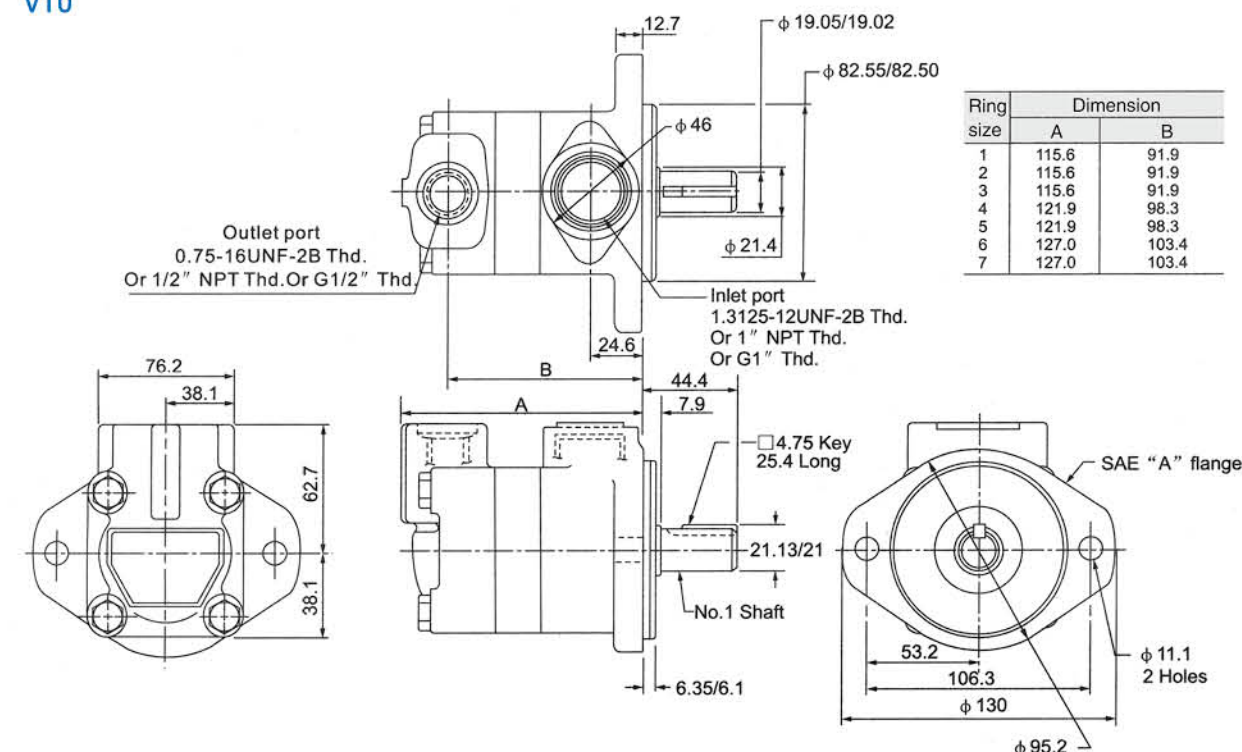
型号说明 / Model Designation

(F3-)	V10	-P	7	S	-1	C	20	-L
前注 Note	系列号 Series	进油口连接 Inlet connection	排量代号 Displacement	出油口连接 Outlet connection	轴伸形式 Shaft type	出油口位置 Outlet positions	设计号 Design number	旋转方向 Rotation
无要求省略 Omit if not required	V10	P-1"NPT Thread S-1.3125-12 Straight B-G1" Thread	1, 2, 3, 4, 5, 6, 7	P-1/2"NPT Thread S-0.750-16 Str.Thread B-G1/2" Thread	1-平键轴 Str key 11-花键轴 Spline	(从泵的盖端看) (Viewed from cover end of pump) A-进油口对面 Opposite inlet B-从进油口逆时针90° 90° CCW from inlet C-进油口同侧 Inline with inlet D-从进油口顺时针90° 90° CW from inlet	20	(从泵的轴端看) (Viewed from shaft end of pump) R-顺时针旋转 right hand for clockwise L-逆时针旋转 left hand for counter- clockwise
F3-: 氟橡胶 Viton seals	V20	P-1-1/4"NPT Thread S-1.625-12 Straight B-G1-1/4" Thread	6, 7, 8, 9, 10, 11, 12, 13	P-3/4"NPT Thread S-1.0625-12 Straight R-1.1875-12 Straight B-G3/4"Thread	38-11teeth-3/4" outside spline shaft 62-spline shaft (only for V20)		10	

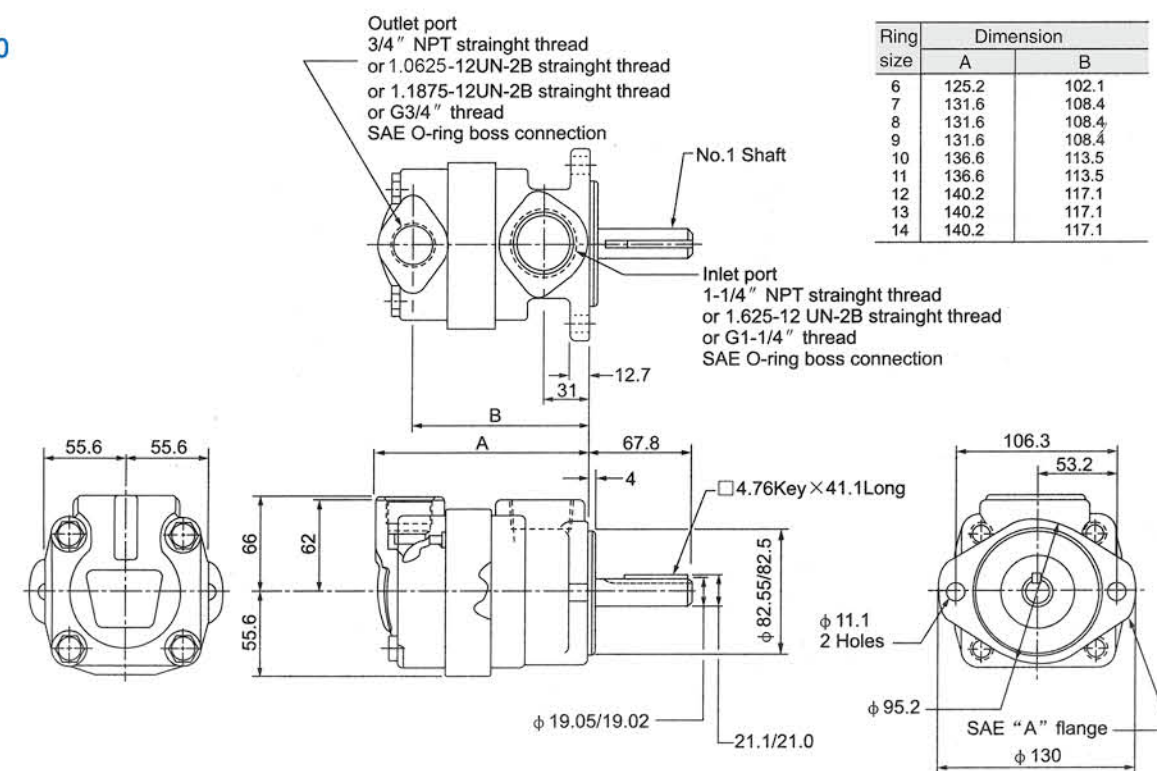
技术参数 / Technical Data

系列号 series	排量代号 Displacement code	几何排量 Geometric displacement mL/r	使用普通液压油和磷酸酯液 With antiwear hydraulic oil or phosphate ester fluid		使用水乙二醇液 With water glycol fluid		使用油包水乳液 With water-oil emulsions	
			最高压力 Mpa Max.pressure	最高转速 r/min Max.speed	最高压力 Mpa Max.pressure	最高转速 r/min Max.speed	最高压力 Mpa Max.pressure	最高转速 r/min Max.speed
V10	1	3.3	17.2	4800	12.4	1800	10.3	1800
	2	6.6		4500				
	3	9.8		4000				
	4	13.1	15.2	3400	10.9	1800	10.9	1800
	5	16.4		3200				
	6	19.5		3000				
V20	7	22.8	17.2	2800	12.4	1800	10.9	1800
	6	19.5		3400				
	7	22.8		3000				
	8	26.5	15.2	2800	10.9	1800	9.3	1800
	9	29.7		2500				
	10	30.0		2400				
	11	36.4	15.2	2400	10.9	1800	9.3	1800
	12	39		2400				
	13	42.4						

V10



V20



V2010, 2020 系列双联泵 Series-double Pumps



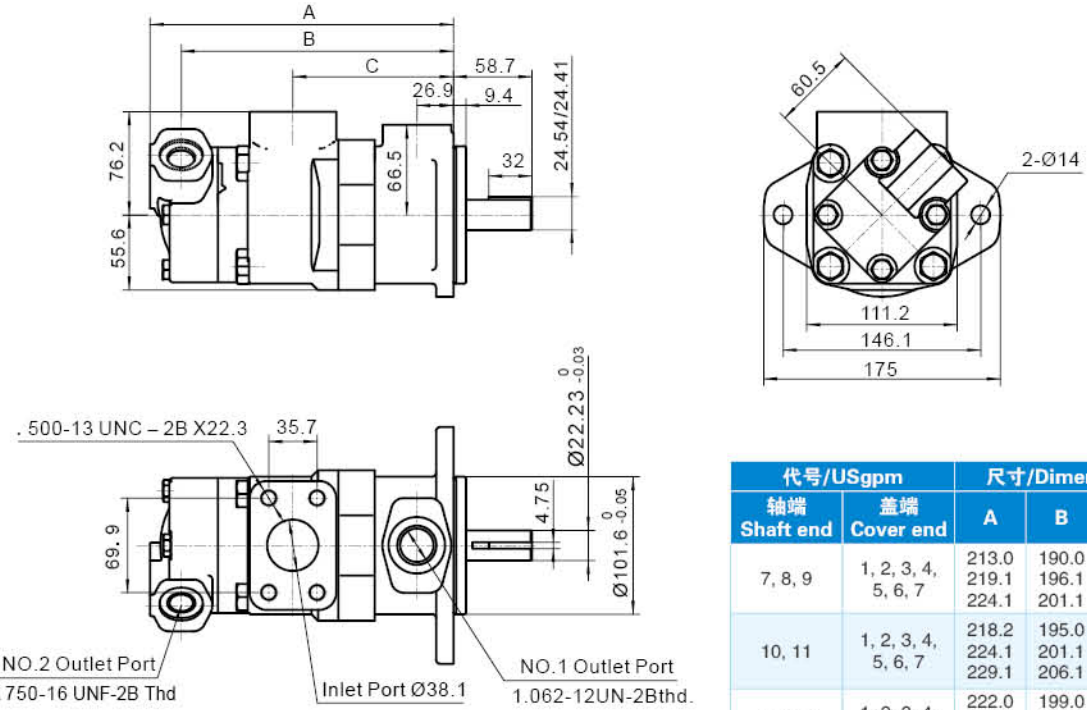
型号说明 / Model Designation

(F3-)	V2010	-1	F	13	S	3	S	-1	CC	-12	-R
前注 Note	系列号 Series	安装 Mounting	进口口连接 Inlet port connections	轴端泵排量代号 Flow-Shaft end pump	第一出口口 No. 1 outlet port	盖端泵排量代号 Flow-cover end pump	第二出口口 No. 2 outlet port	轴伸形式 Shaft type	出口口位置 Outlet positions	设计号 Design number	旋转方向 Rotation
无要求 省略 Omit if not required F3-: 氟橡胶 Viton seals	V2010	1- SAE B 2螺栓法兰4" 止口 2 bolt flange 4" rabbet 6- SAE C 2螺栓法兰 3.25" 止口 2 bolt flange 3.25" rabbet	F- 4 螺栓法兰 bolt flange	6, 7, 8, 9, 10, 11, 12, 13	S-1.062- 12UN- 2Bthd	1, 2, 3, 4, 5, 6, 7	S-.750-16 St.Thd.	-1平键轴 Str key -11花键 轴 spline	见下表 see below	-12	(从泵的轴端看) (Viewed from shaft end of pump) -R 顺时针旋转 right hand for clockwise -L 逆时针旋转 left hand for counter- clockwise
	V2020					6, 7, 8, 9, 10, 11, 12, 13	S-1.062- 12 St.Thd.				

出油口位置 (从泵的盖端看) / Outlet Positions (Viewed from cover end of pump)

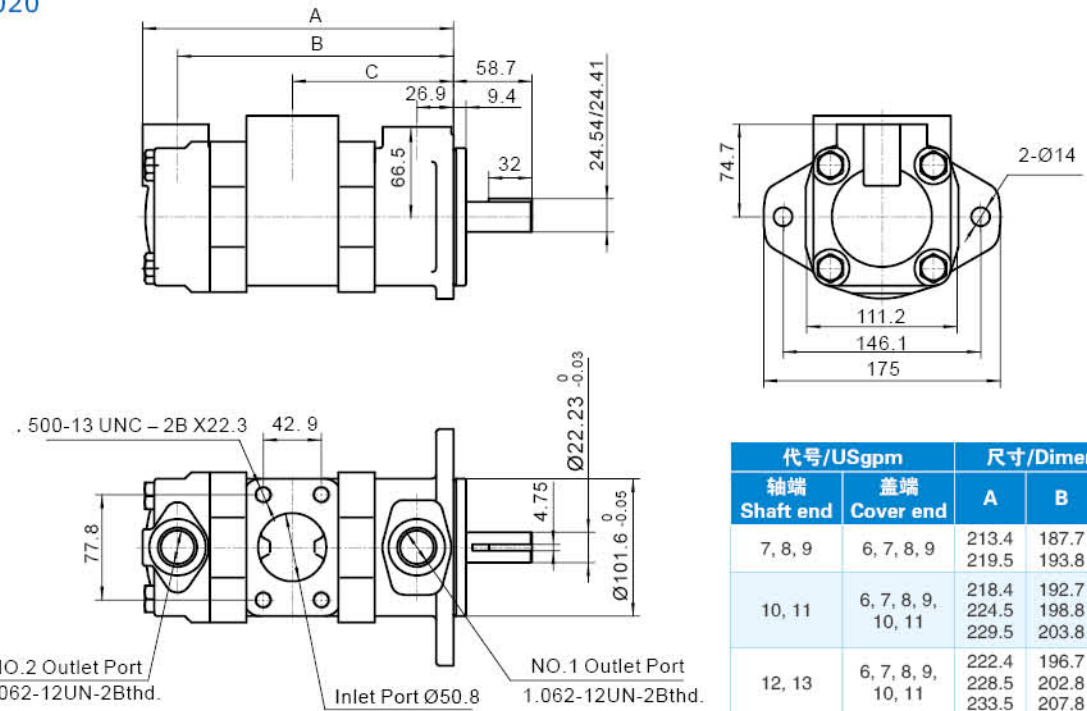
出油口位置/Outlet positions		V2010	V2020
第一出口口在进口口对面 No.1 outlet opposite inlet	AA	第二出口口在进口口逆时针转135° No.2 outlet 135° CCW from inlet	第二出口口在进口口对面 No.2 outlet opposite inlet
	AB	第二出口口在进口口逆时针转45° No.2 outlet 45° CCW from inlet	第二出口口在进口口逆时针转90° No.2 outlet 90° CCW from inlet
	AC	第二出口口在进口口顺时针转45° No.2 outlet 45° CW from inlet	第二出口口在进口口同侧 No.2 outlet inline with inlet
	AD	第二出口口在进口口顺时针转135° No.2 outlet 135° CW from inlet	第二出口口在进口口顺时针转90° No.2 outlet 90° CW from inlet
第一出口口从进口口逆时针转90° No.1 outlet 90° CCW from inlet	BA	第二出口口在进口口逆时针转135° No.2 outlet 135° CCW from inlet	第二出口口在进口口对面 No.2 outlet opposite inlet
	BB	第二出口口在进口口逆时针转45° No.2 outlet 45° CCW from inlet	第二出口口在进口口逆时针转90° No.2 outlet 90° CCW from inlet
	BC	第二出口口在进口口顺时针转45° No.2 outlet 45° CW from inlet	第二出口口在进口口同侧 No.2 outlet inline with inlet
	BD	第二出口口在进口口顺时针转135° No.2 outlet 135° CW from inlet	第二出口口在进口口顺时针转90° No.2 outlet 90° CW from inlet
第一出口口在进口口同侧 No.1 outlet inline with inlet	CA	第二出口口在进口口逆时针转135° No.2 outlet 135° CCW from inlet	第二出口口在进口口对面 No.2 outlet opposite inlet
	CB	第二出口口在进口口逆时针转45° No.2 outlet 45° CCW from inlet	第二出口口在进口口逆时针转90° No.2 outlet 90° CCW from inlet
	CC	第二出口口在进口口顺时针转45° No.2 outlet 45° CW from inlet	第二出口口在进口口同侧 No.2 outlet inline with inlet
	CD	第二出口口在进口口顺时针转135° No.2 outlet 135° CW from inlet	第二出口口在进口口顺时针转90° No.2 outlet 90° CW from inlet
第一出口口从进口口顺时针转90° No.1 outlet 90° CW from inlet	DA	第二出口口在进口口逆时针转135° No.2 outlet 135° CCW from inlet	第二出口口在进口口对面 No.2 outlet opposite inlet
	DB	第二出口口在进口口逆时针转45° No.2 outlet 45° CCW from inlet	第二出口口在进口口逆时针转90° No.2 outlet 90° CCW from inlet
	DC	第二出口口在进口口顺时针转45° No.2 outlet 45° CW from inlet	第二出口口在进口口同侧 No.2 outlet inline with inlet
	DD	第二出口口在进口口顺时针转135° No.2 outlet 135° CW from inlet	第二出口口在进口口顺时针转90° No.2 outlet 90° CW from inlet

V2010



代号/USgpm	尺寸/Dimension			
轴端 Shaft end	盖端 Cover end	A	B	C
7, 8, 9	1, 2, 3, 4, 5, 6, 7	213.0 219.1 224.1	190.0 196.1 201.1	113.5
10, 11	1, 2, 3, 4, 5, 6, 7	218.2 224.1 229.1	195.0 201.1 206.1	118.5
12, 13	1, 2, 3, 4, 5, 6, 7	222.0 228.1 233.1	199.0 205.1 210.1	121.5

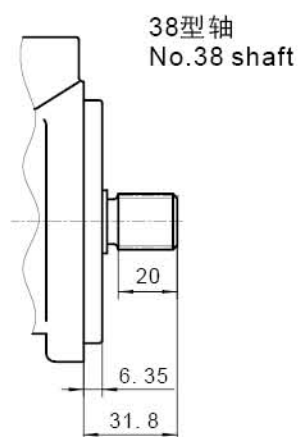
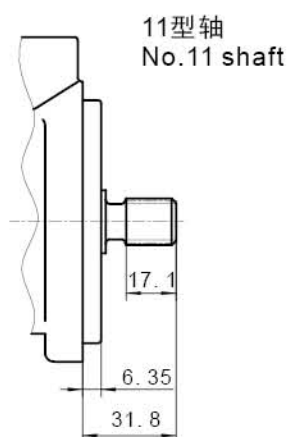
V2020



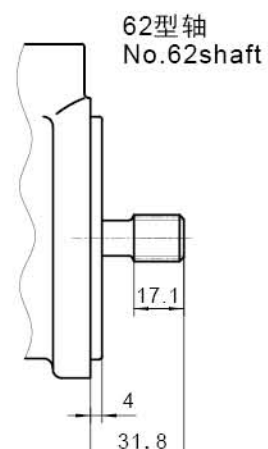
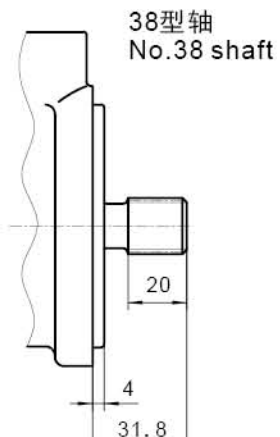
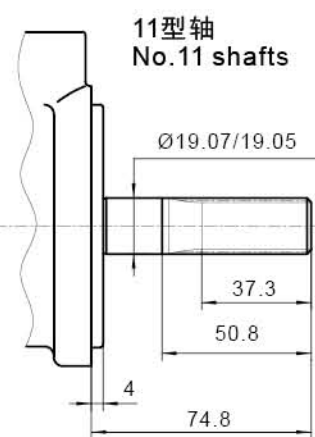
代号/USgpm	尺寸/Dimension			
轴端 Shaft end	盖端 Cover end	A	B	C
7, 8, 9	6, 7, 8, 9	213.4 219.5	187.7 193.8	114.0
10, 11	6, 7, 8, 9, 10, 11	218.4 224.5 229.5	192.7 198.8 203.8	119.0
12, 13	6, 7, 8, 9, 10, 11	222.4 228.5 233.5	196.7 202.8 207.8	122.5

花键轴参数/Splined Shaft Type

V10

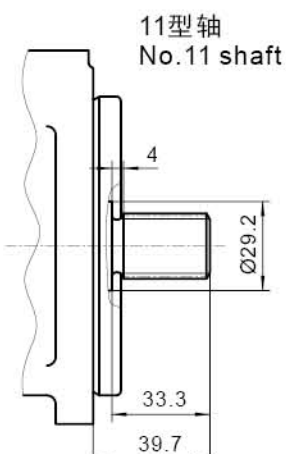


V20



V2010

V2020



渐开线花键参数表/Involute spline data table

型号 Model	轴伸代号 Shaft code	齿数 Number of teeth	径节 Pitch	齿顶圆直径 Major diameter	节圆直径 Pitch diameter	齿根圆直径 Minor diameter	配合形式 Suitable for
V10	11	9	16/32	15.82/15.80	14.29	12.28/12.00	齿顶 Tooth tip
	38	11	16/32	18.63/18.50	17.46	15.24/14.99	齿侧 Tooth side
V20	11	11	16/32	19.01/18.93	17.46	15.90/15.62	齿侧 Tooth side
	38	11	16/32	18.63/18.50	17.46	15.24/14.99	齿侧 Tooth side
	62	9	16/32	15.82/15.80	14.29	12.28/12.00	齿顶 Tooth tip
V2010 V2020	11	13	16/32	22.17/22.15	19.03	18.63/18.35	齿顶 Tooth tip

SQP 系列叶片泵—适合工业应用的更低噪音的母子叶片泵 Series-vane Pumps

—Applicable to industrial applications of the cluster of lower noise vane pump

本系列是专为低噪音工况而开发的高压高性能母子叶片泵。适用于塑料机械、压铸机械、机床以及工程机械等要求噪音较低的液压系统中。

其主要特点:

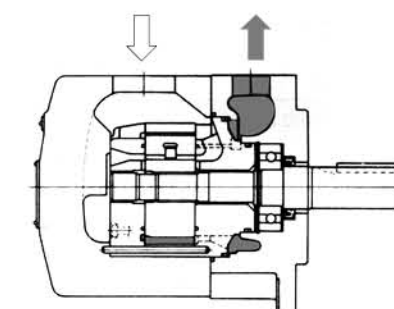
- 1、泵芯使用V系列母子叶片泵泵芯,完全互换,使用更灵活方便。
- 2、增加了脉动衰减结构的设计,极大降低了压力的脉动,使噪音更低,音质更流畅。
- 3、使用加厚的外壳设计,增加了泵的强度和抗振性,同时消音性能更优越。

This series vane pumps are high pressure and high performance intra-vane pumps, which are specially developed for low noise working condition. They are widely applied in hydraulic system for machine-tools, presses, die casting machines, engineering plastic injection moulding and other machineries, which all for lower noise.

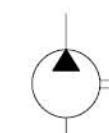
Main Features:

1. Cartridge kits are entirely similar to those of Vickers stable V series pumps which can be interchanged with cartridge kits of SQP series.
2. New configuration design gets an excellent performance in restraining pulsing and noise.
3. Strengthened pump housing design offers a better anti-vibration ability, which effect the remarkable low noise.

SQP 系列单泵 Series-single Pumps



液压符号
Hydraulic Sign



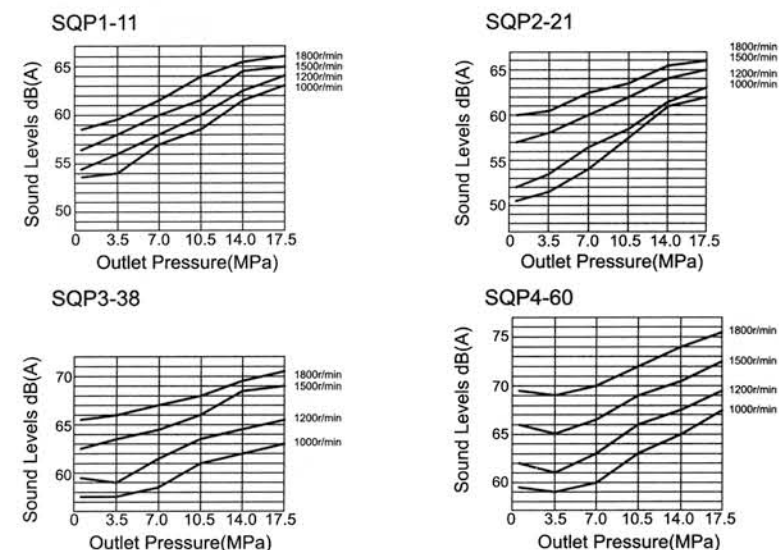
型号说明/Model Designation

(F3-)	SQP2	-21	-1	C	(F)	-(LH)	-18
前注、油液相溶性 Infuse front, oil intermiscibility	系列号 Series	▲排量代号 Displacement code	轴伸形式 Shaft type	出油口位置 Outlet positions	安装形式 Installation type	旋转方向 Rotation	设计号 Design number
无标记— 抗磨液压油、 水-乙二醇液或 油包水乳液 No-marking: Anti-wear hydraulic oil, Water glycol fluid or water-oil emulsions F3— 磷酸酯液 phosphate ester fluid	SQP1	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14	1-带键直轴 Belt key straight shaft	(从泵的盖端看) (Viewed from cover end of pump) A-进油口对面 Opposite inlet B-从进油口逆时针90° 90° CCW from inlet C-进油口同侧 Inline with inlet D-从进油口顺时针90° 90° CW from inlet	无标记 No-marking: 法兰安装型 Flange Mounting F-脚座安装型 F-Foot Mounion	(从泵的轴端看) (Viewed from shaft end of pump) LH-逆时针旋转 Left hand for counter clockwise 无标记-顺时针旋转 No-marking-Rihgt hand for clockwise	15
	SQP2	10, 12, 14, 15, 17, 19, 21, 25	86-重型带键 直轴 Heavy belt key straight shaft				18
	SQP3	21, 25, 30, 32, 35, 38, 45					
	SQP4	42, 45, 50, 57, 60, 66, 75					

▲ 在1200r/min 和0.69MPa(100psi)下的额定排量。
USgpm Flow(USgpm) at 1200r/min and 0.69MPa.

噪音数据 / Noise Data

测试条件 ISO VG32, (50°C), 距离 1m Test condition ISO VG32, (50°C), distance 1m



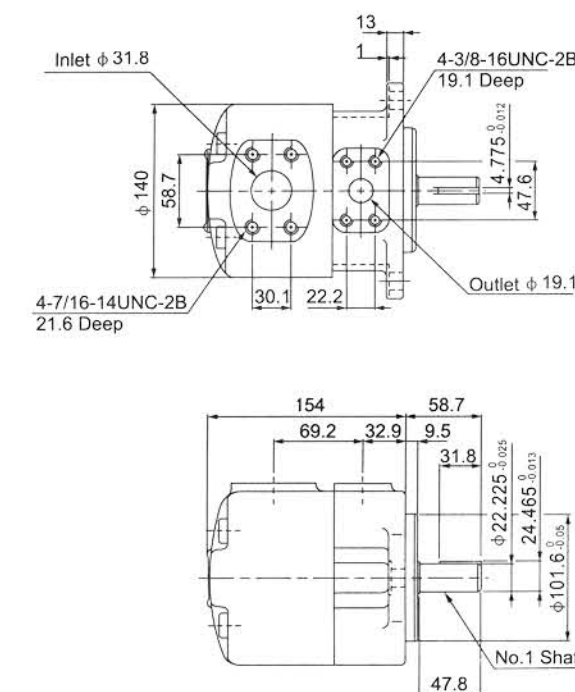
技术参数 / Technical Data

系列号 Series	●排量代号 Displacement code	几何排量 Geometric displacement mL/r	▲使用抗磨液压油或磷酸酯液 With antiwear hydraulic oil or phosphate ester fluid		使用水乙二醇液 With water glycol fluid		使用油包水乳化液 With water-oil emulsions		最低转速 Min. speed r/min				
			最高压力MPa Max. pressure	最高转速r/min Max. speed	最高压力MPa Max. pressure	最高转速r/min Max. speed	最高压力MPa Max. pressure	最高转速r/min Max. speed					
SQP1	2	7.5	13.8	1800	13.8	1200	6.9	1200	600				
	3	10.2											
	4	12.8											
	5	16.7											
	6	19.2											
	7	22.9	17.2		15.9					1200	6.9	1200	600
	8	26.2											
	9	28.8											
	10	31.0											
	11	35.0											
12	37.9	15.7	13.8	1200	6.9	1200	600						
14	44.2												
SQP2	10	32.5	17.2	1800	15.9	1200	6.9	1200	600				
	12	38.3											
	14	43.3											
	15	46.7											
	17	52.5											
	19	59.2											
	21	65.0											
SQP3	21	66.7	17.2	1800	15.9	1200	6.9	1200	600				
	25	79.2											
	30	95.0											
	32	100											
	35	109											
	38	118											
SQP4	42	134	17.2	1800	15.9	1200	6.9	1200	600				
	45	140											
	50	156											
	57	178											
	60	189											
	66	207											
	75	237	13.8		1200					6.9	1200	600	

● 在 1200r/min 和 0.69MPa(100psi) 下的额定排量
USgpm Flow(USgpm) at 1200r/min and 0.69MPa

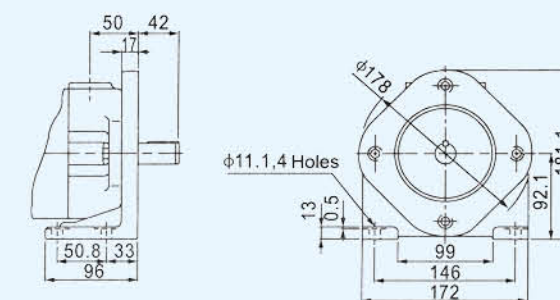
▲ 0.5秒内, 允许超过最高压力10%的瞬时压力。
Permit surpassing the top pressure 10% instantaneous pressure, within 0.5 Second.

SQP1 法兰安装尺寸 Flange Mounting

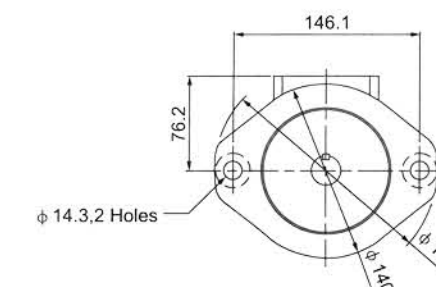


其它轴类尺寸见72页
For other shaft dimensions, refer to page 72

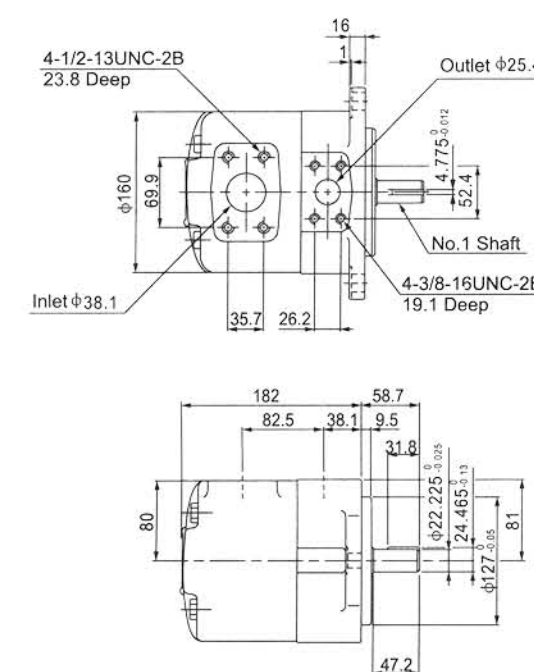
SQP1 脚座安装尺寸 Foot Mounting



For other dimensions, refer to "Flange Mounting" type

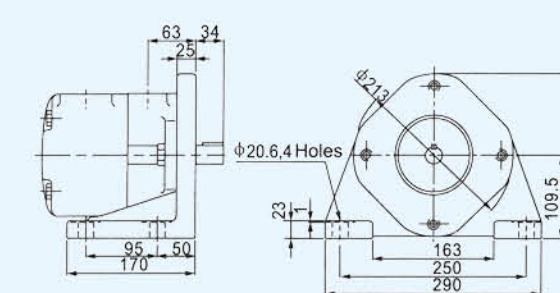


SQP2 法兰安装尺寸 Flange Mounting

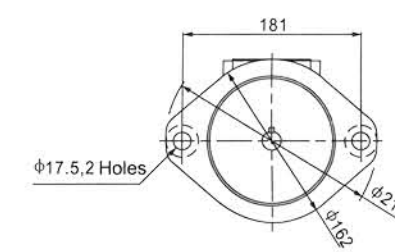


其它轴类尺寸见72页
For other shaft dimensions, refer to page 72

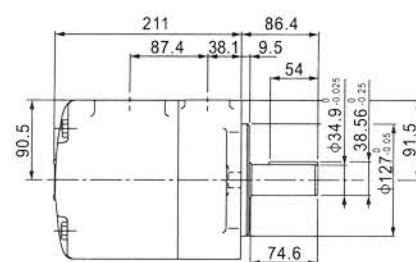
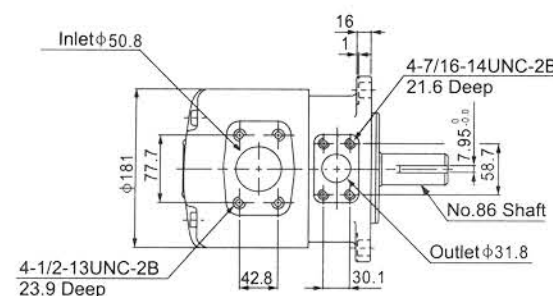
SQP2 脚座安装尺寸 Foot Mounting



For other dimensions, refer to "Flange Mounting" type

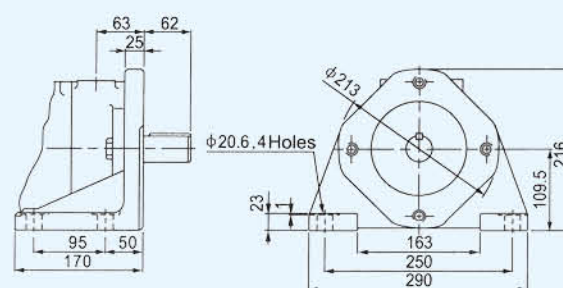


SQP3 法兰安装尺寸 Flange Mounting

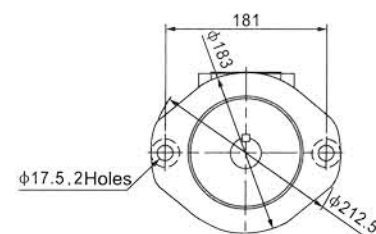


其它轴类尺寸见72页
For other shaft dimensions, refer to page 72

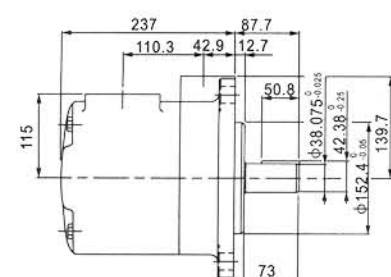
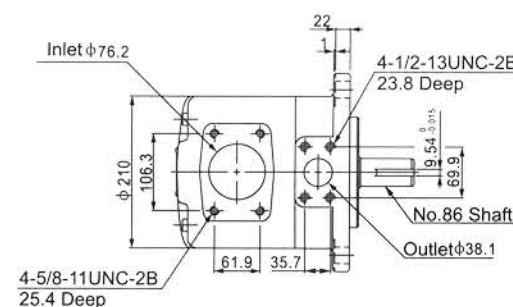
SQP3 脚座安装尺寸 Foot Mounting



For other dimensions, refer to "Flange Mounting" type

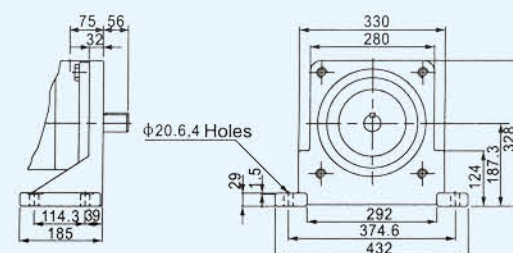


SQP4 法兰安装尺寸 Flange Mounting

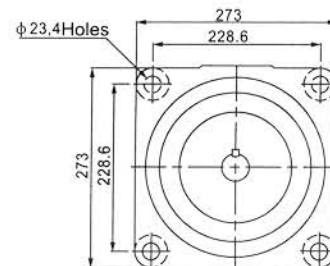


其它轴类尺寸见72页
For other shaft dimensions, refer to page 72

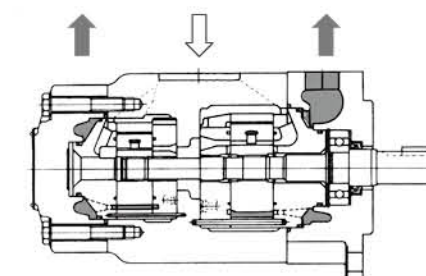
SQP4 脚座安装尺寸 Foot Mounting



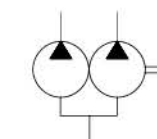
For other dimensions, refer to "Flange Mounting" type



SQP 系列双联泵 Series-double Pumps



液压符号
Hydraulic Sign



型号说明 / Model Designation

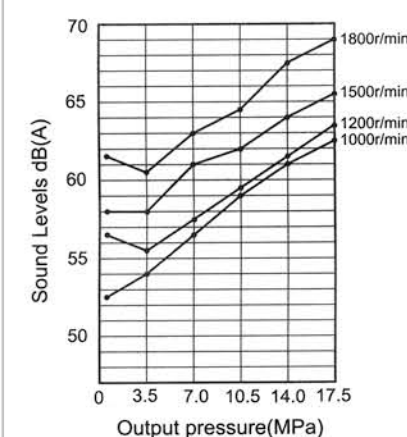
(F3-)	SQP32	-35	-17	-86	CD	(F)	-(LH)	-18
前注、油液相溶性 Infuse front, oil intermiscibility	系列号 Series	▲排量代号轴端泵 Displacement code of shaft end pump	▲排量代号盖端泵 Displacement code of cover end pump	轴伸形式 Shaft type	油口位置 Port positions	安装形式 Installation type	旋转方向 Rotation	设计号 Design number
无标记— 抗磨液压油、 水-乙二醇液或 油包水乳液 No-marking: Anti-wear hydraulic oil, Water glycol fluid or water-oil emulsions F3— 磷酸酯液 phosphate ester fluid	SQP21	10, 12, 14, 15, 17, 19, 21, 25	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14	1-带键直轴 Belt key straight shaft 86-重型带键直 轴 Heavy belt key straight shaft	见下表 See below	无标记 No-marking: 法兰安装型 Flange Mounting F— 脚座安装型 F-Foot Mounion	(从泵的轴端看) (Viewed from shaft end of pump) LH-逆时针旋转 Left hand for counter clockwise 无标记-顺时针旋转 No marking-Rihgt hand for clockwise	18
	SQP31	21, 25, 30, 32, 35, 38, 45	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14					
	SQP32	21, 25, 30, 32, 35, 38, 45	10, 12, 14, 15, 17, 19, 21, 25					
	SQP41	42, 45, 50, 57, 60, 66, 75	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14					
	SQP42	42, 45, 50, 57, 60, 66, 75	10, 12, 14, 15, 17, 19, 21, 25					
	SQP43	42, 45, 50, 57, 60, 66, 75	21, 25, 30, 32, 35, 38, 45					

▲ 在1200r/min 和0.69MPa(100psi)下的额定排量。
USgpm Flow(USgpm) at 1200r/min and 0.69MPa.

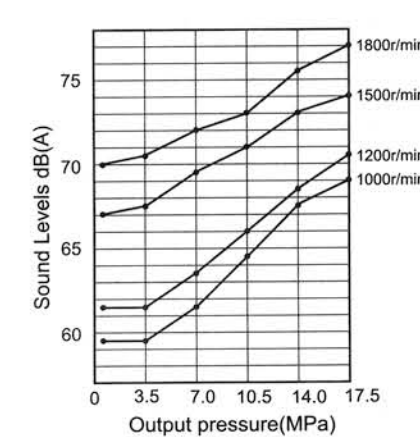
噪音数据 / Noise Data

测试条件ISO VG32, (50℃), 距离1m Test condition ISO VG32, (50℃), distance 1m

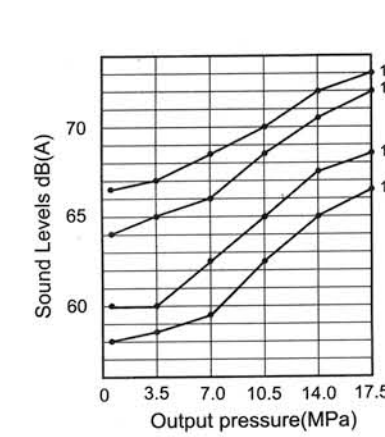
SQP21-17-8



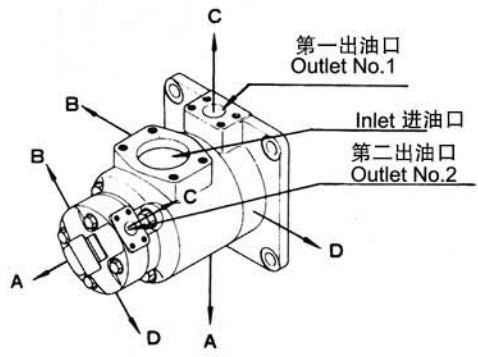
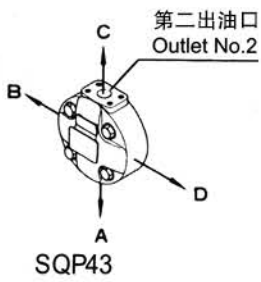
SQP43-50-35



SQP32-35-17



油口位置（从泵的盖端看）
Outlet Positions (Viewed from cover end of pump)

油口位置 Port Connection			
			
油口位置 Port positions		所有系列 (除SQP43外) All series (except SQP43)	SQP43系列 SQP43 series
第一出油口 在进油口对侧 No.1 outlet opposite inlet	AA	第二出油口在进油口逆时针转135° No.2 outlet 135° CCW from inlet	第二出油口在进油口对侧 No.2 outlet opposite inlet
	AB	第二出油口在进油口逆时针转45° No.2 outlet 45° CCW from inlet	第二出油口在进油口逆时针转90° No.2 outlet 90° CCW from inlet
	AC	第二出油口在进油口顺时针转45° No.2 outlet 45° CW from inlet	第二出油口在进油口同侧 No.2 outlet inline with inlet
	AD	第二出油口在进油口顺时针转135° No.2 outlet 135° CW from inlet	第二出油口在进油口顺时针转90° No.2 outlet 90° CW from inlet
第一出油口 从进油口逆时针转90° No.1 outlet 90° CCW from inlet	BA	第二出油口在进油口逆时针转135° No.2 outlet 135° CCW from inlet	第二出油口在进油口对侧 No.2 outlet opposite inlet
	BB	第二出油口在进油口逆时针转45° No.2 outlet 45° CCW from inlet	第二出油口在进油口逆时针转90° No.2 outlet 90° CCW from inlet
	BC	第二出油口在进油口顺时针转45° No.2 outlet 45° CW from inlet	第二出油口在进油口同侧 No.2 outlet inline with inlet
	BD	第二出油口在进油口顺时针转135° No.2 outlet 135° CW from inlet	第二出油口在进油口顺时针转90° No.2 outlet 90° CW from inlet
第一出油口 在进油口同侧 No.1 outlet inline with inlet	CA	第二出油口在进油口逆时针转135° No.2 outlet 135° CCW from inlet	第二出油口在进油口对侧 No.2 outlet opposite inlet
	CB	第二出油口在进油口逆时针转45° No.2 outlet 45° CCW from inlet	第二出油口在进油口逆时针转90° No.2 outlet 90° CCW from inlet
	CC	第二出油口在进油口顺时针转45° No.2 outlet 45° CW from inlet	第二出油口在进油口同侧 No.2 outlet inline with inlet
	CD	第二出油口在进油口顺时针转135° No.2 outlet 135° CW from inlet	第二出油口在进油口顺时针转90° No.2 outlet 90° CW from inlet
第一出油口 从进油口顺时针转90° No.1 outlet 90° CW from inlet	DA	第二出油口在进油口逆时针转135° No.2 outlet 135° CCW from inlet	第二出油口在进油口对侧 No.2 outlet opposite inlet
	DB	第二出油口在进油口逆时针转45° No.2 outlet 45° CCW from inlet	第二出油口在进油口逆时针转90° No.2 outlet 90° CCW from inlet
	DC	第二出油口在进油口顺时针转45° No.2 outlet 45° CW from inlet	第二出油口在进油口同侧 No.2 outlet inline with inlet
	DD	第二出油口在进油口顺时针转135° No.2 outlet 135° CW from inlet	第二出油口在进油口顺时针转90° No.2 outlet 90° CW from inlet

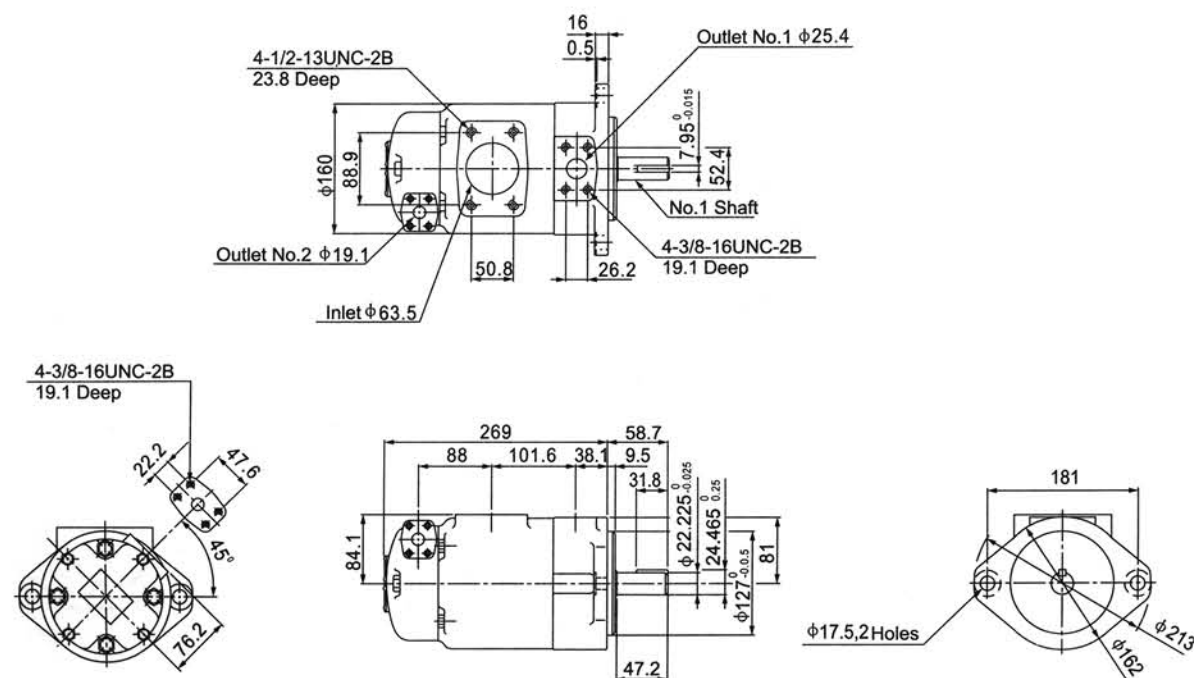
技术参数 / Technical Data

系列号 Series	轴端泵（第一出油口） Shaft end pump (No.1 outlet)			盖端泵（第二出油口） Cover end pump (No.2 outlet)			最高转速 r/min Max. speed	最低转速 Min. speed r/min
	●排量代号 Displacement code	几何排量mL/r Geometric displacement	最大压力MPa Max. pressure	●排量代号 Displacement code	几何排量mL/r Geometric displacement	最大压力MPa Max. pressure		
SQP21	10	32.5	▲同SQP2 As SQP2	2	7.5	▲同SQP1 As SQP1	同SQP系列 单泵 As SQP Series single pumps	600
	12	38.3		3	10.2			
	14	43.3						
	15	46.7						
	17	52.5						
	19	59.2						
	21	65.0						
25	79.2	6	19.2					
SQP31	21			66.7	7	22.9		
	25			79.2				
	30			95.0				
	32			100				
	35			109				
	38			118				
45	140	8	26.2					
SQP41	42			134	9	28.8		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	10	31.0					
SQP32	21			66.7	12	38.3		
	25			79.2				
	30			95.0				
	32			100				
	35			109				
	38	118						
45	140	14	43.3					
SQP42	42			134	15	46.7		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	17	52.5					
SQP43	42			134	19	59.2		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	21	65.0					
SQP43	42			134	25	79.2		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	21	66.7					
SQP43	42			134	25	79.2		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	30	95.0					
SQP43	42			134	32	100		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	35	109					
SQP43	42			134	38	118		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			140				
	50			156				
	57			178				
	60			189				
	66	207						
75	237	45	140					
SQP43	42			134	45	140		
	45			14				

● 在1200r/min 和0.69MPa(100psi)下的额定排量
USgpm Flow(USgpm) at 1200r/min and 0.69MPa

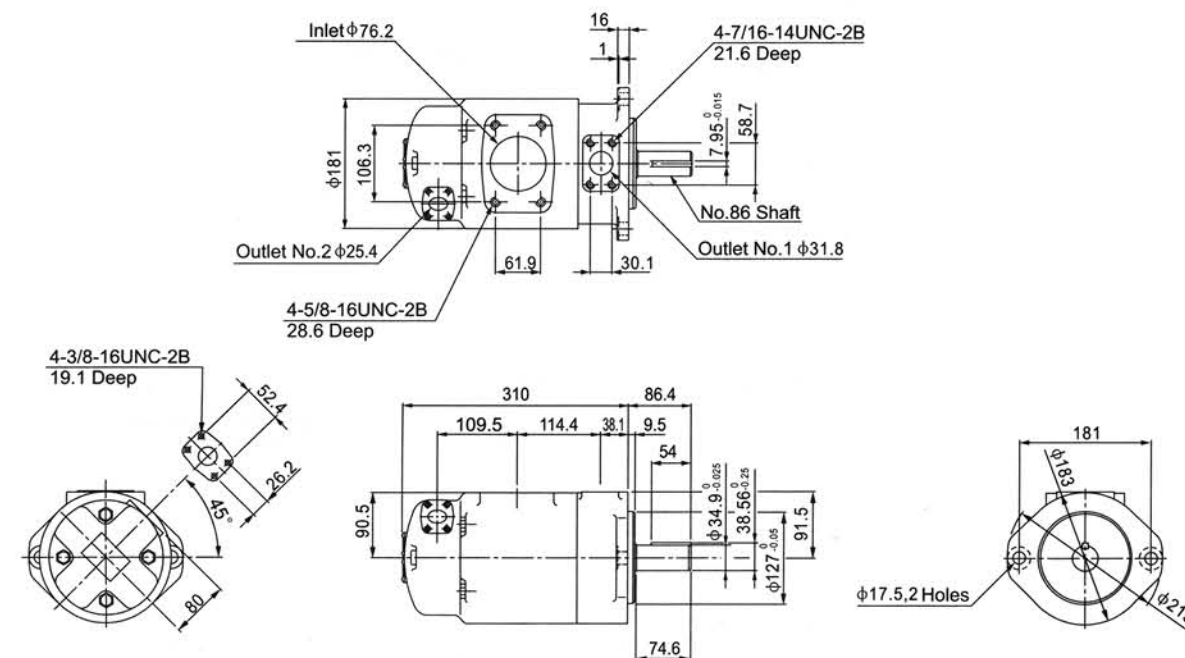
▲ 0.5秒内，允许超过最高压力10%的瞬时压力。
Permit surpassing the top pressure 10% instantaneous pressure, within 0.5 second.

SQP21 法兰安装尺寸 Flange Mounting



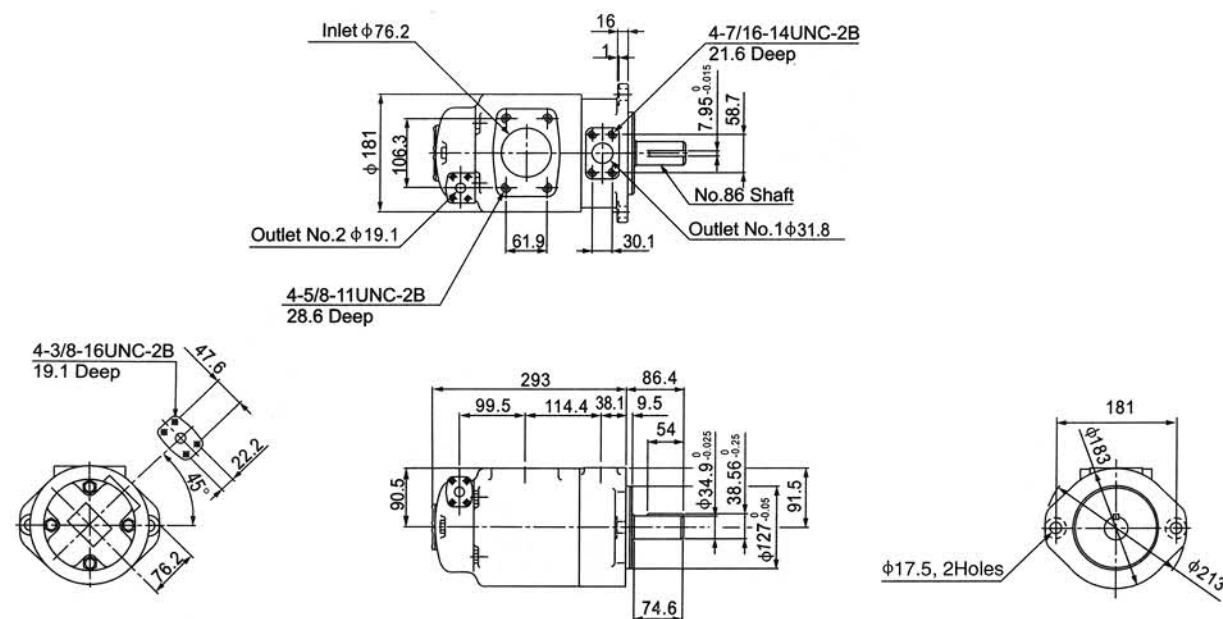
其它轴类尺寸见72页
For other shaft dimensions, refer to page 72

SQP32 法兰安装尺寸 Flange Mounting



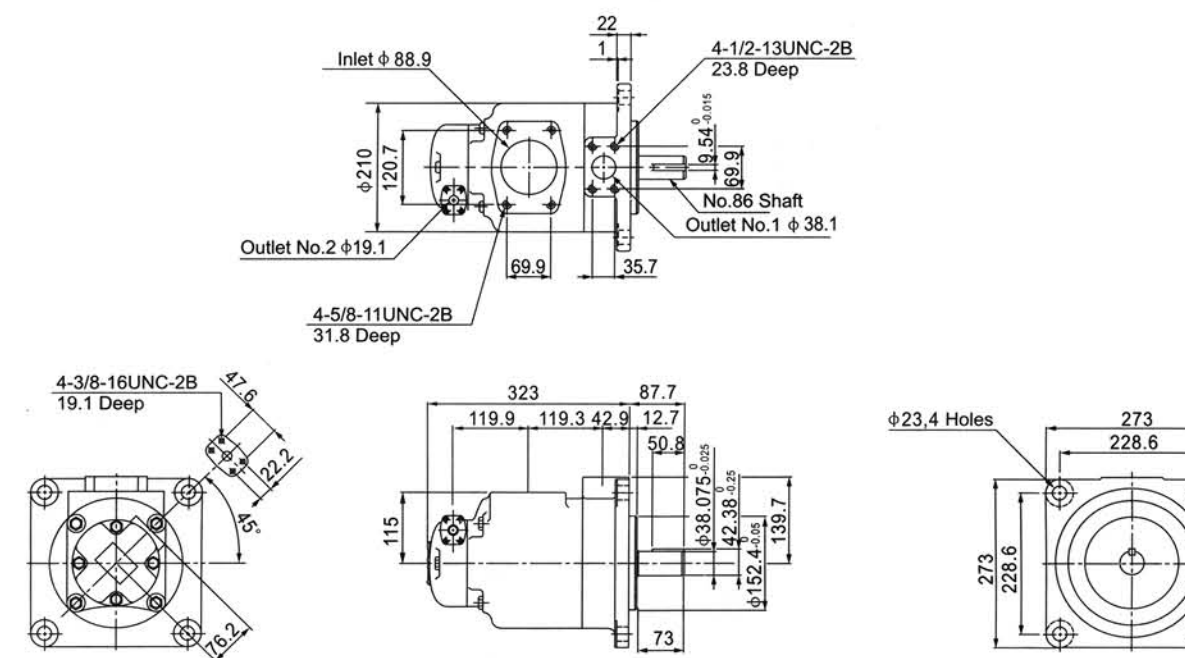
其它轴类尺寸见72页
For other shaft dimensions, refer to page 72

SQP31 法兰安装尺寸 Flange Mounting



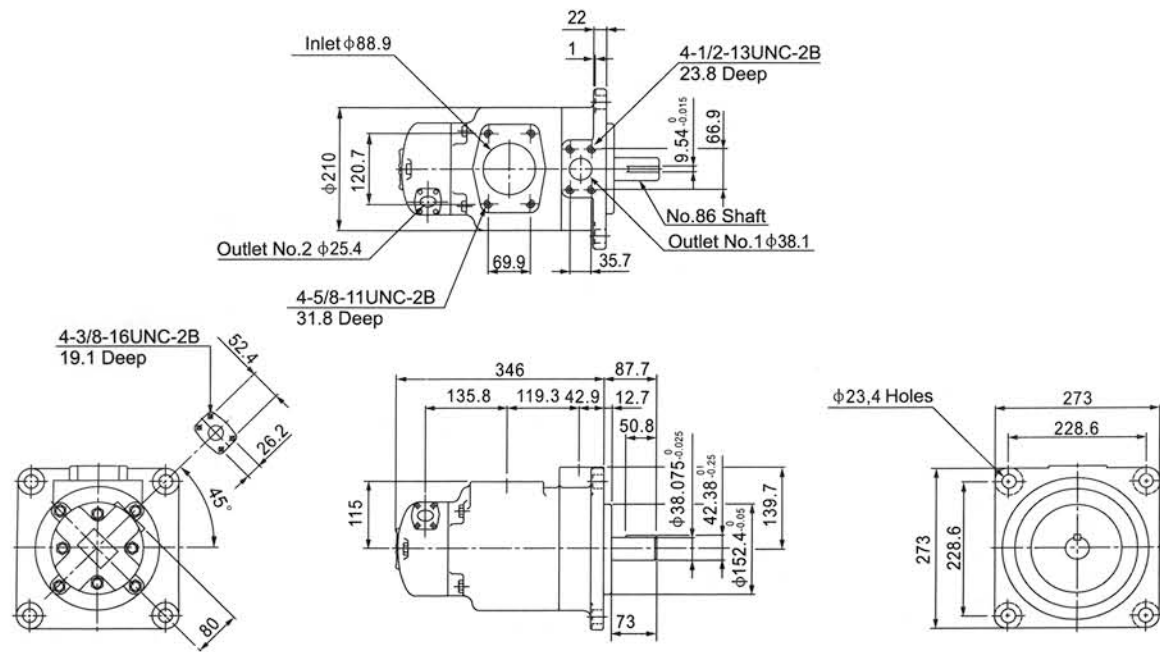
其它轴类尺寸见72页
For other shaft dimensions, refer to page 72

SQP41 法兰安装尺寸 Flange Mounting



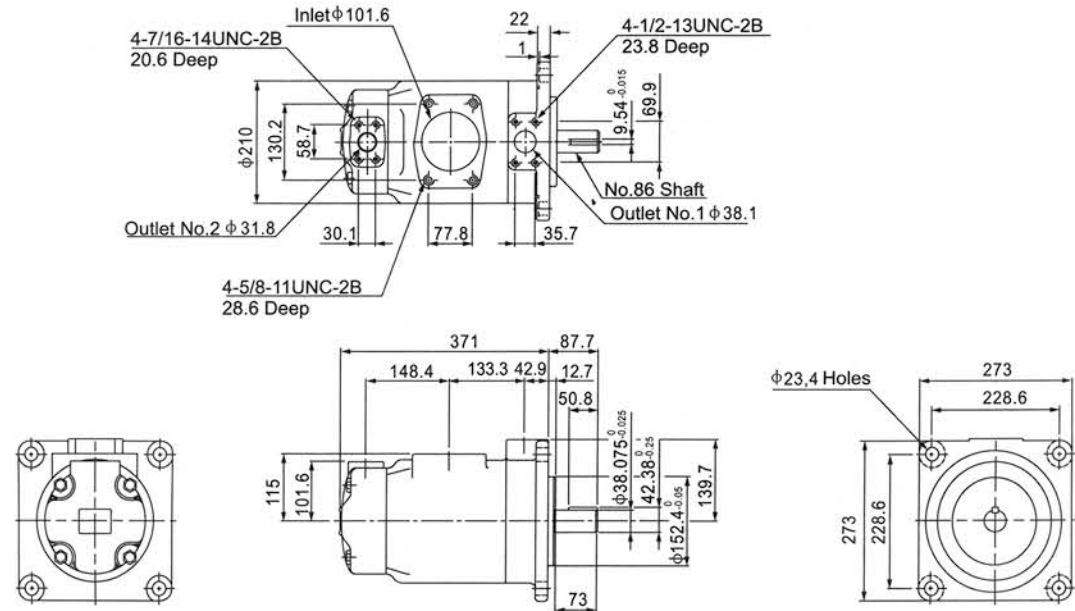
其它轴类尺寸见72页
For other shaft dimensions, refer to page 72

SQP42 法兰安装尺寸
Flange Mounting



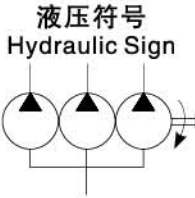
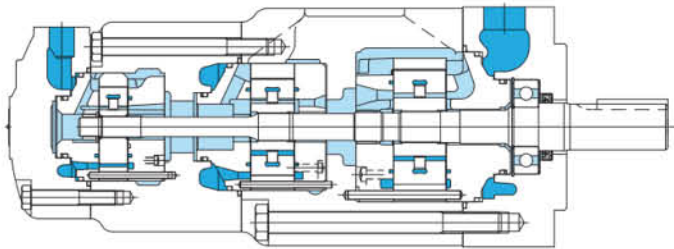
其它轴类尺寸见72页
For other shaft dimensions, refer to page 72

SQP43 法兰安装尺寸
Flange Mounting



其它轴类尺寸见72页
For other shaft dimensions, refer to page 72

SQP 系列三联泵
Series-treble Pumps



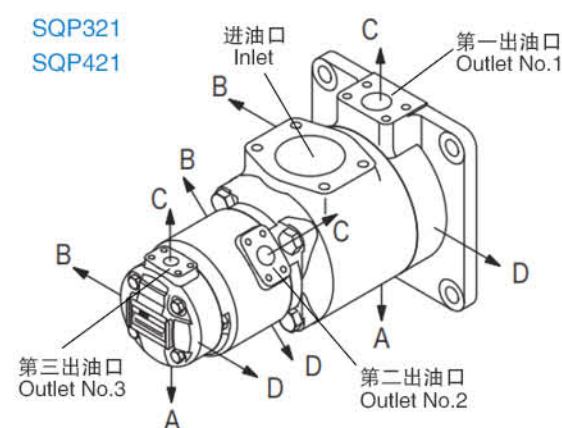
型号说明 / Model Designation

(F3-)	SQP321	-35	-17	5	-86	CCC	(F)	-(LH)	-18
前注、油液相溶性 Infuse front, oil intermiscibility	系列号 Series	▲ 排量代号 轴端泵 Flow-shaft end code	▲ 排量代号 中间泵 Flow-mid code	▲ 排量代号 盖端泵 Flow-cover end pump port connction	轴伸形式 Shaft type	油口位置 Port positions	安装形式 Installation type	旋转方向 Rotation	设计号 Design number
无标记- 抗磨液压油、 水-乙二醇液或 油包水乳液 No-marking: Anti-wear hydraulic oil, Water glycol fluid or water-oil emulsions F3- 磷酸酯液 phosphate ester fluid	SQP321	21, 25, 30, 32, 35, 38, 45	10, 12, 14, 15, 17, 19, 21, 25	2, 3, 4, 5, 6, 7, 8	86-重型带 键直轴 Heavy belt key straight shaft	见下表 See below	无标记 No-marking: 法兰安装型 Flange Mounting F- 脚座安装型 F-Foot Mounion	(从泵的轴端看) (Viewed from shaft end of pump)	18
	SQP421	42, 45, 50, 57, 60, 66, 75	10, 12, 14, 15, 17, 19, 21, 25	2, 3, 4, 5, 6, 7, 8				LH-逆时针旋转 Left hand for counter clockwise	
	SQP431	42, 45, 50, 57, 60, 66, 75	21, 25, 30, 32, 35, 38, 45	2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 14				无标记-顺时针旋转 No marking-Rihgt hand for clockwise	
	SQP432	42, 45, 50, 57, 60, 66, 75	21, 25, 30, 32, 35, 38, 45	10, 12, 14, 15, 17, 19, 21, 25					

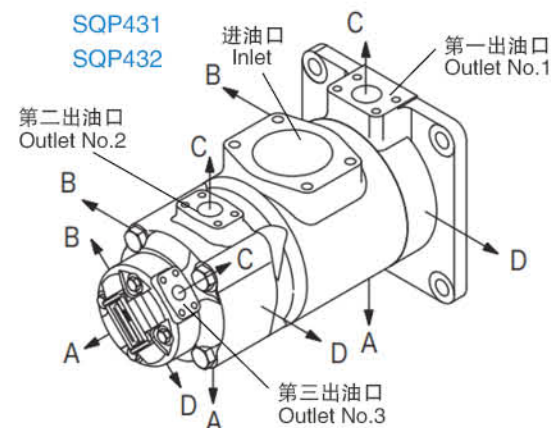
▲ 在1200r/min 和0.69MPa(100psi)下的额定排量。
USgpm Flow(USgpm) at 1200r/min and 0.69MPa.

油口位置（从泵的盖端看） Outlet Positions (Viewed from cover end of pump)

SQP321
SQP421



SQP431
SQP432



第一出油口位置
No.1 outlet positions

A	在进油口对面 opposite inlet
B	进油口逆时针转90° 90° CCW from inlet
C	在进油口同侧 Inline with inlet
D	进油口顺时针转90° 90° CW from inlet

第二出油口位置SQP321、SQP421
No.1 Outlet positions

A	第二出油口在进油口逆时针转135° N0.2 outlet 135° CCW from inlet
B	第二出油口在进油口逆时针转45° N0.2 outlet 45° CCW from inlet
C	第二出油口在进油口顺时针转45° N0.2 outlet 45° CW from inlet
D	第二出油口在进油口顺时针转135° N0.2 outlet 135° CW from inlet

第二出油口位置SQP431、SQP432
No.1 Outlet positions

A	第二出油口在进油口对面 N0.2 outlet opposite inlet
B	第二出油口在进油口逆时针转90° N0.2 outlet 90° CCW from inlet
C	第二出油口在进油口同侧 N0.2 outlet inline with inlet
D	第二出油口在进油口顺时针转90° N0.2 outlet 90° CW from inlet

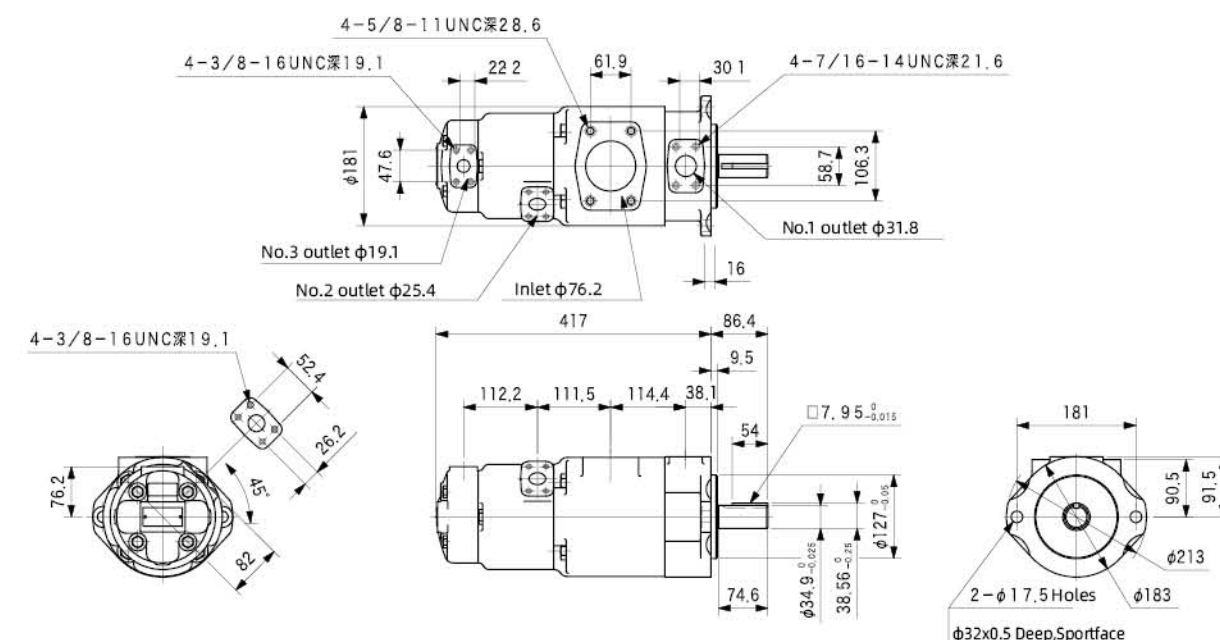
第三出油口位置SQP321、SQP421
No.1 Outlet positions

A	第三出油口在进油口对面 N0.3 outlet opposite inlet
B	第三出油口在进油口逆时针转90° N0.3 outlet 90° CCW from inlet
C	第三出油口在进油口同侧 N0.3 outlet inline with inlet
D	第三出油口在进油口顺时针转90° N0.3 outlet 90° CW from inlet

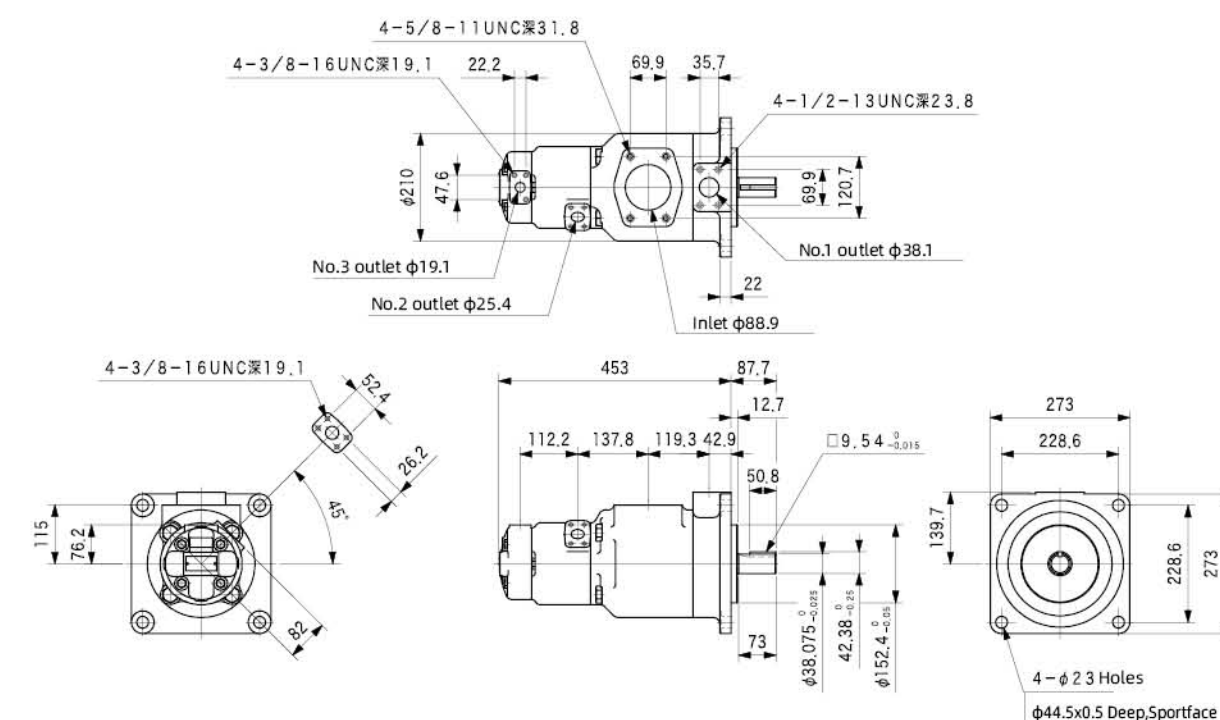
第三出油口位置SQP431、SQP432
No.1 Outlet positions

A	第三出油口在进油口逆时针转135° N0.3 outlet 135° CCW from inlet
B	第三出油口在进油口逆时针转45° N0.3 outlet 45° CCW from inlet
C	第三出油口在进油口顺时针转45° N0.3 outlet 45° CW from inlet
D	第三出油口在进油口顺时针转135° N0.3 outlet 135° CW from inlet

SQP321 法兰安装尺寸
Flange Mounting



SQP421 法兰安装尺寸
Flange Mounting



[illegible]

平键轴Straight key shaft

The diagram illustrates a straight key shaft assembly. The shaft is shown with a keyway and a key. The dimensions are labeled as follows:

- A**: Total length of the shaft.
- B**: Length of the key.
- C**: Distance from the end of the shaft to the start of the key.
- D**: Diameter of the shaft.
- E**: Width of the key.
- F**: Height of the key.
- 1.5×45°**: Chamfer on the end of the shaft.

型号 Model	轴伸代号 Shaft code	A	B	C	ΦD	E	F键宽*长 F key width x length
20V、20VQ、SQP1	1	59	9.53	12.1	22.23/22.20	24.5/24.4	4.76*32
25V、2520V 25VQ、2520VQ SQP2、SQP21	1	59	9.53	11.1	22.23/22.20	24.5/24.4	4.76*32
	86	78	9.53	11.1	25.37/25.35	28.3/28.1	6.36*50.8
35V、35※V 35VQ、35※VQ SQP3、SQP3※	1	73.2	9.53	11.1	31.75/31.70	35.36/35.10	7.94*38.1
	86	86	9.53	11.1	34.90/34.87	38.6/38.3	7.94*54
45V、45※V 45VQ、45※VQ SQP4、SQP4※	1	62	12.7	14.22	31.75/31.70	35.36/35.10	7.94*28.5
	86	87.4	12.7	14.22	38.07/38.05	42.4/42.1	9.54*50.8

型号 Model	轴伸代号 Shaft code	A	B	C	D	E	花键数据(见下表) Spline data(see below)
20V、20VQ	151	41.1	9.53	11.1	3.9	27.8	A
25V、2520V 25VQ、2520VQ	11	44.5	9.53	11.1	3.9	27.8	A
35V、35※V 35VQ、35※VQ	11	58.7	9.53	11.1	6.35	35.1	C
45V、45※V 45VQ、45※VQ	11	61.9	12.7	14.3	9.7	39.6	C

花键数据标记 Spline Data Reference	齿数 Number of teeth	径节 Pitch	大径 Major Diameter	成形直径 Form Diameter	小径 Minor Diameter	平齿根配合 Minor Diameter
A	13	16/32	22.17/22.15	19.03	18.63/18.35	大径配合 Major diameter fit
C	14	12/24	31.70/31.67	27.2	26.99/26.64	

50V 系列叶片泵 Series Vane Pumps



型号说明 / Model Designation

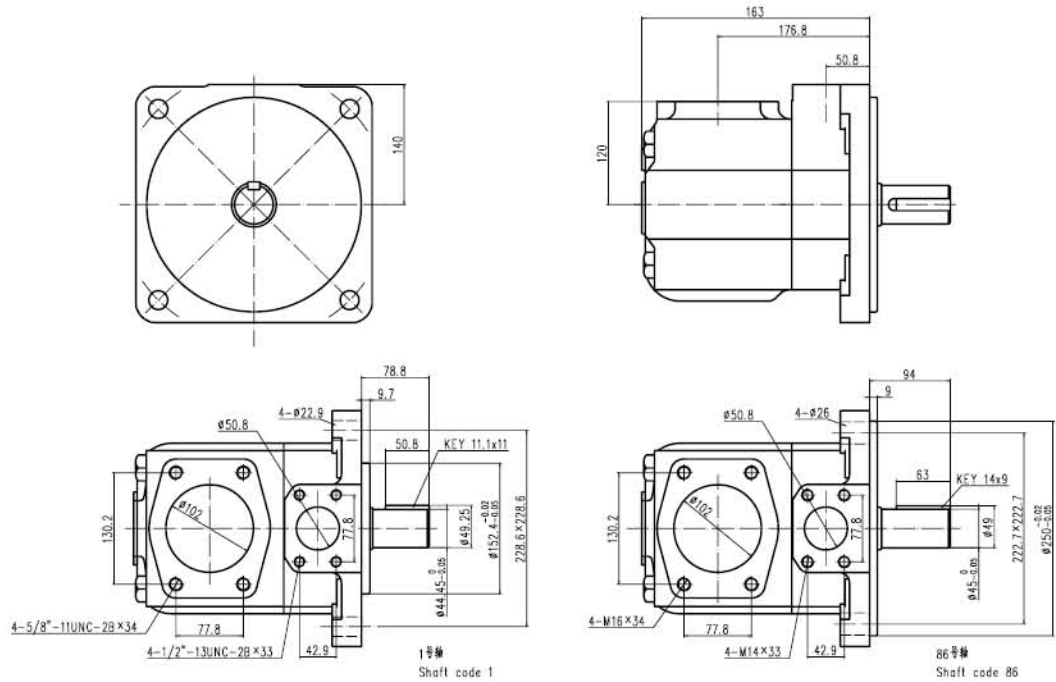
(F3-)	50V	109	A	-1	A	22	R
前注 Note	系列号 Series	排量代号 Displacement code	油口连接 Port connections	轴伸形式 Shaft type	出油口位置 Outlet positions	设计号 Design number	旋转方向 Rotation
无标记 No-marking F3: 氟橡胶 Viton	50V	72、85、100、 109	A-SAE 4-螺栓法兰 4-bolt flange	1-平键轴 Str key 86-重型平键轴 HD Str key	(从泵的盖端看) (Viewed from cover end of pump) A-进油口对面 Opposite inlet B-从进油口逆时针90° 90° CCW from inlet C-进油口同侧 Inline with inlet D-从进油口顺时针90° 90° CW from inlet	22	(从轴端看) (Viewed from shaft end of pump) R-顺时针旋转 right hand for clockwise L-逆时针旋转 Left hand for counter- clockwise

技术参数 / Technical Data

系列号 Series	排量代号 Displacement code	理论排量 Geometric displacement ml/r (in ³ /r)	最高使用压力 Max.operating pressure MPa	最高转速 Max.speed r/min	最低转速 Min.speed r/min
50V	72	230 (14.04)	12	1800	600
	85	272 (16.60)			
	100	320 (19.53)			
	109	348 (21.24)			

在1200rpm和0.7MPa下的流量 (USgpm) Flow (USgpm) at 1200rpm and 6.9bar

连接尺寸图 / Installation Dimensions



PV2R 系列叶片泵 Series-vane Pumps

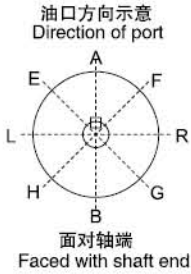


产品简介 / Product Introduction

PV2R系列高压低噪声叶片泵是我公司独立研制开发的国产化高性能产品,具有性能先进,结构合理,可靠性好,噪声低,脉动极小,质量稳定的特点。产品精工制造,特别适应高精度低噪声设备的要求,广泛应用于切削机械、塑料机械、皮革机械、锻压机械、工程机械等领域。

PV2R series of vane pumps with high pressure and lower noise are high-performance products, which are developed and domestically produced by our company, featured by advanced performance, reasonable structure, good creditability, lower noise, ultra-low pulse and stable quality and so on. Precisely made, the product can be used in the equipment with high precision and low noise, and is widely used in cutting, plastic, leather, forging and engineering machinery fields, and the like.

油口方向示意图 / Direction of port



型号说明 / Model Designation

PV2R	※	—	※	—	※	□	□	□
系列叶片泵 Series of vane pumps								
子系列代号 Code of subsidiary series 1、2、3、21、31、32								
单泵或双泵的轴端泵公称排量 Displacement of single or double shaft end pump mL/r								
双泵的盖端泵公称排量 Displacement of cover end pump mL/r								
								轴径 / Shaft diameter F-小轴 Minor shaft (Omitted) F ₁ -大轴 Major shaft
								油口位置 (从轴端看) Port positions (Viewed from shaft end) 进油口: A、B、L、R Inlet: A、B、L、R 单泵或双泵的轴端泵出油口:A Outlet of single or double shaft end pump:A 双泵的盖端泵出油口:A、B、E、F、G、H、L、R Outlet of cover end pump:A、B、E、F、G、H、L、R
								旋转方向 (从轴端看) Direction of rotation (Viewed from shaft end) R-顺时针 Clockwise L-逆时针 Counter clockwise

技术规格 / Specifications

单泵 / Single Pumps

产品型号 Model	理论排量 Displacement (mL/r)	最高压力 Max.pressure(MPa)			允许转速 Speed (r/min)		驱动功率 Input power (kW)
		高压用特定油 Special oil	抗磨液压油 Antiwear oil	普通液压油 Common oil	最低 Min.	最高 Max.	
PV2R1-4	4.3	21	17.5	16	750	1800	2.1
PV2R1-6	6.5						3.2
PV2R1-8	8.5						4.5
PV2R1-10	10.8						5.4
PV2R1-12	12.8						6.1
PV2R1-14	14.5						6.9
PV2R1-17	16.2						7.9
PV2R1-19	20.1						9.6
PV2R1-23	22.5						10.5
PV2R1-25	25.3						12.5
PV2R1-28	29.6	16	16				14.0
PV2R1-31	32.3						15.5
PV2R2-26	25.3						11.7
PV2R2-33	32.3						15.5
PV2R2-41	39.8						18.9
PV2R2-47	49.8						23.2
PV2R2-53	51.5						24
PV2R2-59	55.8						24.9
PV2R2-65	63.7						29.4
PV2R2-70	70.3						31.6
PV2R2-79	78.1						35.7
PV2R2-85	82.7						37.5
PV2R3-52	51.5	21	17.5	14	600	1800	23.2
PV2R3-60	63.7						29.4
PV2R3-66	66.6						34.2
PV2R3-76	75.5						37.7
PV2R3-94	89.5						41.2
PV2R3-116	118						50
PV2R3-125	122.2						59.9
PV2R3-136	136						66.7

- 注: 1. 公称排量“4”、“6”、“8”泵, 压力超过16MPa使用时, 转速应超过1450r/min。
2. 在高转速下使用大排量单泵及相应的双泵时, 应减少吸入负压。
3. 使用合成液压油及含水液压油时, 最高转速限制在1200r/min。
4. 对于特别要求低噪音的场合, 建议工作转速选用1000r/min。
5. 噪声值是在P=14MPa、n=1200r/min的工况下。
6. 驱动功率是在P=16MPa、n=1500r/min的工况下。

- Note: 1. When pressure of pumps exceeds 16MPa, with displacement of "4" "6" "8", speeds should be more than 1450r/min.
2. Reduce the negative pressure of the inlet when the single pumps or double pumps with large displacement at high speed.
3. In use of synthetic hydraulic fluids and water containing hydraulic fluids, limit the max speed at 1200r/min.
4. Speed at 1000r/min is suggested on occasions with lower noise strictly required.
5. Noisiness is available in working conditions of 14MPa and 1200r/min.
6. Input power is available in working conditions of 16MPa and 1500r/min.

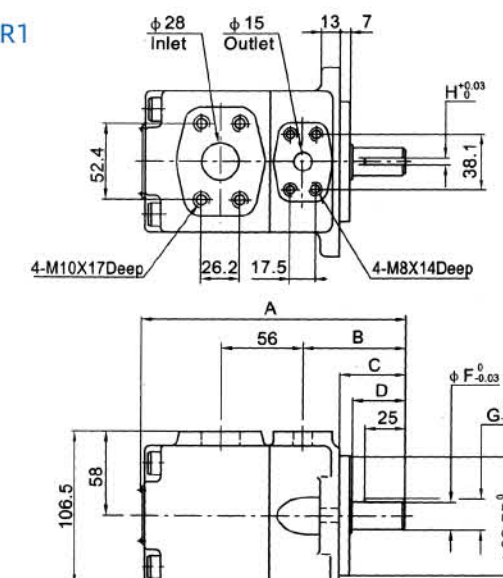
双联泵 / Double Pumps

泵系列号 Series	轴端泵排量 Displacement of shaft end pump	盖端泵排量 Displacement of cover end pump
PV2R21	26、33、41、47、53、59、65	4、6、8、10、12、14、17、19、23、25、28、31
PV2R31	52、60、66、76、94、116、125、136	4、6、8、10、12、14、17、19、23、25、28、31
PV2R32	52、60、66、76、94、116、125、136	26、33、41、47、53、59、65

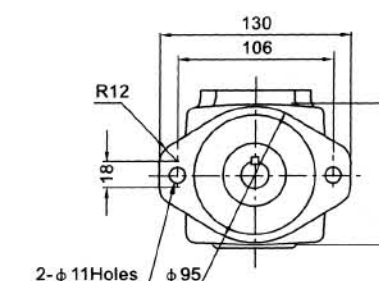
外型尺寸 / Installation Dimensions

单泵 / Single Pumps

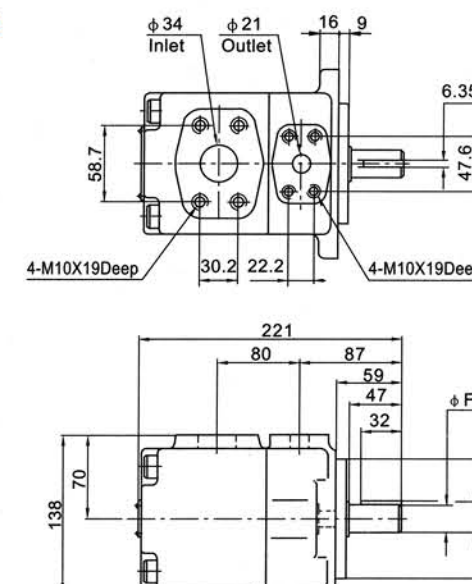
PV2R1



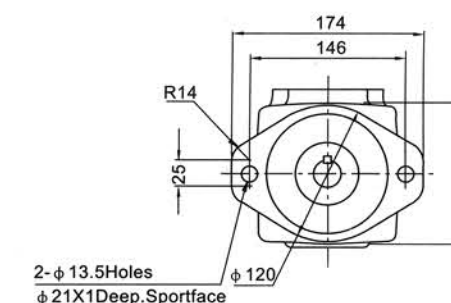
轴伸形式 Shaft type	A	B	C	D	F	G	H
F1	178.5	69.5	44.5	36	19.05	21.24	4.76
F	184	75	50	41	15.88	17.68	3.97



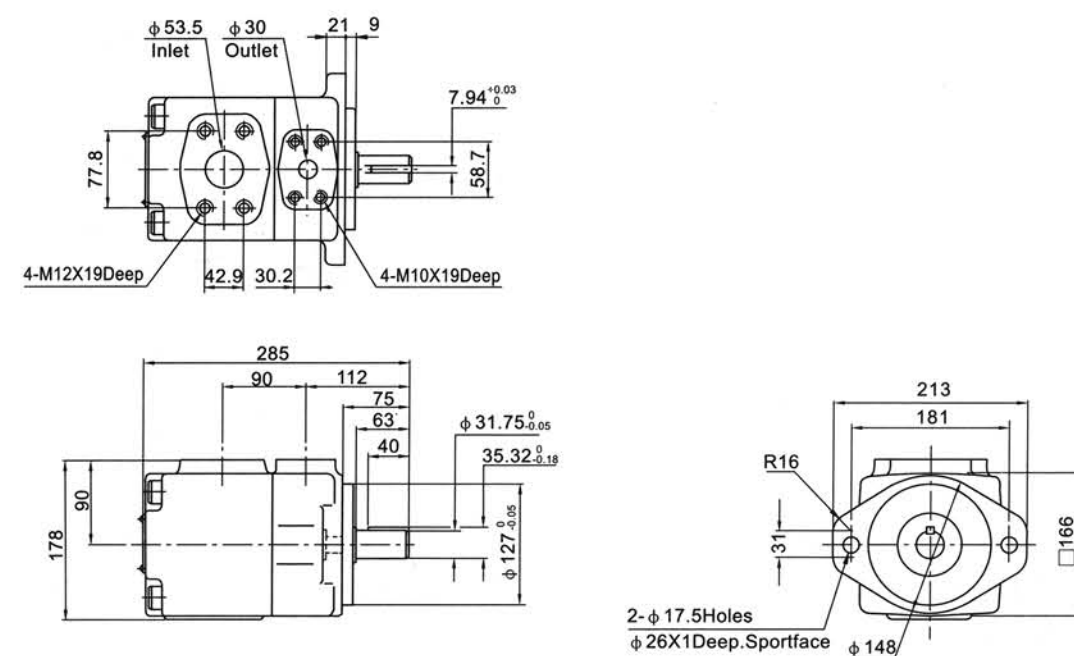
PV2R2



轴伸形式 Shaft type	F	G
F1	25.4	28.18
F	22.23	25.01



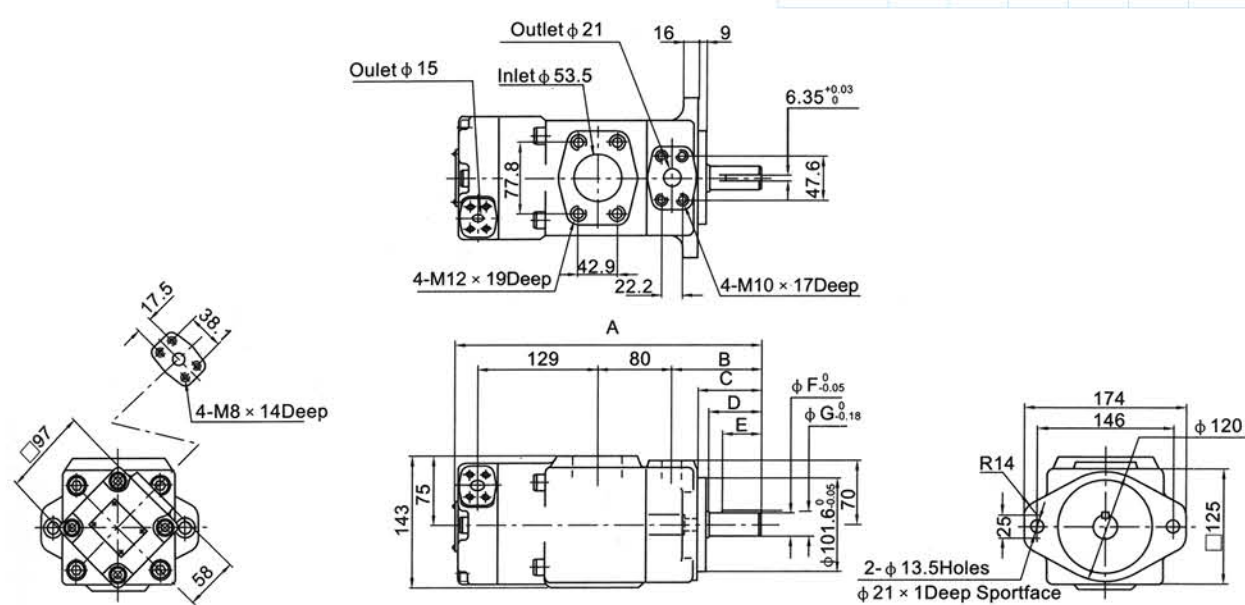
PV2R3



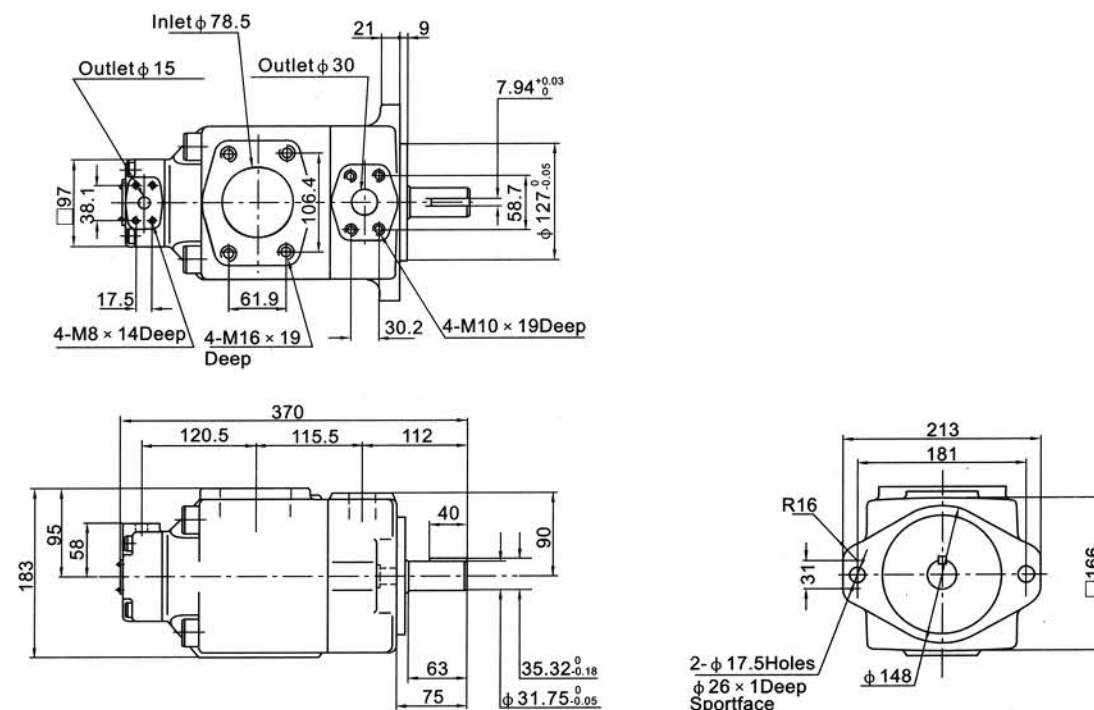
双联泵 / Double Pumps

PV2R21

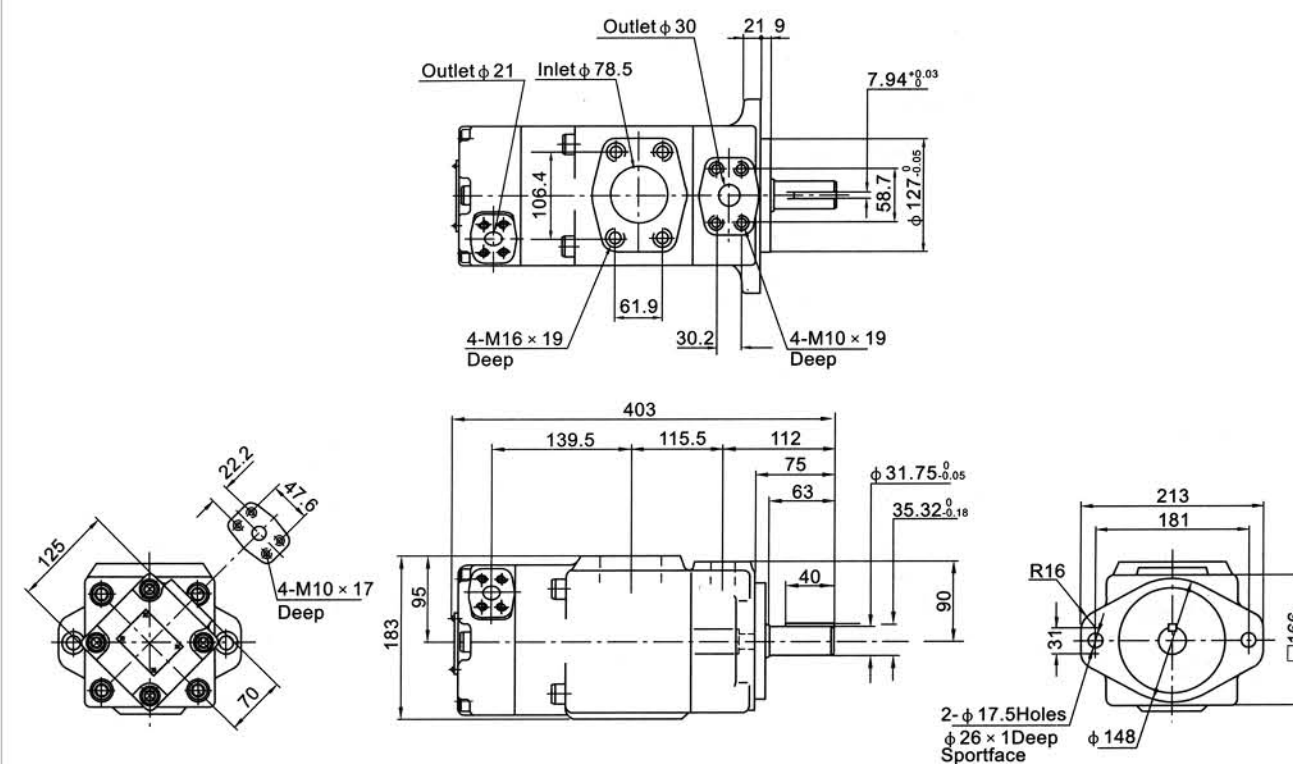
轴伸形式 Shaft type	A	B	C	D	E	F	G
F1	326	95	67	55	40	25.4	28.18
F	318	87	59	47	32	22.23	25.01



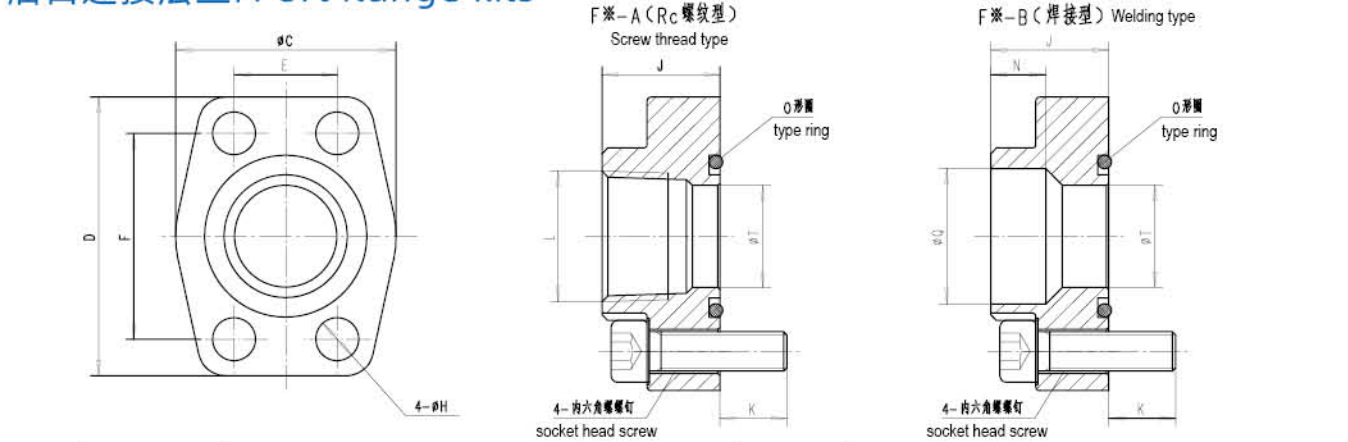
PV2R31



PV2R32



油口连接法兰 /Port flange kits



法兰型号 Flange model	对应管子规格 Corresponding pipe specifications	尺寸/Dimensions mm										O形圈/ Ring GB3452.1-2005	PV2R系列/Series		
		C	D	E	F	H	J	L	N	Q	T		内六角螺钉 socket head screw	尺寸 Dimensions K	对应油泵接口 Corresponding oil pump interface
F04-A	1/2"	40	54	17.5	38.1	9.0	27	Rc1/2"	-	-	13	21.2x2.65	M8x30mm	12.5	PV2R1出口口/outlet, PV2R21, PV2R31 盖端泵出口口/ outlet of cover end pump
F04-B								-	11	22.5	13				
F06-A	3/4"	50.5	65.5	22.2	47.6	11.0	28	Rc3/4"	-	-	19	30x3.55	M10x30mm	12.5	PV2R2出口口/outlet,PV2R21泵端泵出口口/outlet of shaft end pump PV2R32盖端泵出口口/ outlet of cover end pump
F06-B								-	12	28.5	19				
F08-A	1"	56	71	26.2	52.4	11.0	30	Rc1"	-	-	26	34.5x3.55	M10x35mm	17.0	PV2R1吸油口/inlet port
F08-B								-	14	34.5	26				
F10-A	1-1/4"	64.5	79.5	30.2	58.7	12.0	32	Rc1-1/4"	-	-	32	40x3.55	M10x40mm	19	PV2R2吸油口/inlet port, PV2R3出口口/outlet, PV2R31, PV2R32 轴端泵出口口/outlet of shaft end pump
F10-B								-	16	43.0	32				
F12-A	1-1/2"	71	94	35.7	69.9	13.8	37	Rc1-1/2"	-	-	38	50x3.55	-	-	-
F12-B								-	18	49.1	38				
F16-A	2"	87.5	103	42.9	77.8	13.8	38	Rc2"	-	-	51	65x3.55	M12x45mm	17.5	PV2R3、PV2R21吸油口/inlet
F16-B								-	20	61.0	51				
F20-A	2-1/2"	96	115	50.8	88.9	13.8	42	Rc2-1/2"	-	-	63	75x3.55	-	-	-
F20-B								-	22	77.1	63				
F24-A	3"	123	136	61.9	106.4	17.0	45	Rc3"	-	-	76	85x3.55	M16x45mm	16.5	PV2R31、PV2R32吸油口/inlet
F24-B								-	25	90.0	76				
F28-A	3-1/2"	135	153	69.9	120.7	17.5	46	Rc3-1/2"	-	-	89	100x3.55	-	-	-
F28-B								-	20	102.8	89				
F32-A	4"	145	162	77.8	130.2	17.0	50	Rc4"	-	-	102	115x3.55	-	-	-
F32-B								-	28	115.5	102				

法兰型号 Flange model	V、VQ、SQP、T6系列/Series		
	内六角螺钉 socket head screw	尺寸K Dimensions	对应油泵接口 Corresponding oil pump interface
F04-A	-	-	-
F04-B			
F06-A	3/8"-16UNCx1.5" (38.1mm)	20.6	20V(Q)、SQP1出口口/outlet, 2520V(Q)、3520V(Q)、4520V(Q)、SQP21、SQP31、SQP41、T6CC (油口尺寸 01、11/oil port dimensions)、T6DCC(油口尺寸01/oil port dimensions)、T6DDCS(油口尺寸01/oil port dimensions)盖端泵出口口/outlet of cover end pump
F06-B			
F08-A	3/8"-16UNCx1.5" (38.1mm)	20.1	25V(Q)、SQP2、T6C出口口/outlet port, 2520V(Q)、SQP21、T6CC轴端泵出口口/outlet of shaft end pump, 3525V(Q)、4525V(Q)、SQP32、SQP42、T6CC(油口尺寸00、10/oil port dimensions)、T6EC、T6DCC (油口尺寸00/oil port dimensions)、T6DDCS (油口尺寸00/oil port dimensions)、T6EDC(S) (油口尺寸00/oil port dimensions) 盖端泵出口口/outlet of cover end pump、T6DCC中间泵出口口/outlet of middle pump
F08-B			
F10-A	7/16"-14UNCx1.575" (40mm)	19.0	SQP1吸油口/inlet, 35V(Q)、SQP3、T6D出口口/outlet, 3520V(Q)、3525V(Q)、SQP31、SQP32、T6DC、T6DCC、T6DDCS轴端泵出口口/outlet of shaft end pump,4535V(Q)、SQP43、T6ED盖端泵出口口/outlet of cover end pump, T6DDCS、T6EDC(S)中间泵出口口/outlet of middle pump
F10-B			
F12-A	1/2"-13UNCx1.75" (44.5mm)	19.0	20V(Q)、25V(Q)、SQP2、T6C吸油口/inlet, 45V(Q)、SQP4、T6E出口口/outlet, 4535V(Q)、SQP43、T6EC、T6ED、T6EDC(S)轴端泵出口口/outlet of shaft end pump
F12-B			
F16-A	1/2"-13UNCx1.75" (44.5mm)	17.0	35V(Q)、SQP3、T6D吸油口/inlet
F16-B			
F20-A	1/2"-13UNCx1.75" (44.5mm)	16.5	2520V(Q)、SQP21、T6CC(油口尺寸10、11/oil port dimensions)吸油口/inlet
F20-B			
F24-A	5/8"-11UNCx2" (50.8mm)	22.3	45V(Q)、SQP4、T6E吸油口/inlet, 3520V(Q)、3525V(Q)、SQP31、SQP32、T6CC (油口尺寸00、01/oil port dimensions)、T6DC吸油口/inlet
F24-B			
F28-A	5/8"-11UNCx2" (50.8mm)	22.3	4520V(Q)、4525V(Q)、SQP41、SQP42、T6EC吸油口/inlet
F28-B			
F32-A	5/8"-11UNCx2" (50.8mm)	19.3	4535V(Q)、SQP43、T6ED、T6DCC、T6DDCS、T6EDC(S)吸油口/inlet
F32-B			

ABT 系列伺服泵 Series-servo pump

ABT系列伺服泵是我公司与美国艾伯特流体动力传动有限公司、浙江大学机电控制工程研究所三方合作共同研发的高性能伺服液压系统专用油泵。其核心部件从国外进口。

本产品我公司拥有自主知识产权并获得国家创新基金支持，广泛应用于橡塑、压铸、鞋革、锻压、挤压、折弯、剪板机械等伺服液压系统中。

ABT Series Servo Pump is high performace servo hydraulic system special oil pump. It is researched and developed together by three party-Ningbo Vicks Hydraulic Co.,Ltd. American Albert Hydraulic Co.,LTD. Zhejiang University Mechanical Control Engineering Research Institute. The core components are imported from abroad. We have the proprietary intellectual property rights for this product and we have got the state innovation fund support, the pump have been widely used in servo hydraulic systems of rubber and plastic machines, shoes machines, forging and press machines, bending machines and shearing machines.



其主要特点为 /Main Features

- 1、柱销式叶片结构设计，使油泵在启动时阻矩小，电流小，更节能。
- 2、采用外泄、泄漏量可调控设计，明显降低油泵温升。根据液压元器件泄漏大小，可灵活调整外泄量，泵在低速高压工况下脉动小，制品精度高。
- 3、柱销底部通高压油和辅助弹性机构的合理配合，使油泵可以在低速下正常工作，能适应伺服液压系统快慢速、高低压、正反转快速切换的工况。
- 4、双作用及正反转结构设计，使油泵工作更加平稳，伺服液压系统的响应速度更快。
- 5、高压、高速结构和双刃口叶片设计，转速范围广，抗污能力强，使用寿命长。
- 6、低噪声结构设计，排量范围广，可根据客户要求灵活定制不同排量。
- 7、采用插装式结构，维修时只需更换泵芯，维修更便捷、成本更低。
- 8、双泵油口采用一进两出设计，结构更加紧凑，安装空间小。
- 9、进油口有四种不同的相对方位，安装灵活。

1. Dowel pin type vane kits designation can make the pump with small resistance, low electronic, and with more energy saving.
2. Use outside leakage and leakage volume control designation low the oil temperature obviously. Based on the hydraulic components leakage volume, can adjust the oil leakage smartly, the pump pressure pulse is small at high pressure and low speed, the injection finished products will be more higher accuracy.
3. With the coordination of high pressure oil and vice spring structure, can make the pump run normally at low speed, can fit low and high speed shift, high and low pressure speed shift, right and left rotation shift etc working status of servo hydraulic system perfectly.
4. Double action and right-left rotation structure designation make the pump work more steadily, servo hydraulic system response more quickly.
5. High pressure, high speed structure and double cutting edges designation make the speed range more wide, and with more better polution resistance, and more longer working life.
6. Low noise stucture designation and wide range of flow, can be customized according to different requirements.
7. Use the cartridge kit installation structure, repairing only need change the cartridge kit, more convenient for repairing, and with more lower cost.
8. Double pump use one inlet port and two outlet ports, the structure is more compact with small installation space.
9. There are four directions each at inlet and outlet port, installation is more flexible.

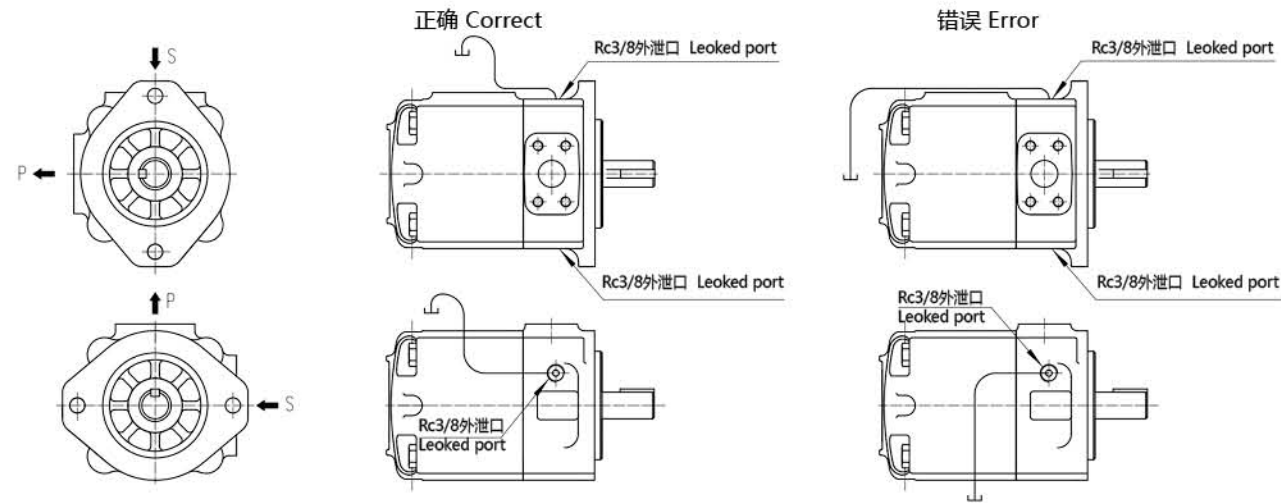
注：详细说明请阅ABT伺服泵说明书

Note: Details please read ABT servo pump Instructions.

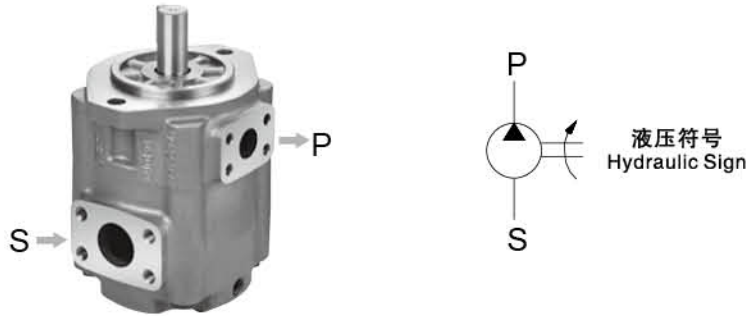
外泄油口/ Leaked oil port

泵壳上设计有Rc3/8外泄油口，其泄漏油必须通过此外泄油口流回油箱，不可堵塞，否则会造成油泵过热磨损；如下图所示，外泄油管必须向上方布置，使位于泵轴中心的滑动轴承浸在油液中充分润滑；内置Rc1/16螺堵内为高压油腔，不可拆卸，否则可能会造成安全事故。

The pump body is designed with Rc3/8 leakage oil port, The leak oil must flow back to the through the leaking oil port, which can not be blocked. Otherwise it will cause pump to overheat and wear away. As the next pictures show, the outside leak port must be put upwards, in order to make sure the centerde ball-bearing totally dipped in the oil and lubricated completely. The built-in Rc1/16 screw plug is high pressure oil pocket and cannot be disassembled, otherwise it may cause a safety accident.



ABT 系列伺服单泵
 Series-servo Single Pump



型号说明/ Model Designation

ABT2T	-80	-2	R	02	-C	1
系列号 Series	排量代号 Flow code	轴伸形式 Shaft type	旋转方向 Rotation	出油口位置 Outlet Positions	设计号 Design number	密封等级 Sealing Level
ABT1T	6, 10, 16, 20, 25, 32, 40, 50, 55, 64	-1 平键轴 Keyed shaft	(从泵的轴端看) (Viewed from shaft end of pump) R-顺时针旋转 right hand for clockwise L-逆时针旋转 left hand for counter-clockwise	(从泵的轴端看) (Viewed from shaft end of pump) 00-进油口对面 Opposite inlet port 01-进油口同侧 Inline with inlet 02-从进油口逆时针90° 90° CCW from inlet 03-从进油口顺时针90° 90° CW from inlet	C	1-S1, 丁腈橡胶 (Buna) NBR Nitrile rubber 2-S2, 氢化丁腈 HNBR
ABT2T	64, 80, 100, 110, 125, 140, 160	-2 平键轴 Keyed shaft				
ABT3	160, 180, 190, 200	-1 平键轴 Keyed shaft				

技术参数/ Technical Data

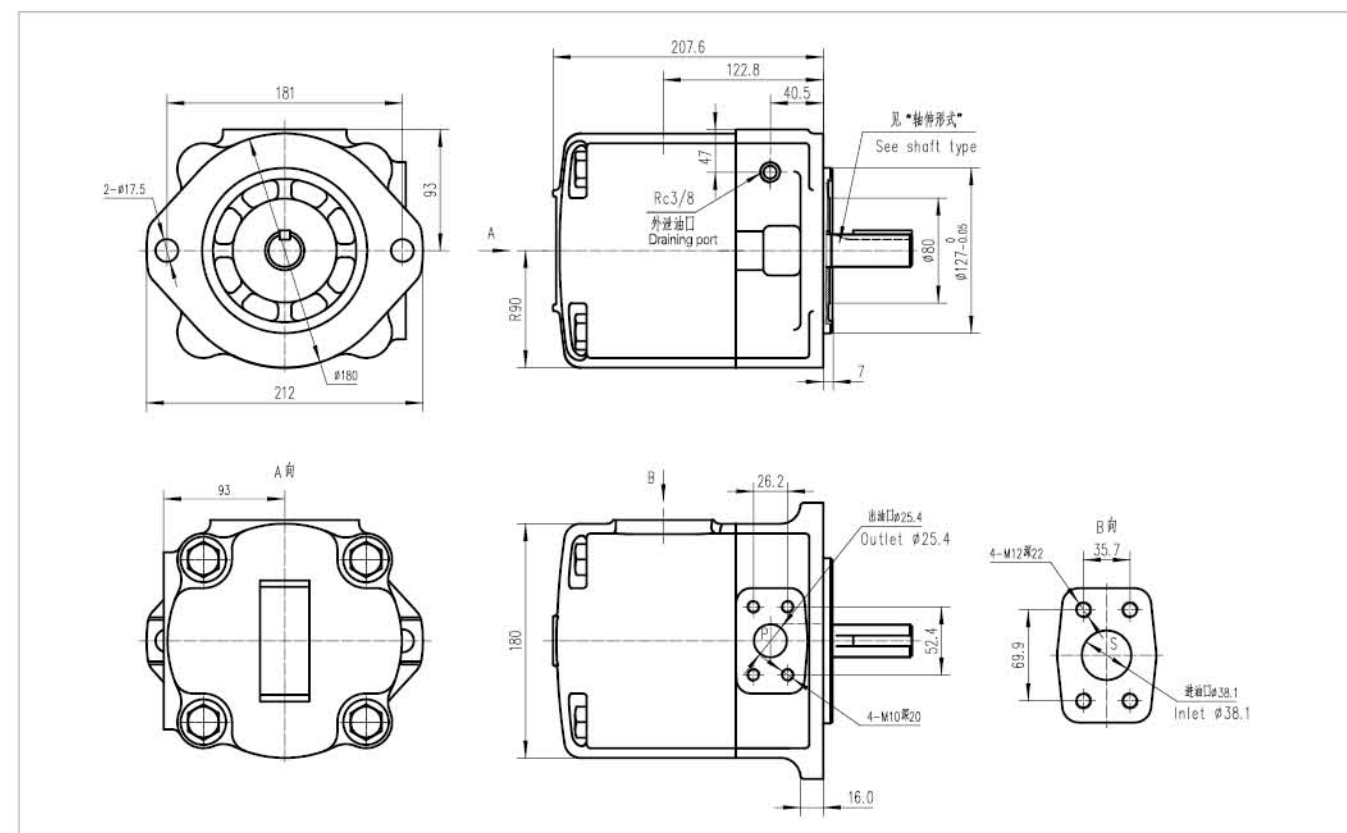
系列号 series	排量代号 Flow code (USgpm)	理论排量 Geometric displace-ment mL/r	最高压力/Max.pressure Mpa		最高转速/Max.speed r/min		最低转速 Min. speed r/min
			抗磨液压油 Antiwear hydraulic oil	水乙二醇 Water glycol fluid	抗磨液压油 Antiwear hydraulic oil	水乙二醇 Water glycol fluid	
ABT1T	6	5.8	32	21	3500	2200	50
	10	9.8					
	16	15.9					
	20	19.8					
	25	24.9					
	32	32.1	30	17.5			
	40	40.1					
	50	50.3	28	17.5			
	55	55.0					
64	63.5	32	17.5	3000	2500		
ABT2T	64					63.5	
	80					80.4	
	100					100.5	
	110					110.0	
	125					125.3	
140	140.0	28	17.5				
160	160.1						
ABT3	160	160.1	17.5	14	2200	2000	
	180	180.0					
	190	190.0					
	200	200.5					

* 排量可定制 / Displacement can be customized

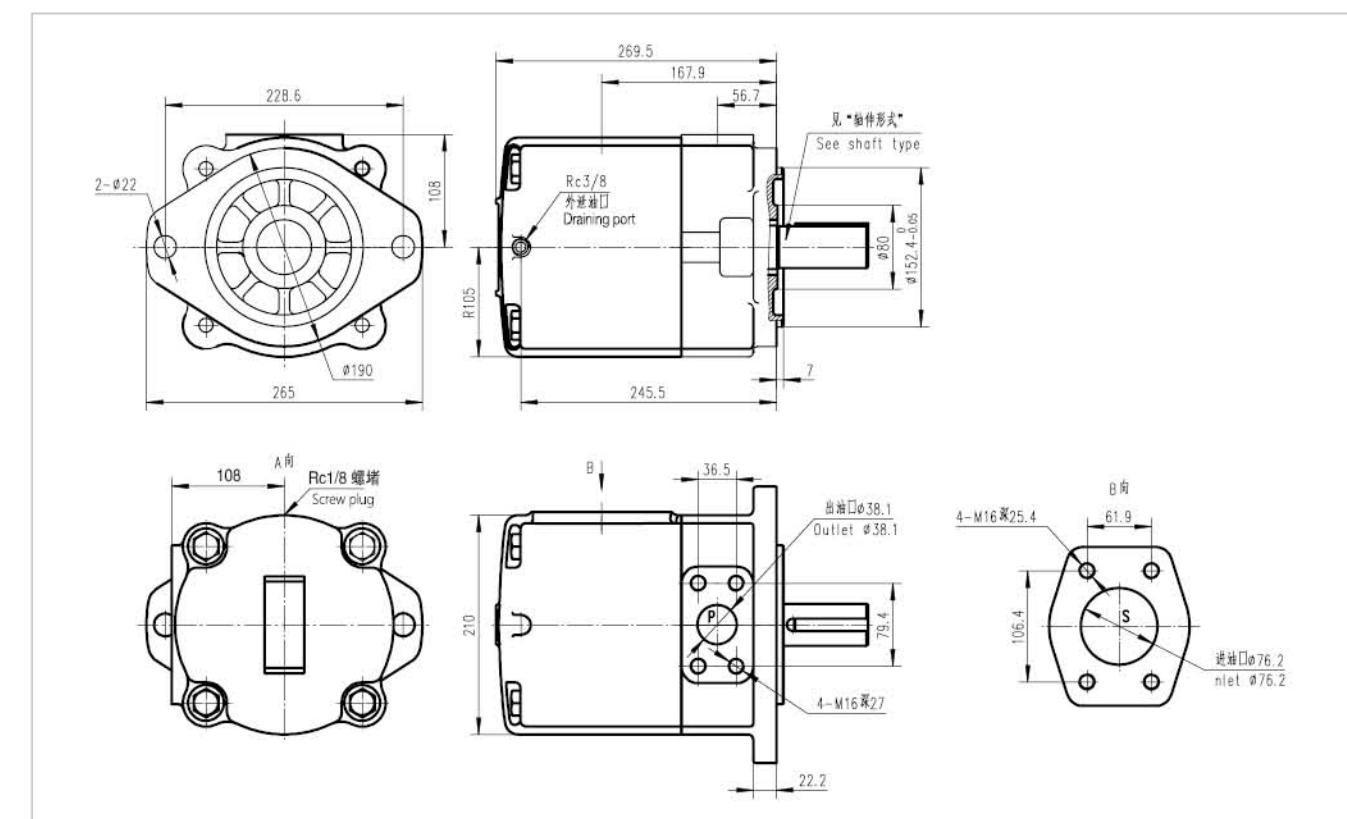
产品性能/ Product performance

性能指标 Performance index	性能数据 Performance data
排量范围 mL/r Displacement range mL/r	6~200
最高压力 MPa Max. pressure Mpa	32
最高转速 r/min Max. speed	3500
容积效率% (转速1500r/min, 泵排量40mL/r, 压力16MPa, 油温50℃时) Volume efficiency % (Within rotation speed 1500r/min, pump displacement 40mL/r, pressure 16MPa, oil temperture 50℃)	≥95
最低保压转速 r/min (塑机300克, 泵排量64mL/r, 保压17.5MPa, 油温45℃时) Min. low pressure speed r/min(Within plastic machine 300g, pump displacement 64mL/r, pressure 17.5MPa, oil temperture 45℃)	85
压力振摆 bar (塑机300克, 泵排量64mL/r, 保压17.5MPa, 油温45℃时) Pressure oscillator bar(Within plastic machine 300g, pump displacement 64mL/r, pressure 17.5MPa, oil temperture 45℃)	± 1.0

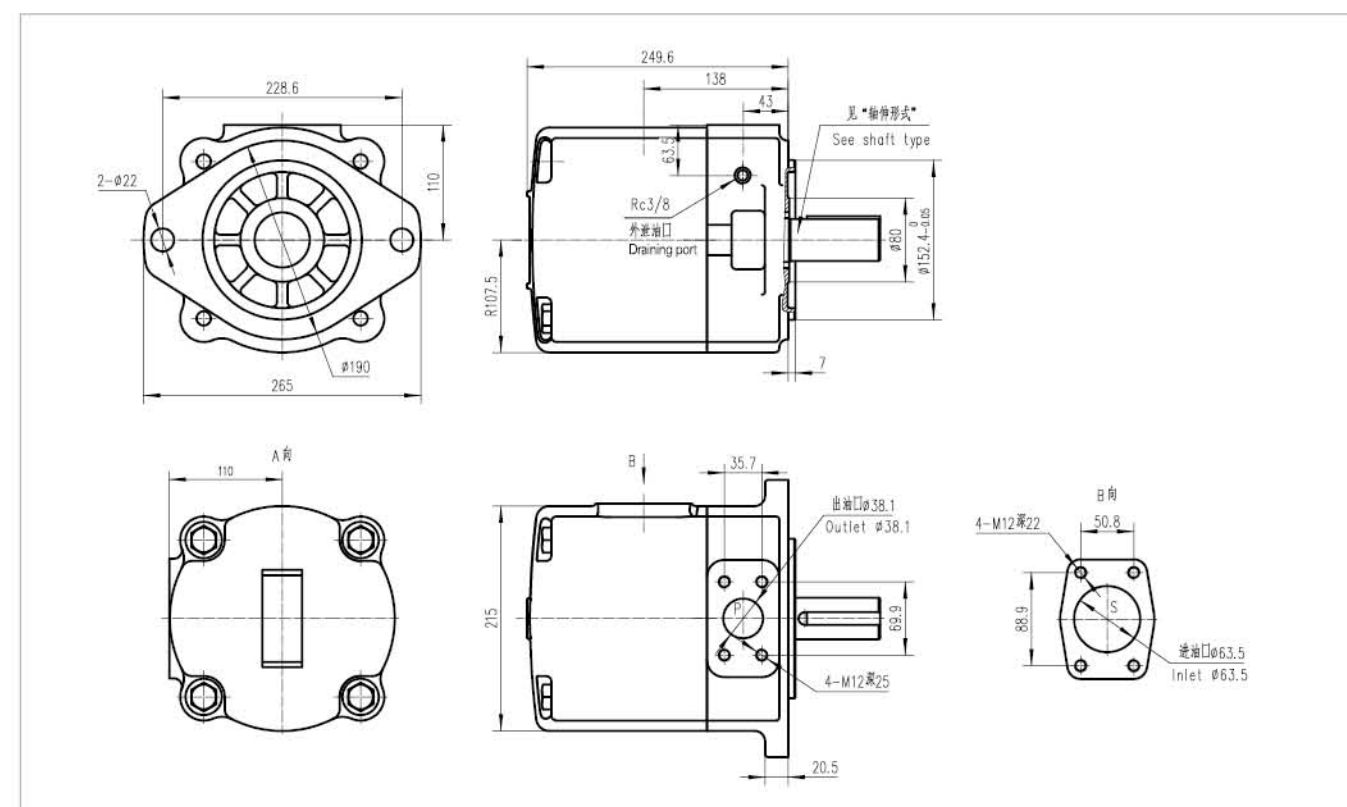
ABT1T安装连接尺寸/ABT1T Installation Dimensions



ABT3安装连接尺寸/ABT3 Installation Dimensions



ABT2T安装连接尺寸/ABT2T Installation Dimensions

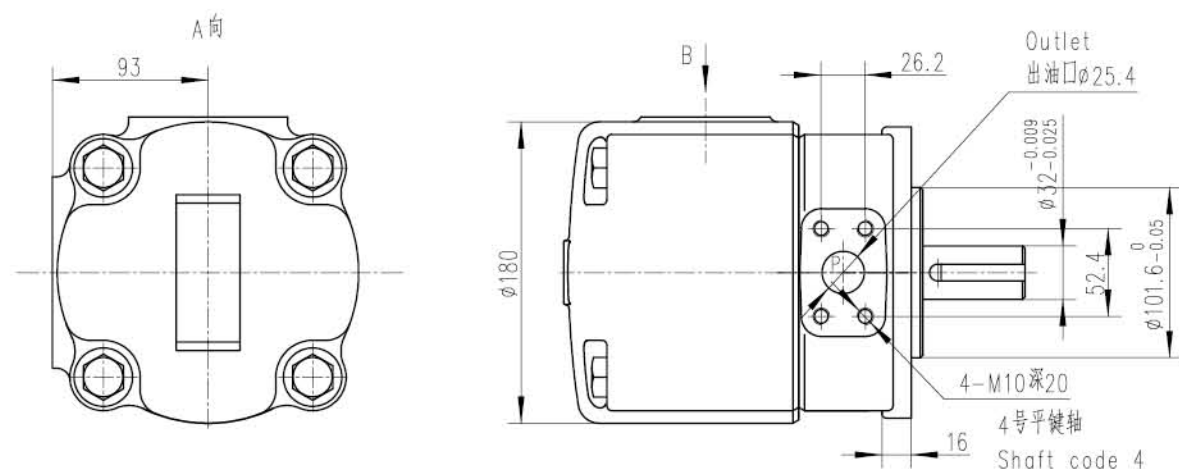
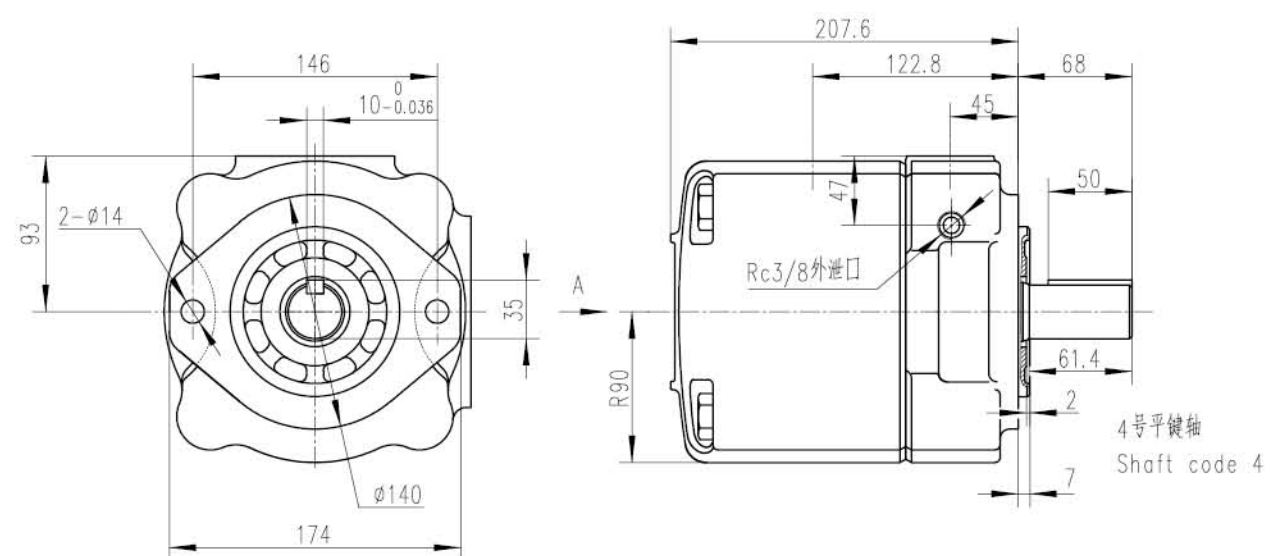


ABT-Z 系列型号说明/Model Designation

ABT2T	-80	-4	R	02	-Z2	1
系列号 Series	排量代号 Flow code	轴伸形式 Shaft type	旋转方向 Rotation	出油口位置 Outlet Positions	设计号 Design number	密封等级 Sealing Level
ABT1T	32, 40	-3 花键轴 14齿 Spline shaft -4 平键轴 Ø32 Keyed shaft	(从泵的轴端看) (Viewed from shaft end of pump) R-顺时针旋转 right hand for clockwise L-逆时针旋转 left hand for counter-clockwise	(从泵的轴端看) (Viewed from shaft end of pump) 00-进油口对面 Opposite inlet port 01-进油口同侧 Inline with inlet 02-从进油口逆时针90° 90° CCW from inlet 03-从进油口顺时针90° 90° CW from inlet	Z0	1-S1, 丁晴橡胶 NBR 2-S2, 氢化丁晴 HNBR
ABT1T	50, 64	-3 花键轴 14齿 Spline shaft -4 平键轴 Ø40 Keyed shaft			Z1	
ABT2T	80, 100, 125	-4 花键轴 14齿 Spline shaft -5 平键轴 Ø50 Keyed shaft			Z2	

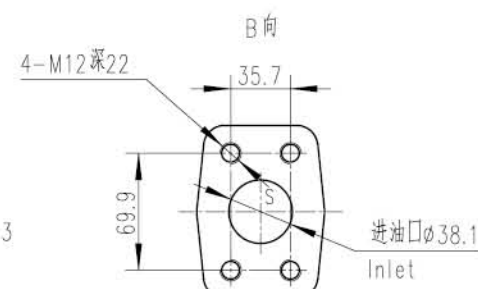
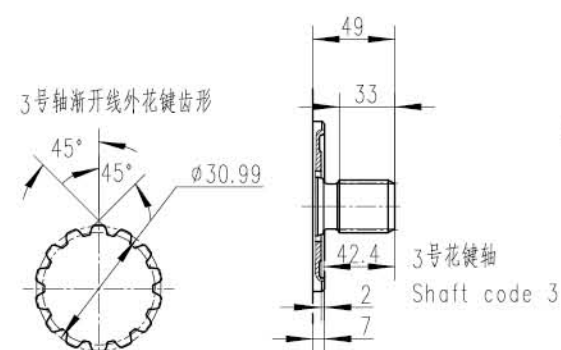
设计号Z0 排量32、40安装连接尺寸

Design number: Z0 Flow: 32、40 Installation dimensions



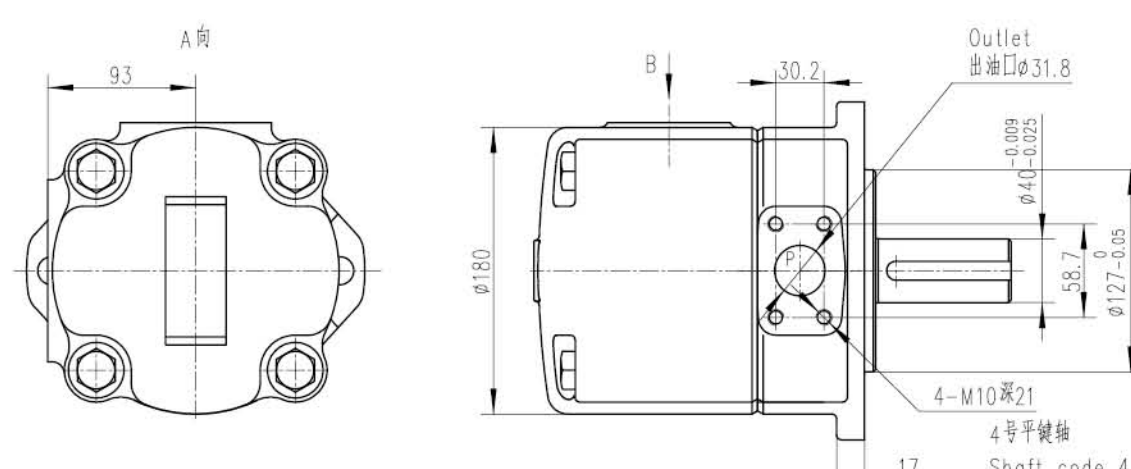
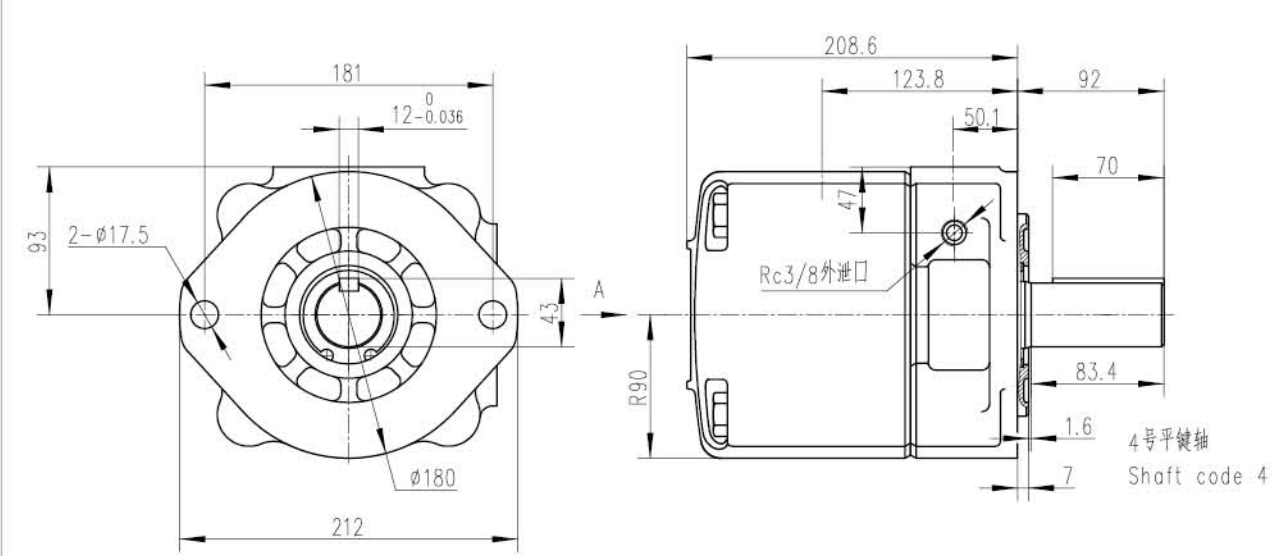
3号轴渐开线外花键参数

齿数 14
模数 2.0
压力角 20°
大径 31.6-0.1
小径 27
节径 28
形圆直径 27.625
齿根圆半径 R0.3
外花键量棒距 34.934-0.066
外花键量棒直径 3.5
弧齿厚
最大有效值 4.234
最小实际值 4.184



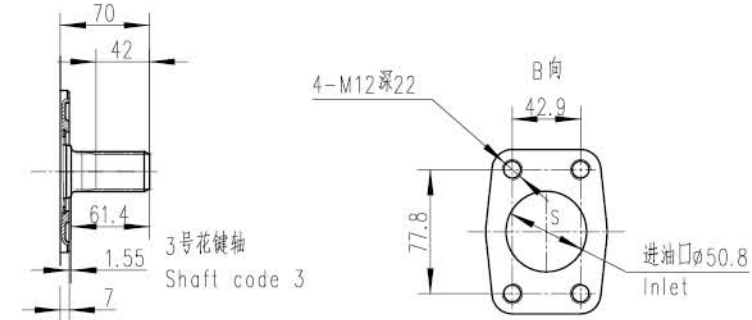
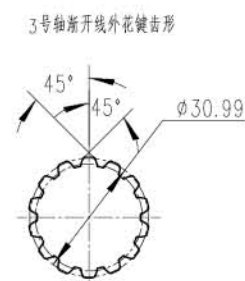
设计号Z1 排量50、64安装连接尺寸

Design number: Z1 Flow: 50、64 Installation dimensions



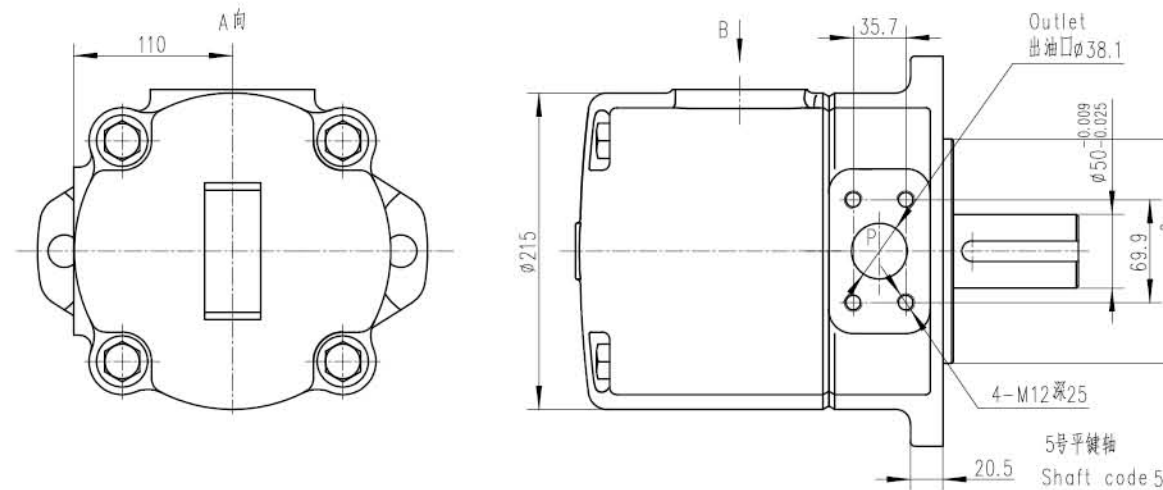
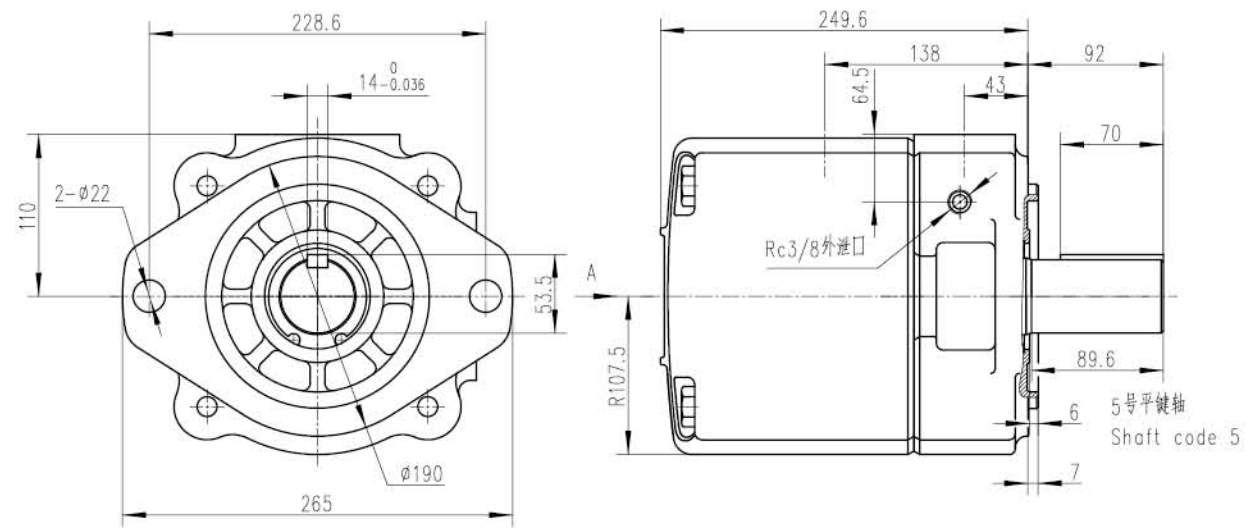
3号轴渐开线外花键参数

齿数 14
模数 2.0
压力角 20°
大径 31.6-0.1
小径 27
节径 28
形圆直径 27.625
齿根圆半径 R0.3
外花键量棒距 34.934-0.066
外花键量棒直径 3.5
弧齿厚
最大有效值 4.234
最小实际值 4.184



设计号Z2 排量80、100、125安装连接尺寸

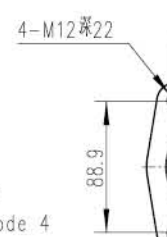
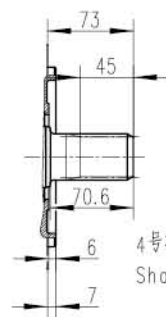
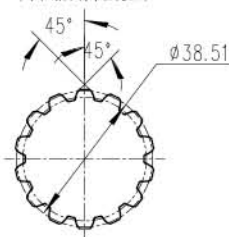
Design number:Z2 Flow:80、100、125 Installation dimensions



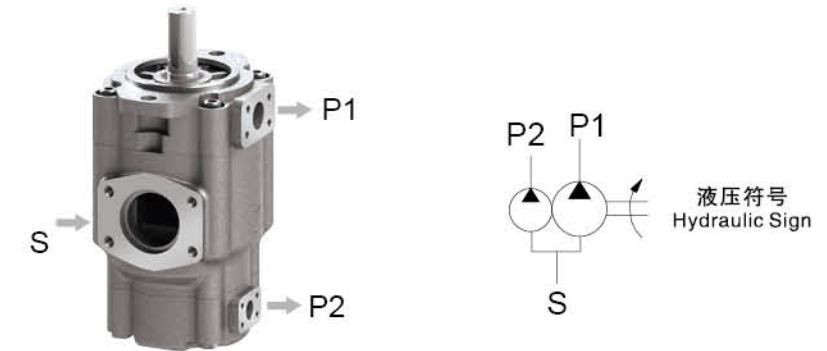
4号轴渐开线外花键参数

齿数 14
模数 2.5
压力角 20°
大径 39.5-0.1
小径 33.7
分度圆直径 35
形圆直径 34.484
齿根圆半径 R0.375
外花键量棒距 43.697-0.125
外花键量棒直径 4.33
弧齿厚
最大有效值 5.311
最小实际值 5.261

4号轴渐开线外花键齿形



ABT 系列伺服双联泵 Series-servo Double Pump



型号说明/Model Designation

ABT21T	-125	-64	-1	R	01	-D	1
系列号 Series	轴端泵排量代号 Flow-shaft end Pump	盖端泵排量代号 Flow-cover end Pump	轴伸形式 Shaft type	旋转方向 Rotation	油口位置 Port Positions	设计号 Design number	密封等级 Sealing Level
ABT11T	6, 10, 16, 20, 25, 32, 40, 50, 55, 64	6, 10, 16, 20, 25, 32, 40, 50, 55, 64	-1	(从泵的轴端看) (Viewed from shaft end of pump) R-顺时针旋转 right hand for clockwise L-逆时针旋转 left hand for counter- clockwise	见下图 see picture below	C	1-S1, 丁晴橡胶 (Buna) NBR Nitrile rubber
ABT21T	64, 80, 100, 110, 125, 140, 160	6, 10, 16, 20, 25, 32, 40, 50, 55, 64				D	2-S2, 氢化丁晴 HNBR
ABT22T	64, 80, 100, 110, 125, 140, 160	64, 80, 100, 110, 125, 140, 160				D	

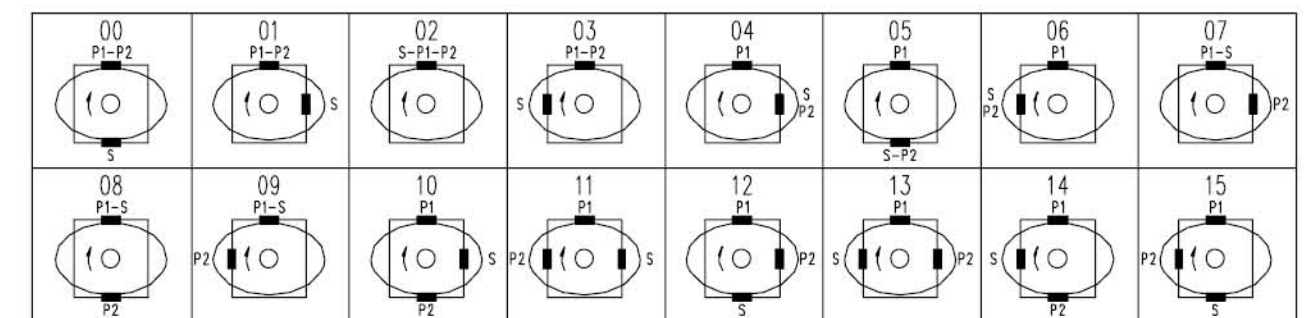
与相应系列、规格的单泵性能参数一致，详见ABT系列单泵的性能参数

The data of relevant series, model are unanimous. Please see ABT series-single pumps data.

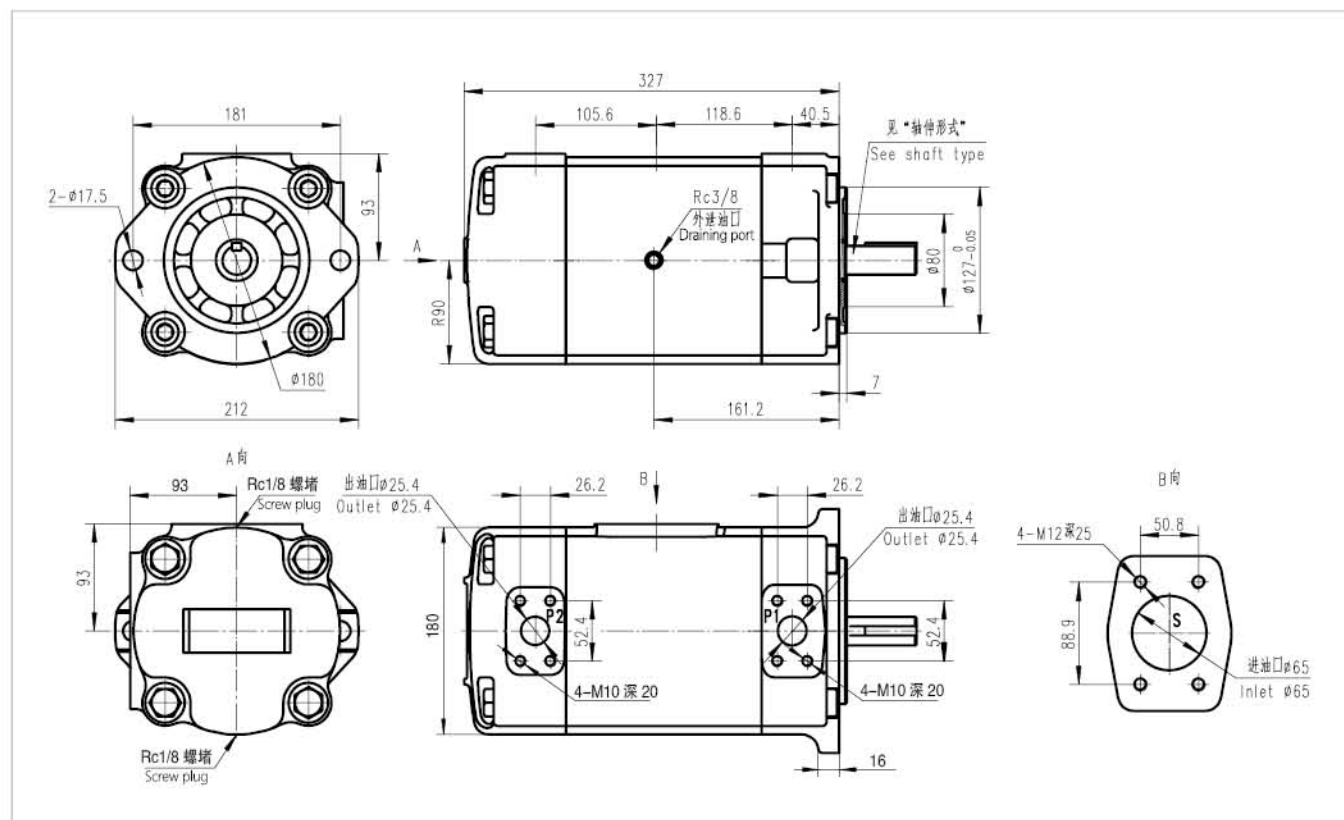
油口位置 (从泵的轴端看)

Port Positions (Viewed from shaft end of pump)

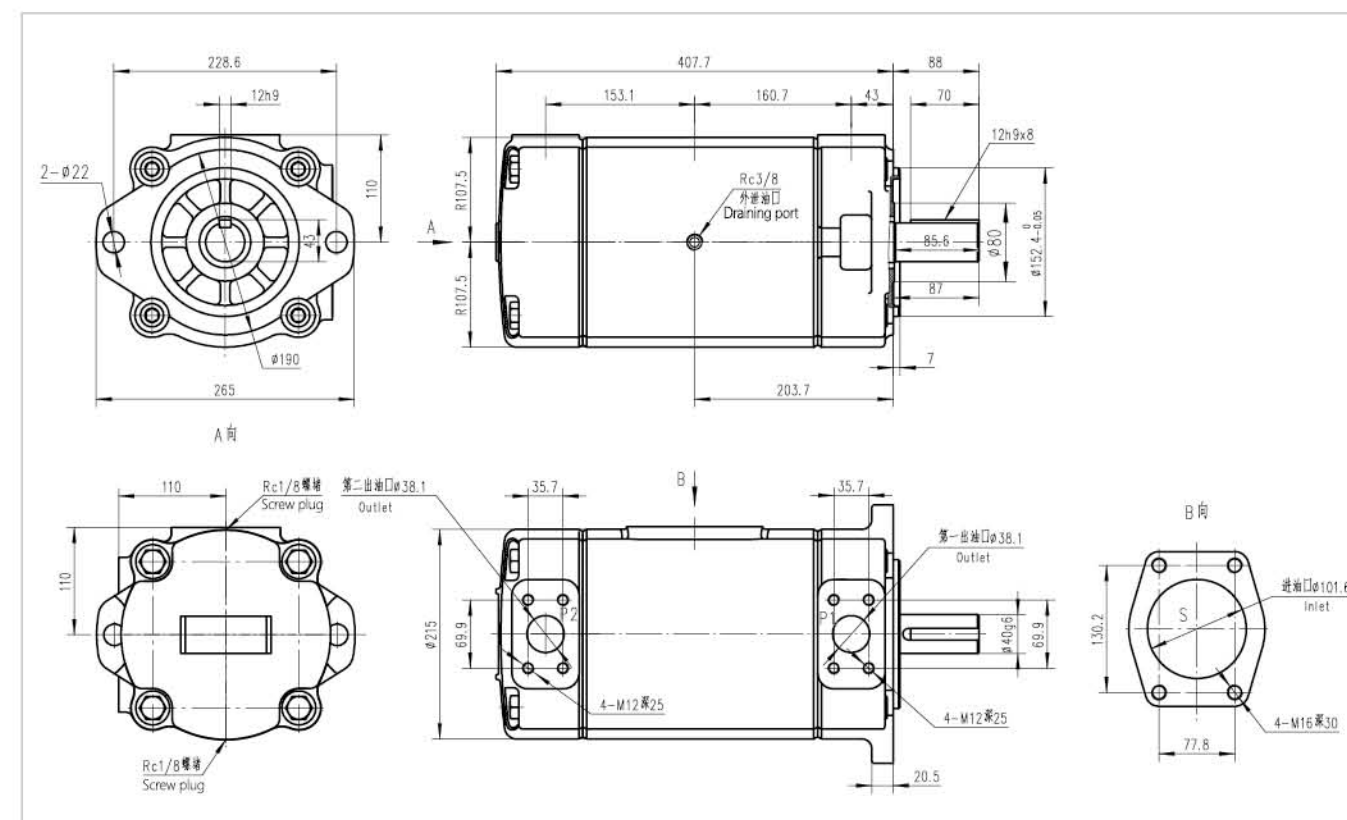
ABT11、ABT21



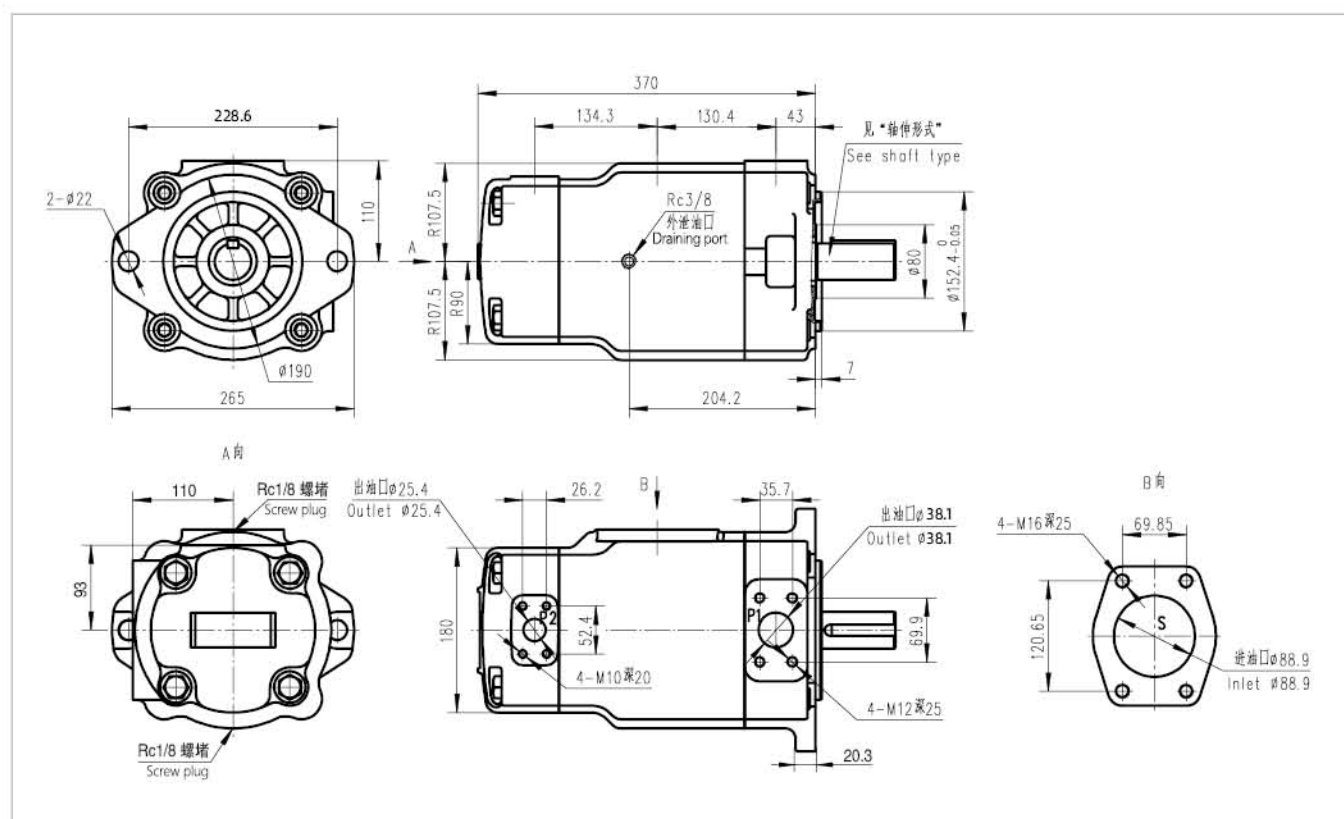
ABT11T安装连接尺寸/ABT11T Installation Dimensions



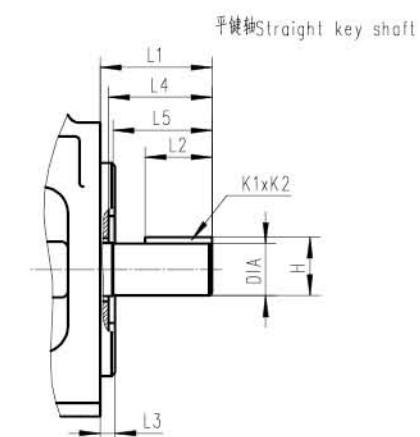
ABT22T安装连接尺寸/ABT22T Installation Dimensions



ABT21T安装连接尺寸/ABT21T Installation Dimensions



轴伸形式/Shaft Type



轴伸尺寸 / Shaft Dimensions

型号 Model	轴伸代号 Shaft code	L1	L2	L3	L4	L5	DIA	K1xK2	H
ABT1T	1	56	32	7.0	51.0	49.6	Φ25g6	8h9x7	28
	2	68	45	7.0	63.0	61.6	Φ25g6	8h9x7	28
ABT2T	2	88	70	7.0	87.0	85.6	Φ40g6	12h9x8	43
ABT3	1	88	70	7.0	87.0	85.6	Φ40g6	12h9x8	43
ABT11T	1	68	45	7.0	63.0	61.6	Φ25g6	8h9x8	28
ABT21T	1	88	70	7.0	87.0	85.6	Φ40g6	12h9x8	43
ABT22T	1	88	70	7.0	87.0	85.6	Φ40g6	12h9x8	43

T7-E 系列变速驱动用叶片泵
Vane pump for variable speed drive



本产品广泛应用于橡胶、压铸、鞋革、锻压、挤压、折弯、剪板机械等伺服系统中。

The pump have been widely used in servo hydraulic systems of rubber and plastic machines, shoes machines, forging and press machines, bending machines and shearing machines.

主要特点/Main Features

- 1、柱销式叶片结构设计，使油泵在启动时扭矩小，电流小，更节能。

2、柱销底部通高压油和辅助弹性机构的合理配合，使油泵可以在低速下正常工作，能适应伺服液压系统快慢速、高低压、正反快速切换的工况。

3、双作用及正反转结构设计，使油泵工作更加平稳，伺服液压系统的响应速度更快。

4、高压、高速结构和双刃口叶片设计，转速范围广，抗污能力强，使用寿命长。

5、低噪音结构设计，排量范围广，可根据客户要求灵活定制不同排量。

6、采用插装式结构，维修时只需更换泵芯，维修跟便捷、成本更低。
- 1、Dowel pin type vane kits designation can make the pump with small resistance, low electronic, and with more energy saving.

2、With the coordination of high pressure oil and vice spring structure, can make the pump run normally at low speed, can fit low and high speed shift, high and low pressure speed shift, right and left rotation shift etc working status of servo hydraulic system perfectly.

3、Double action and right-eft rotation structure designation make the pump work more steadily, servo hydraulic system response more quickly.

4、High pressure, high speed structure and double cutting edges designation make the speed range more wide, and with more better polution resistance, and more longer working life.

5、Low noise stucture designation and wide range of flow, can be customized according to different requirements.

6、Use the catridge kit insallation structure, repairing only need change the cartridge kit, more convenient for repairing, and with more lower cost.

主要技术参数
Main technical data

泵 Pump		理论排量 Geological Displaceme-nt vi cm³/rev	最高转速/Max.speed		最高压力/Max.pressure			
系列 series	泵芯规格 Cartridge Model		HF-0, HF-1 HF-2	HF-4, HF-5	HF-0, HF-2		HF-1, HF-4, HF-5	
					间歇/Instant	连续/Continuous	间歇/Instant	连续/Continuous
			rpm	rpm	bar	bar	bar	bar
T7BS	E03	9.8	3600	1800	320	290	240	210
	E04	12.8						
	E05	15.9						
	E06	19.8						
	E07	22.5						
	E08	24.9						
	E09	28						
	E10	31.8	3000		300	275		
	E11	35						
	E12	41						
	E14	45						
E15	50		280	240				
T7DS	E14	44	3000	1800	300	250	240	210
	E17	55						
	E20	66						
	E22	70.3						
	E24	81.1						
	E28	90						
	E31	99.2						
	E35	113.4	2800	280				
	E38	120.6						
	E42	137.5	2500	260	230			
T7ES	E45	142.4	2200	1800	240	210	210	175
	E50	158.5						
	E52	164.8						
	E54	171.0						
	E57	183.3						
	E62	196.7						
	E66	213.3						
	E72	227.1						

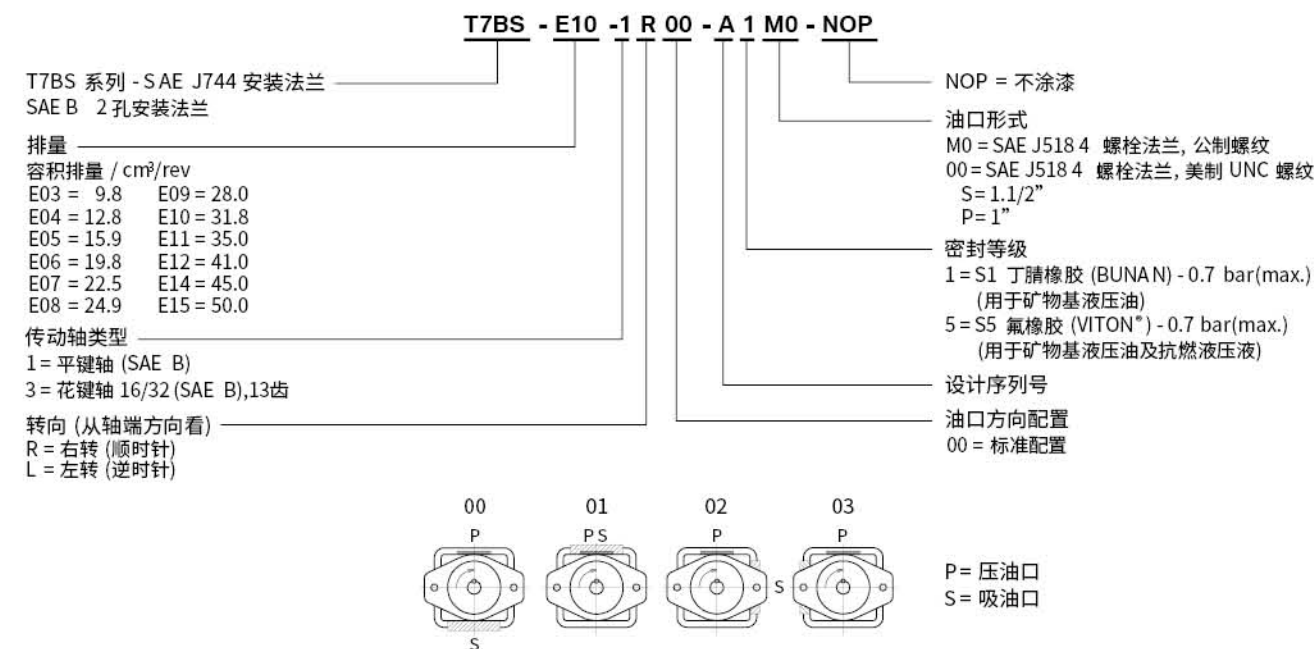
HF-0, HF-2 =石油基抗磨液压油
HF-4=水乙二醇液

HF-0, HF-2 =Petroleum based anti-wear hydraulic oil
HF-4=Water glycol fluid

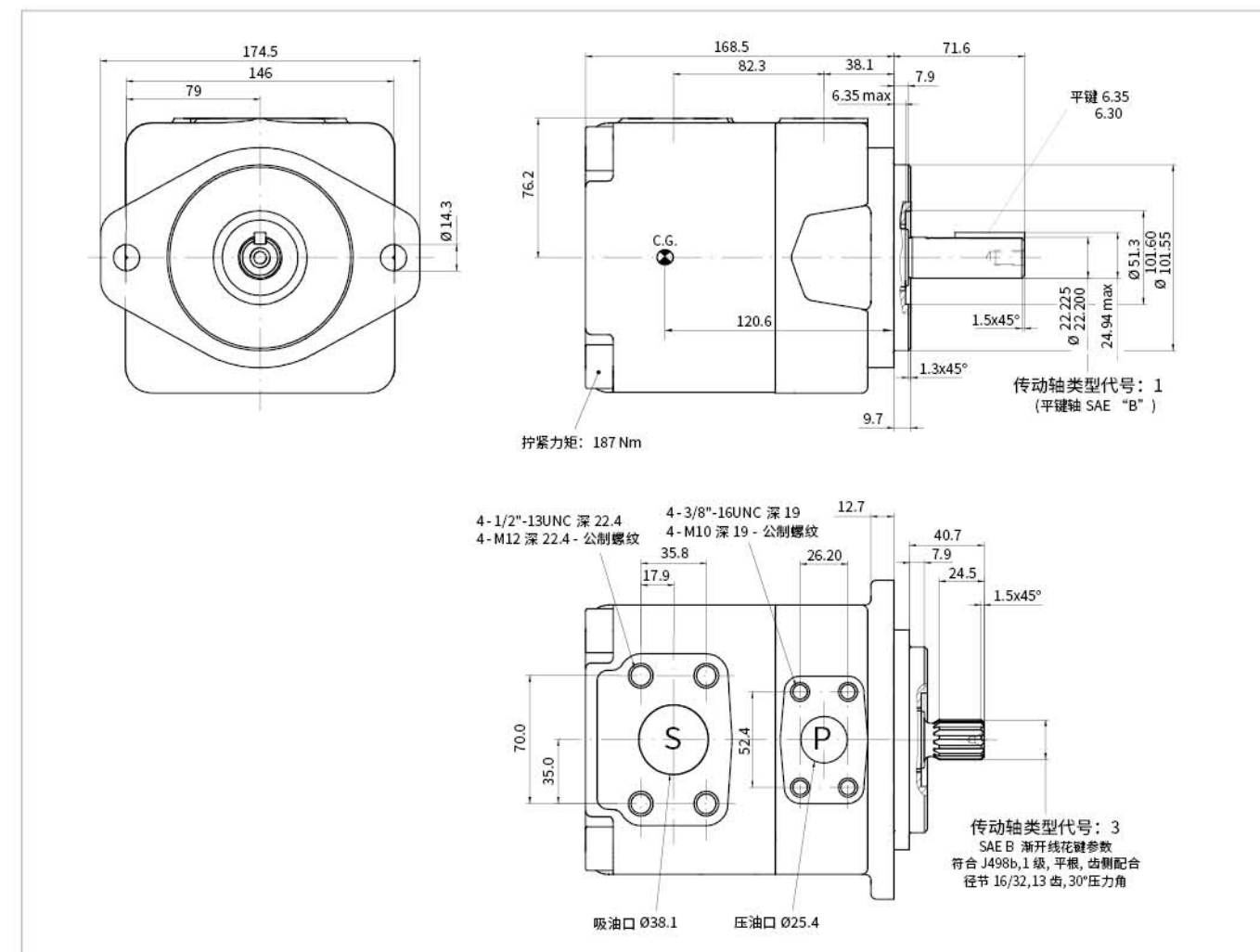
HF-1 =石油基液压油(非抗磨)
HF-5=合成液液磷酸脂液等

HF-1 =Petroleum based hydraulic oil
HF-5=Synthetic liquid hydraulic phospholipid liquid, etc

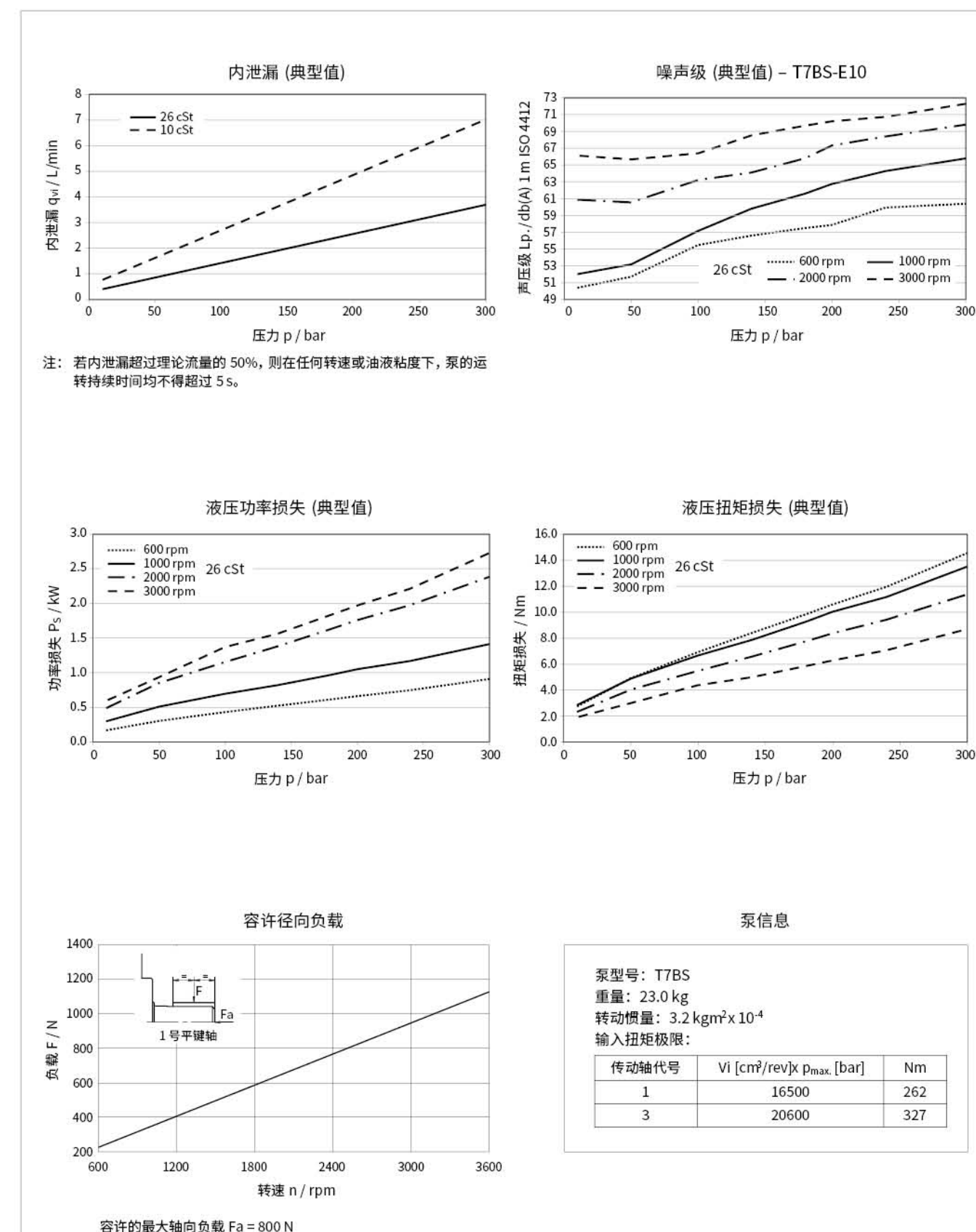
T7BS 订货代号



T7BS 安装连接尺寸/Installation Dimensions



T7BS 性能参数图表



T7DS 订货代号

T7DS - E42 - 1 R 00 - A 1 0W - NOP

T7DS 系列 - SAE J744 安装法兰
SAE C 2 孔安装法兰

排量
容积排量 / cm³/rev
E14 = 44.0 E28 = 90.0
E17 = 55.0 E31 = 99.2
E20 = 66.0 E35 = 113.4
E22 = 70.3 E38 = 120.6
E24 = 81.1 E42 = 137.5

传动轴类型
1 = 平键轴 (SAE C) Ø31.7
3 = 花键轴 12/24 (SAE C), 14 齿

转向 (从轴端方向看)
R = 右转 (顺时针)
L = 左转 (逆时针)

NOP = 不涂漆
油口形式
MW = SAE J518 4 螺栓法兰, 公制螺纹
出油口 P 油口螺纹 M12
MS = SAE J518 4 螺栓法兰, 公制螺纹
出油口 P 油口螺纹 M10
0W = SAE J518 4 螺栓法兰, 美制UNC 螺纹
S = 2.1/2"
P = 1.1/4"

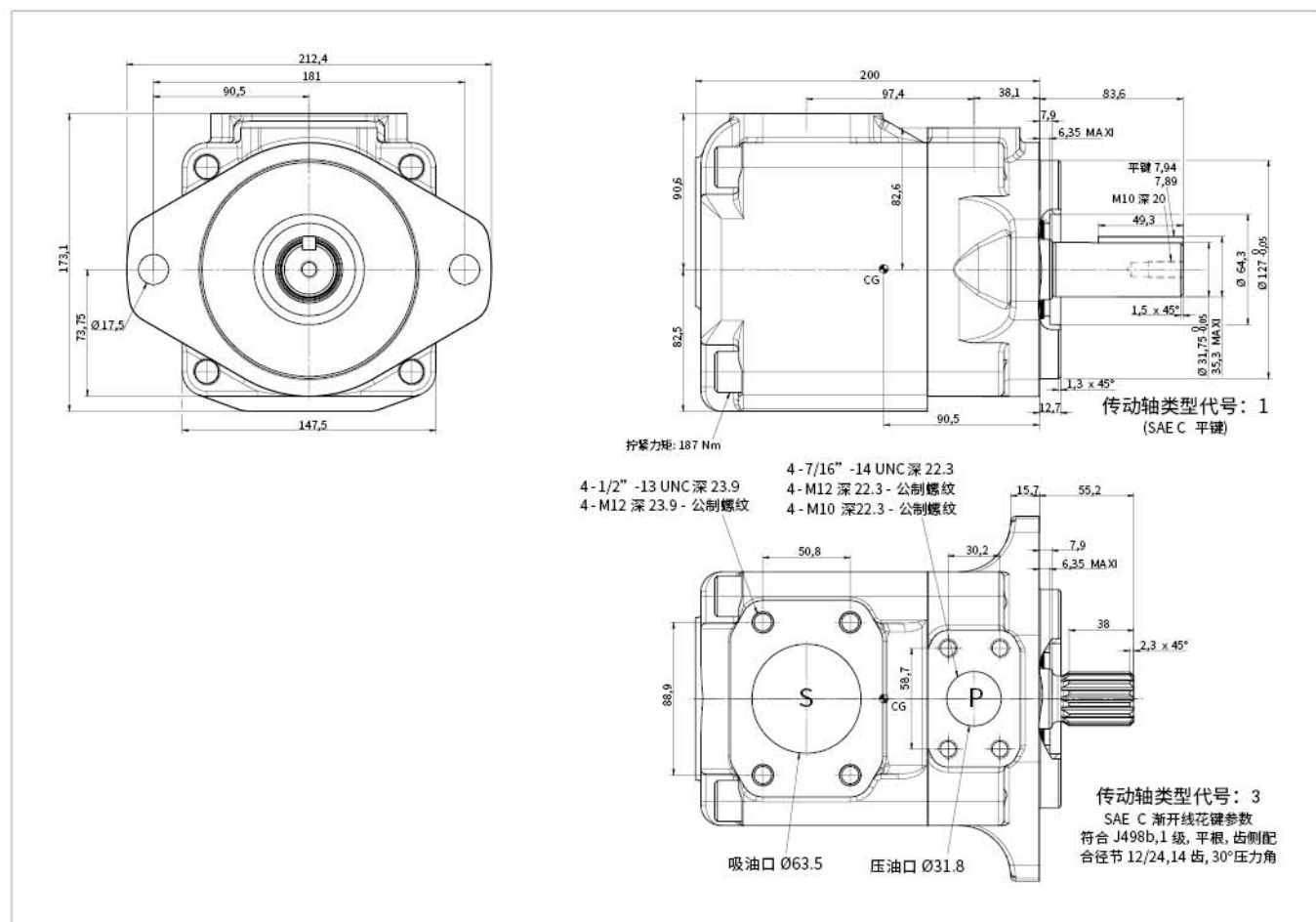
密封等级
1 = S1 丁腈橡胶 (BUNAN) - 0.7 bar(max.)
(用于矿物基液压油)
5 = S5 氟橡胶 (VITON®) - 7 bar(max.)
(用于矿物基液压油及抗燃液压油)

设计序列号
油口方向配置
00 = 标准配置

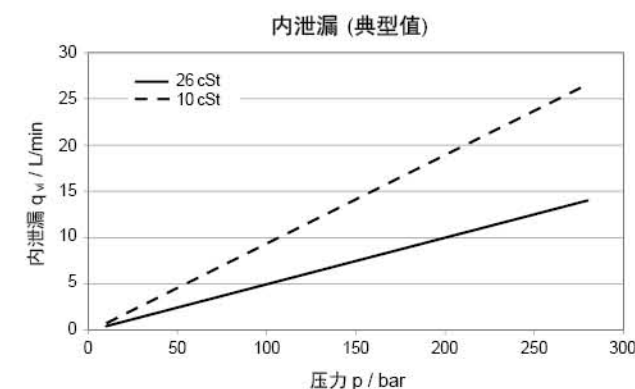
00 P S 01 P S 02 P S 03 P S

P = 压油口
S = 吸油口

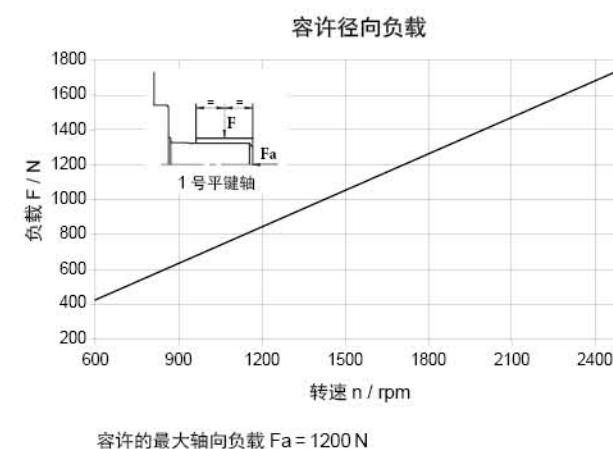
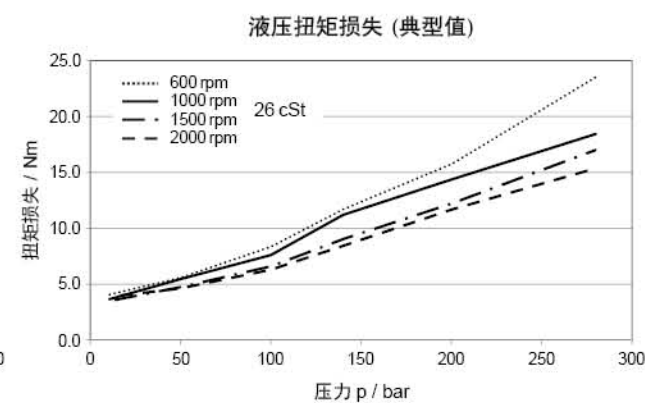
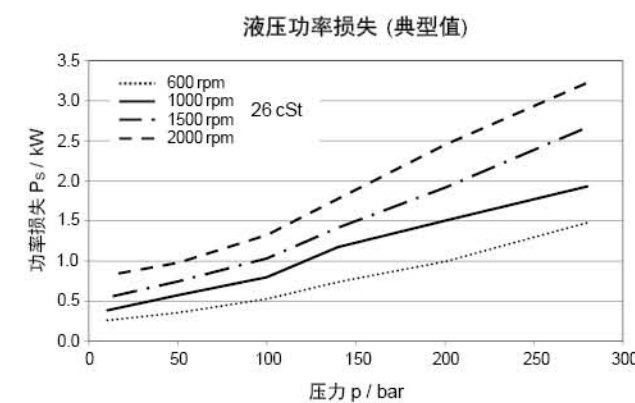
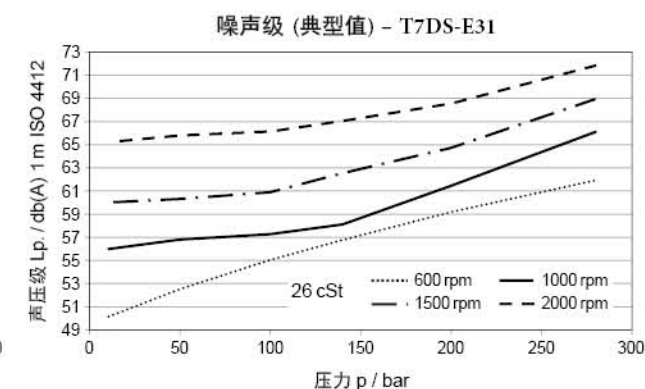
T7DS 安装连接尺寸/Installation Dimensions



T7DS 性能参数图表



注: 若内泄漏超过理论流量的 50%, 则在任何转速或粘度下, 泵的运转持续时间均不得超过 5 s。



泵信息

泵型号: T7DS
重量: 26.0 kg
转动惯量: $19.6 \text{ kgm}^2 \times 10^{-4}$
输入扭矩极限:

传动轴代号	$V_i [\text{cm}^3/\text{rev}] \times p_{\text{max}} [\text{bar}]$	Nm
1	43240	688
3	61200	974

T7ES 订货代号

T7ES - E72 - 1 R 00 - A 1 M0 - 1

T7ES系列 - SAE J744
SAE C 2孔安装法兰

排量
容积排量[cm³/rev.]
E45 = 142,4 E57 = 183,3
E50 = 158,5 E62 = 196,7
E52 = 164,8 E66 = 213,3
E54 = 171,0 E72 = 227,1

传动轴类型
1 = 平键轴(SAE CC)
3 = 花键轴(SAE C) 14齿
4 = 花键轴(SAE CC) 17齿

转向 (从轴端方向看)
R = 右转 (顺时针)
L = 左转 (逆时针)

修改代码
Ex: NOP = 不喷漆

油口形式
M0 = SAE J518 4螺栓法兰 公制螺纹
00 = SAE J518 4螺栓法兰 美制螺纹
S = 3" - P = 1.1/2"

密封等级
1 = S1 BUNA N
5 = S5 VITON®

设计序列号

油口方向配置
00 = 标准配置

输入扭矩极限:

轴	Vi [cm³/rev] x p max. [bar]	Nm
1	54500	867
3	61200	974
4	61200	974

重量: 43,0 kg
转动惯量: 62,5 Kgm² x 10⁻⁴

油口方向配置
00 = 标准配置

油口形式
M0 = SAE J518 4螺栓法兰, 公制螺纹
00 = SAE J518 4螺栓法兰, 美制 UNC 螺纹
S = 2.1/2"

密封等级
1 = S1 丁腈橡胶 (BUNA N) - 0.7bar (max.)
(用于矿物基液压油)
5 = S5 氟橡胶 (VITON®) - 0.7bar (max.)
(用于矿物基液压油及抗燃液压油)

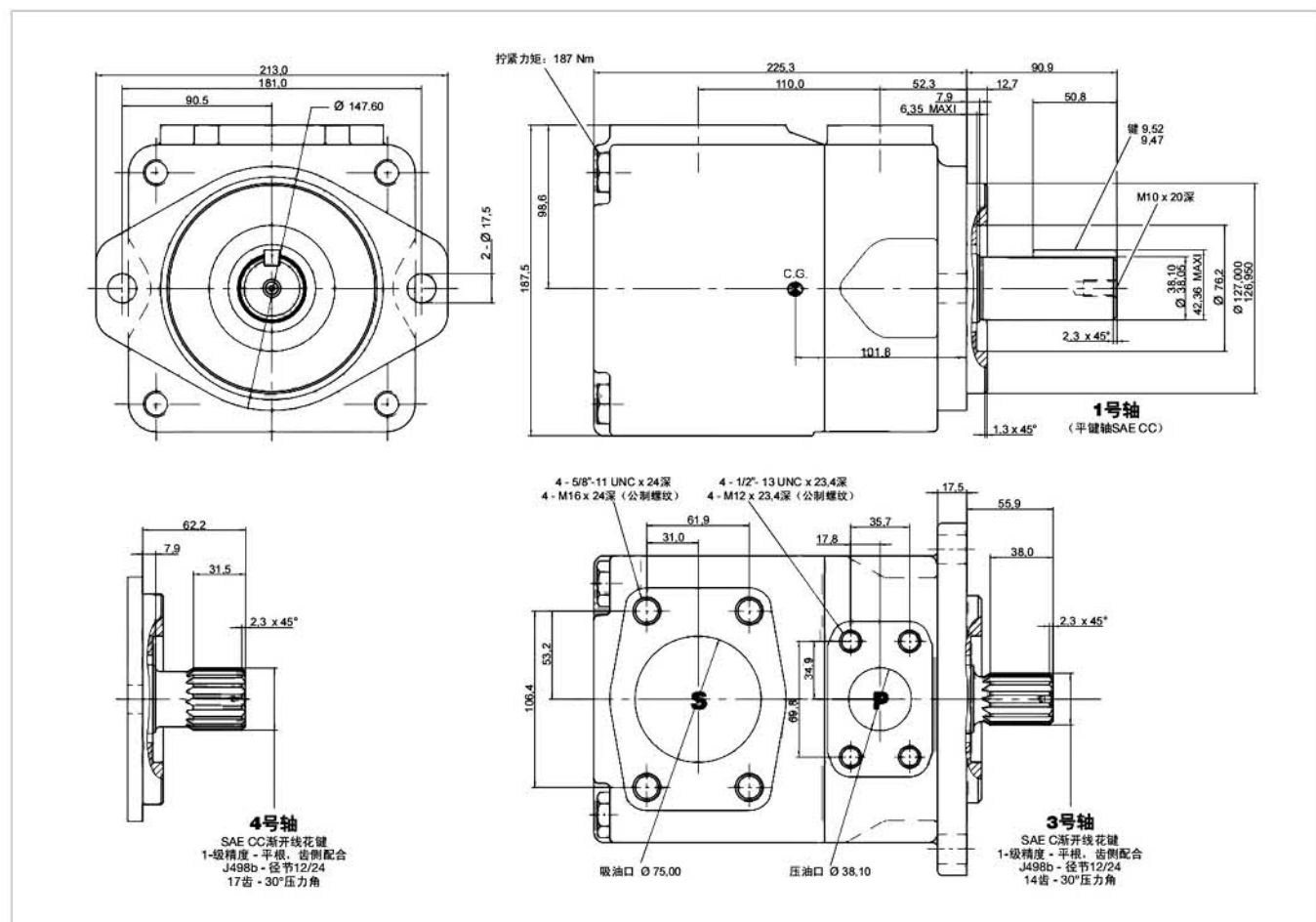
设计序列号
油口方向配置 (见105页)
00 = 标准配置

油口形式
M0 = SAE J518 4螺栓法兰, 公制螺纹
00 = SAE J518 4螺栓法兰, 美制 UNC 螺纹
S = 2.1/2"

密封等级
1 = S1 丁腈橡胶 (BUNA N) - 0.7bar (max.)
(用于矿物基液压油)
5 = S5 氟橡胶 (VITON®) - 0.7bar (max.)
(用于矿物基液压油及抗燃液压油)

设计序列号
油口方向配置 (见105页)
00 = 标准配置

T7ES 安装连接尺寸/Installation Dimensions



T7BBS 订货代号

订货代号

T7BBS系列 - SAE J744安装法兰
SAEB 2孔安装法兰

排量
容积排量 / cm³/rev
E03 = 9.8 E09 = 28.0
E04 = 12.8 E10 = 31.8
E05 = 15.9 E11 = 35.0
E06 = 19.8 E12 = 41.0
E07 = 22.5 E14 = 45.0
E08 = 24.9 E15 = 50.0

传动轴类型
2 = 平键轴 (SAEBB)
3 = 花键轴 (SAEB) 13齿

转向 (从轴端方向看)
R = 右转 (顺时针)
L = 左转 (逆时针)

油口形式
MW = SAE J518 4螺栓法兰, 公制螺纹
OW = SAE J518 4螺栓法兰, 美制 UNC 螺纹
S = 2.1/2"

密封等级
1 = S1 丁腈橡胶 (BUNA N) - 0.7bar (max.)
(用于矿物基液压油)
5 = S5 氟橡胶 (VITON®) - 0.7bar (max.)
(用于矿物基液压油及抗燃液压油)

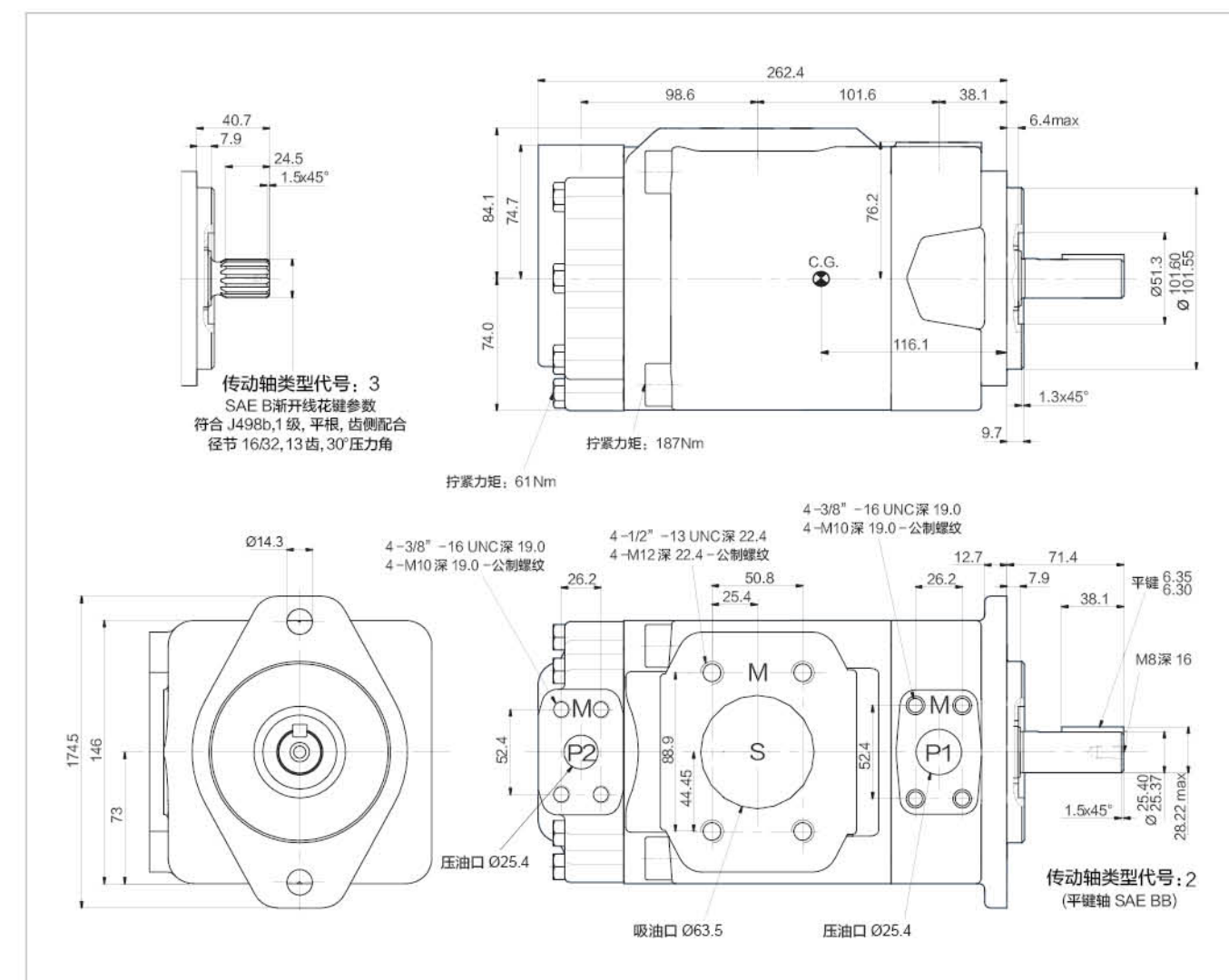
设计序列号
油口方向配置 (见105页)
00 = 标准配置

油口形式
MW = SAE J518 4螺栓法兰, 公制螺纹
OW = SAE J518 4螺栓法兰, 美制 UNC 螺纹
S = 2.1/2"

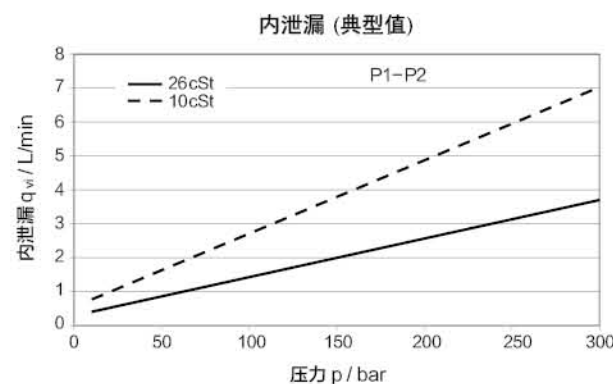
密封等级
1 = S1 丁腈橡胶 (BUNA N) - 0.7bar (max.)
(用于矿物基液压油)
5 = S5 氟橡胶 (VITON®) - 0.7bar (max.)
(用于矿物基液压油及抗燃液压油)

设计序列号
油口方向配置 (见105页)
00 = 标准配置

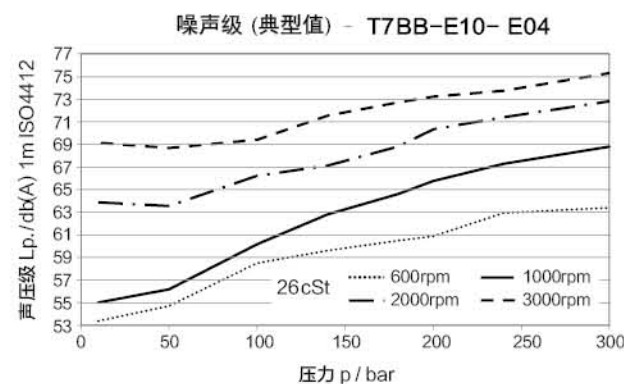
T7BBS 安装连接尺寸/Installation Dimensions



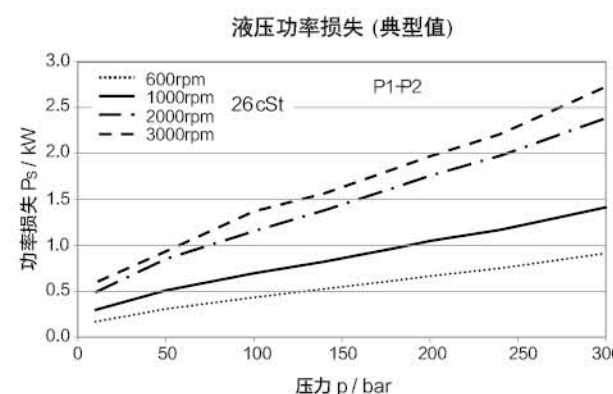
T7BBS 性能参数图表



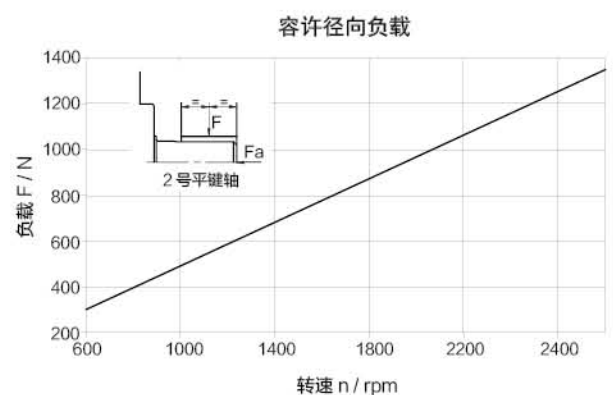
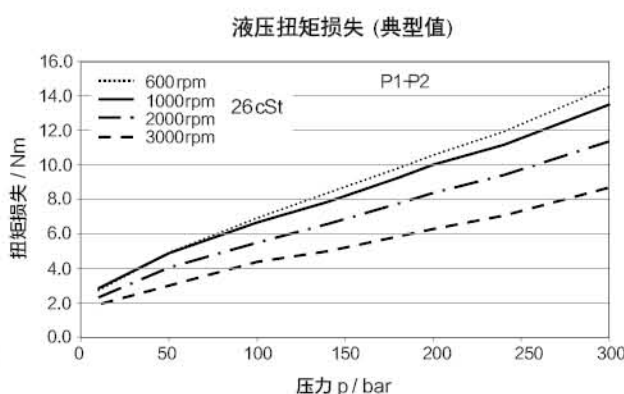
注: 若内泄漏超过理论流量的 50%, 则在任何转速或粘度下, 泵的运转持续时间均不得超过 5s。
总内泄漏量为两泵在各自工况条件下的内泄漏量之和。



图表中给出的双联泵噪声级,是在两泵的出口压力均为曲线上的对应压力时测试取得。



总功率损耗为各联泵在相应工况下功率损失之和。



泵信息

泵型号: T7BBS
重量: 32.6kg
转动惯量: $6.7kgm^2 \times 10^{-4}$
输入扭矩极限:

传动轴代号	$V_i [cm^3/rev] \times p_{max.} [bar]$	Nm
2	21420	340
3	20600	327

T7DBS 订货代号

T7DBS - E42 - E10 - 1 R 00 - A 1 M0 - NOP

T7DBS 系列 - SAE J 744 安装法兰
SAE C 2 孔安装法兰

排量 P1
容积排量 / cm^3/rev
E14 = 44.0 E28 = 90.0
E17 = 55.0 E31 = 99.2
E20 = 66.0 E35 = 113.4
E22 = 70.3 E38 = 120.6
E24 = 81.1 E42 = 137.5

排量 P2
容积排量 / cm^3/rev
E03 = 9.8 E09 = 28.0
E04 = 12.8 E10 = 31.8
E05 = 15.9 E11 = 35.0
E06 = 19.8 E12 = 41.0
E07 = 22.5 E14 = 45.0
E08 = 24.9 E15 = 50.0

传动轴类型
1 = 平键轴 (SAE C)
3 = 花键轴 12/24 (SAE C) 14 齿

修改代号
NOP = 不涂漆

油口形式
M0 = SAE J518.4 螺栓法兰, 公制螺纹
00 = SAE J518.4 螺栓法兰, 美制 UNC 螺纹
S = 3"
P1 = 1.1/4"
P2 = 1"

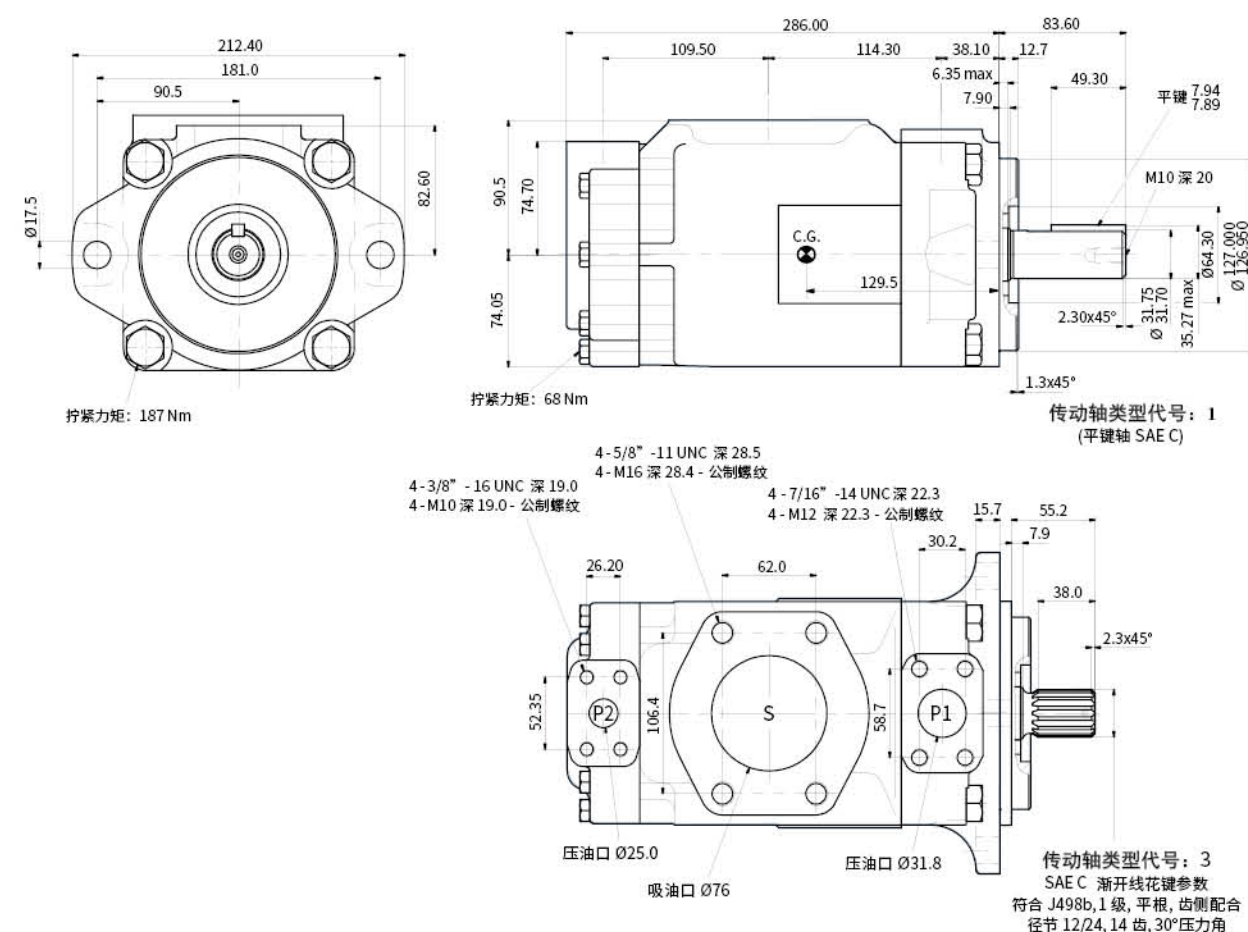
密封等级
1 = S1 丁腈橡胶 (BUNAN) - 0.7 bar (max.)
(用于矿物基液压油)
5 = S5 氟橡胶 (VITON®) - 7 bar (max.)
(用于矿物基液压油及抗燃油液)

设计序列号
00 = 标准配置

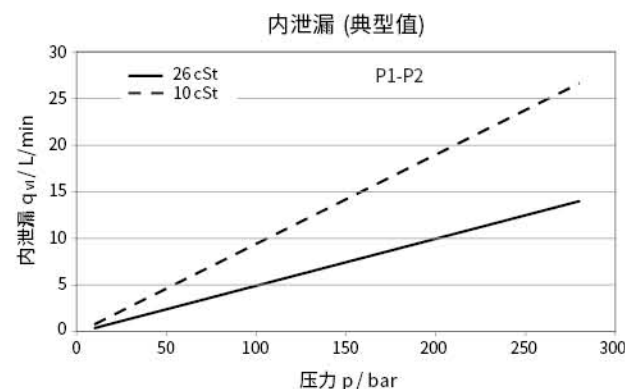
油口方向配置 (见105页)
00 = 标准配置

转向 (从轴端方向看)
R = 右转 (顺时针)
L = 左转 (逆时针)

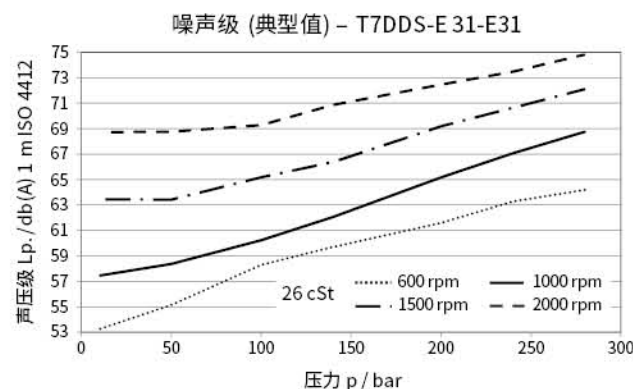
T7DBS 安装连接尺寸/Installation Dimensions



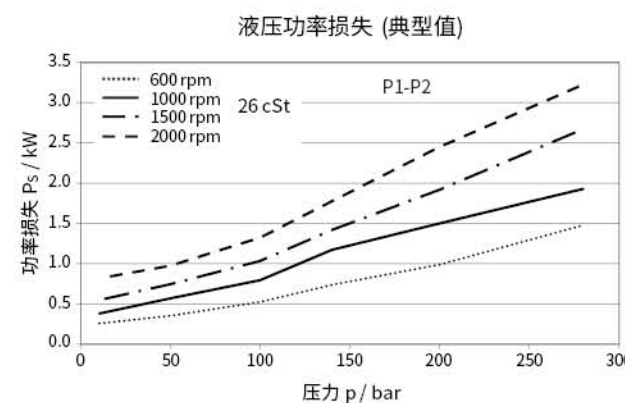
T7DDS 性能参数图表



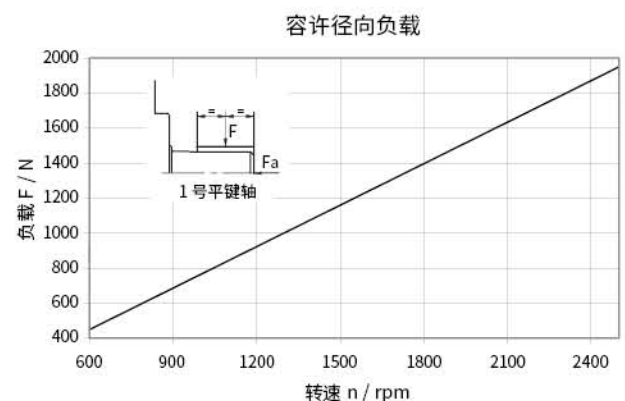
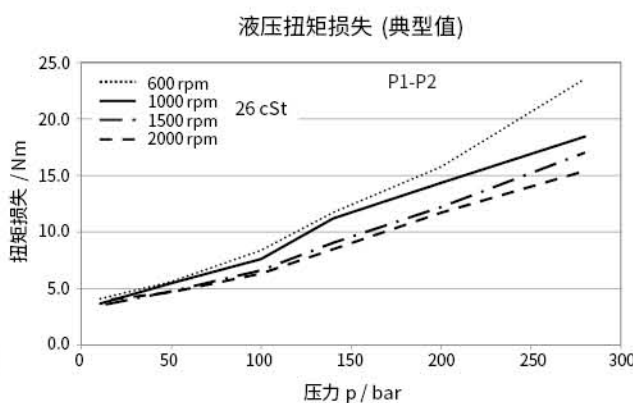
注: 若内泄漏超过理论流量的 50%, 则在任何转速或粘度下, 泵的运转持续时间均不得超过 5 s。
总内泄漏量为两泵在各自工况条件下的内泄漏量之和。



图表中给出的双联泵噪声级, 是在两泵的出口压力均为曲线上的对应压力时测试取得。



总功率损耗为各泵在相应工况下功率损失之和。



容许的最大轴向负载 $F_a = 1200$ N

泵信息

泵型号: T7DDS
重量: 56.0 kg
转动惯量: $36.3 \text{ kgm}^2 \times 10^{-4}$
输入扭矩极限:

传动轴代号	$V_i [\text{cm}^3/\text{rev}] \times p_{\text{max.}} [\text{bar}]$	Nm
1	43240	688
2	71750	1142
3	61200	974
4	35880	571

T7EDS 订货代号

订货代号

T7EDS系列 - ISO 3019-2 安装法兰
HW 2 孔安装法兰

排量

P1		P2	
容积排量 / cm^3/rev		容积排量 / cm^3/rev	
E45 = 142.4	E57 = 183.3	E14 = 44.0	E28 = 90.0
E50 = 158.5	E62 = 196.7	E17 = 55.0	E31 = 99.2
E52 = 164.8	E66 = 213.3	E20 = 66.0	E35 = 113.4
E54 = 171.0	E72 = 227.1	E22 = 70.3	E38 = 120.6
		E24 = 81.1	E42 = 137.5

传动轴类型

1 = 平键轴

转向 (从轴端方向看)

R = 右转 (顺时针)

L = 左转 (逆时针)

T7EDS-E45-E22-1R00-A1M0-NOP

修改代号
NOP = 不涂漆

油口形式

M0 = SAE J518 4 螺栓法兰, 公制螺纹
00 = SAE J518 4 螺栓法兰, 美制 UNC 螺纹

密封等级

1 = S1 丁腈橡胶 (BUNAN) - 0.7 bar (max.)
(用于矿物基液压油)

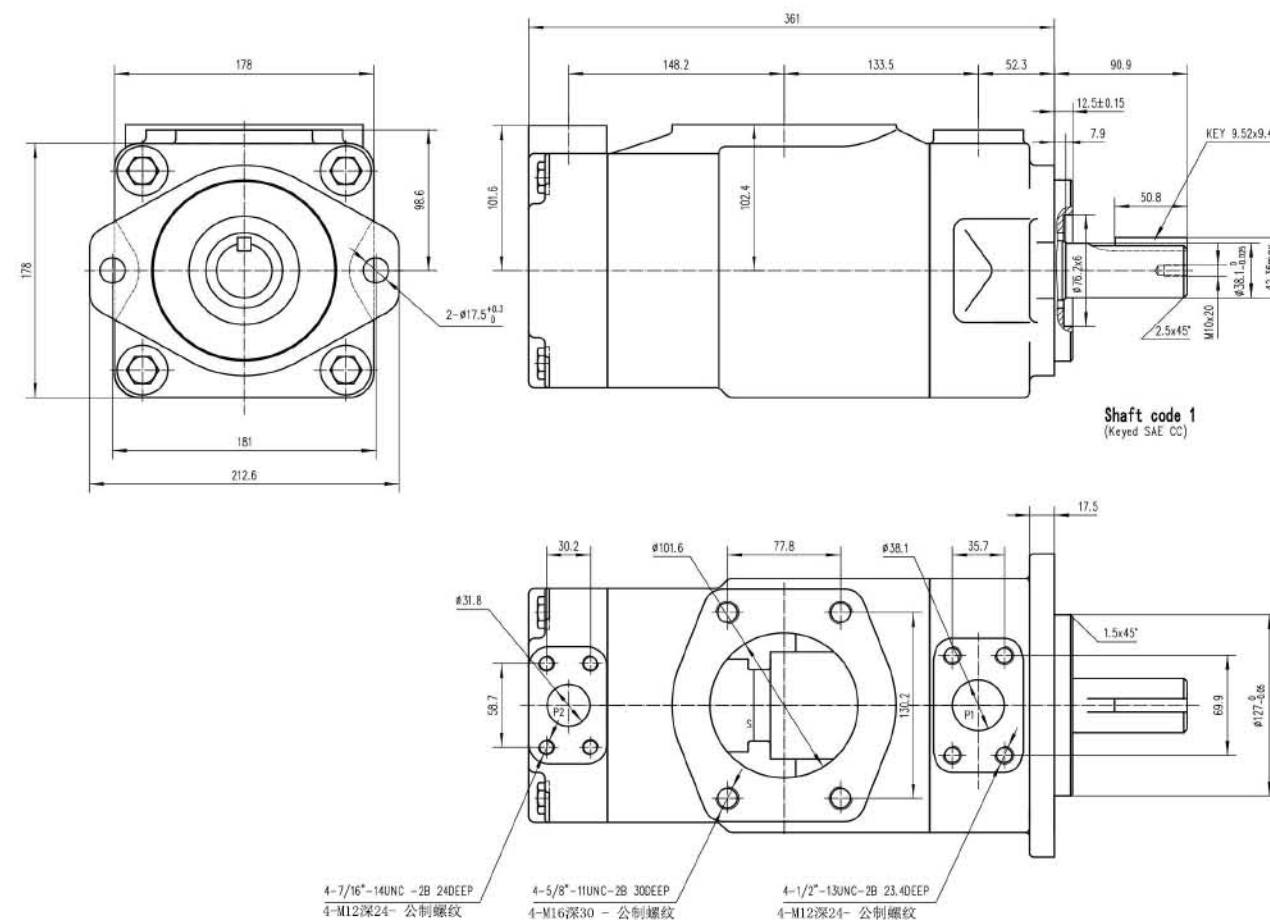
5 = S5 氟橡胶 (VITON®) - 7 bar (max.)
(用于矿物基液压油及抗燃液压油)

设计序列号

油口方向配置

00 = 标准配置 (见 105 页)

T7EDS 安装连接尺寸/Installation Dimensions

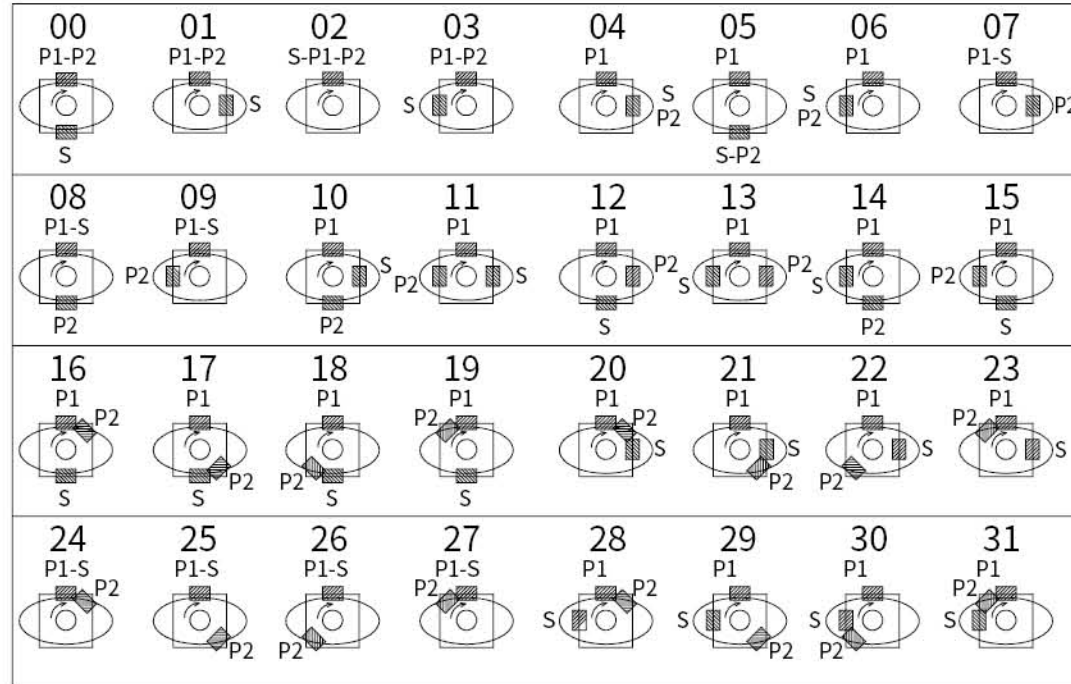


双联泵油口位置 (从泵的轴端看)

Port Positions (Viewed from shaft end of pump)

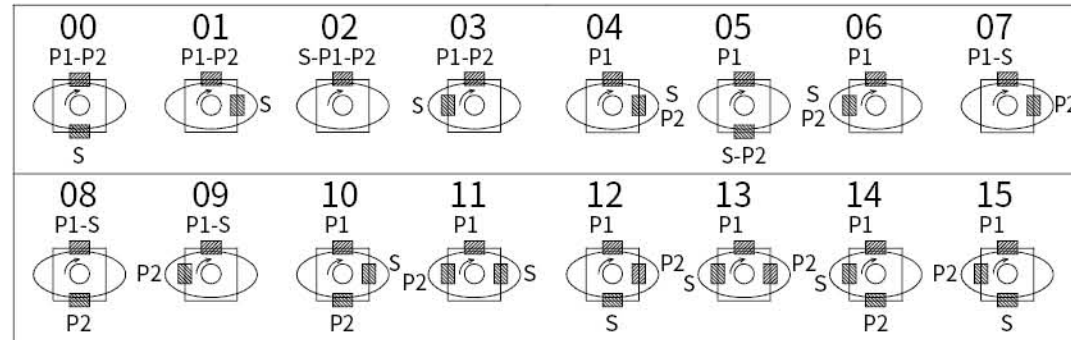
T7BBS

T7DBS



T7DDS

T7EDS



M 系列叶片马达 Series-vane Motor

适用于各种中高压液压系统，如渔船拖网机、船用锚机、绞车、工程机械等。

Suitable for various medium and high pressure hydraulic systems, such as fishing boat trawlers, ship windlasses, winches, engineering machinery, etc.

主要特点为:

转速范围宽广，噪音小，可正、反转，动作灵敏。径向液压平衡，因而工作压力高，使用寿命长，并具有体积小、重量轻、结构简单、使用、维修方便等特点。

The main features are:

The speed range is wide, the noise is low, it can be forward and reverse, and the action is sensitive. Radial hydraulic balance, so the working pressure is high, the service life is long, and it has the characteristics of small size, light weight, simple structure, convenient use and maintenance.



型号说明/Model Designation

25M				65	A	-11	C	20
系列号 Series				扭矩额定值 (lb.in./100 psi)	油口连接 Port connections	轴伸形式 Shaft type	盖端位置 Cover end position	设计号 Design number
标准 轴承 Standard bearing	25M	重型 轴承 Heavy- duty bearings	26M	42、55、65	SAE 2-螺栓安装法兰和 SAE 4-螺栓法兰连接 2-bolt mounting flange and 4-bolt flange connection	1-平键轴 Straight key shaft 11-花键轴 Spline shaft	(从盖端看) (viewed from the cover end) A: 轴端油口对面 Opposite the shaft end oil port B: 从轴端油口逆时针90° 90°CCW from the shaft end oil port C: 轴端油口同侧 inline with shaft end oil port D: 从轴端油口顺时针90° 90°CW from the shaft end oil port	20-29
	35M		36M	80、95、115				
	45M		46M	130、155、185				
	50M		51M	220、255、300				

技术参数/Technical Data

系列号 Series	扭矩(Torque) Nm/6.9 bar (lb in/100 psi)	排量ml/r Displacement	在1200r/min下 要求的流量输入 L/min (USgpm)	最高转速和压力. Mx.speed and pressure	重量 Weight kg (lb)
25M	4.7(42)	43.9(2.68)	52.6(13.9)	3600r/min@34bar(500psi) † 4000r/min@34bar(500psi) ‡	18 (40)
	6.2(55)	57.7(3.52)	69.3(18.3)		
	7.3(65)	68.7(4.19)	82.5(21.8)		2600r/min@155bar(2250psi) † 3000r/min@172bar(2500psi) ‡
35M	9.0(80)	83.6(5.10)	100.3(26.5)		
	10.7(95)	100.3(6.12)	120.4(31.8)	2600r/min@155bar(2250psi) † 3000r/min@172bar(2500psi) ‡	
13.0(115)	121.9(7.44)	146.1(38.6)			
45M	14.7(130)	138.0(8.42)	165.4(43.7)		2600r/min@155bar(2250psi) † 3000r/min@172bar(2500psi) ‡
	17.5(155)	163.2(9.96)	195.7(51.7)		
	20.9(185)	193.2(11.79)	232.0(61.3)		
50M	24.9(220)	231.2(14.11)	277.5(73.3)	2800r/min@34bar(500psi) † 3200r/min@34bar(500psi) ‡ 2200r/min@155bar(2250psi) † 2400r/min@172bar(2500psi) ‡•	73 (160)
	28.8(255)	268.1(16.36)	321.8(85.0)		
	33.9(300)	317.1(19.35)	380.4(100.5)		

† 连续工作 continuously working

‡ 间歇工作:总工作时间的10%; 每次压力和/或转速工作不超过6s.

• 114型号后缀: 2500psi, 逆时针; 2250psi, 顺时针。(从轴端方向看旋转)

• 124型号后缀: 2500psi, 单向旋转

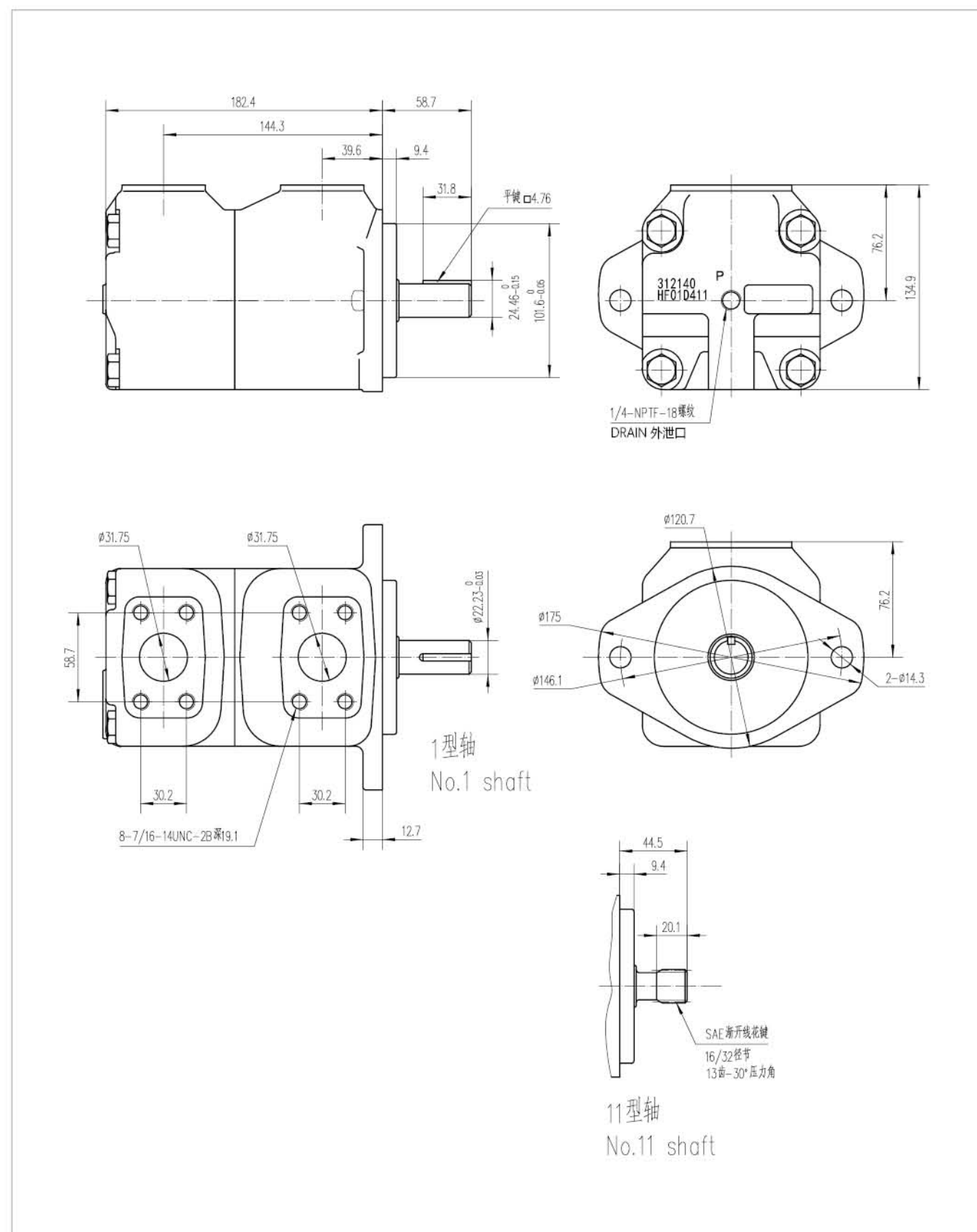
† Continuously working

‡ Intermittent work: 10% of the total working time, each pressure and or speed work does not exceed 6 seconds.

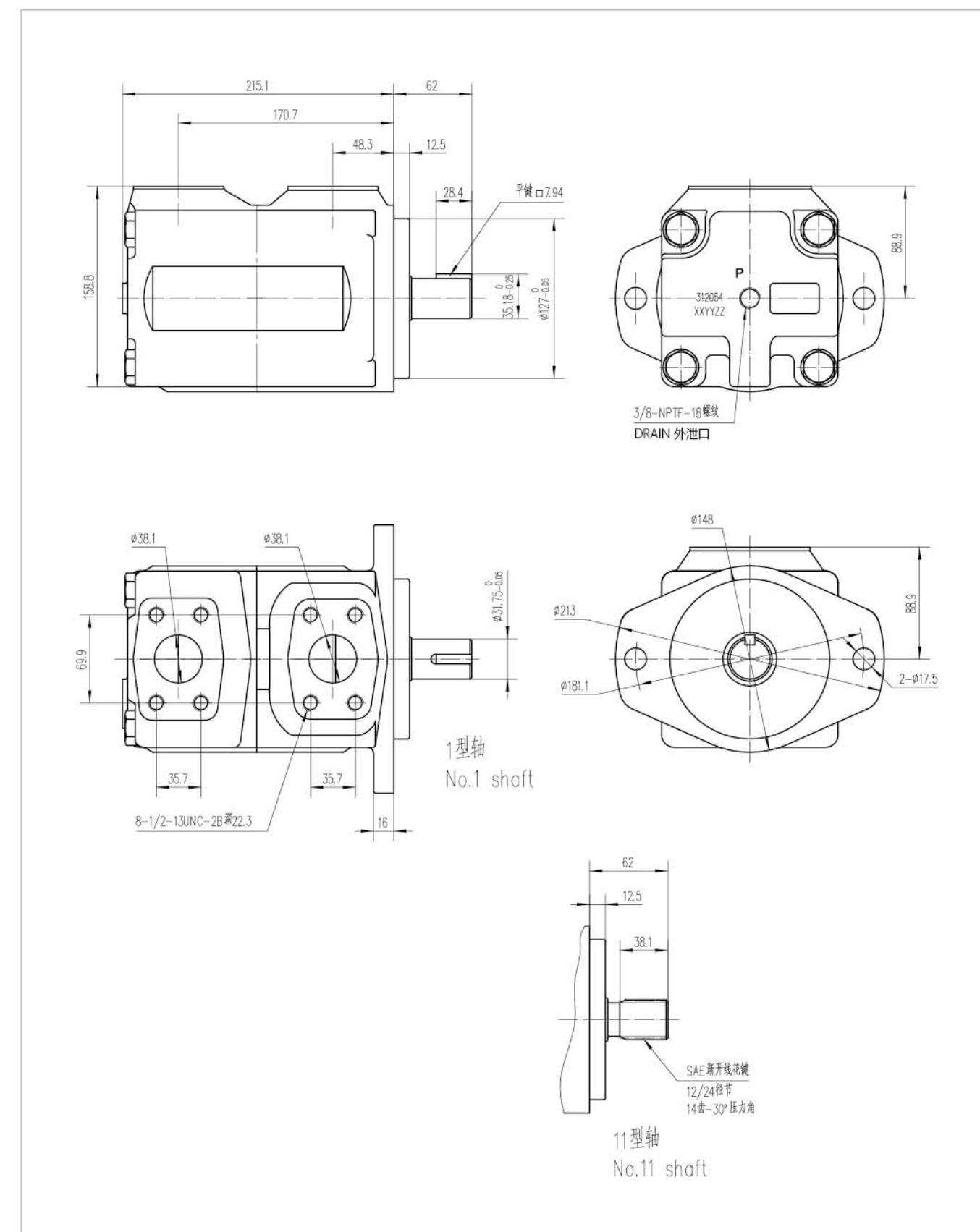
• 114 model: 2500psi, CCW; 2250psi, CW (see rotation from the shaft end)

• 124 model: 2500psi, one-way rotation

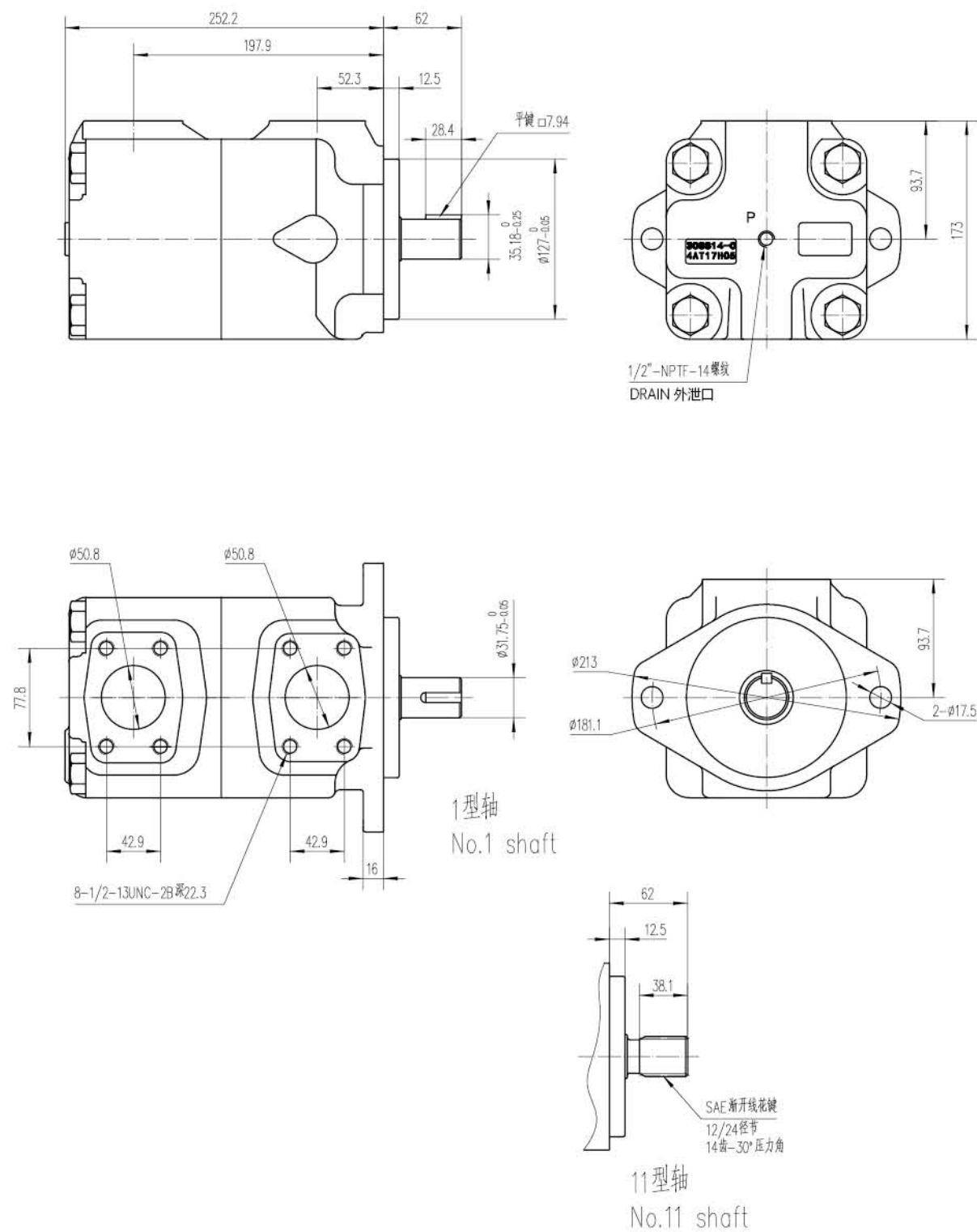
25M安装连接尺寸/Installation Dimensions



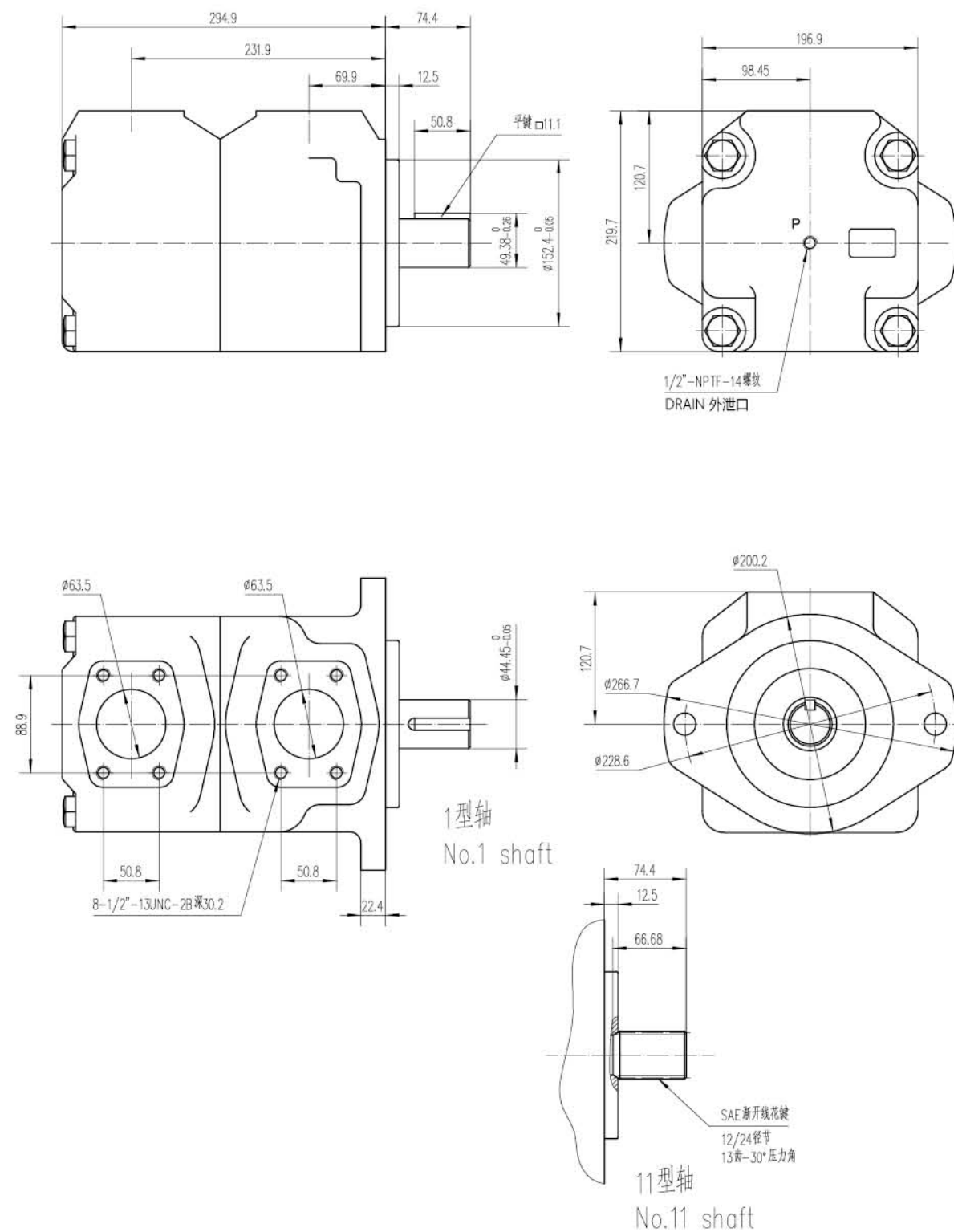
35M安装连接尺寸/Installation Dimensions



45M安装连接尺寸/Installation Dimensions



50M安装连接尺寸/Installation Dimensions



M4 系列叶片马达 Series-vane Motor



型号说明/Model Designation

M4C	067	-1	N	00	A	1	02
系列号 Series	排量ml/r Displacement	轴伸形式 Shaft type	转向 Rotation	油口位置 Port positions	设计号 Design number	密封等级 Sealing Level	油口 Oil port
M4C	024 (24.2)	1-平键轴 Straight key shaft	N: 双向 N: Two-way	见下图 See picture below	A	1-丁腈橡胶 (Buna) NBR Nitrile rubber	见下图 See picture below
	027 (28.2)						
	031 (34.5)						
	043 (46.5)						
	055 (58.8)						
	067 (71.1)						
M4D	075 (80.1)	2-平键轴 Straight key shaft	A: 顺时针 A: Clockwise	见下图 See picture below	A	5-氟橡胶 (Viton) Fluororubber	见下图 See picture below
	062 (65.1)						
	074 (76.8)						
	088 (91.1)						
	102 (105.5)						
	113 (116.7)						
M4E	128 (132.4)	3-花键轴 Spline shaft	B: 逆时针 B: counter-clockwise	见下图 See picture below	A	5-氟橡胶 (Viton) Fluororubber	见下图 See picture below
	138 (144.4)						
	153 (158.6)						
	185 (191.6)						
	214 (222.0)						

技术参数/Technical Data

型号 Model	规格 Specification	排量 Displacement	比扭矩 Torque	100rpm 时的效率 Efficiency	最高压力 Max.pressure Mpa	最高转速/Max.speed r/min			
						额定压力/Rated pressure		低压 Minimum pressure	
						连续/Continuous	间歇/Temporarily		
		ml/rev	Nm/bar	kW/bar	bar	rpm	rpm	rpm	
M4C	024	24.4	0.390	0.0040	230	2500	3600	4000 (80bar)	
	027	28.2	0.450	0.0047					
	031	34.5	0.550	0.0058					
	043	46.5	0.740	0.0078					
	055	58.8	0.930	0.0098	210				
	067	71.1	1.130	0.0120					
	075	80.1	1.270	0.0130					175
M4D	062	65.1	1.040	0.0110	230	2500	3000	4000 (80bar)	
	074	76.8	1.220	0.0130					
	088	91.1	1.450	0.0150					
	102	105.5	1.680	0.0180	210				
	113	116.7	1.860	0.0200					
	128	132.4	2.110	0.0220					190
	138	144.4	2.300	0.0240					175
M4E	153	158.5	2.520	0.0260	190	2500	3000	4000 (80bar)	
	185	191.6	3.050	0.0320	180				
	214	222.0	3.530	0.0370	175				

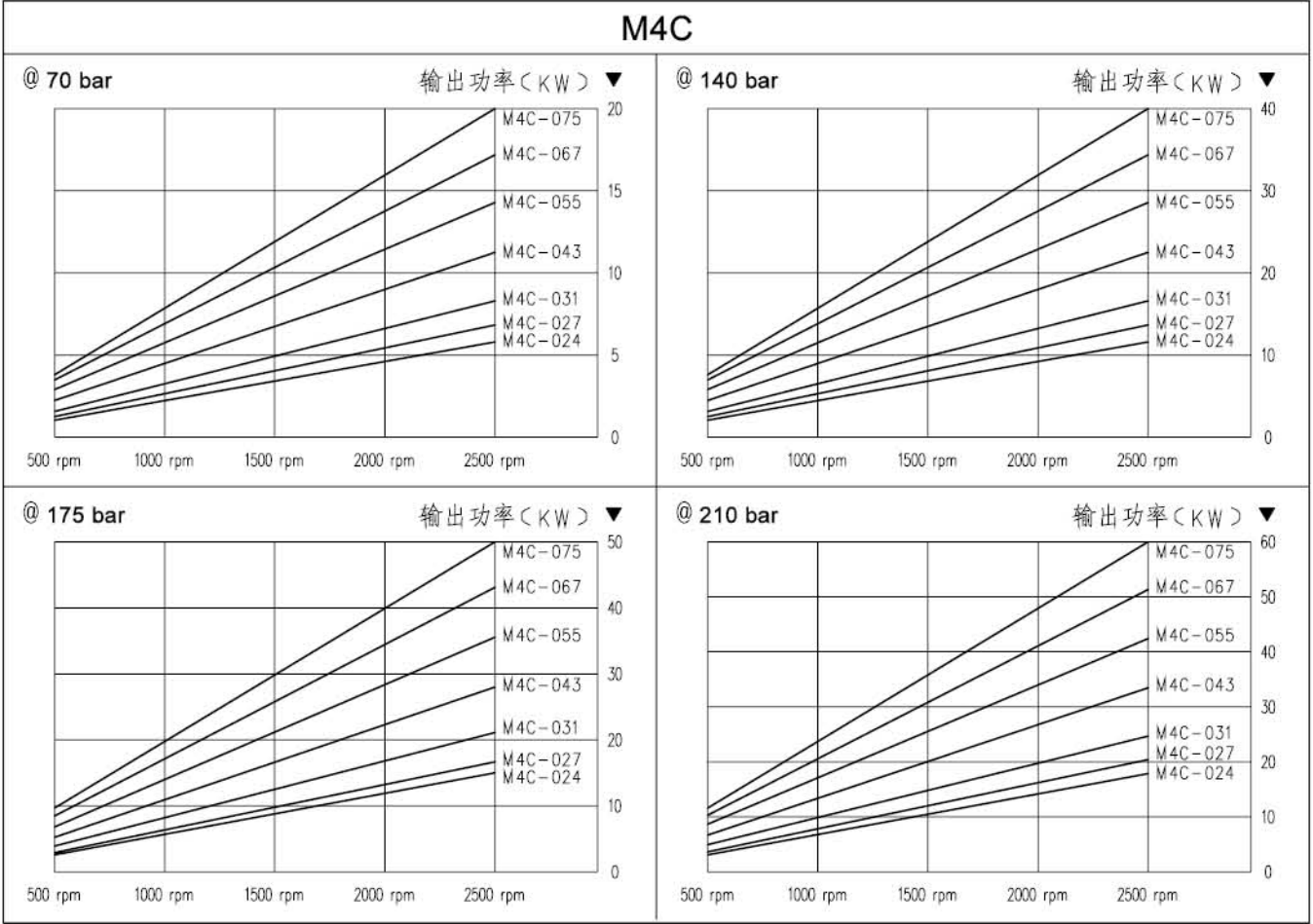
油口/Oil port

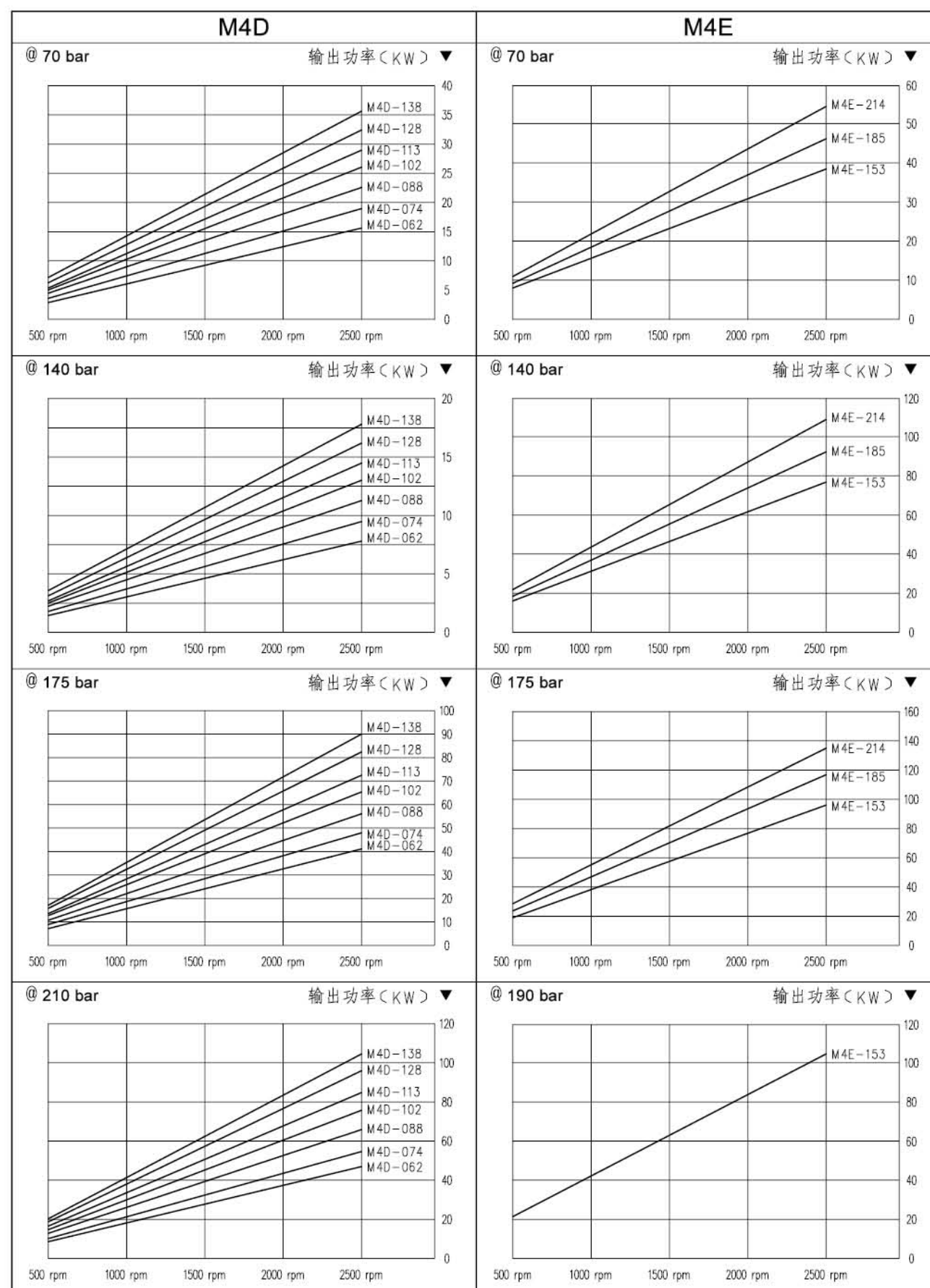
	SAE螺纹油口 Threaded port	SAE 4螺栓(Bolt)	
		UNC	公制螺纹 (Metric thread)
SAE泄油口(Drain)	01	02	-
BSPP泄油口(Drain)	-	04	M4
M4C	●	●	●
M4D	●	●	●
M4E	●	●	-

油口位置说明/Port location Description

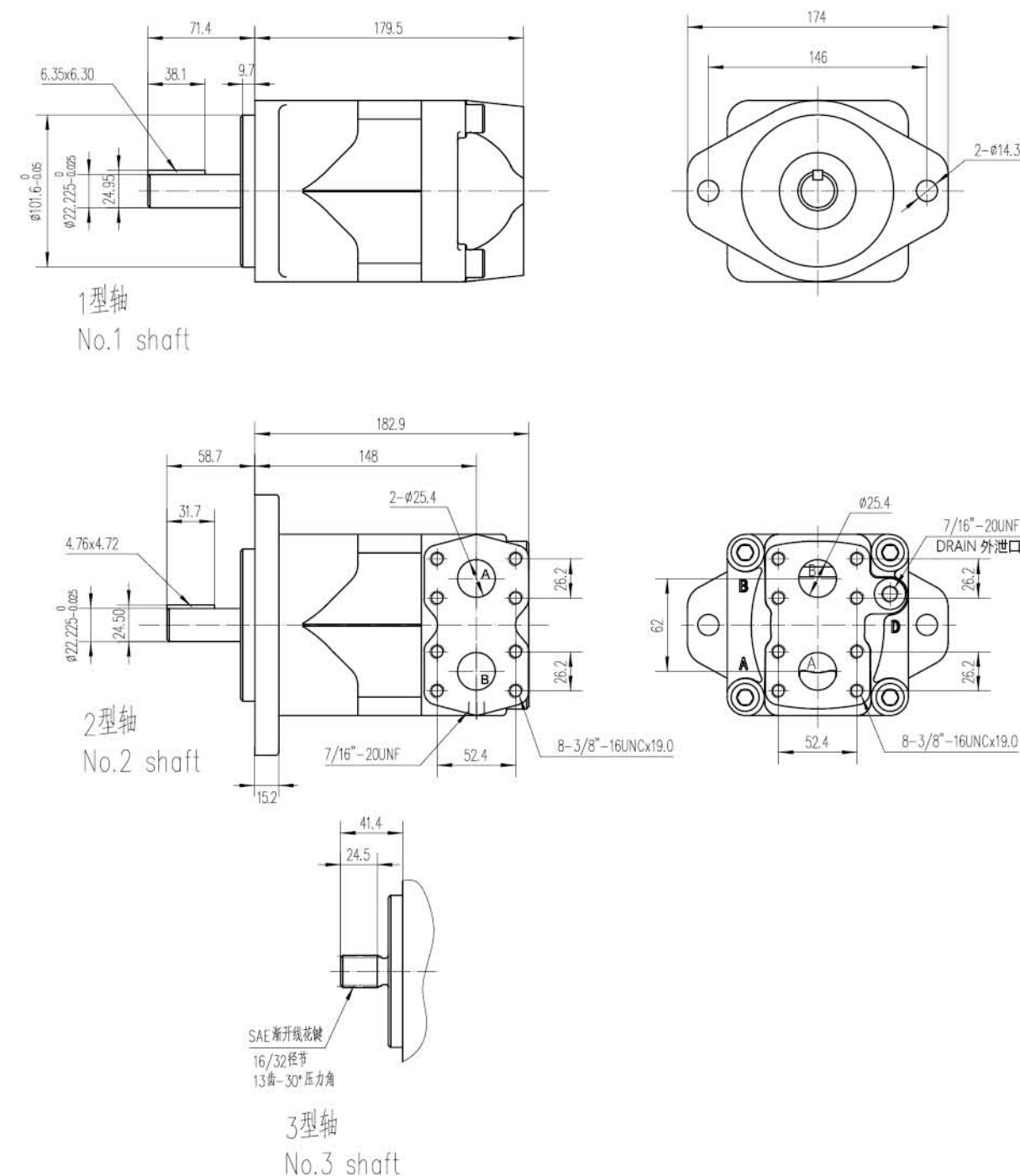
系列号 Series	尾部 (Tail)	侧面 (Side)			
	00	01	02	03	04
M4C	●	●	●	●	●
M4D	●				
M4E	●				

性特曲线/Characteristic curve (Oil viscosity 24 cSt)

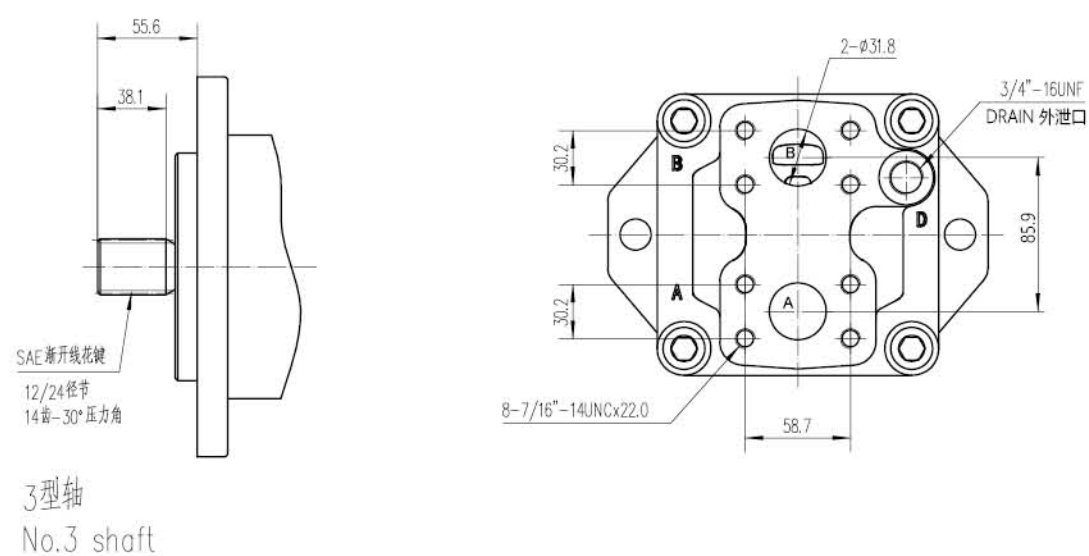
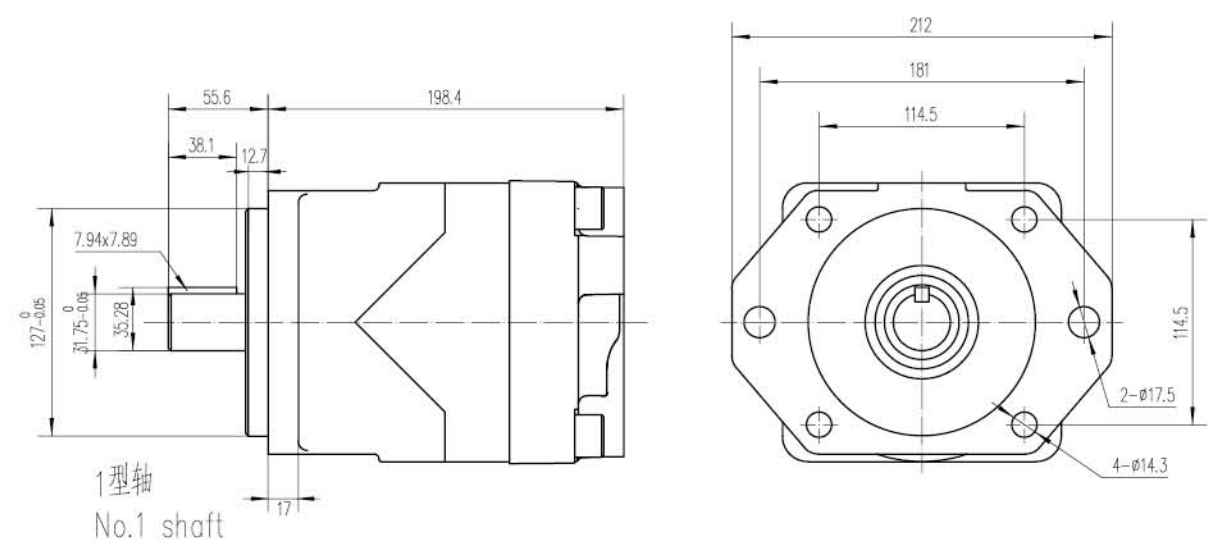




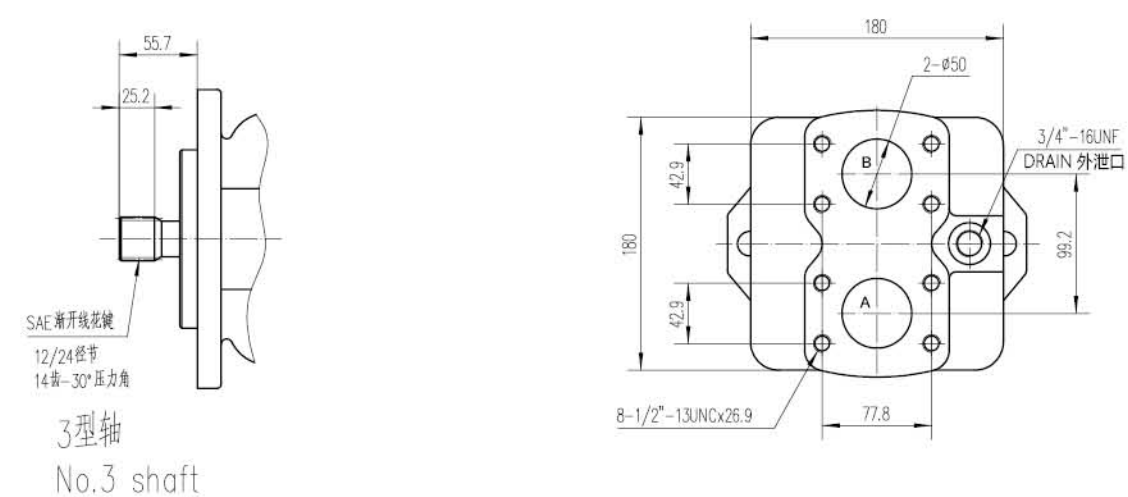
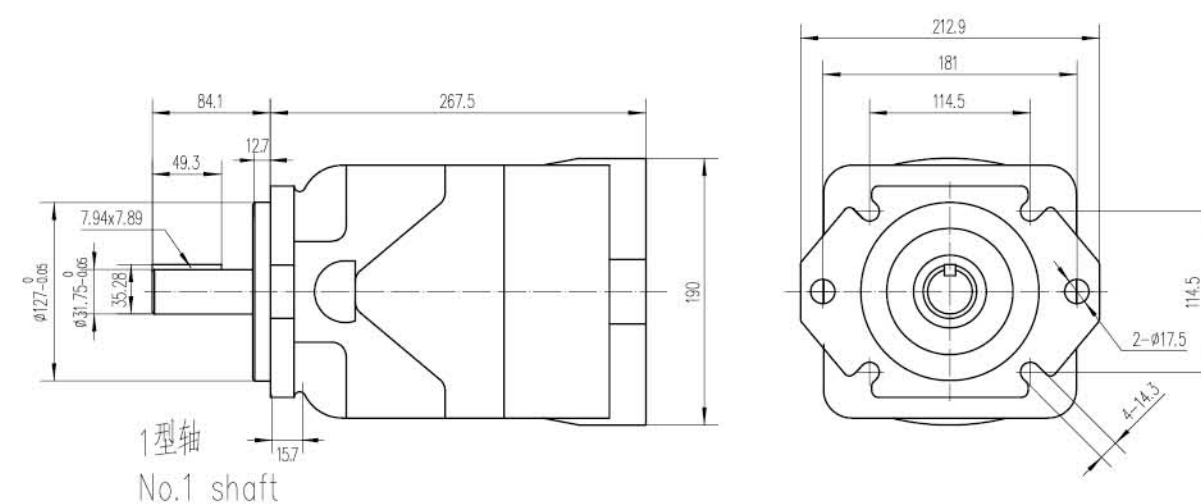
M4C安装连接尺寸/Installation Dimensions



M4D安装连接尺寸/Installation Dimensions



M4E安装连接尺寸/Installation Dimensions



安装、使用与维护

1、工作介质

- 为提高油泵性能，延长使用寿命，推荐使用抗磨液压油。粘度范围10-860cst，推荐粘度46cst。
- 液压油的污染会引起叶片泵的故障和降低其寿命，应对液压油液进行有效的控制，系统过滤精度不低于25µm。为防止吸入污物和杂质，应在吸油口处安装过滤精度70-150µm的滤油器，其额定流量不低于泵流量的两倍。
- 油泵工作油温范围：0℃-70℃，为保证长期的可靠寿命，最佳油温10℃-60℃

2、泵的安装

- 油泵支架座结构要牢固，刚性好，并能充分吸收振动。
- 油泵可卧式或立式安装（最好卧式）。泵和电机轴必须对正，同轴度应控制在Ø0.1mm以内，尽量采用柔性联轴器，以避免因弯曲或侧向力引起的任何应力。
- 尽量避免进出油管采用钢管硬连接，建议使用橡胶软管，以避免出现额外的负载导致额外的噪声。
- 吸入阻力不应太高，以防产生空蚀现象。油泵允许吸入真空度为110mm水银柱。安装应尽量接近油箱，吸入高度不得大于500mm。
- 注意进油口处连接法兰、接头以及整个吸油管道必须严格密封，防止漏气，否则将会引起噪声、系统振动，并使油箱内产生大量泡沫，降低泵的寿命。
- 油泵的吸油管道通径不小于泵入口通径。
- 油箱应设有隔板，用来分隔回油带来的气泡与脏物。回油管应伸到油面以下（不得直接和泵的入口连接），防止回油飞溅引起气泡。

3、启动

- 油泵启动前，应检查进、出油口，切勿搞错方向，泵旋转方向应与标牌指示方向一致（订货时未注明旋向者，一律按顺时针旋向供货）。初次启动应向泵里注满油，并用手转动联轴器，旋转力量应均匀、灵活。
- 启动时，应尽量在无负荷工况下经点动运转正常后再正式启动。
- 由于泵装配后或长时间停运运转再启动，会产生吸空现象，故应在排油口安装放气阀，或松动出口法兰、接头，以便放出空气。

4、维护

- 用户购回油泵后，如不及时使用，必须将内部注入防锈油，并将外露加工表面涂防锈油脂，然后盖好防尘盖，妥善保存。
- 要定期检查油液性能，达不到规定要求时要及时予以更换，并清洗油箱。
- 滤油器应经常清洗，以保证油液吸入通畅。
- 保持油箱正常油面高度。配管和油缸的容量很大时，尽管最初已加入足够数量的油，在启动之后，油进入管道和油缸，也会发生油面下降使滤油器露出油面，因此必须再一次补油。在使用过程中，还会发生泄漏，应该在油箱中设置油面计，以便经常观察和补油。
- 油泵工作一段时间后，（由于振动）安装螺钉或进出油口法兰螺钉有可能松动，要注意检查，并拧紧防松。
- 由于ABT伺服泵内腔采用插装式结构，因此正常维修时只需要更换泵芯，更换时应检查密封圈是否完整，防止切边，拧紧壳体连接螺钉时，应按对角线方向逐渐拧紧，用力均匀。

Installation, Application and Maintenance

1、Operating oil

- Anti-wear hydraulic oil is recommended for better performance and longer life. Viscosity range: 10-860cst,Recommended viscosity 46cst.
- Proper fluid condition is essential for long and satisfactory life of hydraulic components and systems. The filtration rating should not be lower than 25µm.Filter of 70-150µm on the inlet port is recommended and its rated flow should not be lower than 200% of pump's.
- Oil temperature range of pump working: 0℃-70℃.The best oil temperature is 10℃-60℃ for ensuring long-term and reliable life.

2、Installation

- Foot and frame for pump must be reliable, solid and good in vibration absorbent.
- Horizontal mounting is recommended to maintain necessary case fluid level. Concentricity of shafts between pump and motor is important to pump life and should be within Ø0.1mm.It is better to use flexible coupling to avoid harmful effects.
- Try to avoid using the steel pipe connection for tubing, the rubber hose is recommended for avoiding additional load causes the extra noise.
- The oil pump allows the inhalation vacuum as 110 mm column of mercury. Installation should near fuel tank, inhaling the height can not be big in 500 mm.
- Please notice the seal of flange at port connections, ports and absorb pipeline has to be sealed strictly, to prevent air leakage. If not it will cause the noise and vibration of system ,also will make foam, to low the life of pump.
- The diameter of absorb pipeline should not smaller than that of inlet.
- There should be a plank in the tank to separate bubble and dirty thing from used oil. Return pipeline under oil is recommended(not connect with inlet) for avoid bubble.

3、Start

- Before starting pump, please check up if the inlet and outlet have been correctly connected and the rotation of the pump is inline with the nameplate.(CW without notice).
- After confirming it is able to work well without burthen, please restart.
- When initially starting the pump after long-time unused, removing all trapped air from the system can be accomplished by loosening flange or connections.

4、Maintenance

- Please inject defend-rust oil in the pump, plaint the surface with defend –rust grease and then cover ports, if you do not want to use it right now.
- Please check up oil periodically, while if the oil can not reach the demand, replace it and clean up tank.
- Purging of filter regular is recommended.
- Keep the normal level of oil in the tank. When capability of tubing and tank are large, even if injected enough oil. Because when starting, the level of oil would fall, then please add some oil. Please observe the level of oil and add some oil when needed.
- After a period of working, it is likely that the install bolt and flange of inlet and outlet would loose because of vibrating. please tight them.
- The cartridge design of ABT series servo pumps offers fast and effient field service ability, when replacing the catridge, seals inside the pump should be cheched to avoid them crimping, when tightening the fastening screws, they should be treated with even force in diagonal direction.

常见故障及排除方法一览表

Common trouble and solving

现象 Trouble	产生原因 Cause of trouble	排除方法 Remedy method
油泵吸不上油或 无压力 Pump starveling Or no pressure	1.原动机与油泵旋向不一致 Not the same of rotation direction of primer as that of pump	纠正原动机旋向 Correct rotation direction of primer
	2.油泵传动键脱落 Key of pump shaft falls off	重新安装传动键 Re-assembly the key
	3.进油口接反 Wrong connecting of inlet and outlet	按说明书选用正确接法 According to operating manual,re-connect them
	4.油箱内油面过低，吸入管口露出液面 Oil level in tank too low,suction pipe exposed above the oil level	补充油液至最低油标线以上 Fill oil to the position above the lowest oil level in tank
	5.转速太低吸力不足 Rotation speed too low,suction not enough	提高转速达到油泵最低转速以上 Increase speed of pump above the lowest one
	6.油粘度过高，使叶片运动不灵活 Oil viscosity too high	选用推荐粘度的工作油 Use recommended operating oil
	7.油温过低，使油粘度过高 Oil viscosity too high due to lower ambient temperature	加温至推荐正常工作油温 Heat oil to normal oprating temperature range
	8.系统油液过滤精度低导致叶片在槽内卡住 Vane is clipped due to lower filtration of system oil	拆洗.修磨油泵内脏件，仔细重装，并更换油液 Disassembly,mend pump cartridge parts;after finishing the above, carefully reassemble them and change the oil
	9.吸入管道或过滤装置堵塞造成吸油不畅 Pipe line or filter blocked,oil in suction line can't flow freely	清洗管道或过滤装置，除去堵塞物，更换或过滤油箱内油液 Clean pipe line and filter,remove foreign material, change or filter oil in the tank
	10.吸入口过滤器过滤精度过高造成吸油不畅 Filtration rating of the suction filter too high	按说明书正确选用过滤器 Select correct filter according to oprating manual
	11.吸入管道漏气 Air leak in suction line	检查管道各连接处，并予以密封.紧固 Check every connection and re-tighten them
	12.小排量油泵吸力不足 Small delivery pump poor suction	向泵内注满油 Full fill the pump with oil
流量不足达 不到额定值 Flow not enough, lo-wer than rated one	1.转速未达到额定转速 Speed of pump lower than rated value	按说明书指定额定转速选用电机转速 According to rated speed in oprating manual, select correct model of electric motor
	2.系统中有泄漏 There is leakage in system	检查系统，修补泄漏点 Check system,repair leakage point
	3.由于油泵长时间工作.振动使泵盖螺钉松动 Locking screws for pump cover loosen due to longer time vibration	适当拧紧螺钉 Properly tighten the screws
	4.吸入管道漏气 There is leakage in suction line	检查各连接处，并予以密封.紧固 Check all connection and re-seal or lock them
	5.吸油不充分 Suction oil not enough	
	①油箱内油面过低 Oil level in tank too low	补充油液至最低油标线以上 Fill oil to and above the lowest level
	②入口滤油器堵塞或通流量过小 Inlet Filter blocked or its size too small	清洗过滤器或选用通流量为油泵流量2倍以上的滤油器 Clean filter or select bigger size filter(with double flow of that of pump)
压力升 不上去 Pressure lower	③吸入管道堵塞或通径小 Suction line blocked or too small in size	清洗管道，选用不小于油泵入口通径的吸入管 Clean pipe line,select bigger size pipe
	④油粘度过高或过低 Oil viscosity too high or too low	选用推荐粘度工作油 Use recommended operating oil
	1.油泵不上油或流量不足 Pump starveling or flow not enough	同前述排除方法 Same as the above
	2.溢流阀调整压力太低或出现故障 Adjusting pressure of relief valve too low or trouble in it	重新调试溢流阀压力或修复溢流阀 Re-adjust relief valve or repair it
	3.系统中有泄漏 There is leakage in system	检查系统.修补泄漏点 Check system and repair leakage point
	4.由于油泵长时间工作振动，使泵盖螺钉松动 Locking screws for pump cover loosen due to longer time vibration	适当拧紧螺钉 Properly tighten screws

现象 Trouble	产生原因 Cause of trouble	排除方法 Remedy method
压力升不上去 Pressure lower	5.吸入管道漏气 Leakage in suction line	检查各连接处，并予以密封.紧固 Check all connections and seal or tighten them
	6.吸油不充分 Suction not enough	同前述排除方法 Same as the above
噪声过大 Noise too high	1.吸入管道漏气 Leak in suction line	检查管道各连接处，并予以密封.紧固 Check all connections in pipe line and reseal or tighten them
	2.吸油不充分 Suction not enough	同前述排除方法 Same as the above
	3.泵轴和原动机轴不同心 Poor concentricity between shaft of pump and that of electric motor	重新安装达到说明书要求精度 Re-assemble until attain the precision specified
	4.油中有气泡 There are bubbles in oil	补充油液或采取结构措施把回油口浸入油面以下 Fill more oil or put return port under oil level in tank
	5.泵转速过高 Pump speed too high	选用推荐转速范围 Select recommended speed range
	6.泵压力过高 Pump pressure too high	降压至额定压力以下 Decrease pressure below rated value
	7.轴密封处漏气 Air leak in shaft seal	更换油封 Change the seal
过度发热 Too much heat	1.油温过高 Oil temperature too high	改善油箱散热条件或增设冷却器使油温控制在推荐正常油温范围内 Improve heat radiation or install a cooler to control oil temperature within normal range
	2.油粘度太低，内泄过大 Oil viscosity too low and internal leakage too much	选用推荐粘度工作油 Select oprating oil with recommended viscosity
	3.工作压力过高 Operating pressure too high	降压至额定压力以下 Decrease it below rated value
	4.回油口直接接到油泵入口 Return pipe directly connected to pump inlet	回油口接至油箱液面以下 Connecting return pipe under oil level in tank
振动过大 Vibration too big	1.泵轴与电机轴不同心 Poor concentricity between shafts of pump and motor	重新安装达到说明书要求精度 Re-assemble until attain the precision specified
	2.安装螺钉松动 Mounting screw loosen	拧紧螺钉 Tighten screws
	3.转速或压力过高 Speed or pressure too high	调整至许用范围以内 Decrease them below rated value
	4.油液过滤精度过低，导致叶片在槽中卡住 Vane is clipped due to lower filtration of system oil	拆洗修磨内脏件，并仔细重新组装，并更换油液或重新过滤油箱内油液 Disassemble,mend and clean cartridge parts;after finishing the above,carefully reassemble them and change the oil
	5.吸入管道漏气 Air leak in suction line	检查管道各连接处，并予以密封.紧固 Check all connections and reseal or tighten them
	6.吸油不充分 Suction area not enough	同前述排除方法 Same as the above
	7.油液中有气泡 There are bubbles in oil	补充油液或采取结构措施把回油口浸入油面以下 Fill more oil or put return port under oil level in tank
外渗漏 External leakage	1.密封老化或损伤 Seal aging or damaged	更换密封 Replace seals
	2.进出油口连接部位松动 Connection of inlet or outlet loosen	紧固螺钉或管接头 Tighten screws of fittings
	3.密封面磕碰 Sealing surface cracking	修磨密封面 Mend or grind the surface
	4.外壳体砂眼 Sand holes in housing	更换外壳体 Replace housing

订货须知: NOTE

1.订货时要考虑如下因素: Please notice the following factors when booking.
产品用途及使用环境压力(常用压力, 瞬时最高压力.及使用压力—时间曲线状况) ,
转速及转向.扭矩排量原动机种类.安装位置及方式, 使用油液的种类等。
The product use, using environmental pressure(usual pressure,moment highest pressure and cartridge performance)
speed and rotation, torque, flow, kinds of prime motive,install positions and ways, kinds of oil.
2.订货时必须详细写明型号规格Please note model and specification in detail when booking.
例如/eg: 25V19A-1A22R