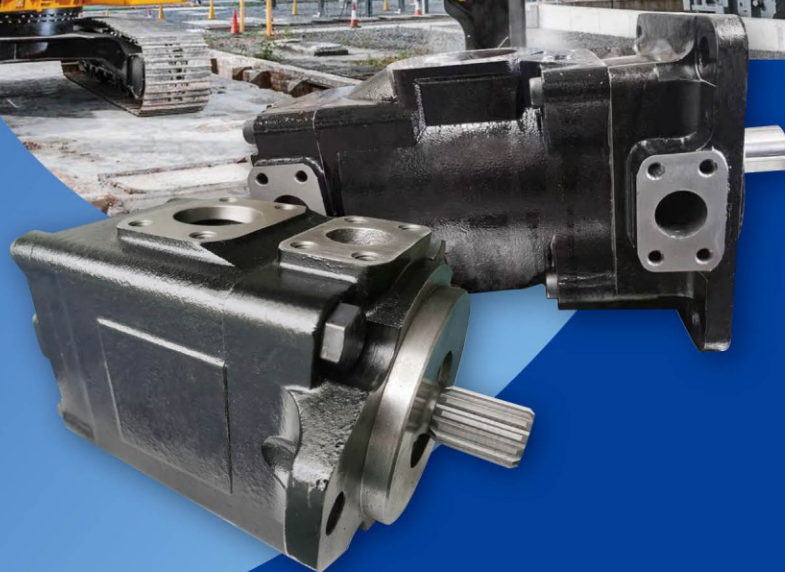




T6系列
尾驱动叶片泵
T6 Series Drive Train
Vane Pump



苏州铼洛威液压泵有限公司
SUZHOU RENOWELL HYDRAULIC PUMP CO.,LTD



公司简介 | COMPANY INFORMATION

苏州铼洛威液压泵有限公司，专业研发、生产、销售高端液压泵产品，公司位于历史悠久而美丽的现代化工业城市——苏州。距离上海浦东国际机场约2小时车程，距离无锡硕放机场45分钟车程，交通便利，地理位置优越。

公司主要产品：丹尼逊T6、T7系列叶片泵；威格士V、VQ系列，V10、V20系列叶片泵；东京计器SQP系列叶片泵；油研PV2R等系列液压叶片泵；PGH4、PGH5系列内啮合齿轮泵；高压柱塞泵及配件等。公司液压泵产品经国家权威部门检测，各项性能、技术指标均达到或优于国内外一流制造厂家的同类产品，可以互换、替代原装产品。噪音更低、容积效率更高、使用寿命更长及高性价比使我公司产品受到了国内外用户的一致好评，目前已销往五大洲三十多个国家和地区。

产品可广泛应用于工程机械、橡塑机械、农业机械、鞋革机械、压铸机械、冶金机械、矿山机械、金属切削机床、钣金设备、打包机械、船舶机械、港口机械、钻井设备以及其它各类液压系统。目前公司与国内知名企业中联重科，三一重工，徐工集团，海天塑机，沙钢集团皆有合作。

为进一步提高产品精度和性能，公司花巨资引进德国、美国、日本等先进加工设备和检测设备，目前拥有20余台全自动数控机床，专用数控磨床、数控双面研磨机、车床及全自动加工中心。公司聘请多名国内外液压界专家、教授为顾问，拥有独立技术研发中心。公司坚持技术创新，加大投资技术改造力度，不断增加产品品种及产品规格，增强产品的国际竞争力。目前公司有独立设计全方位测试间6间，公司产品出厂前进行全检并测试，合格后方可出厂，以保证产品质量和性能。

公司积极参加德国汉诺威工业博览会、德国慕尼黑工程机械展、美国流体动力传动展、日本空压国际展览会、法国国际工程机械展和意大利米兰国际流体动力传动展、法国国际工程机械展和意大利米兰国际流体动力传动展、PTC亚洲国际流体动力传动展，BAUMA德国，BAUMA中国工程机械展等各类专业国际展览会，不断加强同国外企业的技术交流与合作，进一步提高技术创新，推广铼洛威品牌，为铼洛威成为国际知名品牌而不懈努力！

企业经营理念：脚踏实地，稳步前进。

核心价值观：务实创新；合作共赢。

企业使命：专注于液压泵领域技术研发，产品创新和应用实践，为国内外客户提供一流的产品及一流的服务。

企业愿景：让铼洛威液压泵成为中国液压泵行业第一品牌，让铼洛威液压泵成为国际液压泵行业一流品牌。

期待与您的合作！



Suzhou Renowell Hydraulic Pump Co., Ltd. specialize in research and development, production and sales of high-end hydraulic pump products. Our company is located in a long history and beautiful modern industrial city—Suzhou. It is about 2 hours drive from Shanghai Pudong International Airport and 45 minutes from Wuxi Shuofang Airport. The transportation is very convenient and location is very superior.

The main products of our company are: Denison T6, T7 series vane pumps; Vickers V, VQ series, V10, V20 series vane pumps; Tokimec SQP series vane pumps; Yuken PV2R series hydraulic vane pumps; PGH4, PGH5 series gear pumps; high pressure piston pumps and parts. After detected by the authoritative state department, the performance, technical indicators of our products have reached or exceeded the similar products made by the domestic and foreign top manufacturers, and can be interchangeable, instead of imported original products. Lower noise, higher volume efficiency, longer life and reasonable price make our products have been praised by all of our domestic and overseas customers, now our products have been exported to five continents more than 30 countries and regions.

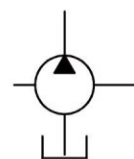
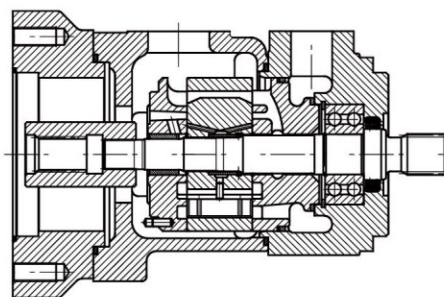
Our products can be widely used in engineering machinery, rubber and plastics machinery, agricultural machinery, shoes machinery, casting machinery, metallurgical machinery, mining machinery, metal cutting machine tools, sheet metal equipment, packaging machinery, ship machinery, port machinery, drilling equipment and other various types of hydraulic system. At present, Renowell have cooperated with the famous domestic companies Zoomlion, Sany Heavy Industry, Xugong Group, Haitian Plastics Machinery and Shagang Group.

In order to make further more improvement of our product accuracy and performance, Renowell spent huge fund to import the most advanced processing equipment and testing equipment from Germany, USA, and Japan, now we have more than 20 sets of automatic CNC machine tools, special CNC grinding machine, CNC double-sided grinding machine, lathe and automatic Machining Centers. Renowell have hired several hydraulic industry experts and professors from domestic and foreign as our consultants, we have established an independent technology research and development center. Renowell insist on technological innovation, intensify investment in technical innovation, increasing product range and specifications, enhance the international competitiveness of our products constantly. At present, Renowell have 6 independent design testing rooms, all of our products are full inspected and tested before delivery in order to make sure all of our products are with good quality and performance. After qualified, then can be shipped out.

Renowell actively participated in the exhibitions of the Germany Hannover Messe, German Construction Machinery Exhibition, US Las Vegas Fluid Power Transmission Exhibition, Japan International Fluid Power Exhibition, France International Engineering Machinery Exhibition and the Milan International Fluid Power Transmission Exhibition, PTC Asia International Fluid Power Transmission Exhibition, BAUMA Germany, BAUMA China Construction Machinery Exhibition and other professional international exhibitions etc, we constantly strengthen the technical communications and cooperation with foreign and domestic enterprises, to make further more improvement at technological innovation and promote Renowell brand. Working hard continuously to let renowell become an international famous brand.

T6CR系列尾驱动叶片泵

T6CR Series Drive Train Vane Pump



型号说明 Model Designation

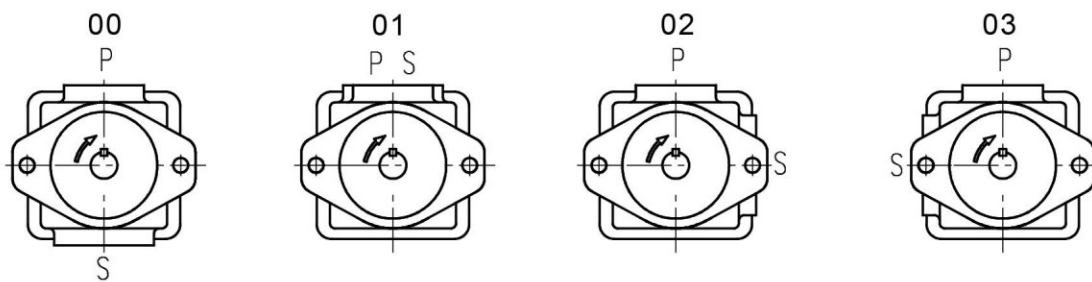
T6CR	-025	-4	R	00	-A	1	0	-A	1
系列号 Series	排量代号 Flow code	轴伸形式 Shaft type	旋转方向 Rotation	出油口位置 Outlet positions	尾驱动 转接板 Adaptor	尾驱动 联轴器 Coupling	转接板位置 Adaptor Positions	设计号 Design letter	密封等级 Seal class
T6CR	003/B03、 005/B05、 006/B06、 008/B08、 010/B10、 012/B12、 014/B14、 017/B17、 020/B20、 022/B22、 025/B25、 028/B28、 031/B31	1-SAE BB 平键轴 Keyed 2-非SAE 平键轴 Non SAE Keyed 3-SAE B 花键轴 Splined 4-SAE BB 花键轴 Splined 5-非SAE 平键轴 Non SAE Keyed	从泵的轴端看 View form shaft end R- CW 顺时针旋转 rotation L- CCW 逆时针旋转 rotation	00-标准 详见下图 00-standard See picture below	A-SAE-A 转接板 B-SAE-B 转接板 C-SAE-C 转接板	1-SAE-A 联轴器 2-SAE-B 联轴器 3-SAE-BB 联轴器 4-SAE-C 联轴器 5-DP16/32 -11牙 teeth 联轴器	见下图 See picture below	A	1- S1 丁腈橡胶 NBR Nitrile rubber 5- S5 氟橡胶 FKM Fluoro rubber

与相应规格的T6C系列单泵性能参数一致，详见T6C系列单泵的性能参数表

The date of relevant series,model are unanimous.Please see T6C series-single pumps date

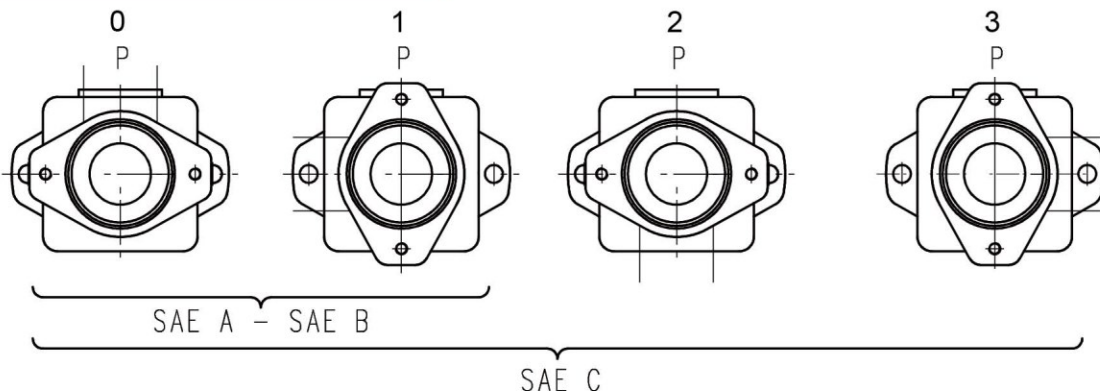
出油口位置(从泵的轴端看)

Outlet Positions (View form shaft end)



转接板位置(从泵的转接板端看)

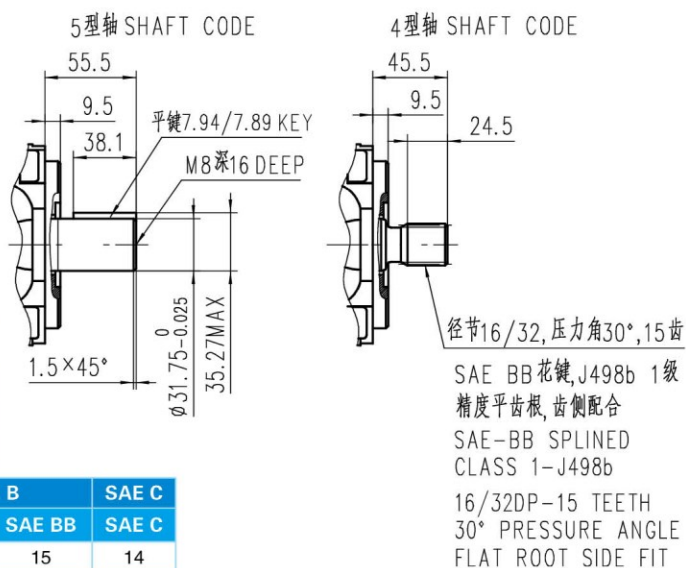
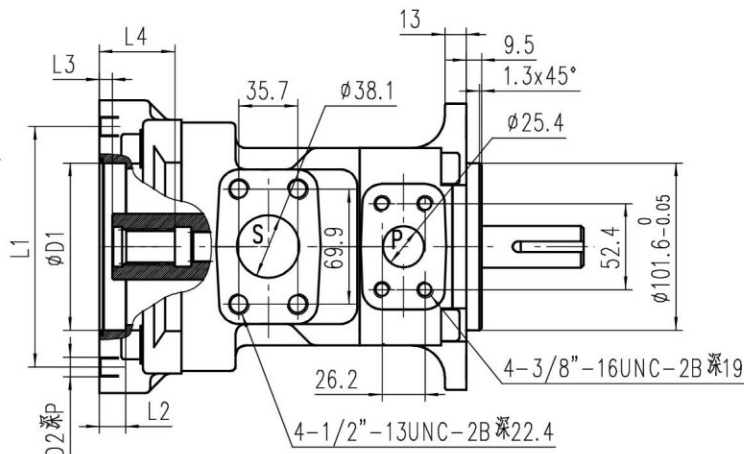
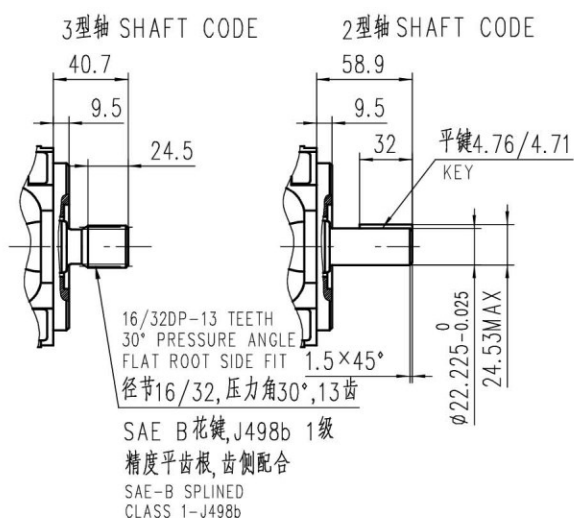
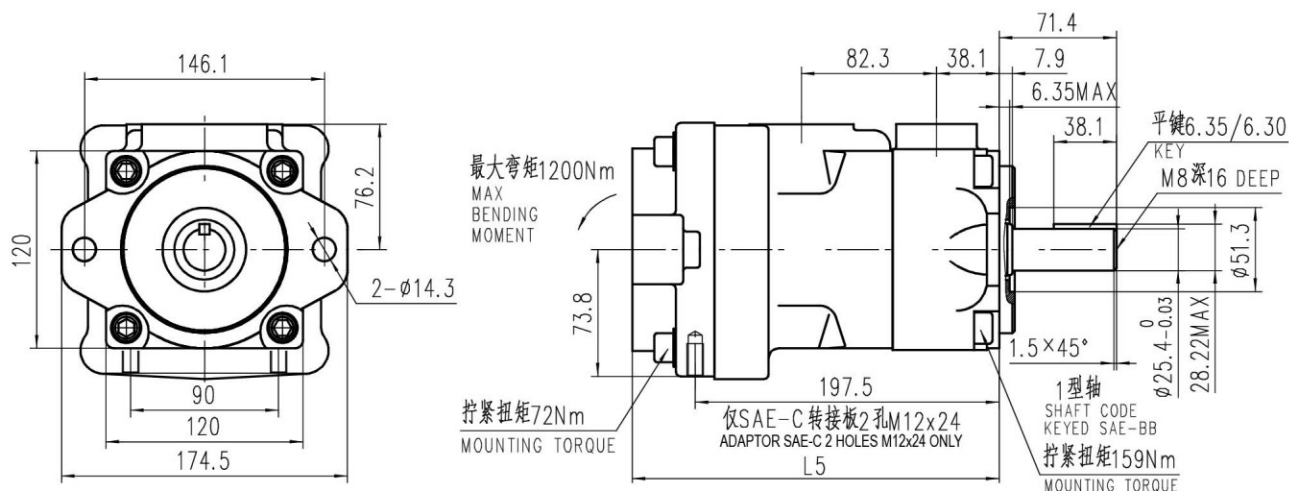
Adaptor Positions (View form adaptor end)



T6CR系列尾驱动叶片泵

安装连接尺寸 Installation Dimensions

重量/Weight: 20.4KG



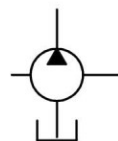
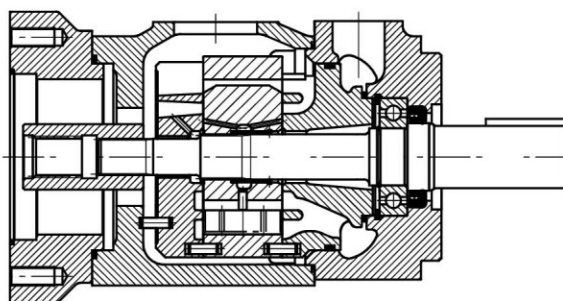
传动轴扭矩限制 Shaft torque limits (mL/rev x bar)			
轴型号 Shaft	Vi x p max.	联轴器驱动 Coupling drive	Vi x p max.
1	21420	SAE A	11000
2	14300	SAE B	20600
3	20600	SAE BB	22050
4	32670	SAE C	22050
5	34180	SAE-11齿 teeth	15850

转接板 Adaptor	ΦD1	D2	P	L1	L2	L3	L4	L5
SAE A	82.65/82.60	M10	24	106.4	11.0	8.0	32.0	209.0
SAE B	101.70/101.65	M12	28	146.1	16.0	8.0	46.0	223.0
SAE C	127.10/127.05	M16	—	181.0	16.0	8.0	56.0	233.0

转接板 Adaptor	SAE A			SAE B		SAE C
联轴器 Coupling drive	SAE A	SAE 11齿	SAE B	SAE B	SAE BB	SAE C
齿数 Nuber of teeth	9	11	13	13	15	14
径节 Pitch	16/32	16/32	16/32	16/32	16/32	12/24
压力角 Pressure angle	30°	30°	30°	30°	30°	30°
大径Major dia.(min)	15.875	19.05	22.225	22.225	25.400	31.750
小径 Minor dia.(min)	12.700	16.017	19.134	19.134	22.268	27.589

T6DR系列尾驱动叶片泵

T6DR Series Drive Train Vane Pump



型号说明 Model Designation

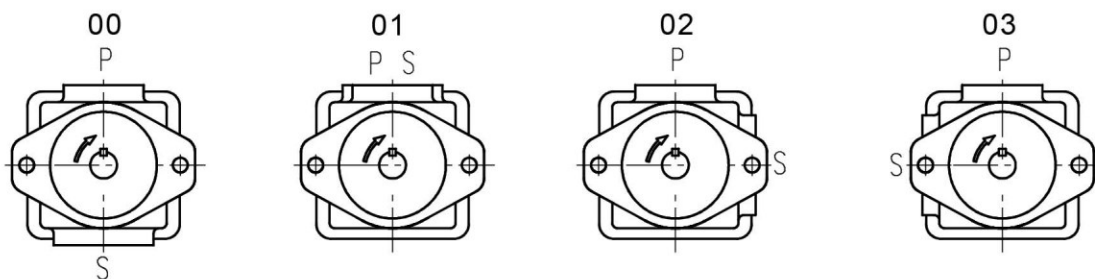
T6DR	-045	-2	R	00	-B	2	0	-A	1
系列号 Series	排量代号 Flow code	轴伸形式 Shaft type	旋转方向 Rotation	出油口位置 Outlet positions	尾驱动 转接板 Adaptor	尾驱动 联轴器 Coupling	转接板位置 Adaptor Positions	设计号 Design letter	密封等级 Seal class
T6DR	014/B14、 017/B17、 020/B20、 024/B24、 028/B28、 031/B31、 035/B35、 038/B38、 042/B42、 045/B45、 050/B50、 061/B61	1-SAE BB 平键轴 Keyed 2-SAE CC 平键轴 Keyed 3-SAE C 花键轴 Splined 5-非SAE 平键轴 Non SAE Keyed	从泵的轴端看 View from shaft end R- CW 顺时针旋转 rotation L- CCW 逆时针旋转 rotation	00-标准 详见下图 00-standard See picture below	A-SAE-A 转接板 B-SAE-B 转接板 C-SAE-C 转接板	1-SAE-A 联轴器 2-SAE-B 联轴器 3-SAE-BB 联轴器 4-SAE-C 联轴器 5-DP16/32 -11牙 teeth 联轴器	见下图 See picture below	A	1- S1 丁腈橡胶 NBR Nitrile rubber 5- S5 氟橡胶 FKM Fluoro rubber

与相应规格的T6D系列单泵性能参数一致，详见T6D系列单泵的性能参数表

The date of relevant series,model are unanimous. Please see T6D series-single pumps date

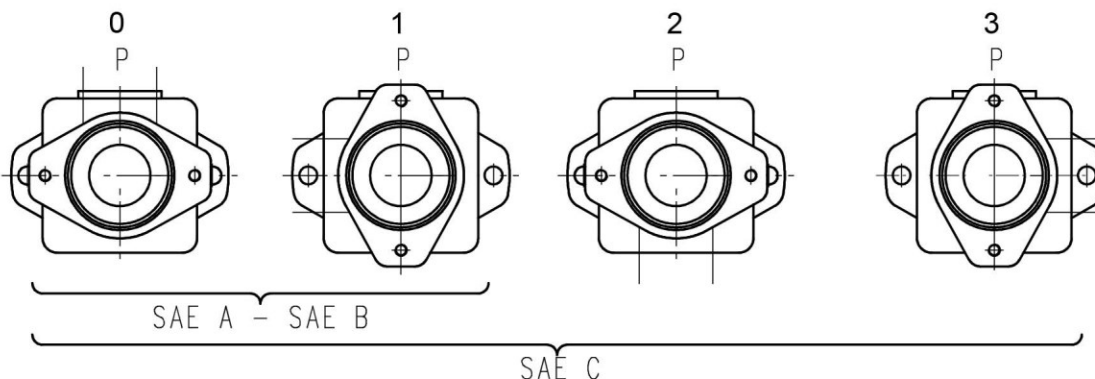
出油口位置(从泵的轴端看)

Outlet Positions (View from shaft end)



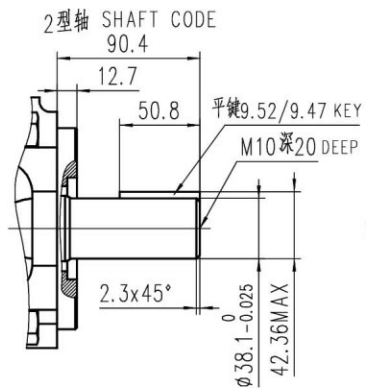
转接板位置(从泵的转接板端看)

Adaptor Positions (View from adaptor end)

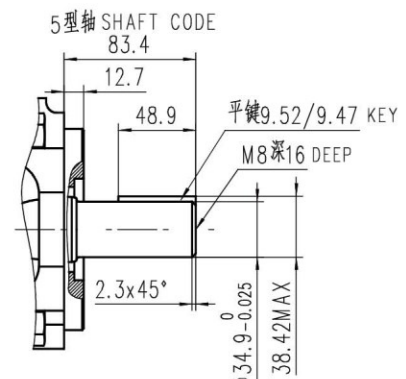


T6DR Series Drive Train Vane Pump

重量/Weight: 32.3KG

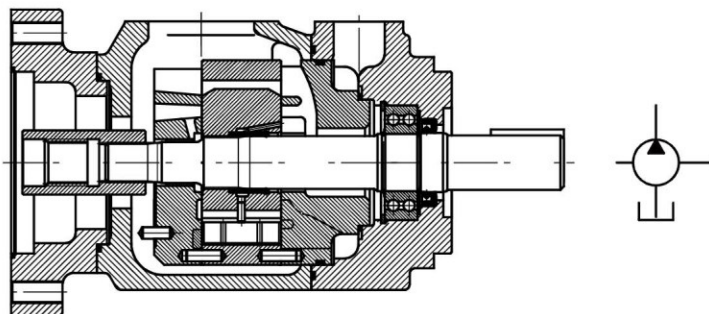


转接板 Adaptor	SAE A			SAE B		SAE C
联轴器 Coupling drive	SAE A	SAE 11齿	SAE B	SAE B	SAE BB	SAE C
齿数 Nuber of teeth	9	11	13	13	15	14
径节 Pitch	16/32	16/32	16/32	16/32	16/32	12/24
压力角 Pressure angle	30°	30°	30°	30°	30°	30°
大径 Major dia.(min)	15.875	19.05	22.225	22.225	25.400	31.750
小径 Minor dia.(min)	12.700	16.017	19.134	19.134	22.268	27.589



T6ER系列尾驱动叶片泵

T6ER Series Drive Train Vane Pump



型号说明 Model Designation

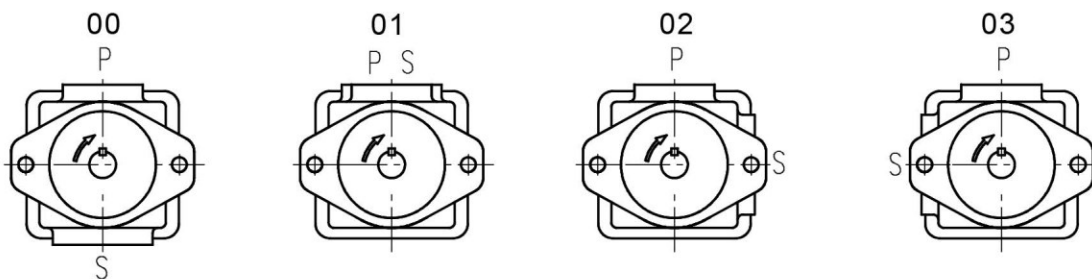
T6ER	-072	-1	R	00	-C	4	0	-A	1
系列号 Series	排量代号 Flow code	轴伸形式 Shaft type	旋转方向 Rotation	出油口位置 Outlet positions	尾驱动 转接板 Adaptor	尾驱动 联轴器 Coupling	转接板位置 Adaptor Positions	设计号 Design letter	密封等级 Seal class
T6ER	042/B42、 045/B45、 050/B50、 052/B52、 057/B57、 062/B62、 066/B66、 072/B72、 085/B85	1-SAE CC 平键轴 Keyed 3-SAE C 花键轴 Splined 4-SAE CC 花键轴 Splined X-ISO 平键轴 Keyed	从泵的轴端看 View form shaft end R- CW 顺时针旋转 L- CCW 逆时针旋转	00-标准 详见下图 00-standard See picture below	A-SAE-A 转接板 B-SAE-B 转接板 C-SAE-C 转接板	1-SAE-A 联轴器 2-SAE-B 联轴器 3-SAE-BB 联轴器 4-SAE-C 联轴器 5-DP16/32 -11牙 teeth 联轴器	见下图 See picture below	A	1- S1 丁腈橡胶 NBR Nitrile rubber 5- S5 氟橡胶 FKM Fluoro rubber

与相应规格的T6E系列单泵性能参数一致，详见T6E系列单泵的性能参数表

The date of relevant series,model are unanimous. Please see T6E series-single pumps date

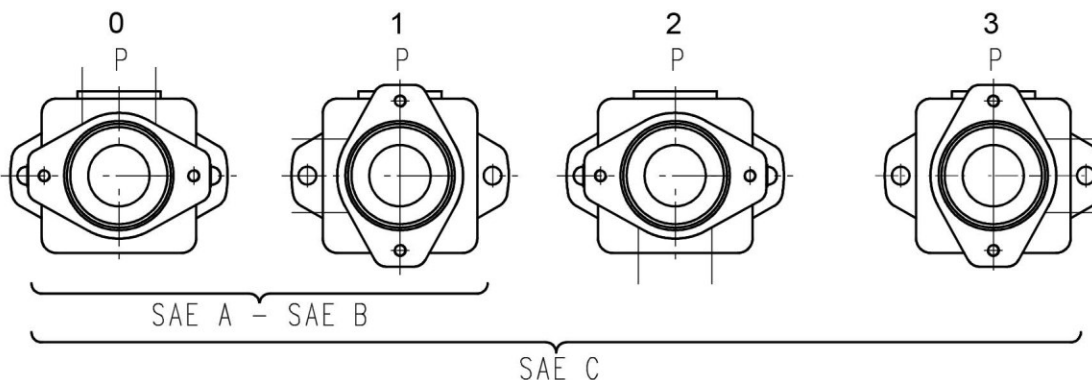
出油口位置(从泵的轴端看)

Outlet Positions (View form shaft end)



转接板位置(从泵的转接板端看)

Adaptor Positions (View form adaptor end)

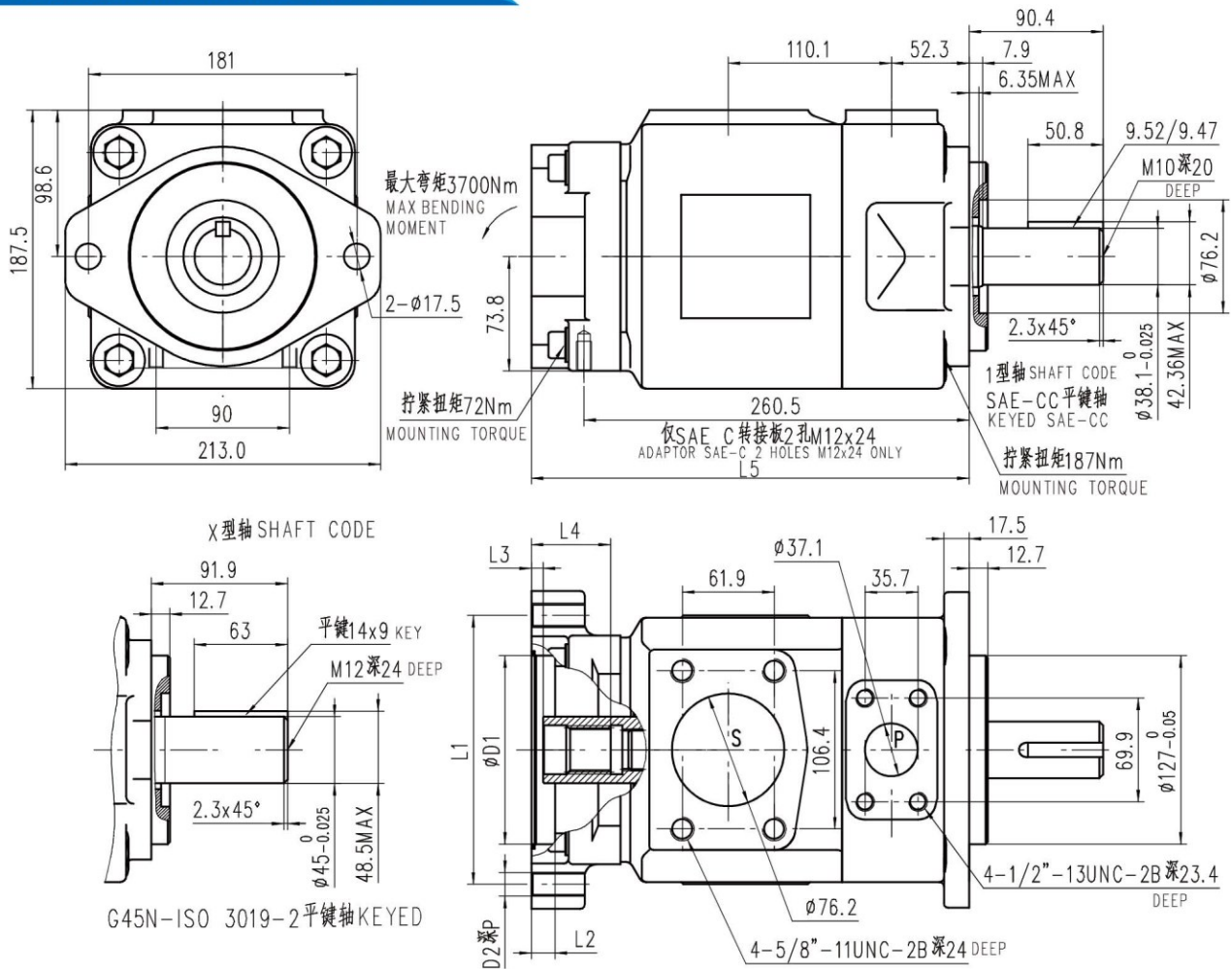


T6ER系列尾驱动叶片泵

T6ER Series Drive Train Vane Pump

安装连接尺寸 Installation Dimensions

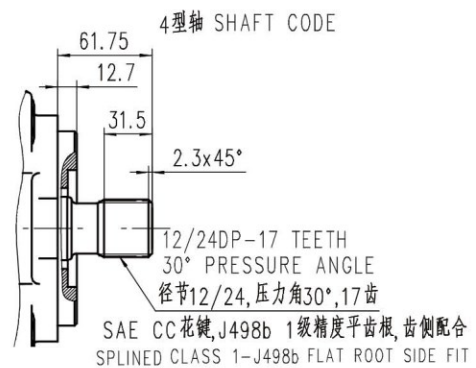
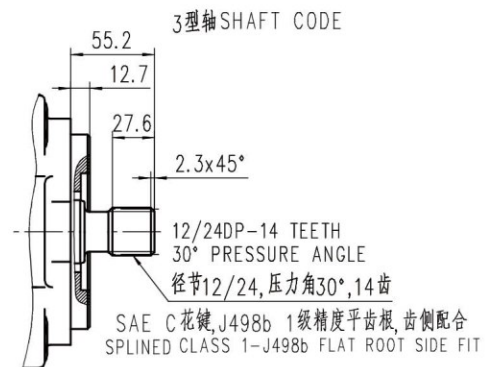
重量/Weight: 42.5KG



传动轴扭矩限制 Shaft torque limits (mL/rev x bar)			
轴型号 Shaft	$V_i \times p$ max.	联轴器驱动 Coupling drive	$V_i \times p$ max.
1	80560	SAE A	11000
3	61200	SAE B	20600
4	120210	SAE BB	32670
X	114600	SAE C	66480
		SAE-11齿 teeth	15850

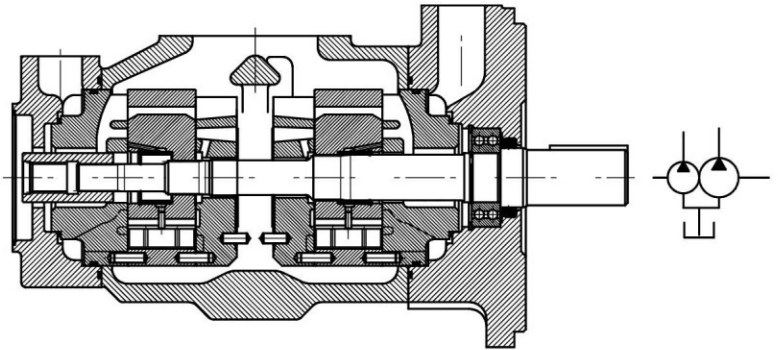
转接板 Adaptor	$\phi D1$	D2	P	L1	L2	L3	L4	L5
SAE A	82.65/82.60	M10	24	106.4	11.0	8.0	32.0	272.0
SAE B	101.70/101.65	M12	28	146.1	16.0	8.0	46.0	286.0
SAE C	127.10/127.05	M16	-	181.0	16.0	8.0	56.0	296.0

转接板 Adaptor	SAE A			SAE B		SAE C
联轴器 Coupling drive	SAE A	SAE 11齿	SAE B	SAE B	SAE BB	SAE C
齿数 Number of teeth	9	11	13	13	15	14
径节 Pitch	16/32	16/32	16/32	16/32	16/32	12/24
压力角 Pressure angle	30°	30°	30°	30°	30°	30°
大径 Major dia.(min)	15.875	19.05	22.225	22.225	25.400	31.750
小径 Minor dia.(min)	12.700	16.017	19.134	19.134	22.268	27.589



T6EES/T6EE系列尾驱动叶片泵

T6EES Series Drive Train Vane Pump



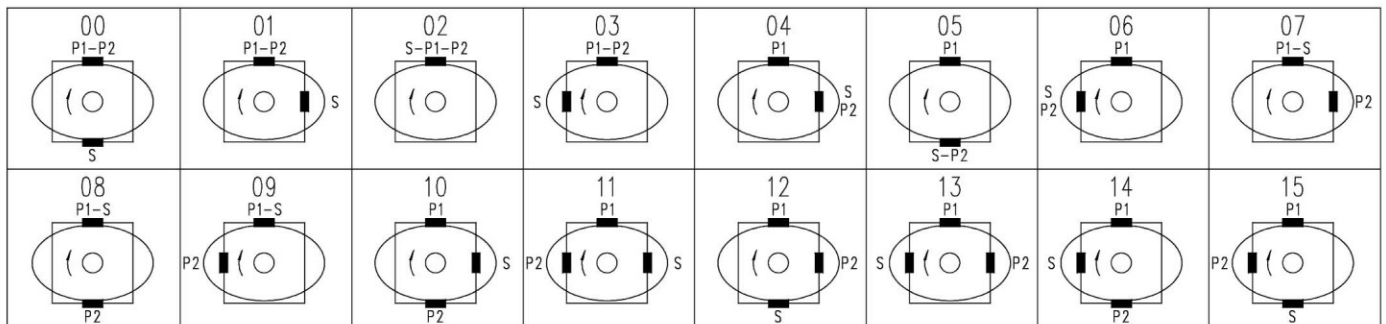
型号说明 Model Designation

T6EE	-062	-052	-2	L	00	-A	1	3	-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 letter	密封等级 Seal class	尾驱动联轴器 Coupling	油口连接 Port connections
T6EES-SAE 安装标准 SAE-E, 4孔 法兰 holes J744 mounting flange T6EE-公制安 装标准 mounting flange 250B4 W-ISO-3019	042/B42、 045/B45、 050/B50、 052/B52、 057/B57、 062/B62、 066/B66、 072/B72、 085/B85	042/B42、 045/B45、 050/B50、 052/B52、 057/B57、 062/B62、 066/B66、 072/B72、 085/B85	1-SAE CC 平键轴 Keyed 2-ISO 平键轴 Keyed 3-SAE CC 花键轴 Splined 4-SAE D&E 花键轴 Splined 5-SAE D&E 平键轴 Keyed	从泵的轴端 看 View form shaft end R- CW 顺时针旋转 rotation L- CCW 逆时针旋转 rotation	00-标准 详见下图 00-standard See picture below	A	1- S1 丁腈橡胶 NBR Nitrile rubber 5- S5 氟橡胶 FKM Fluoro rubber	0-不装尾驱 动联轴器 No coupling 2-SAE-B 联轴器 3-SAE-BB 联轴器	00-SAE 4 孔法兰美制 螺纹 bolt flange UNC thread M0-SAE 4 孔法兰公制 螺纹 bolt flange metric thread

与相应规格的T6E系列单泵性能参数一致，详见T6E系列单泵的性能参数表
The date of relevant series,model are unanimous. Please see T6E series-single pumps date

出油口位置(从泵的轴端看)

Port Positions (View form shaft end)



T6EES/T6EE Series Drive Train Vane Pump

重量/Weight: 95.0KG



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68 cst(50℃)。

当泵使用粘度为860-50cst 范围内的SAE10W号油时，压力应限定在其额定压力的一半，直到系统温度升高为止。

液压油的污染会引起叶片泵的故障和降低其寿命。应对液压油进行有效的污染控制。系统过滤精度不低于25 μm。为防止吸入污物和杂质，应在吸油口处安装过滤精度70-150 μm的滤油器，其额定流量不低于泵流量的两倍。

油泵正常工作油温：0-60℃。当工作油温大于66℃请与供应商联系。

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。

油泵可安装成任何方向(最好水平放置)。泵和电机轴必须对正，同轴度应控制在Φ0.1mm以内，尽量采用柔性联轴节，避免因弯曲或侧向力引起的任何应力。

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。

油泵的吸油管道口径不小于泵入口口径。

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。

Operating Oil

Anti-wear hydraulic oil is recommended for better performance and longer life. Viscosity range: 10-860cst. recommended viscosity 68cst(50℃).

When the oil of SAE10W within the viscosity from 860 to 50 cst is applied for pump, the pressure shall be limited as the half of rated pressure until the system temperature raising.

Proper fluid condition is essential for long and satisfactory life of hydraulic components and systems. filtration: the filtration rating should not be lower than 25 μm. filter of 70-150 μm on the inlet port is recommended and its delivery should not be lower than 200% that of pump.

Operating temperature: 0-60℃. please contact supplier when the oil working temperature is higher than 66℃.

Installation

Foot and frame for pump must be reliable, solid and good in vibration absorbance.

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 Φ0.1 mm. It is better to use flexible coupling to avoid harmful effects.

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 mms.

To reduce noise and vibration of system caused by trapped air, attachment flange at inlet port, all fittings and pipelines must be strictly sealed.

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.

启动

油泵启动前，应检查进、出口口，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。

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。妥善保管。

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T6系列尾驱动叶片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平整，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。

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 start.

When initially starting the pump after long-time unused, removing all trapped air from the system can be accomplished by loosening flange or connections.

Maintenance

Please inject defend rust oil in the pump, paint 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 meet 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 T6 Series Drive Train Vane Pumps offers fast and efficient field service ability, when replacing the cartridge, seals inside the pump should be checked to avoid them crimping; when tightening the fastening screws, they should be treated with even force in diagonal direction.

苏州铼洛威液压泵有限公司

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