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HYSERVO® 台州弘一液压伺服科技有限公司

TAIZHOU HONGYI HYDRAULIC SERVO TECHNOLOGY CO., LTD.

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HYSERVO®

产品手册

HYSERVO®

PRODUCT MANUAL

产品手册



台州弘一液压伺服科技有限公司

TAIZHOU HONGYI HYDRAULIC SERVO TECHNOLOGY CO., LTD.

HYSERVO

TAIZHOU HONGYI HYDRAULIC SERVO TECHNOLOGY CO., LTD.

台州弘一液压伺服科技有限公司创建于2002年，是一家从事叶片泵研发、生产、销售的企业，公司坐落于国家级生态县浙江省仙居县白塔工业园区，距离宁波港220公里，上海港350公里，交通便利。公司占地面积10000平方米，拥有一支熟悉叶片泵技术的专业生产经营团队，特聘多名国内外专家、教授为顾问。公司拥有从德国、美国、日本、台湾引进的数控磨削及精加工设备百余台，保证了叶片泵的制造品质，同时在生产过程中严把产品质量控制和检测，拥有美国海克斯康三坐标检测仪、各种硬度计和全套金相处理设备，公司建立了完善的质量管理体系，并通过了ISO9001-2008质量体系认证，使产品品质长期保持稳定。

公司现有多规格系列的成熟叶片泵产品,主要有美国丹尼逊T6、T7，美国威格士V、VQ、V10、V20，日本东京计器SQP，日本油研PV2R系列叶片泵，产品性能达到进口品牌同等水平。HTS，QHP系列高性能伺服叶片泵拥有自主知识产权并已取得三项发明专利和四项新型实用技术专利，可以替代德国艾可勒EIPC系列内啮合齿轮泵、日本住友QT系列内啮合齿轮泵。公司成功自主研发全球首款T8系列420 MPA，T8F系列1000排量高性能叶片泵。

公司年产各类叶片泵10万台，产品广泛应用于船舶、港口、橡塑、压铸、工程、矿山、冶金、石油等领域的液压传动，升级改良后的产品凭借低噪音，高性能以及优越的性价比受到国内外客户一致好评，自品牌创建以来，不断创新进取成就了一支高素质，高效率的服务团队，销售网络覆盖全国40个主要城市，在海外20个国家设有办事处。

我们将始终以品质第一，顾客至上为理念，坚持不断创新，为您提供优质的产品和服务，打造世界领先叶片泵制造企业！







Taizhou hongyi hydraulic servo technology co., ltd. is the leading manufacturer of high performance vanepumps in China. Company founded in 2002, located at xianju baita industry zone, Zhejiang province where is the national ecological country with the convenient transportation where 220km away from Ningbo Port, 350km away from Shanghai Port. The company covers an area of 10000 square meters，we have a professional production and management team with the deep knowledge of vane pump technology. We invited many domestic and foreign experts and professors as consultants. Our company owns more than one hundred sets of CNC grinding and finishing equipment imported from Germany, USA, Japan and Taiwan which guarantee the high production quality. Meanwhile we control the quality and inspection strictly in the production process. Our company owns Hexagon 3D Coordinate Instrument、Sclerometers、Metallographic processing equipment. We have established a perfect quality management system and qualified for ISO 9001-2008 to ensure consistent quality stability.

Our main products are Denison T6、T7 series, Vickers V、VQ、V10、V20 series, Tokimec SQP and YUKEN PV2R series which are with the same performance with original products. HTS and QHP series servo pumps are self-developed products with independent intellectual property with three inventive patents and four utility model patents which can replace Germany ECKERLE EIPC series and SUMITOMO QT series gear pumps. We also developed the world first T8 series 420 Mpa high pressure vane pump and T8F series 1000 displacement high flow vane pump.

Our products are widely used in ports,ships,rubber and plastic, die-casting,engineering, metallurgy, coal, oil and other industries. The improved products success in low noise , high performance and superior performance-price which gets unanimous approval and praise from domestic and foreign customers. Since the brand was created we have bulit a high efficiency and high quality service team through keeping innovating and enterprising. Our sales network covers 40 main cities all over China and 20 agents overseas. We produce all kinds of vane pumps 100000 sets annually.

We will insist on the principle" Quality first ,Customer is supreme" with continuous innovation to create the world class leading vane pump manufacturer providing you with the high quality products and services.



HYSERVO EQUIPMENT
关键设备



从德国、美国、日本、台湾引进的数控磨削及精加工设备百余台，保证了叶片泵的制造品质。

More than one hundred sets of CNC grinding and finishing equipment imported from Germany, USA, Japan and Taiwan which guarantee the production quality.



数控定子磨
NC cam ring grinder



数控车床
CNC lathe



双端面研磨机
Double-width grinding machine



双端面磨床
Double-width grinding machine

HYSERVO DETECTION
质量检测

生产过程中严把产品质量控制和检测。
Control the quality and detection strictly in the production process.



硬度计
Sclerometer



美国海克斯康三坐标检测仪
Hexagon 3D Coordinate Instrument



全套金相处理设备
Metallographic processing equipment



各种硬度计
Sclerometers



HYSERVO

ASSEMBLING

装配实验



完善的质量管理体系，品质长期保持稳定。

Perfect quality management system to guarantee the constant quality stability.



全自动光学超声波清洗机
Automatic Optical Ultrasonic Cleaning Machine



装配流水线
Assembling Line



超静音综合性能试验台
Pump Noise & Performance Test Bench

产品性能达到进口品牌同等水平。
Same performance with the world famous brand.



丹尼逊T6、T7系列
Denison T6、T7 Series



威格士V、VQ 系列
Vickers V、VQ Series



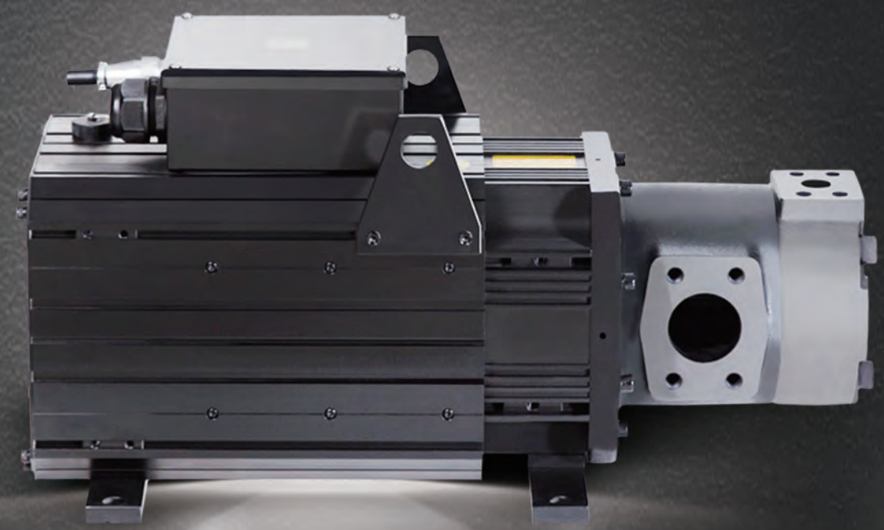
东京计器SQP系列
Tokimec SQP Series



油研PV2R系列
Yuken PV2R Series

HYSERVO PRODUCTS
主要产品

高性能伺服电机一体泵
HIGH PERFORMANCE SERVO MOTOR INTEGRATED PUMP



专为塑机行业量身定制

低能耗 · 高效率
LOW ENERGY CONSUMPTION AND HIGH EFFICIENCY

运行平稳，超低震动和噪音

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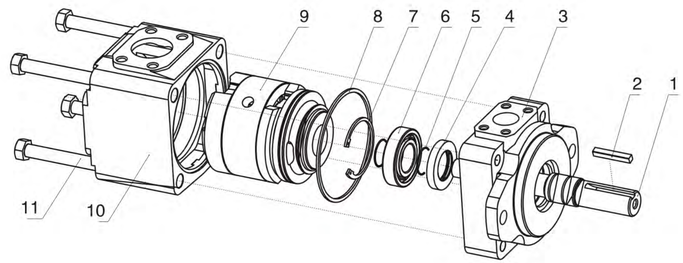
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T6、T7系列柱销式叶片泵

T6、T7 Series Dowel Pin Vane Pumps

T6、T7系列单泵 T6、T7 Series Single Vane Pump





序号	名称	数量	序号	名称	数量	序号	名称	数量
1	轴	1	5	轴用钢丝挡圈	2	9	泵芯	1
2	平键	1	6	滚动轴承	1	10	后盖	1
3	前盖	1	7	孔用弹性挡圈	1	11	外六角头螺栓	4
4	油封	1	8	矩形密封圈	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 port positions	设计号 Design number	密封等级 Sealing level	油口尺寸 Port dimensions
T7B	无：ISO 3019安装法兰 NO: ISO 3019 Mounting flange	B02、B03、B04、B05、B06、B07、B08、B10、B12、B15	见轴伸尺寸 See shaft size	(从泵的轴端看) View from shaft end of pump	(从泵的轴端看) View from shaft end of pump	A	1-S1, 丁腈橡胶 NBR	00、01, 见安装连接尺寸 See installation dimensions
T7D	S: SAE J744安装法兰 S:SAE J744 Mounting flange	B14、B17、B20、B22、B24、B28、B31、B35、B38、B42		R-顺时针旋转 R-Clockwise(CW)	00-进油口对面 Opposite inlet port			无此选项 No
T7E		042、045、050、052、054、057、062、066、072、085		L-逆时针旋转 L-Counterclockwise(CCW)	01-进油口同侧 Inline with inlet		5-S5, 氟橡胶 Fluorine rubber	
T6C	无：工业用型 NO: Industrial type M：车用型 M: Mobile Vehicle type P：双重油封车用型 P: Mobile Vehicle type with double-seal	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			02-从进油口逆时针90° 90° CCW from Inlet			
T6D		014/B14, 017/B17, 020/B20, 024/B24, 028/B28, 031/B31, 035/B35, 038/B38, 042/B42, 045/B45, 050/B50, 061			03-从进油口顺时针90° 90° CW from Inlet			
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

003/B03: In displacement code 0 means single steering side plate structure, B means double steering side plate structure.

技术参数 Technical Date

系列号 Series	排量代号 Flow code US gpm	理论排量 Theoretical displacement ml/r	最高压力 Mpa Max. pressure Mpa						最高转速 r/min Max. speed r/min		最低转速 r/min 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 eater 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 and Antiwear hydraulic oil	水乙二醇、磷酸脂液和油包水乳化液 Water glycol fluid、phosphate eater fluid or water-oil emulsions	
			间歇 Instant	连续 Continuous	间歇 Instant	连续 Continuous	间歇 Instant	连续 Continuous			
T7B(S)	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					3000		
	B15	50.0	28	24							
T7D(S)	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						2800		
	B38	120.6									
	B42	137.5	26	23					2500		
T7E(S)	042	132.3	25	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		

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

003/B03: In displacement code 0 means single steering side plate structure, B means double steering side plate structure.

T6、T7系列叶片泵/T6、T7 Series Vane Pumps

技术参数 Technical Date

系列号 Series	排量代号 Flow code US gpm	理论排量 Theoretical displacement ml/r	最高压力 Mpa Max. pressure Mpa						最高转速 r/min Max. speed r/min		最低转速 r/min 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 eater 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 and Antiwear hydraulic oil	水乙二醇、磷酸脂液和油包水乳化液 Water glycol fluid、phosphate eater 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	10.8	28	24	21	17.5	17.5	14	2800	1800	600
	005	17.2									
	006	21.3									
	008	26.4									
	010	34.1									
	012	37.1									
	014	46.0									
	017	58.3									
	020	63.8									
	022	70.3									
	025	79.3							2500		
	028	88.8	21	16		16					
	031	100.0									
T6D	014	47.6	25	21	21	17.5	17.5	14	2500	1800	600
	017	58.2									
	020	66.0									
	024	79.5									
	028	89.7									
	031	98.3									
	035	111.0									
	038	120.3									
	042	136.0							2200		
	045	145.7									
	050	158.0	21	16		16					
	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	600
	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		

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

003/B03: In displacement code 0 means single steering side plate structure, B means double steering side 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, oil viscosity 24cst.**

系列 Series	理论排量 mL/rev Theoretical displacement ml/r	转速 r/min Rotation speed r/min	流量 (L/min) Flow L/min							输入功率 (KW) 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	–

T6、T7系列叶片泵/T6、T7 Series Vane Pumps

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, oil viscosity 24cst.**

系列 Series	理论排量 mL/rev Theoretical displacement ml/r	转速 r/min Rotation speed r/min	流量 (L/min) 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 (KW) 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, oil viscosity 24cst.**

系列 Series	理论排量 mL/rev Theoretical displacement ml/r	转速 r/min Rotation speed r/min	流量 (L/min) 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	158.5	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	–	–

系列 Series	输入功率 (KW) Input power KW		
	P=0.7 MPa	P=14 MPa	P=24 MPa
	KW	KW	KW
T7E(S)-042	5.2	49.4	82.6
T7E(S)-045	5.4	52.9	88.7
T7E(S)-050	5.7	58.5	50.7
T7E(S)-052	5.8	60.8	102.1
T7E(S)-054	5.9	63.0	105.8
T7E(S)-057	6.1	67.3	113.2
T7E(S)-062	6.4	71.9	121.3
T7E(S)-066	6.7	77.7	131.2
T7E(S)-072	6.9	82.6	139.5
T7E(S)-085	9.1	–	–

* 85：最大转速2000r/min, 最大间歇压力9MPa
85: Max. rotation speed 2000 r/min, max intermittent pressure is 21 Mpa

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, oil viscosity 24cst.**

系列 Series	理论排量 mL/rev Theoretical displacement ml/r	转速 r/min Rotation speed r/min	流量 (L/min) Flow L/min						输入功率 (KW) 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, oil viscosity 24cst.**

系列 Series	理论排量 mL/rev Theoretical displacement ml/r	转速 r/min Rotation speed r/min	流量 (L/min) Flow L/min						输入功率 (KW) 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	-	-

* 28、31：最大间歇压力21MPa
— 因为内泄大于理论值的50%，故没有应用。

28,31:max intermittent pressure is 21 Mpa
As the inner leakage is over 50% of theoretical value 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, oil viscosity 24cst.**

系列 Series	理论排量 mL/rev Theoretical displacement ml/r	转速 r/min Rotation speed r/min	流量 (L/min) Flow L/min					输入功率 (KW) 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-45 T6D-B45	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	-

* 50：最大间歇压力21MPa **50: max intermittent pressure is 21 Mpa**

工作性能 Operation Performance

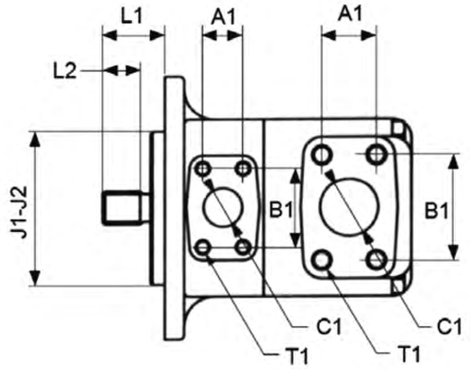
使用抗磨液压油，油液粘度24cst时。**Using the anti-wear hydraulic oil, oil viscosity 24cst.**

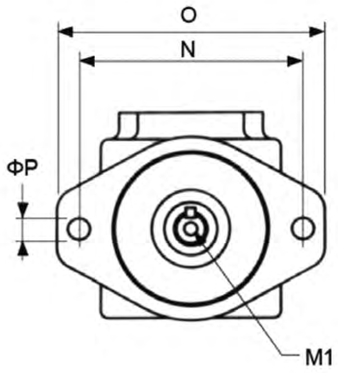
系列 Series	理论排量 mL/rev Theoretical displacement ml/r	转速 r/min Rotation speed r/min	流量 (L/min) Flow L/min					输入功率 (KW) Input power KW				
			P=0 MPa	P=7 MPa	P=14 MPa	P=21 MPa	P=24 MPa	P=0 MPa	P=7 MPa	P=14 MPa	P=21 MPa	P=24.5 MPa
			L/min	L/min	L/min	L/min	L/min	KW	KW	KW	KW	KW
T6E-042	132.3	1000	132.3	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	-	-	-

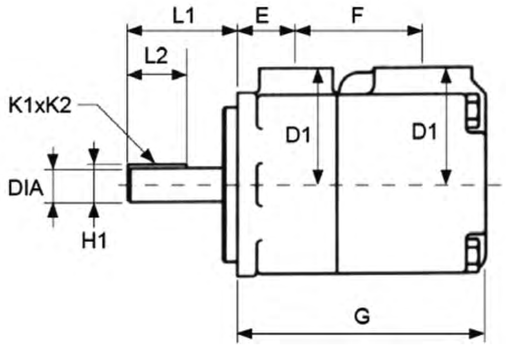
* 85：最大转速2000r/min，最大间歇压力9MPa　**85:max rotation speed is 2000 r/min, max intermittent pressure is 9 Mpa.**

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	38.1	38.1	38.1	38.1	52.3	52.3	38.1	38.1	52.3
F	82.3	82.3	87.4	87.4	110.0	110.0	82.3	87.4	110.0
G	168.5	168.5	184.9	184.9	225.3	225.3	161.6	184.9	225.3
J1	100.000	101.60	125.000	127.00	125.000	127.00	101.60	127.00	127.00
J2	99.967	101.55	124.937	126.095	124.937	126.095	101.55	126.095	126.095
N	140.0	146.0	180.0	181.0	180.0	181.0	146.1	181.0	181.0
O	174.5	174.5	212.4	212.4	213.0	231.0	174.5	212.4	213.0
ΦP	14.0	14.3	18.0	17.5	18.0	17.5	14.3	17.5	17.5

安装连接尺寸 Installation Dimensions

轴伸 Shaft code

型号 Model	轴伸代号 Shaft code	最大扭矩 (N.m) 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，径节16/32，13牙			–
	4	●	45.5	24.5	SAE J498b 1级，径节16/32，15牙			–
T7D	5	●	87.4	50.0	32.018/32.002	10.00x8.00	35.3	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，径节12/24，14牙			–
	4	●	77.7	48.0	SAE J498b 1级，径节12/24，14牙			–
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，径节12/24，14牙			–
	4	●	62.2	31.5	SAE J498b 1级，径节12/24，17牙			–
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，径节16/32，13牙			–
	4	●	45.5	24.5	SAE J498b 1级，径节16/32，15牙			–
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，径节12/24，14牙			–
	4	●	77.7	48.0	SAE J498b 1级，径节12/24，14牙			–
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，径节12/24，14牙			–
	4	●	62.2	31.5	SAE J498b 1级，径节12/24，17牙			–

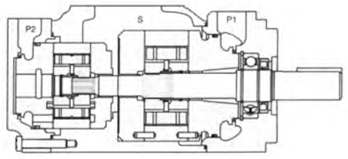
● 能在最大流量，最高压力下工作。
Can work under Max. flow and Max. pressure

安装连接尺寸 Installation Dimensions

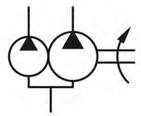
油口 Oil port			法兰 Flange	安装尺寸 (mm) Installation Dimensions （mm）				
				A1	B1	ΦC1	D1	T1口螺纹 Thread
T7B、T7BS	P	01：3/4"	F06	22.2	47.6	19.0	76.2	3/8"–16UNCx19.0
		00：1"	F08	26.2	52.4	25.4		
	S	1–1/2"	F12	35.7	69.9	38.1	76.2	1/2"–13UNCx22.4
T7D、T7DS	P	1–1/4"	F10	30.2	58.7	31.8	82.6	7/16"–14UNCx22.3
	S	2"	F16	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"–11UNCx24.0
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

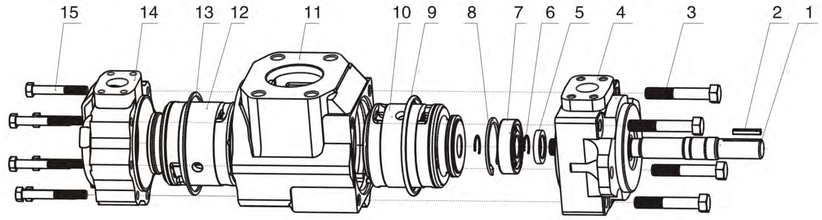
T6、T67、T7系列双联泵 T6、T67、T7 Series Double Vane Pump





液压符号

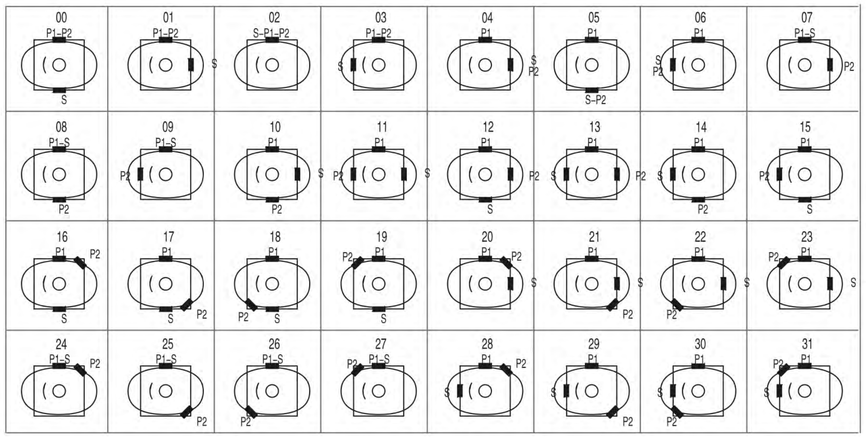




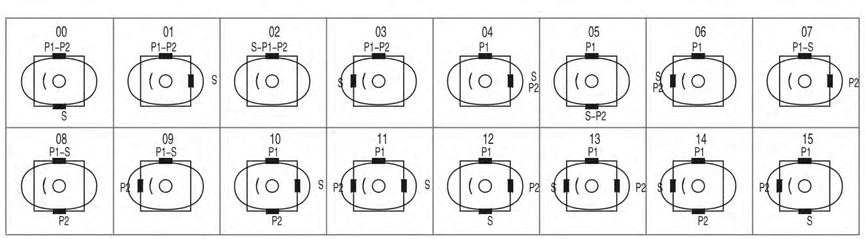
序号	名称	数量Qty	序号	名称	数量	序号	名称	数量
1	轴	1	6	轴用钢丝挡圈	2	11	中泵体	1
2	平键	1	7	滚动轴承	1	12	后泵芯	1
3	外六角螺栓	4	8	孔用弹性挡圈	1	13	矩形密封圈	1
4	前盖	1	9	矩形密封圈	1	14	后盖	1
5	油封	1	10	前泵芯	1	15	外六角螺栓	4

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

T7BB(S)
T7DB(S)
T7EB(S)
T67CB
T6CC
T67DB
T6DC
T67EB
T67EC
T6EC



T7DD(S)
T7ED(S)
T7EE(S)
T7ED
T6ED
T6EE



型号说明 Model Designation

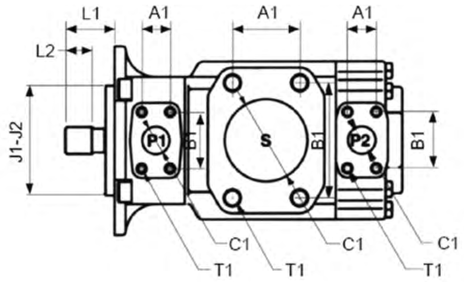
T6CC	S	W	–025	–017	–1	R	02	–C	1	10
系列号 Series	类别代号 Type code	辅助类别代号 Auxiliary Type code	轴端泵排量代号 Shaft end pump displacement	盖端泵排量代号 Cover end pump displacement	轴伸形式 Shaft type	旋转方向 Rotation	油口位置 Port position	设计号 Design number	密封等级 Sealing Level	油口尺寸 Port dimensions
T7BB	无：采用ISO 3019安装法兰 NO: ISO 3019 Mounting flange	无此项 NO	B02、B03、B04、B05、B06、B07、B08、B10、B12、B15	B02、B03、B04、B05、B06、B07、B08、B10、B12、B15	见轴伸尺寸 See shaft size	从泵的轴端看 View from shaft end of pump	见下图 See pic below	C	1–S1，丁腈橡胶 NBR	00、01，见安装连接尺寸 00、01 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 见安装连接尺寸 00、01、M1 See installation dimensions
T7DD			B14、B17、B20、B22、B24、B28、B31、B35、B38、B42	B14、B17、B20、B22、B24、B28、B31、B35、B38、B42						无此选项 No
T7EB	S: 采用SAE C J744安装法兰 S: SAE J744 Mounting flange		042、045、050、052、054、057、062、066、072、085	B02、B03、B04、B05、B06、B07、B08、B10、B12、B15		R–顺时针旋转 R–Clockwise (CW)				
T7ED			042、045、050、052、054、057、062、066、072、085	B14、B17、B20、B22、B24、B28、B31、B35、B38、B42		L–逆时针旋转 L–Counter clockwise (CCW)				
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 NO: Industrial type	W: 重型轴 W: Heavy load 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					1–S1，丁腈橡胶 NBR	00、01、10、11，见安装连接尺寸 00、01、10、11 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						
T67DB	M: 车用型 M: Mobile Vehicle type		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					5–S5，氟橡胶 Fluorine rubber	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	P: 车用型双重油封 P: Mobile Vehicle type with double-seal		014、017、020、024、028、031、035、038、042、045、050、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、M1，见安装连接尺寸 00、01、M1 See installation dimensions
T67EB			042、045、050、052、057、062、066、072、085	B02、B03、B04、B05、B06、B07、B08、B10、B12、B15						
T6EC	S: 车用型采用SAE J744c安装法兰 S: Mobile Vehicle type with SAE J744 Mounting flange		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						无此选项 No
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
003/B03: In displacement code 0 means single steering side plate structure, B means double steering side plate structure.

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
Same as equivalent T6 single pump, see T6 series single pump performance for reference.

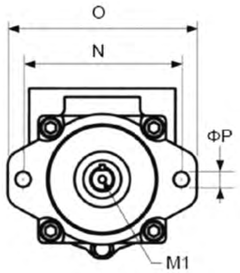
安装连接尺寸 Installation Dimensions

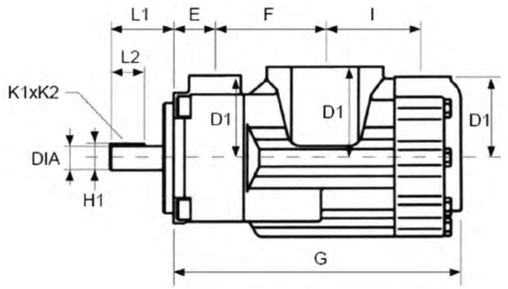
T6CC
T6DC
T6EC
T6ED



	T6CC	T6DC
E	38.1	38.1
F	101.6	114.3
G	265.6	286.0
I	88.2	109.5
J1 J2	101.60 101.55	127.00 126.95
N	146.0	181.0
O	174.5	212.4
ΦP	14.3	17.5

	T6EC	T6ED
E	52.3	52.3
F	118.5	133.5
G	331.6	361.0
I	136.7	148.2
J1 J2	127.00 126.95	127.00 126.95
N	181.0	181.0
O	213.0	213.0
ΦP	17.5	17.5



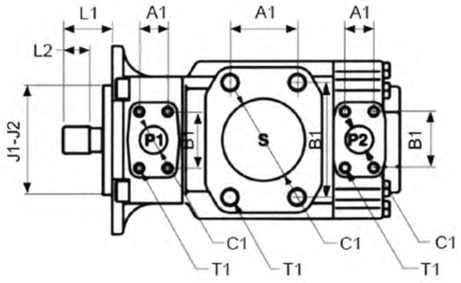


	T6EE	T6EES
E	42.9	42.9
F	167.3	167.3
G	406.8	406.8
I	157.9	157.9
J1 J2	250.00 249.93	165.10 165.05
N	224.5x224.5	224.5x224.5
O	273x273	273x273
ΦP	20.6	20.6

油口 Oil port			法兰 Flange	安装尺寸 Installation 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
	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
T6DC	P1	00&01: 1–1/4"	F10	30.2	58.7	31.8	82.6	7/16"–14UNCx22.3
		M1: 1–1/4"	F10	30.2	58.7	31.8	82.6	M12x22.3
	P2	01: 3/4"	F06	22.2	47.6	19.0	74.7	3/8"–16UNCx19.0
		00: 1"	F08	26.2	52.4	25.4	74.7	
		M1: 3/4"	F06	22.2	47.6	19.0	74.7	M10x19
	S	00&01: 3"	F24	61.9	106.4	76.2	88.9	5/8"–11UNCx28.4
		M1: 3"	F24	61.9	106.4	76.2	88.9	M16x29
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	82.6	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

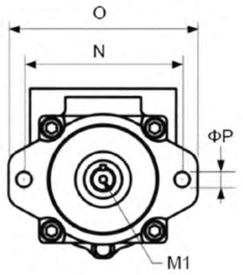
T7BB(S)
T7DB(S)
T7EB(S)
T67CB
T67DB
T67EB

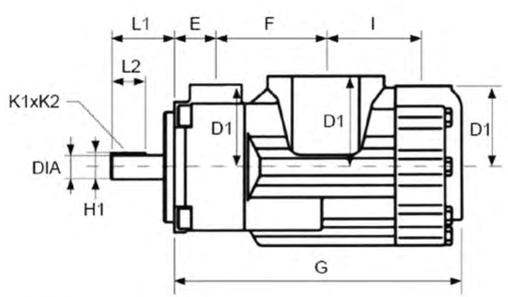


	T7BB	T7BBS	T67CB
E	38.1	38.1	38.1
F	101.6	101.6	101.6
G	262.2	262.2	265.6
I	88.2	88.2	88.2
J1 J2	100.00 99.97	101.60 101.55	101.60 101.55
N	140.0	146.0	146.0
O	174.5	174.5	174.5
ΦP	14.0	14.3	14.3

	T7DB	T7DBS	T67DB
E	38.1	38.1	38.1
F	114.3	114.3	114.3
G	286.0	286.0	286.0
I	109.5	109.5	109.5
J1 J2	125.00 124.94	127.00 126.95	127.00 126.95
N	180.0	181.0	181.0
O	212.4	212.4	212.4
ΦP	18.0	17.5	17.5

	T7EB	T7EBS	T67EB
E	52.3	52.3	52.3
F	118.5	118.5	118.5
G	331.6	331.6	331.6
I	136.7	136.7	136.7
J1 J2	125.00 124.94	127.00 126.95	127.00 126.95
N	180.0	181.0	181.0
O	213.0	213.0	213.0
ΦP	18.0	17.5	17.5

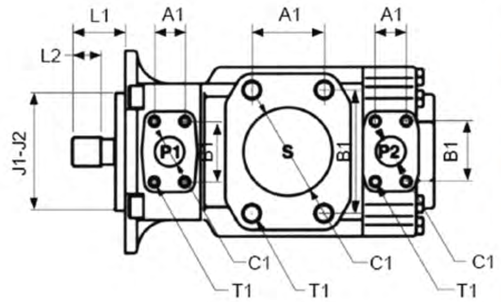




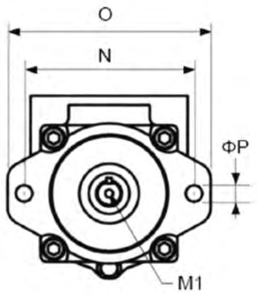
油口 Oil port			法兰 Flange	安装尺寸 (mm) Installation Dimensions (mm)				
				A1	B1	ΦC1	D1	T1口螺纹 Thread
T7BB(S)	P1	01：3/4"	F06	22.2	47.6	19.0	76.2	3/8"–16UNCx19.0
		00：1"	F08	26.2	52.4	25.4	76.2	
	P2	3/4"	F06	22.2	47.6	19.0	76.2	3/8"–16UNCx19.0
	S	2–1/2"	F20	50.8	88.9	63.5	84.1	1/2"–13UNCx23.9
T7DB(S)	P1	01: 1–1/4"	F10	30.2	58.7	31.8	82.6	7/16"–14UNCx22.3
		M1: 1–1/4"	F10	30.2	58.7	31.8	82.6	M12x22.3
	P2	01: 3/4"	F06	22.2	47.6	19.0	74.7	3/8"–16UNCx19.0
		00: 1"	F08	26.2	52.4	25.4	74.7	
		M1: 3/4"	F06	22.2	47.6	19.0	74.7	M10x19
	S	3"	F24	61.9	106.4	76.2	88.9	5/8"–11UNCx29
		M1: 3"	F24	61.9	106.4	76.2	88.9	M16x29
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
T67CB	P1	1"	F08	26.2	52.4	25.4	76.2	3/8"–16UNCx19.0
	P2	3/4"	F06	22.2	47.6	19.0	76.2	3/8"–16UNCx19.0
	S	2–1/2"	F20	50.8	88.9	63.5	84.1	1/2"–13UNCx23.9
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"–11UNCx24.0
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	74.7	3/8"–16UNCx19.0
	S	3–1/2"	F28	69.9	120.7	88.9	102.4	5/8"–11UNCx24.0

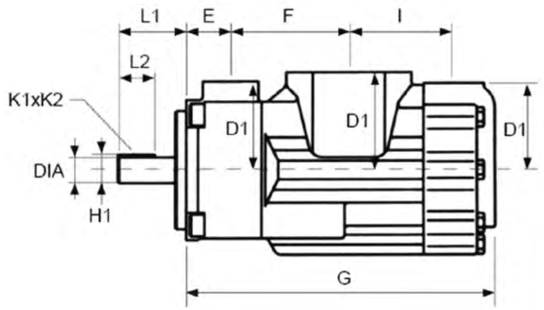
安装连接尺寸 Installation Dimensions

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



	T7DD	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 J2	125.000 124.937	127.00 126.95	127.00 126.95
N	180.0	181.0	181.0
O	213.0	213.0	212.4
ΦP	14.0	14.3	17.5



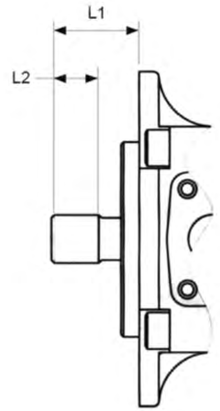


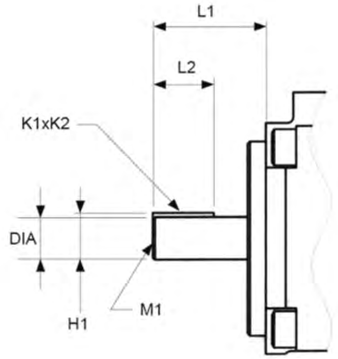
	T7ED	T7EDS	T67EC
E	52.3	52.3	52.3
F	133.5	133.5	118.5
G	361.0	361.0	331.6
I	148.2	148.2	136.7
J1 J2	125.00 124.94	127.00 126.95	127.00 126.95
N	180.0	181.0	181.0
O	213.0	213.0	213.0
ΦP	18.0	17.5	17.5

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

油口 Oil port			法兰 Flange	安装尺寸 (mm) Installation Dimensions (mm)				
				A1	B1	ΦC1	D1	T1口螺纹 Thread
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	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
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





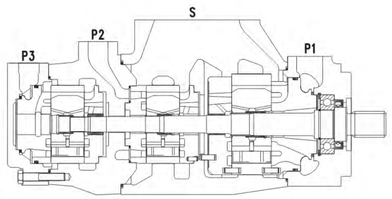
轴伸 Shaft code

型号 Model	轴伸代号 Shaft code	最大扭矩 (N.m) 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 1级，径节16/32，13牙			–
	4	●	45.5	24.5	SAE J498b 1级，径节16/32，15牙			–
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 1级，径节12/24，14牙			–
	4	●	77.7	48.02	SAE J498b 1级，径节12/24，14牙			–
T7DD	5	●	68.0	50.0	31.018/32.002	10.00x8.00	35.0	M10x20
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	40.36	M10x20
	3	●	56.0	38.0	SAE J498b 1级，径节12/24，14牙			–
	4	●	46.0	24.5	SAE J498b 1级，径节16/32，15牙			–
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 1级，径节12/24，14牙			–
	4	●	62.2	31.5	SAE J498b 1级，径节12/24，17牙			–
T7EE	2	●	92.0	63.0	45.000/44.975	14.00x9.00	48.5	M12x24
T7EES	1	●	90.9	63.5	38.100/38.075	9.52x9.47	42.36	M10x20
	3	●	62.2	31.5	SAE J498b 1级，径节12/24，17牙			–
	4	●	75.0	48.8	SAE J498b 1级，径节8/16，13牙			–
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 1级，径节16/32，15牙			–
	5	343	40.7	24.5	SAE J498b 1级，径节16/32，13牙			–
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 J498b 1级，径节12/24，14牙			–
	4	●	77.7	48.0	SAE J498b 1级，径节12/24，14牙			–
	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 1级，径节12/24，14牙			–
	4	●	62.2	31.5	SAE J498b 1级，径节12/24，17牙			–

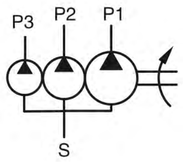
● 能在最大流量，最高压力下工作。
Can work under Max. flow and Max. pressure

T6、T67、T7系列三联泵 T6、T67、T7 Series Triple Vane Pump





液压符号



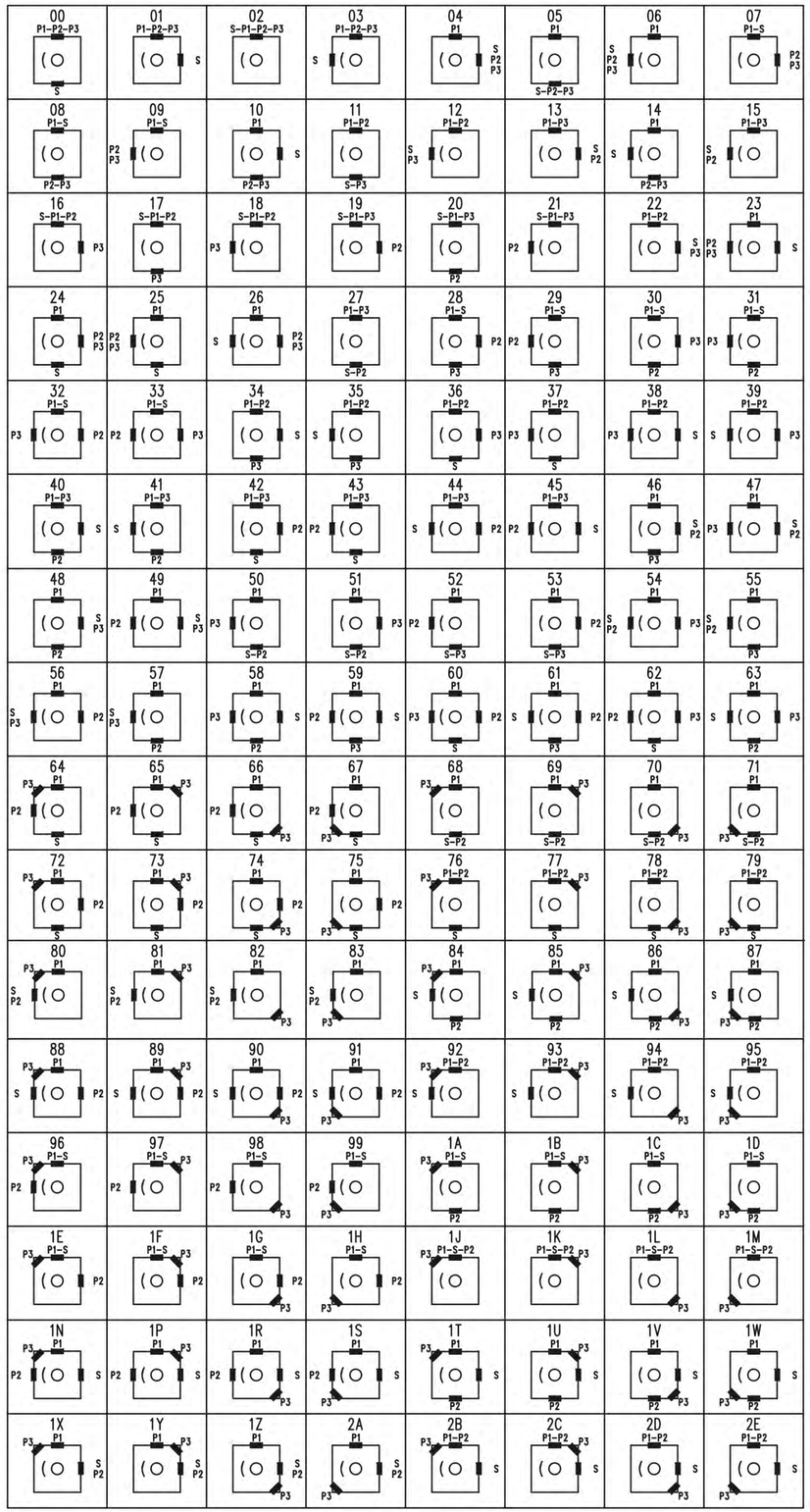
型号说明 Model Designation

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 Shaft end pump displacement	中间泵排量代号 Middle pump displacement	盖端泵排量代号 Cover end pump displacement	轴伸形式 Shaft type	旋转方向 Rotation	油口位置 Port position	设计号 Design number	密封等级 Sealing Level	油口尺寸 Port dimensions
T67DBB	无：工业用型 NO: Industrial type M：车用型 M: Mobile Vehicle type S：车用型采用SAE J744c安装法兰 S: Mobile Vehicle type with SAE J744 Mounting flange	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、B 04、B05、B06、 B07、B08、B 10、B12、B15	B02、B03、B 04、B05、B06、 B07、B08、B 10、B12、B15	见轴伸尺寸 See shaft size	从泵的轴端看 View from shaft end of pump R-顺时针旋转 R-Clockwise (CW) L-逆时针旋转 L-Countercl ockwise (CCW)	见下图 See pic below	A	1-S1，丁腈橡胶 NBR 5-S5，氟橡胶 Fluorine rubber	无此选项 No
T67DCB		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、B 04、B05、B06、 B07、B08、B 10、B12、B15						
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 00、01 See installation dimensions
T67DDB		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、B 10、B12、B15						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 00、01 See installation dimensions
T67EDB		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、B 10、B12、B15						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 00、01 See installation dimensions

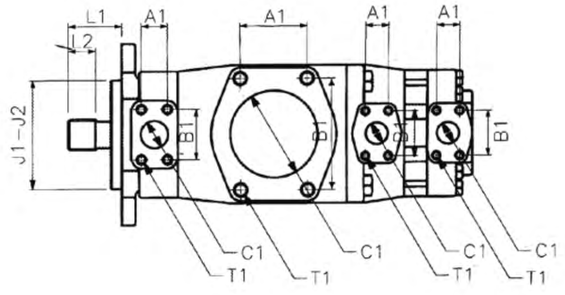
003/B03：排量代号中0表示单转向型配流侧板结构，B表示双转向型配流侧板结构
003/B03: In displacement code 0 means single steering side plate structure, B means double steering side plate structure.
与相应系列、规格的T6单泵性能参数一致，详见T6系列单泵的性能参数
Same as equivalent T6 single pump, see T6 series single pump performance for reference.

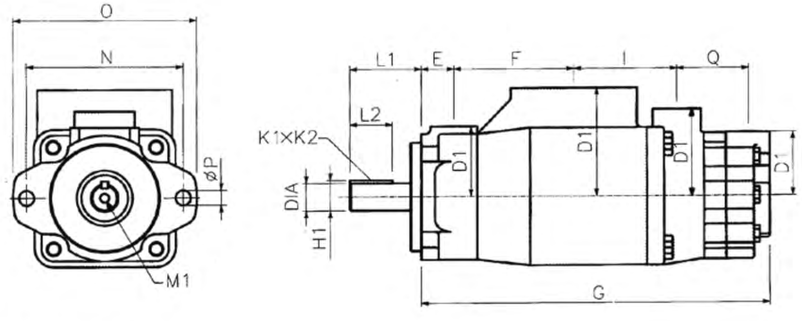
油口位置(从泵的轴端看) Port positions (Views from shaft end of pump)

T67DBB
T67DCB
T6DCC
T67DDBS
T6DDCS
T67EDB
T6EDC(S)



安装连接尺寸 Installation Dimensions





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

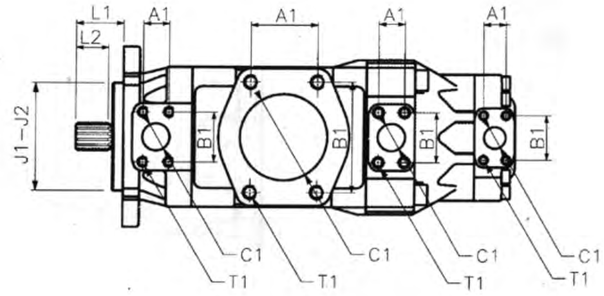
轴伸 **Shaft code**

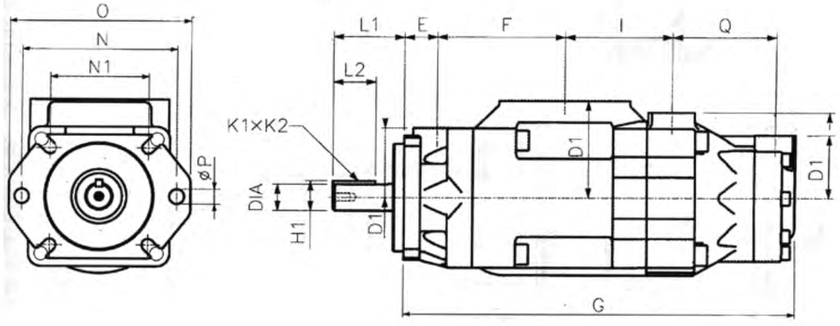
型号 Model	轴伸代号 Shaft code	最大扭矩 (N.m) Max torque (N.m)	L1	L2	DIA	K1xK2	H1	M1
T6DCC T67DBB T67DCB	1	721	83.6	49.3	31.750/31.700	6.35x6.30	34.6	–
	2	1108	89.7	50.8	38.100/38.075	9.52x9.47	42.4	–
	3	●	55.2	38.0	SAE J498b 1级，径节12/24，14牙			–
	4	●	61.0	31.5	SAE J498b 1级，径节12/24，17牙			–
T6DCC	6	●	76.0	48.0	SAE J498b 1级，径节12/24，14牙			–

● 能在最大流量，最高压力下工作。
Can work under Max. flow and Max. pressure

油口 Oil port			法兰 Flange	安装尺寸 (mm) Installation Dimensions （mm）				
				A1	B1	ΦC1	D1	T1口螺纹 Thread
T67DBB T67DCB	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
		00：1"	F08	26.2	52.4	25.4	74.7	
	S	4"	F32	77.8	130.2	101.6	127	5/8"–11UNCx30.0

安装连接尺寸 Installation Dimensions





T6DDC T67DDB(S)	
E	38.1
F	138.0
G	404.0
I	119.3
J1 J2	127.00 126.95
N	181.0
O	212.4
ΦP	17.5
Q	84.4

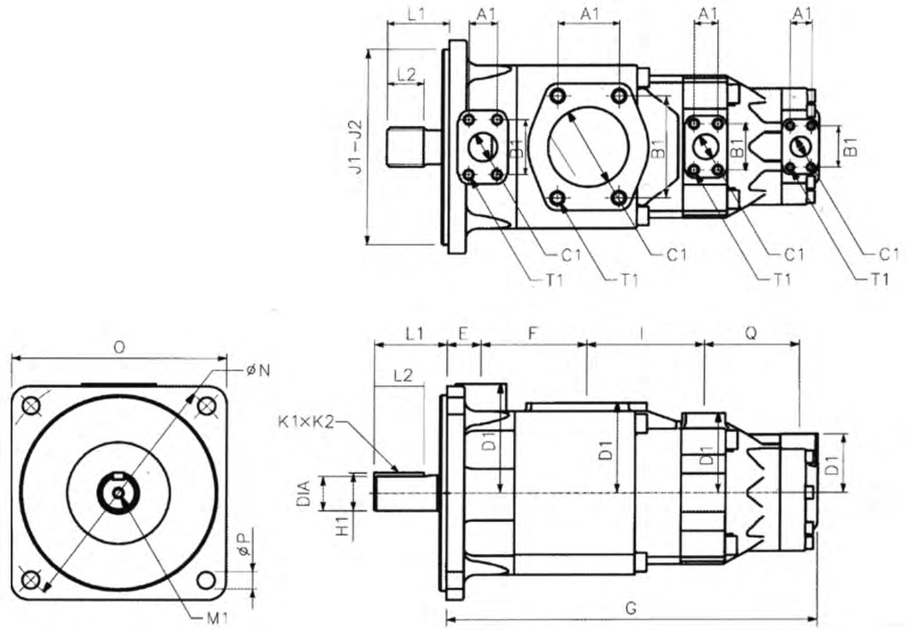
轴伸 **Shaft code**

型号 Model	轴伸代号 Shaft code	最大扭矩 (N.m) Max torque (N.m)	L1	L2	DIA	K1xK2	H1	M1
T6DDC T67DDB(S)	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，径节12/24，14牙			–
	4	●	46.0	31.5	SAE J498b 1级，径节12/24，17牙			–

● 能在最大流量，最高压力下工作。
Can work under Max. flow and Max. pressure

油口 Oil port			法兰 Flange	安装尺寸 (mm) Installation Dimensions （mm）				
				A1	B1	ΦC1	D1	T1口螺纹 Thread
T67DDB(S)	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
T6DDC	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
		00：1"	F08	26.2	52.4	25.4	74.7	
	S	4"	F32	77.8	130.2	101.6	115.0	5/8"–11UNCx30.0

安装连接尺寸 Installation Dimensions



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

T6EDCS T67EDB	
E	42.8
F	133.3
G	468.0
I	148.4
J1 J2	165.10 165.05
ΦN	315.0
O	273.0
ΦP	22.0
Q	120.0

轴伸 Shaft code

型号 Model	轴伸代号 Shaft code	最大扭矩 (N.m) Max torque (N.m)	L1	L2	DIA	K1xK2	H1	M1
T67EDB 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，径节8/16，13牙			–

● 能在最大流量，最高压力下工作。
Can work under Max. flow and Max. pressure

油口 Oil port			法兰 Flange	安装尺寸 (mm) Installation Dimensions （mm）				
				A1	B1	ΦC1	D1	T1口螺纹 Thread
T67EDB	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
		00：1"	F08	26.2	52.4	25.4	74.7	
	S	4"	F32	77.8	130.2	101.6	115.0	5/8"–11UNCx30.0

T6GC、T7GB、T6GCC、T67GCB、T7GBB 系列柱销式叶片泵
T6GC、T7GB、T6GCC、T67GCB、T7GBB Series Vane Pumps

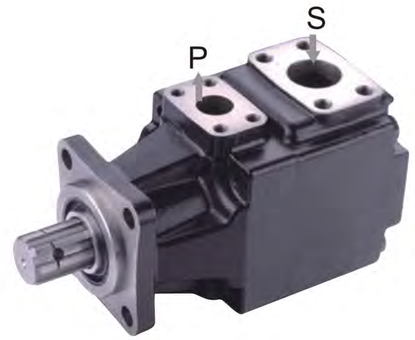
适用于工程机械特别是行走机械的高压高性能柱销式叶片泵。
High pressure and high performance dowel pin type vane pumps are used for construction machine especially for mobile Vehicle.

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。
Improved bearing structure and rectangular spline shaft design can be driven directly by engine or gearbox.

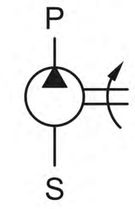
2、双油封结构，适应行走机械的恶劣环境。
Double oil seal structure to adapt to the severe environment of mobile Vehicle.

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。
Cartridge is completely interchangeable with the cartridge of T6C and T7B, convenient maintenance.

T6GC、T7GB系列单泵 T6GC、T7GB Series Single Vane Pumps



液压符号



型号说明 Model Designation

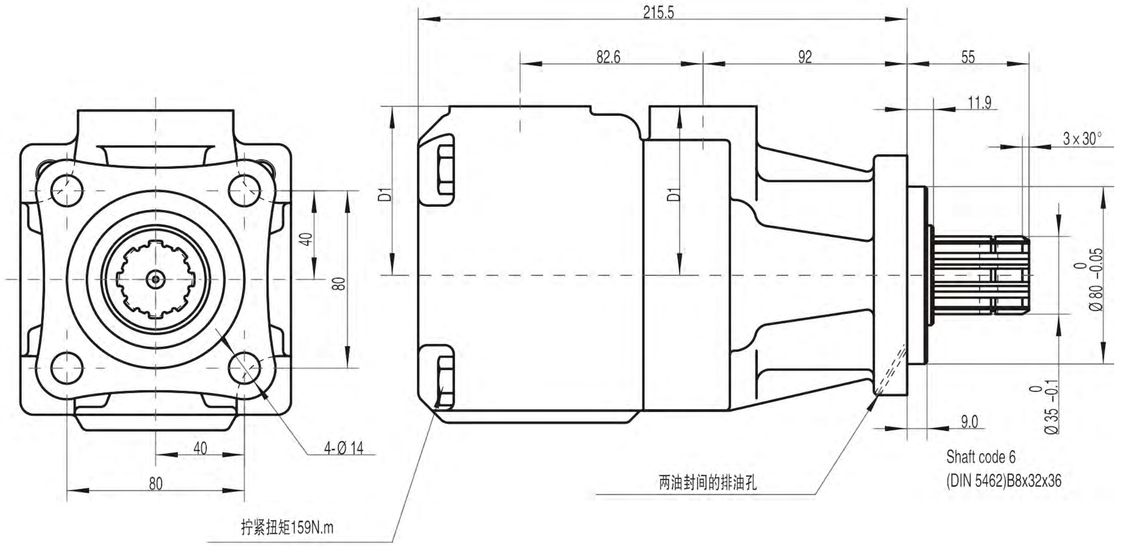
T6GC	–B10	–6	R	00	–A	1	01
系列号 Series	排量代号 Flow code	轴伸形式 Shaft type	旋转方向 Rotation	出油口位置 Outlet port positions	设计号 Design number	密封等级 Sealing level	油口尺寸 Port dimensions
T6GC	B03、B05、B06、B08、B10、B12、B14、B17、B20、B22、B25、B28、B31	见轴伸尺寸 See shaft size	从泵的轴端看 View from shaft end of pump R–顺时针旋转 R–Clockwise(CW) L–逆时针旋转 L–Counterclockwise (CCW)	(从泵的轴端看) View 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，丁腈橡胶 NBR 5–S5，氟橡胶 Fluorine rubber	00：法兰螺纹 Flange thread 01：SAE法兰四螺孔见安装连接尺寸 01:SAE Flange four holes see Installation Dimensions
T7GB	B02、B03、B04、B05、B06、B07、B08、B10、B12、B15						

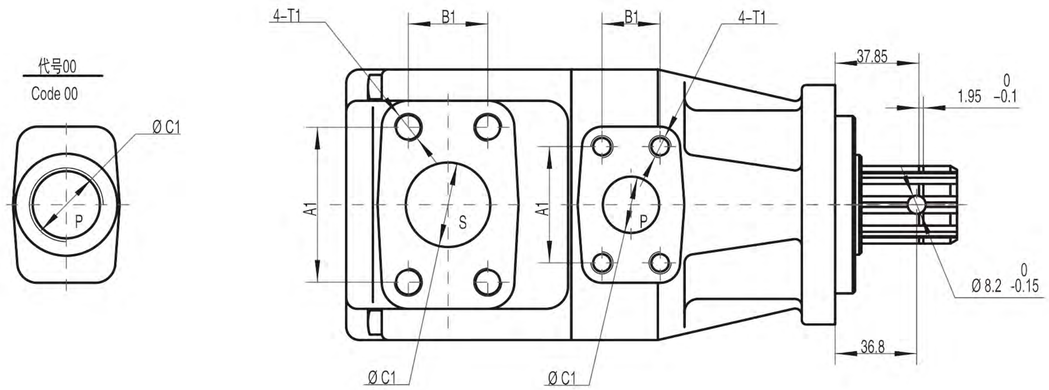
B03：排量代号中B表示双转向型配流侧板结构
B03: B means double steering side plate structure.

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
Same as equivalent T6 single pump, see T6 series single pump performance for reference.

安装连接尺寸 Installation Dimensions

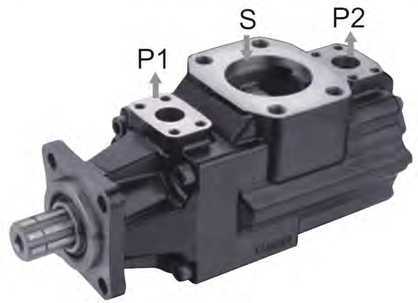
T6GC、T7GB



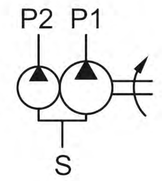


油口 Oil port			法兰 Flange	安装尺寸 (mm) Installation Dimensions (mm)				
				A1	B1	ΦC1	D1	T1口螺纹 Thread
T6GC T7GB	P	01：1"	F08	26.2	52.4	25.4	76.2	3/8"–16UNCx19.0
		00：1"BSPP	–	–	–	1"BSPP	79.5	–
	S	1–1/2"	F12	35.7	69.9	38.1	76.2	1/2"–13UNCx22.4

T6GCC、T67GCB、T7GBB系列双联泵
T6GCC、T7GCB、T7GBB Series Double Vane Pumps



液压符号



型号说明 Model Designation

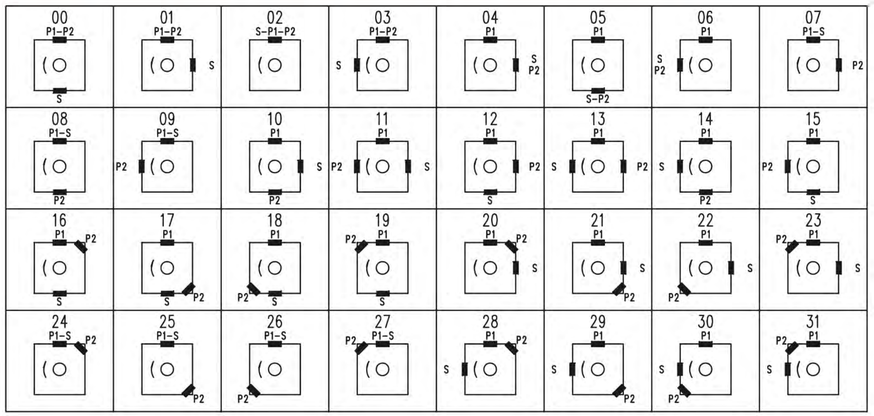
T6GCC	–B25	–B17	–6	R	02	–B	1	10
系列号 Series	轴端泵排量代号 Shaft end pump displacement	盖端泵排量代号 Cover end pump displacement	轴伸形式 Shaft type	旋转方向 Rotation	油口位置 Outlet port positions	设计号 Design number	密封等级 Sealing level	油口尺寸 Port dimensions
T6GCC	B03、B05、B06、B08、B10、B12、B14、B17、B20、B22、B25、B28、B31	B03、B05、B06、B08、B10、B12、B14、B17、B20、B22、B25、B28、B31	见轴伸尺寸 See shaft size	从泵的轴端看 View from shaft end of pump R–顺时针旋转 R–Clockwise(CW) L–逆时针旋转 L–Counterclockwise (CCW)	见下图 See pic below	B	1–S1，丁腈橡胶 NBR 5–S5，氟橡胶 Fluorine rubber	00、01、10、11，见安装连接尺寸 00、01、10、11, 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						
T7GBB	B02、B03、B04、B05、B06、B07、B08、B10、B12、B15	B02、B03、B04、B05、B06、B07、B08、B10、B12、B15						

B03：排量代号中B表示双转向型配流侧板结构
B03: B means double steering side plate structure.

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
Same as equivalent T6 single pump, see T6 series single pump performance for reference.

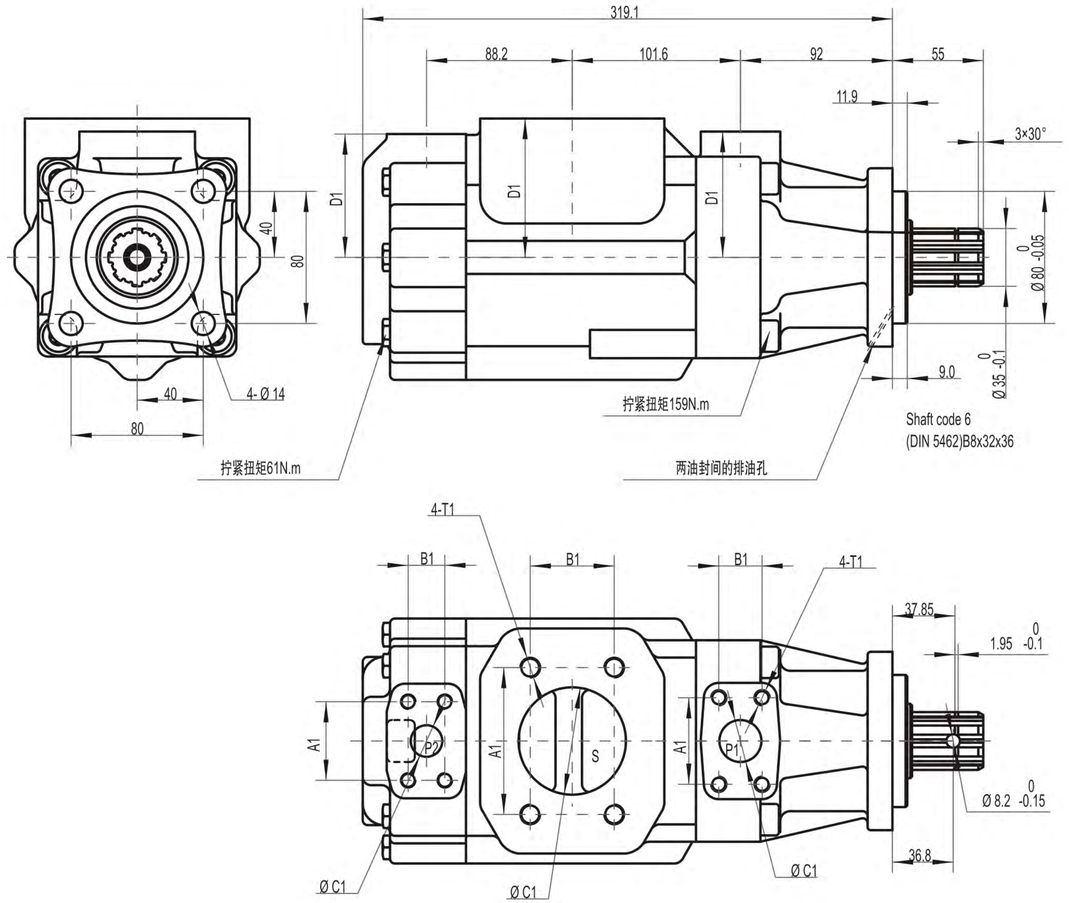
油口位置(从泵的轴端看) Port positions (Views from shaft end of pump)

T6GCC
T7GBB
T67GCB



安装连接尺寸 Installation Dimensions

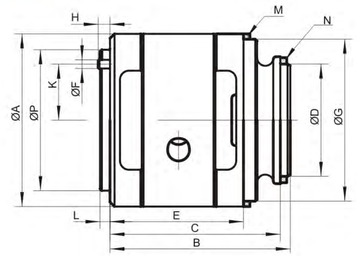
T6GCC、T67GCB、T7GBB

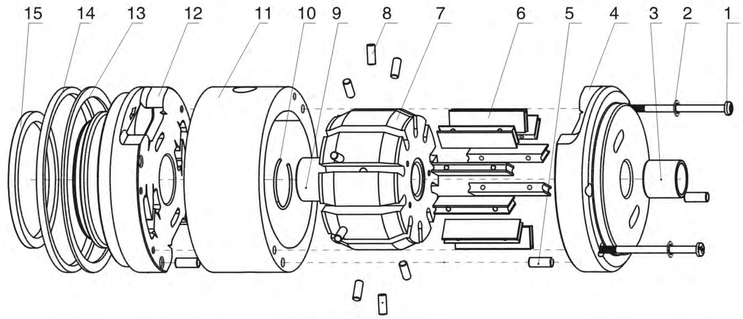


油口 Oil port			法兰 Flange	安装尺寸 (mm) Installation Dimensions (mm)				
				A1	B1	ΦC1	D1	T1口螺纹 Thread
T6GCC T67GCB T7GBB	P1	1"	F08	26.2	52.4	25.4	76.2	3/8"–16UNCx19.0
	P2	01&11：3/4"	F06	22.2	47.6	19.0	76.2	3/8"–16UNCx19.0
		00&10：1"	F08	26.2	52.4	25.4	74.7	
	S	10&11：2–1/2"	F20	50.8	88.9	63.5	84.1	1/2"–13UNCx23.9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

T6、T7系列泵芯 T6、T7 Series Cartridges







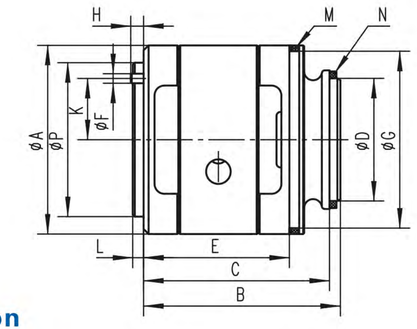
序号	名称	数量	序号	名称	数量	序号	名称	数量
1	一字槽盘头螺钉	2	6	叶片	10 or 12	11	定子	1
2	内齿锁紧垫圈	2	7	转子	1	12	压力侧板	1
3	滑动轴承	1	8	柱销	10 or 12	13	挡圈	1
4	侧板	1	9	密封套	1	14	矩形密封圈	1
5	销	3	10	孔用钢丝挡圈	1	15	矩形密封圈	1

型号说明Model Designation

前泵芯 Front Cartridge	T6DC	–045	R	1
泵芯名称 Cartridge	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	T7B(S)、T7BB(S)、T67CB、T67DB、T67EB、T67DBB、T67DCB、T67DDBS、T67EDB	B02、B03、B04、B 05、B06、B07、B08、B10、B12、B15	从泵的轴端看 View from shaft end of pump R–顺时针旋转 R–Clockwise(CW) L–逆时针旋转 L–Counterclockwise (CCW)	1–S1，丁腈橡胶 NBR 5–S5，氟橡胶 Fluorine rubber
前泵芯 (双联泵或三联泵轴端泵芯) Cartridge kit of double pump and triple pump shaft end	T7D(S)、T7DB(S)、T7ED(S)、T67DC、T67ED	B14、B17、B20、B22、B24、B28、B31、B35、B38、B42		
	T7E(S)、T7EE(S)、T7ED(S)	042、045、050、052、054、057、062、066、072、085		
中泵芯 (三联泵中间泵芯) Medium cartridge kit of triple pump	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		
后泵芯 (双联泵或三联泵盖端泵芯) Cartridge kit of double pump and triple pump cover end	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、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
B03: B means double steering side plate structure.

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
Same as equivalent T6 single pump, see T6 series single pump performance for reference.



型号说明 Model Designation

泵芯名称 Cartridge	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T6C、T7B(S)	Φ15.90	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
前泵芯T6CC、T67CB、T7BB(S)	无滑动轴承													
后泵芯T6CC、T7BB(S)、T67CB、T6DCC、T67DBB、T67DCB、T6DDCS、T67DDBS、T6EDC(S)、T67EDB	Φ19.05													
后泵芯T6DC、T7DB(S)、T7EB(S)、T67DB、T67DC、T6EC、T67EC、T67EB	Φ22.225													
中泵芯T6DCC、T67DBB、T67DCB	无滑动轴承	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T6D、T7D(S)、前泵芯T6DCC、T67DBB、T67DCB	Φ22.225	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	
前泵芯T6DC、T67DB、T7DB(S)、T7DD(S)、T67DC、T6DDCS、T67DDBS	无滑动轴承													
后泵芯T6ED、T7DD(S)中泵芯T6EDC(S)、T67EDB	Φ28.6													
中泵芯T6DDCS、T67DDBS后泵芯T7DD(S)	Φ22.225													
单泵芯T6E、T7E(S)	Φ28.6	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		
前泵芯T6ED、T6EC、T67EB、T7EB(S)、T7ED(S)、T7EE(S)、T6EDC(S)、T67EDB、T67EC	无滑动轴承													

泵芯名称 Cartridge	转子内花键齿廓参数				
	齿数 Number of teeth	径节 Pitch	压力角 Pressure angle	大径 Major diameter	小径 Minor diameter
前泵芯T6CC、T7BB(S)、T67CB、中泵芯T6DCC、T67DBB、T67DCB	32	40/80	45°	21.41	19.9
单泵芯T6C、T7B(S)、后泵芯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T6D、前泵芯T6DC、T67DB、T6DCC、T67DBB、T67DCB、T6DDCS、T67DDBS、中泵芯T6EDC(S)、T67EDB、后泵芯T6ED、T7ED(S)、T7EE(S)	25	24/48	45°	28.19	25.8
中泵芯T6DDCS、T6DDBS	20	24/48	45°	22.89	20.5
单泵芯T6E、T7E(S)前泵芯T6EC、T67EB、T6ED、T6EDC(S)、T67EDB	34	24/48	45°	37.72	35.4

T6 、 T7 系列安装、使用与维护

T6 、 T7 Series Installation 、 Application and Maintenance

◇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．应对液压油液进行有效的污染控制。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．以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。

◇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．妥善保存。
要定期检查油液一眭能。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。

◇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 fo 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 μ m.filter of 70–150 μ m 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 absorbence.
Horizontal mounting is recommended to maintain necessary case fluid level,concentricity of shafts between pump and motor is important to pu mp 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 notbe big in 500 mms.
To reduce noise and vibration of system caused by tropped air,attachment flange at inlet port,all fittings and piplines 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.

◇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.
tially starting the pump after long–time unused,removing all trapped air from the system can be accomplished by loosening flange or connections.

◇Maintenance

nd 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 meet the demand,replace it and clean up tank.
Purging of filter regular is recommended.
-pability of tubing and tank are large,even if injected enough oil.Because when starting, the level ould fall ,then please add some oil. Please observe the level of oil and add some oil when needed.
o -nd flange of inlet and outlet would loose because of vibrating.please tight them.
t field service ability,when replacing the catridge,seals inside the pump
g screws,they should be treated with even force in diagonal direction.

V、VQ、V10、V20、SQP、PV2R 安装、使用与维护

V、VQ、V10、V20、SQP、PV2R Installation,Application and Maintenance

◇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17–38cst(2.5–5°E)，推荐粘度24cst。

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污染控制，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。

油泵正常工作油温：10¯60℃。

◇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．以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。

◇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．妥善保存。

要定期检查油液一眭能。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V、VQ、SQP、PV2R系列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。

◇Operating oil

Anti–wear hydraulic oil is recommended for better performance and longer life. Viscosity range: 17–38cst(2.5–5°E).

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

Operating temperature: 10¯60℃.

◇Installation

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

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 notbe big in 500 mms.

To reduce noise and vibration of system caused by tropped air,attachment flange at inlet port,all fittings and piplines 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.

◇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,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 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.

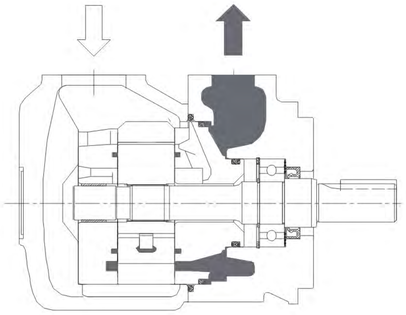
After a period of working,it is likely that the install bolt and flange of inlet and outlet would loose because of vibrating.please tight them.

The cartridge design of V、VQ、SQP、PV2R series vane pumps offers fast and efficent field service ability,when replacing the catridge,seals inside the pump should be cheched to avoid them crimping;when tighting the fastening screws,they should be treated with even force in diagonal direction.

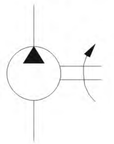
V系列单泵

V Series-single pumps





液压符号
Hydraulic Sign



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、采用子母叶片及液压平衡的结构　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 Metallurge equipment.

Features

1.Intravane 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 Instruction

(F3-)	25V	19	A	–1	A	22	R
前注 Note	系列号 Series	▼ 排量代号 Displacement	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 A-SAE 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–进油口对侧 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 form 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
	25V	10、12、14、15、17、19、21、25					
	35V	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			
	45V	42、45、50、57、60、66、75					

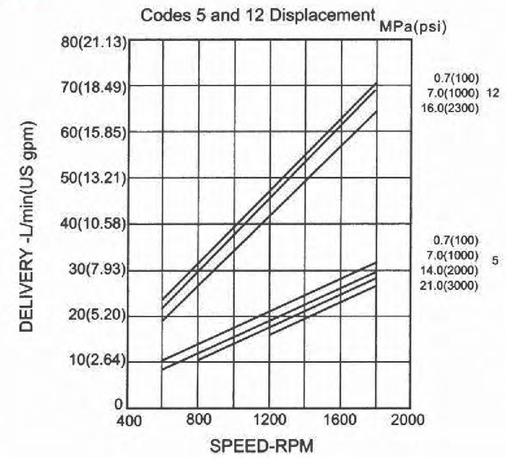
▽ 在1200r/min和0.69MPa(100psi)下的额定排量USgpm Flow(USgpm)at 1200r/min and 0.69MPa

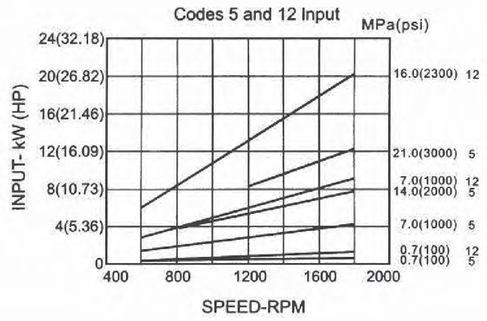
• 技术参数/Technical Data

系列号 Series	排量代号 Flow code (USgpm)	理论排量 Geometric displacement mL/r(in³/r)	使用抗磨液压油或磷酸酯 With antiwear hydraulic oil or phosphate eater fluid		使用水一乙二醇 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)	20.7		15.9				
	5	16.5(1.01)							
	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				

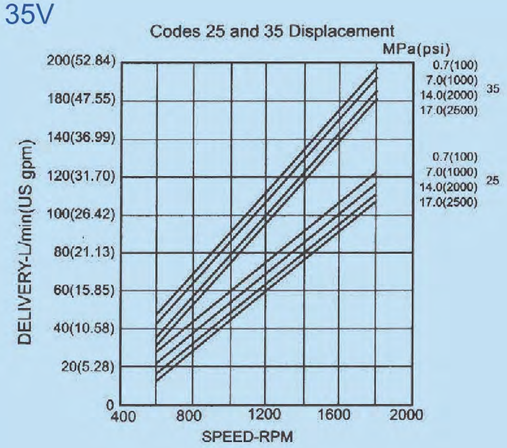
• 特性曲线[50℃，10W油(26cst)进油口压力0Mpa]
Performance Characteristics,[50℃，10W Oil (26cst)Input Pressure 0MPa]

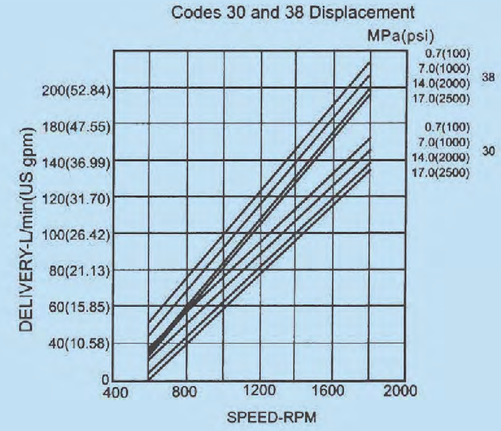
20V

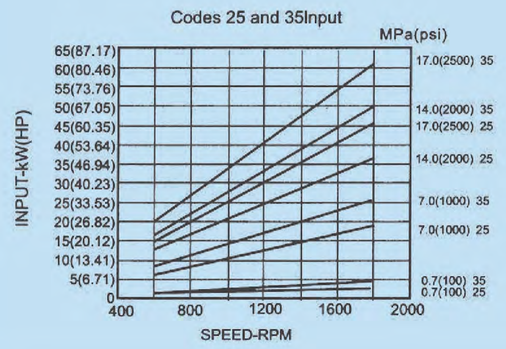


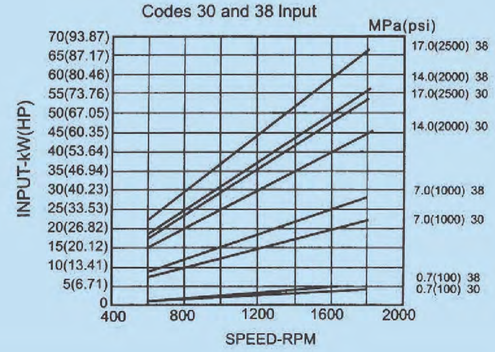


35V



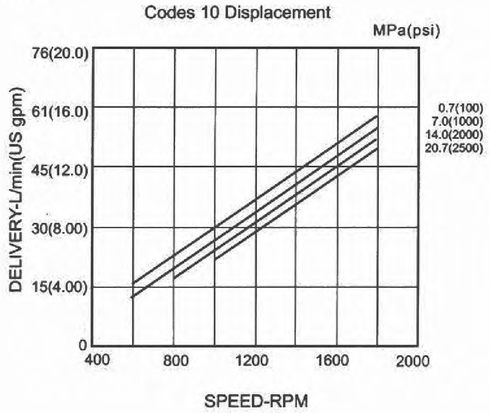


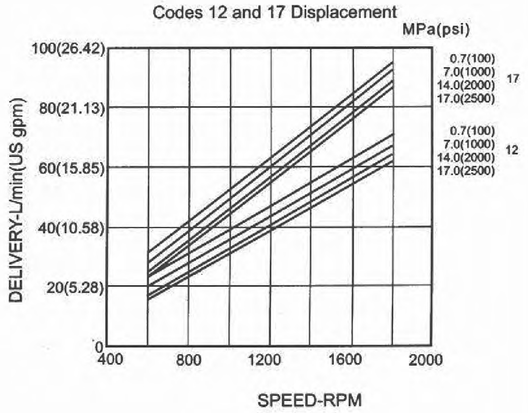


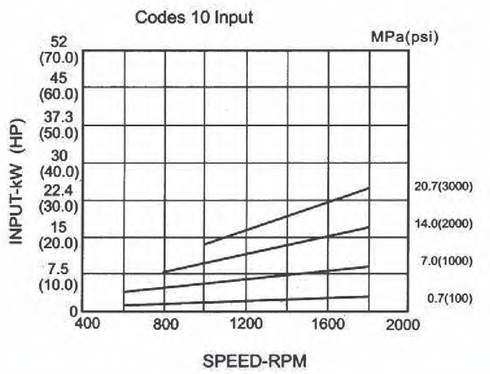


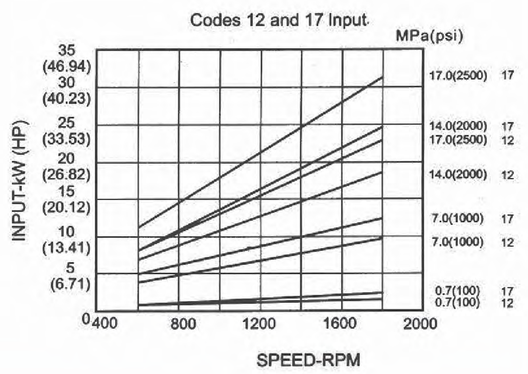
- **特性曲线[50℃，10W油(26cst)进油口压力0Mpa]**
  Performance Characteristics,[50℃，10W Oil (26cst)Input Pressure 0MPa]

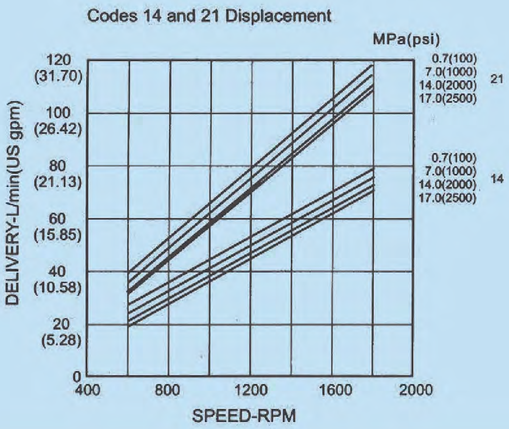
25V

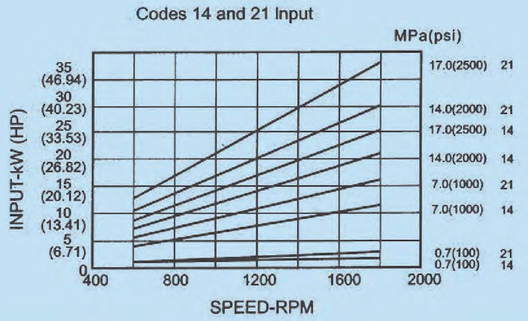






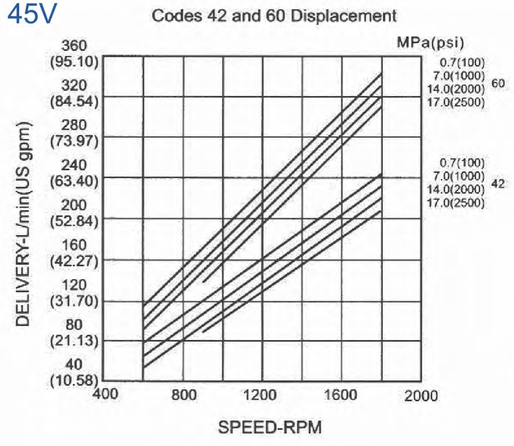


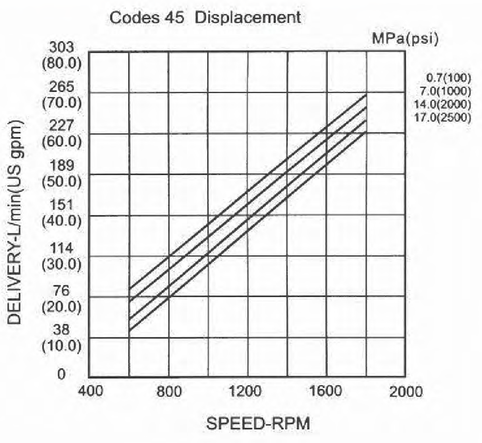


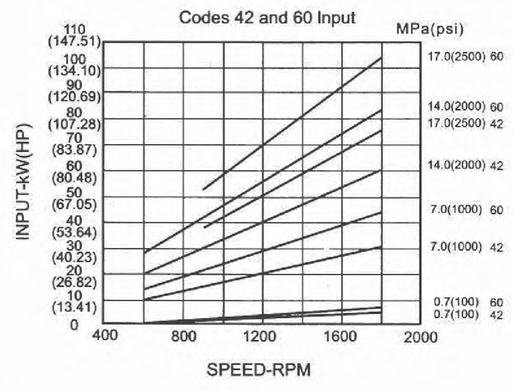


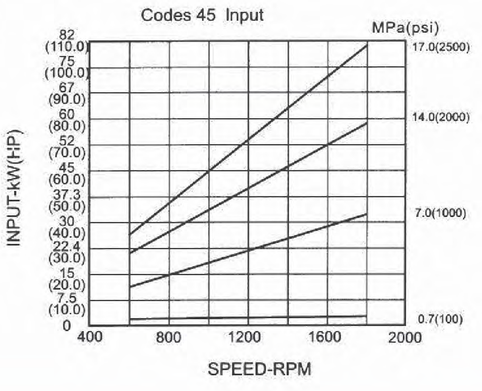
- **特性曲线[50℃，10W油(26cst)进油口压力0Mpa]**
  Performance Characteristics,[50℃，10W Oil (26cst)Input Pressure 0MPa]

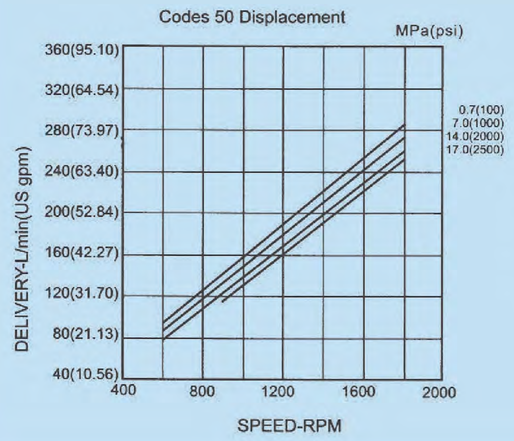
45V

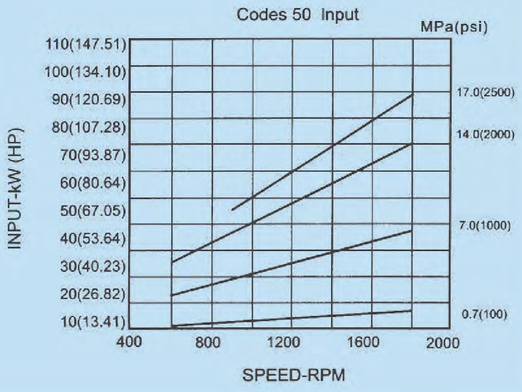






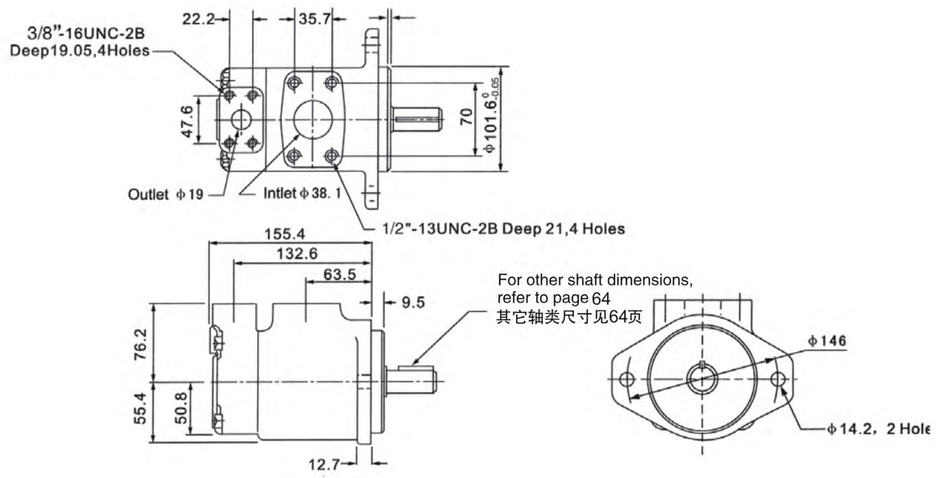




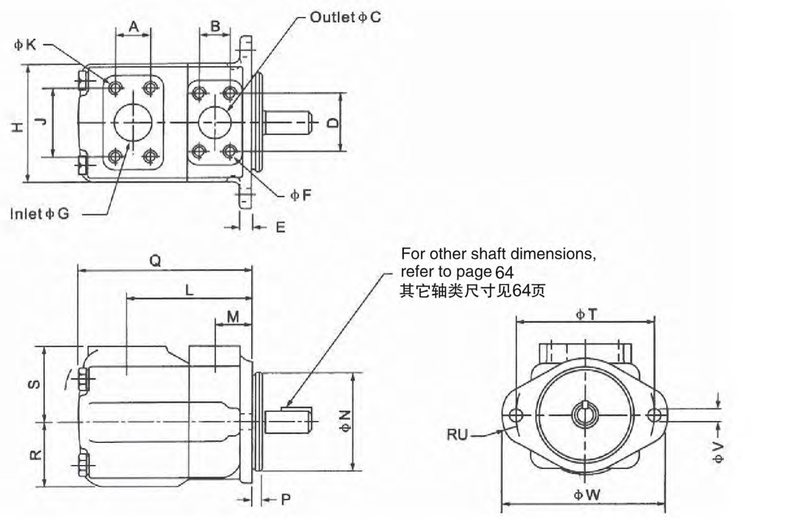


安装连接尺寸/Installation Dimensions

20V



25V,35V,45V

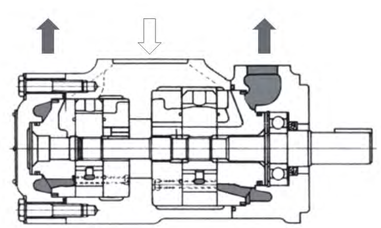


型号 Model	A	B	ØC	D	E	ØG	H	J	L	M	N	P	Q	R
25V	35.7	26.2	25.4	52.4	12.7	38.1	118	69.9	121	38.1	101.60/101.55	9.53	162.1	63.5
35V	42.9	30.2	31.8	58.7	16	50.8	140	77.8	125.5	38.1	127.00/126.95	9.53	185	69.9
45V	61.9	35.7	38.1	69.9	16	76.2	159	106.4	153	43	127.00/126/95	12.7	216	82.6

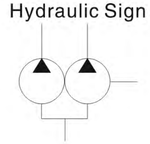
型号 Model	S	T	RU	ØV	W	ØX	ØFX螺纹深度,4孔 ØFxfull thread depth,4 holes	ØKX螺纹深度,4孔 ØKxfull thread depth,4 holes
25V	76.2	146	14	14.2	175	121	3/8-16UNC-2BX19.1	1/2-13UNC-2BX23.8
35V	82.6	181	16	17.5	213	148	7/16-14UNC-2BX22.3	1/2-13UNC-2BX22.3
45V	93.7	181	16	17.5	213	148	1/2-13UNC-2BX23.8	5/8-11UNC-2BX25.4

V系列双联泵
V Series–Double Pumps





液压符号
Hydraulic Sign



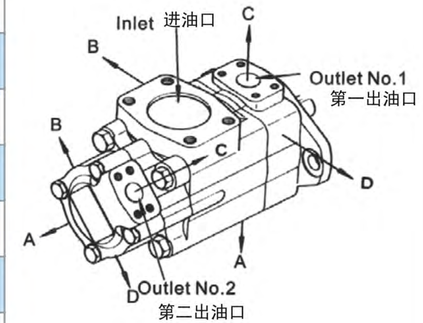
型号说明/Model Instruction

(F3-)	3525V	38	A	17	–1	AB	22	R
前注 Note	系列号 Series	▼轴端泵排量代号 Flow-Shaft end pump	油口连接 Port connection	▼盖端泵排量代号 Flow-cover end pump	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	2520V	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–平键轴Str key 151–花键轴 Spline	见下表 See below	22	（从泵的轴端看） (Viewes form 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
	3520V	21、25、30、32、35、38、45		2、3、4、5、6、7、8、9、10、11、12、14	1–平键轴 Str key 86–重型平键轴 HD Str key 11–花键轴 Spline			
	3525V	21、25、30、32、35、38、45		10、12、14、15、17、19、21、25				
	4520V	42、45、50、57、60、66、75		2、3、4、5、6、7、8、9、10、11、12、14				
	4525V	42、45、50、57、60、66、75		10、12、14、15、17、19、21、25				
	4535V	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

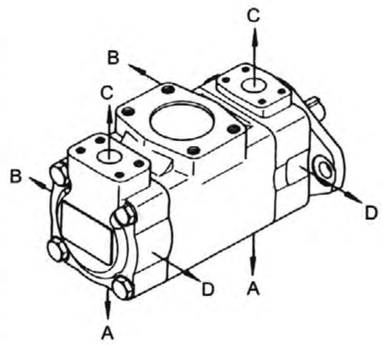
出油口位置（从泵的盖端看）/Outlet Positions(Viewed from cover end of pump)

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	第二出油口在进油口对面 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面 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



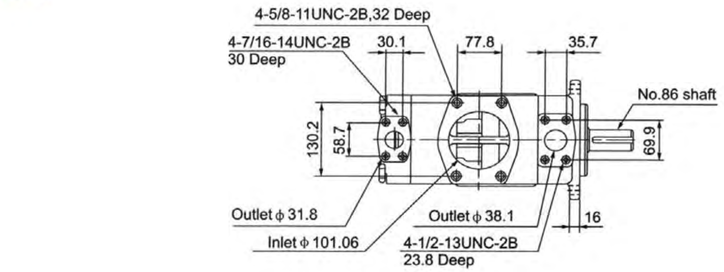
• 出油口位置（从泵的盖端看）/Outlet Positions(Viewed from cover end of pump)

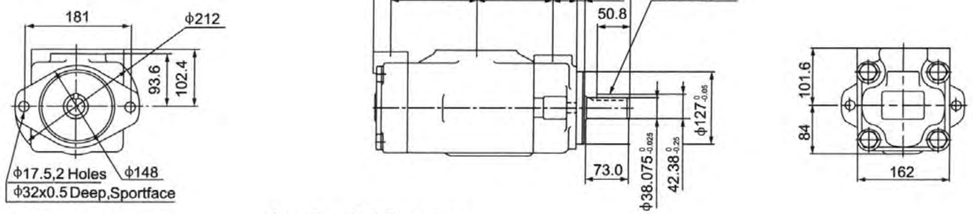
出油口位置 Outlet positions		除4535V外的所有系列 All series except 4535V	4535V
第一出油口在进油口同侧 No.1 outlet inline with inlet	CA	第二出油口在进油口逆时针转135° No.2 outlet 135° CCW from inlet	第二出油口在进油口对面 No.2 outlet opposite inlet
	CB	第二出油口在进油口逆时针转45° No.2 outlet 45° CCW from inlet	第二出油口在进油口逆时针转90° No.2 outlet 90° CCW from inlet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

4535V

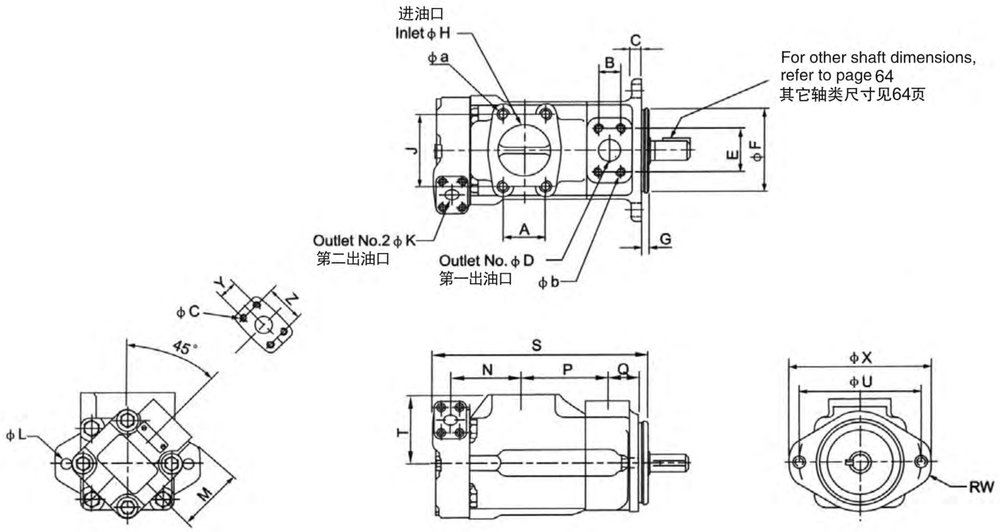




For other shaft dimensions, refer to page 64
其它轴类尺寸见64页

• 安装连接尺寸/Installation Dimensions

2520V、3520V、3525V、4520V、4525V



For other shaft dimensions, refer to page 64
其它轴类尺寸见64页

型号 Model	Øa x 螺纹深度、4孔 Øa x full thread depth,4 holes	Øb x 螺纹深度、4孔 Øb x full thread depth,4 holes	Øc x 螺纹深度、4孔 Øc x 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	ØD	E	ØF	G	ØH	J	ØK	ØL	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	ØU	ØV	RW	ØX	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

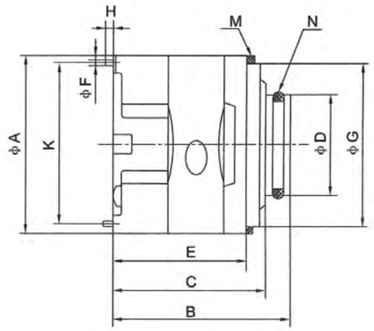
V系列泵芯
V Series-cartridge

• 型号说明/Model Instruction

(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 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	20V	2、3、4、5、6、7、8、9、10、11、12、14	（从泵的轴端看） (Viewed form 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
		25V	10、12、14、15、17、19、21、25		
		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
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
The data of relevant series ,model are unanimous. Please see V series–single pump data.





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

系列号 Series	转子内花键齿廓参数Inside spline tooth outline paramenter of rotor				
	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
VQ 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。

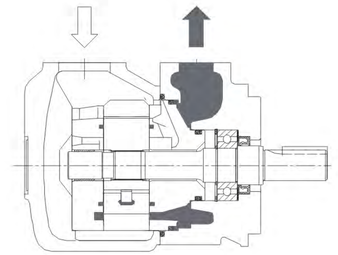
The high-pressure and high-performance Intra-vane pumps for Mobile Equipment.

Features:

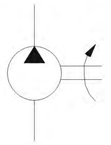
1. To adopt balanced hydraulic for the struction of Intra-vane and ten-Vane design,higher pressure,top to 21MPa.
2. To adopt floating structure for side plate,it will do a compensation for end-face clearance by automatic,so that even the pump under high pressure it can maintain a high volumetric efficiency.
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
VQ 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	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 Mountion	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) (Viewes form 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			1-平键轴Str key 86-重型平键轴HD str key 11-花键轴Spline		20	
	35VQ	21、25、30、32、35、38、45						
	45VQ	42、45、50、57、60、66、75						

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

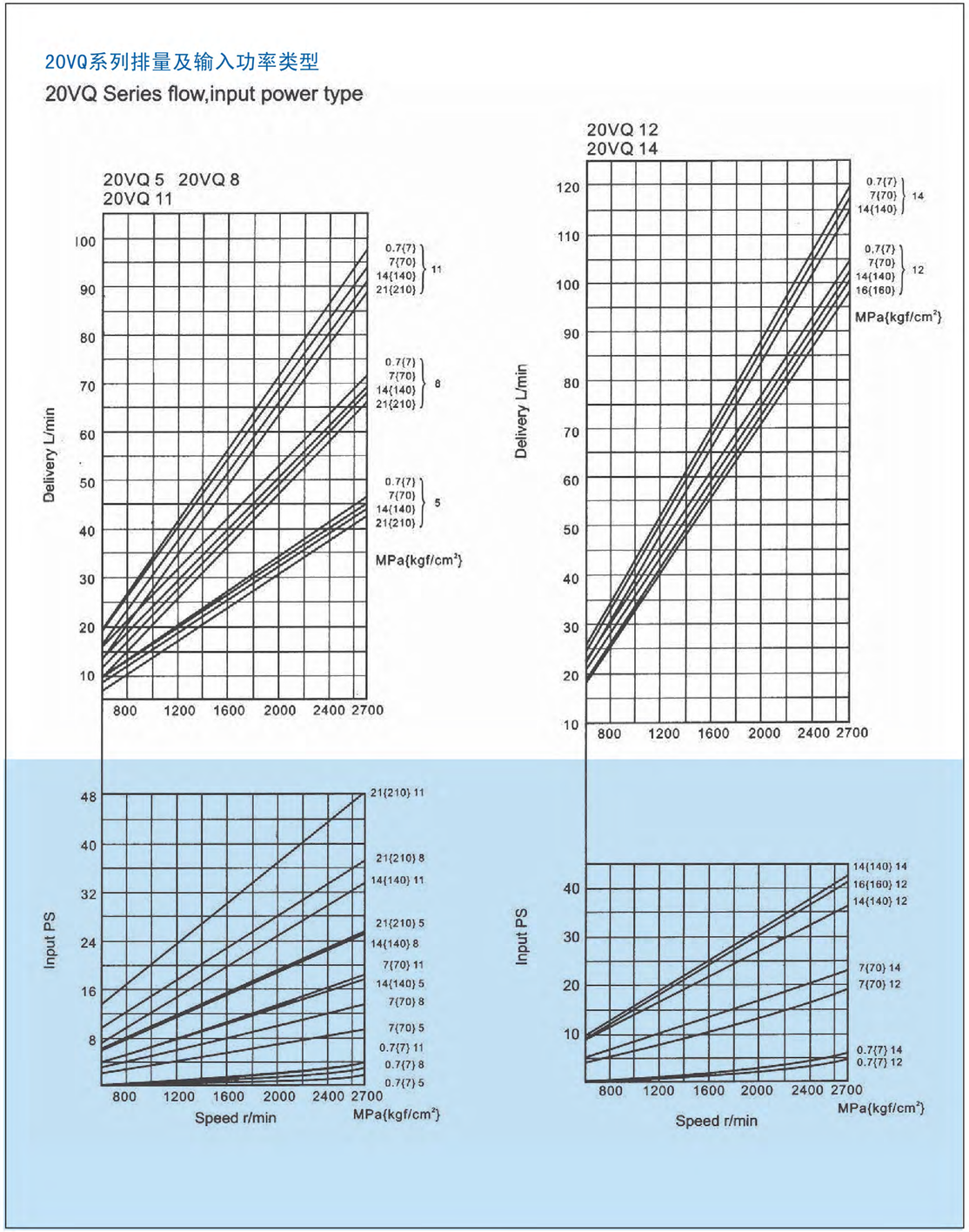
● 技术规格/Specifications

系列号 Series	排量代号 Flow code (USgpm)	理论排量 Grometric 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）
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)			
	14	43.5(2.65)			
	15	47(2.89)		2500	
	17	54(3.30)			
	19	60(3.66)			
	21	67(4.13)			
35VQ	21	67(4.13)	21	2500	600
	25	81(4.94)			
	30	95(5.80)			
	32	101(6.16)			
	35	109(6.65)		2400	
	38	119(7.26)			
	45	143(8.72)	14		
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		

● 特性曲线[50℃，10W油(26cst)进油口压力0Mpa]
Performance Characteristics,[50℃，10W Oil (26cst)Input Pressure 0MPa]

20VQ系列排量及输入功率类型

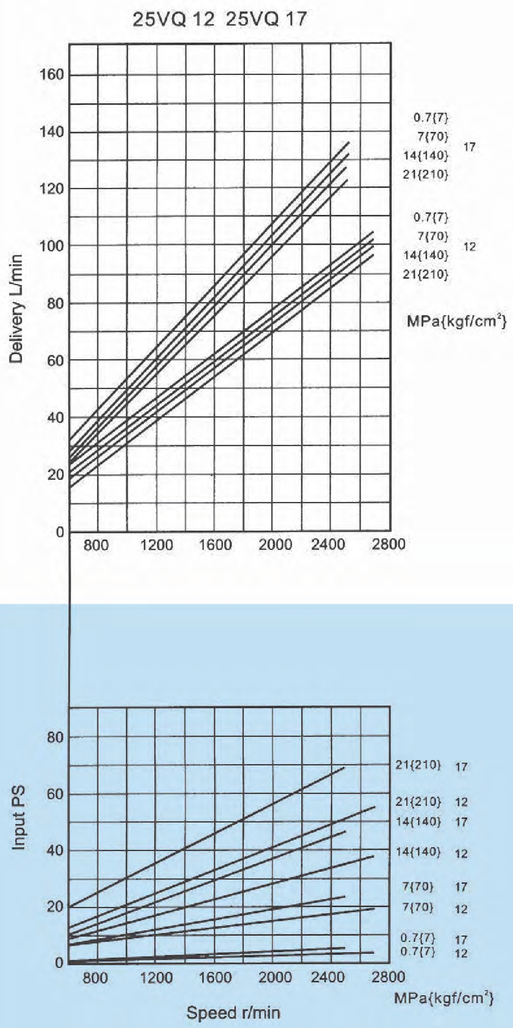
20VQ Series flow,input power type

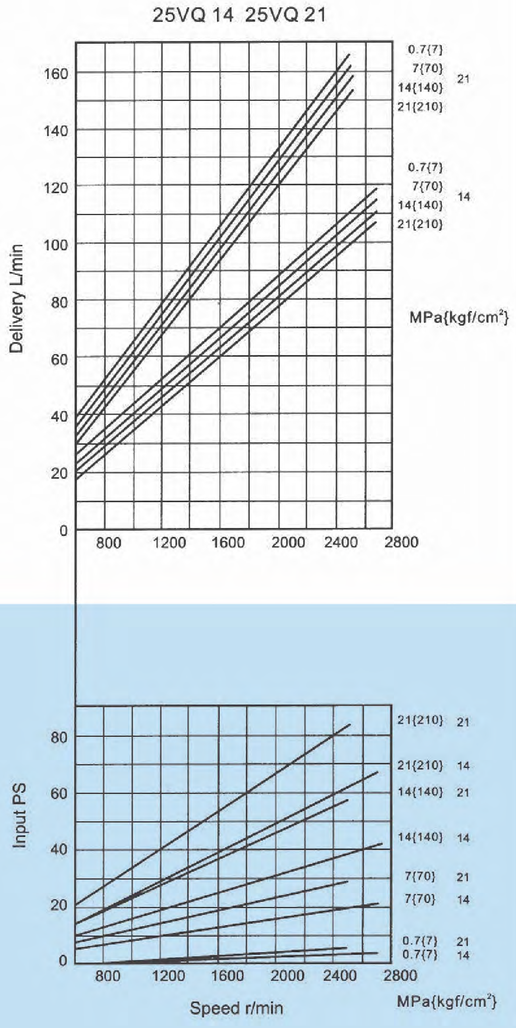


- **特性曲线[50℃，10W油(26cst)进油口压力0Mpa]**
  Performance Characteristics,[50℃，10W Oil (26cst)Input Pressure 0MPa]

25VQ系列排量及输入功率类型

25VQ Series flow,input power type

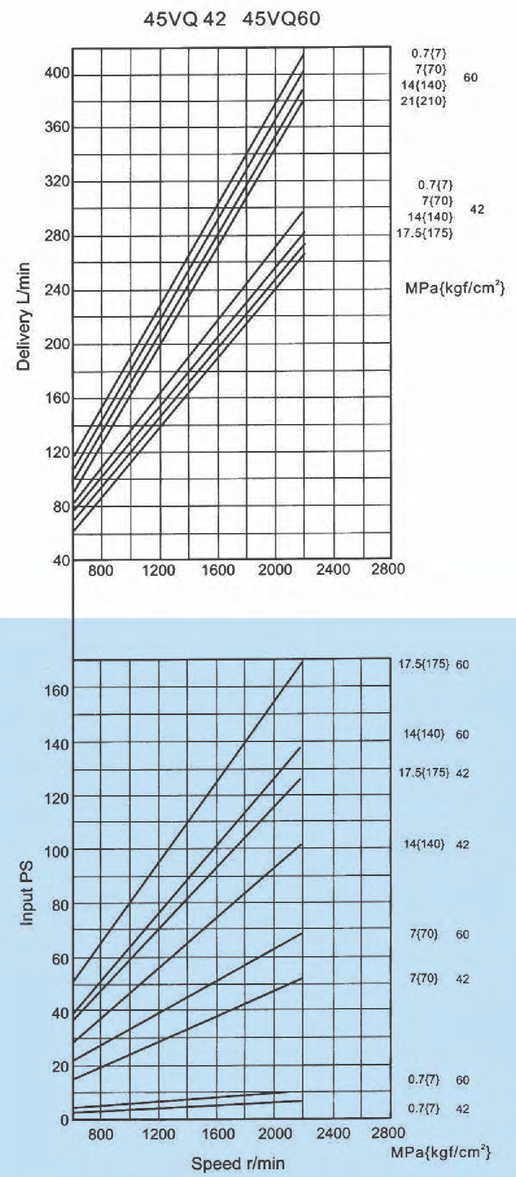


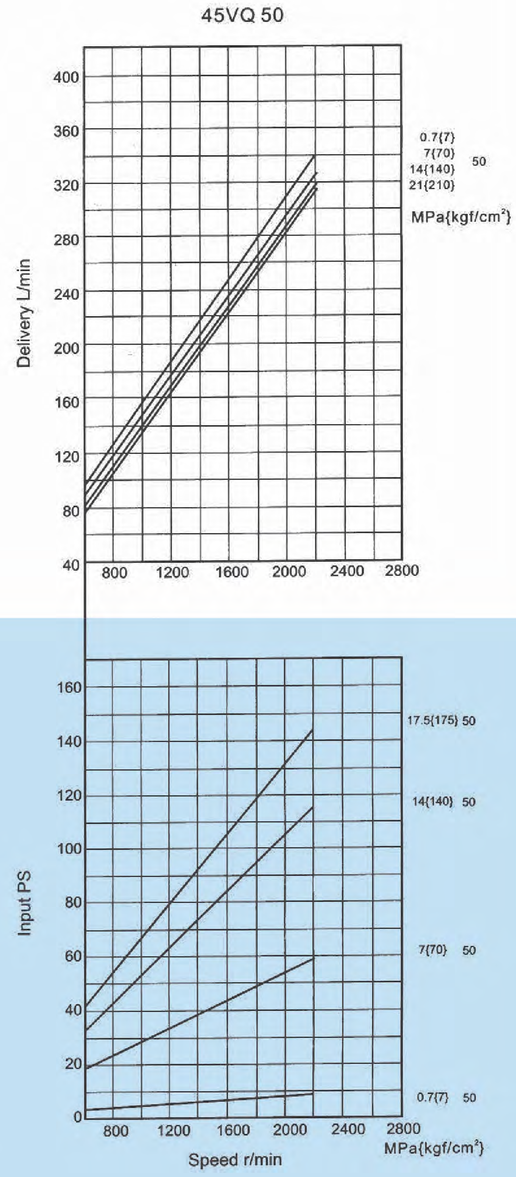


- **特性曲线[50℃，10W油(26cst)进油口压力0Mpa]**
  Performance Characteristics,[50℃，10W Oil (26cst)Input Pressure 0MPa]

45VQ系列排量及输入功率类型

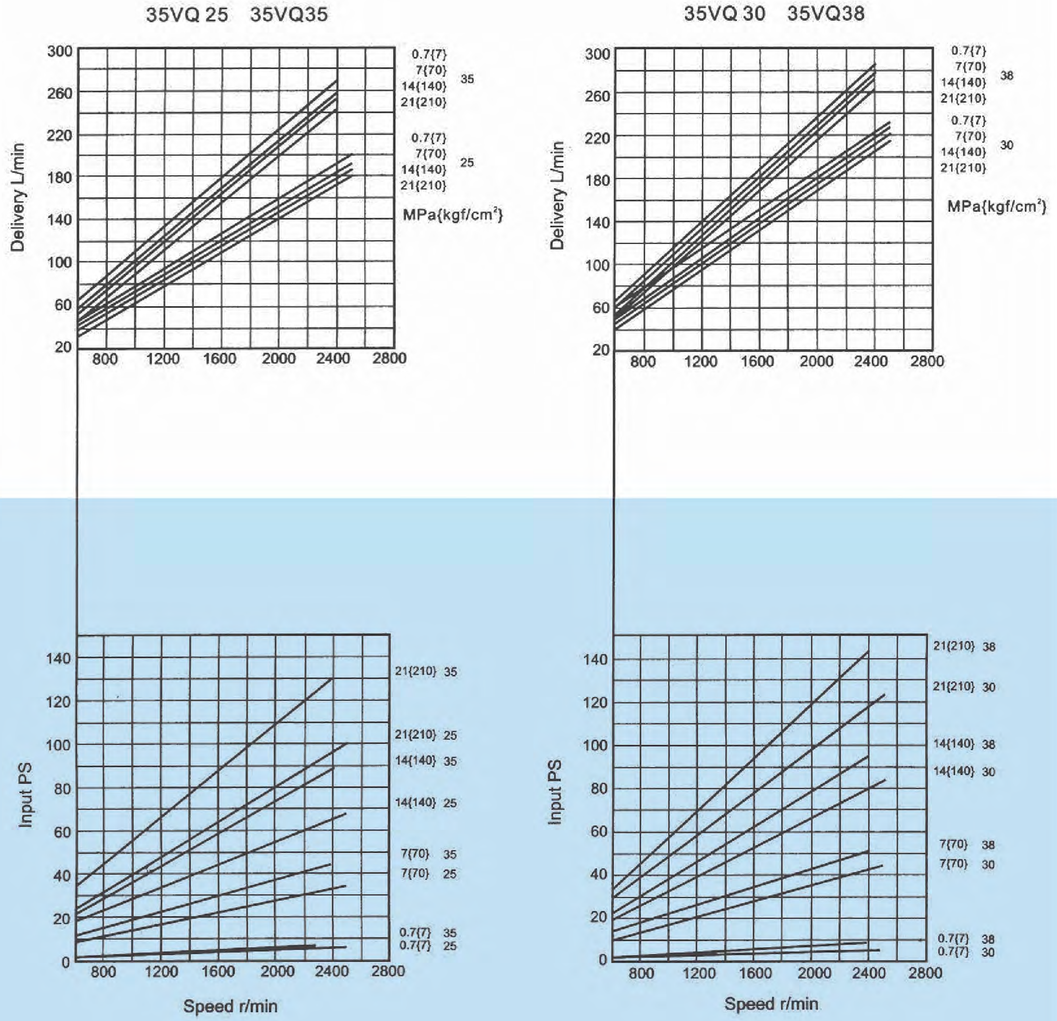
45VQ series flow input power type



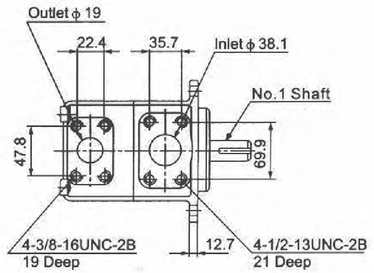


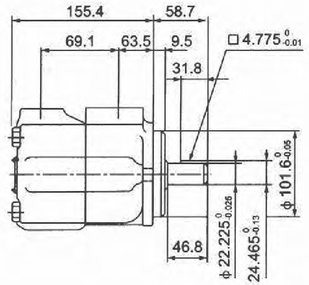
- **特性曲线[50℃，10W油(26cst)进油口压力0Mpa]**
  Performance Characteristics,[50℃，10W Oil (26cst)Input Pressure 0MPa]

35VQ系列排量及输入功率类型
35VQ series flow input power type

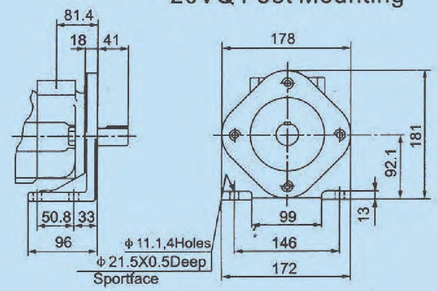


20VQ法兰安装尺寸
20VQ Flange Mounting

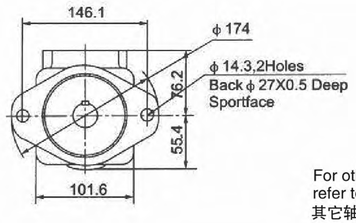




20VQ底座安装尺寸
20VQ Foot Mounting

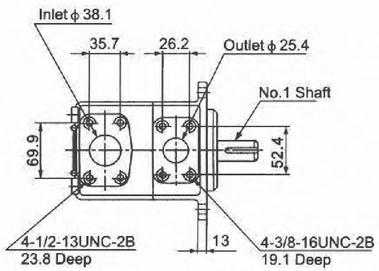


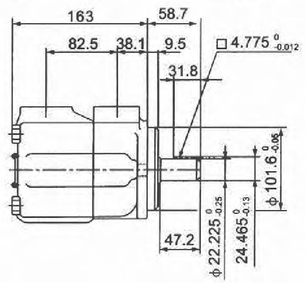
For other dimensions,refer to “Flange Mounting ” type.



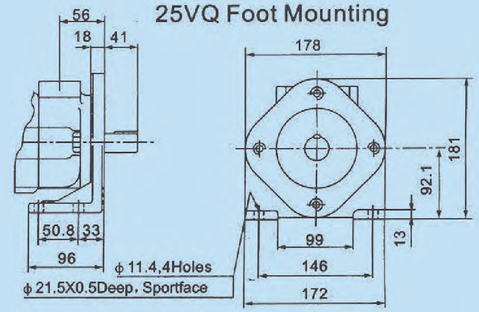
For other shaft dimensions,
refer to page 64
其它轴类尺寸见64页

25VQ法兰安装尺寸
25VQ Flange Mounting

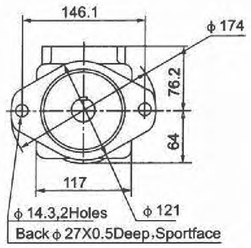




25VQ底座安装尺寸
25VQ Foot Mounting

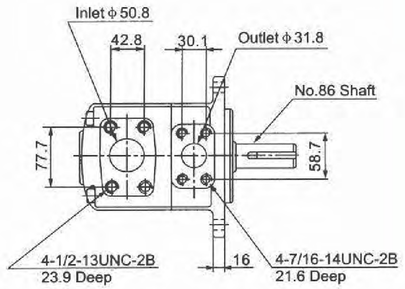


For other dimensions,refer to “Flange Mounting ” type.

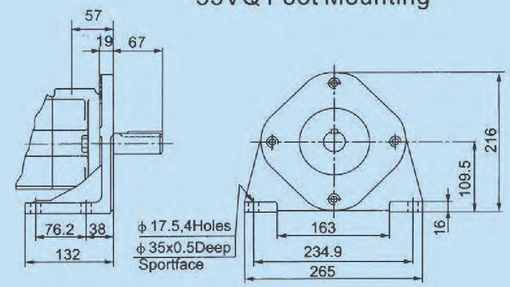


For other shaft dimensions,
refer to page 64
其它轴类尺寸见64页

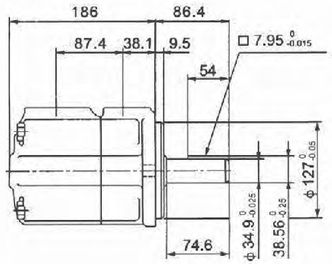
35VQ法兰安装尺寸
35VQ Flange Mounting

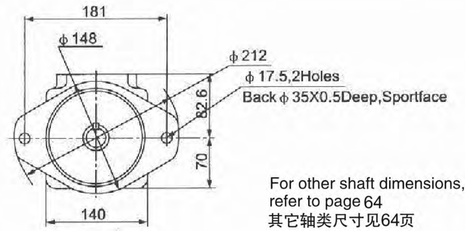


35VQ底座安装尺寸
35VQ Foot Mounting



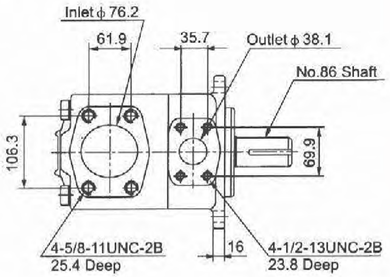
For other dimensions,refer to “Flange Mounting ” type.



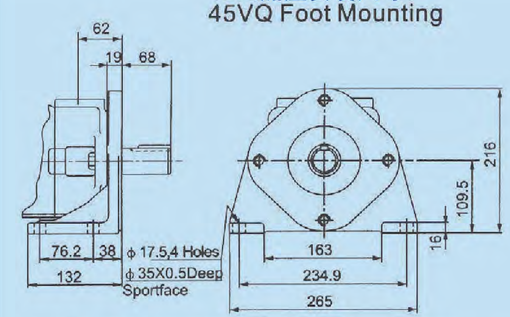


For other shaft dimensions,
refer to page 64
其它轴类尺寸见64页

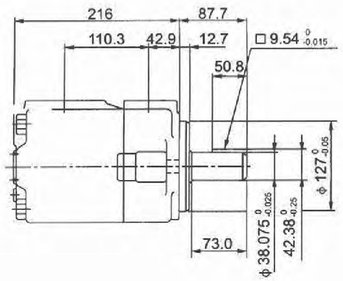
45VQ法兰安装尺寸
45VQ Flange Mounting

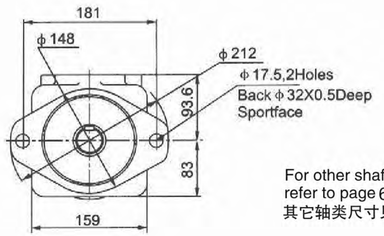


45VQ底座安装尺寸
45VQ Foot Mounting



For other dimensions,refer to “Flange Mounting ” type.

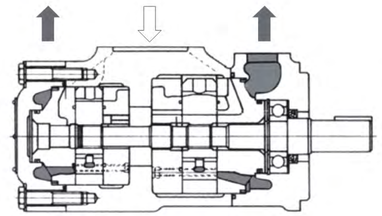




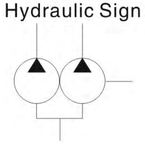
For other shaft dimensions,
refer to page 64
其它轴类尺寸见64页

VQ系列双联泵
VQ Series double Pumps





液压符号
Hydraulic Sign



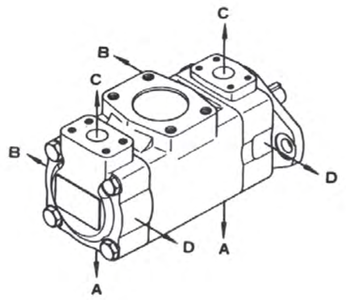
● 型号说明/Model Instruction

(F3-)	3525VQ	38	A	17	(F)	-1	AB	20	R
前注 Note	系列号 Series	▲轴端泵排量代号 Flow-shaft end Pump	油口连接 Port connections	▲盖端泵排量代号 Flow-cover end Pump	安装形式 Installation type	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	2520VQ	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	无标记 No-marking -法兰安装型 Flange Mounting F-脚座安装型 F-Foot Mountion	1-平键轴Str key 151-花键轴spline 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) (Viewes form 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
	3520VQ	21、25、30、32、35、38、45		2、3、4、5、6、7、8、9、10、11、12、14					
	3525VQ	21、25、30、32、35、38、45		10、12、14、15、17、19、21、25					
	4520VQ	42、45、50、57、60、66、75		2、3、4、5、6、7、8、9、10、11、12、14					
	4525VQ	42、45、50、57、60、66、75		10、12、14、15、17、19、21、25					
	4535VQ	42、45、50、57、60、66、75		21、25、30、32、35、38、45					

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

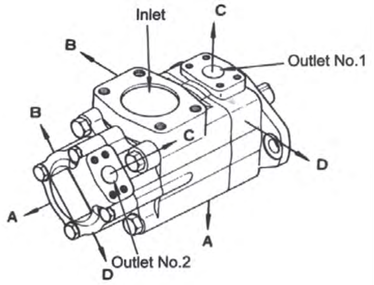
● 出油口位置(从泵的盖端看) /Outlet positions(Viewed from cover end of pump)

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	第二出油口在进油口对面 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面 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



○ 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

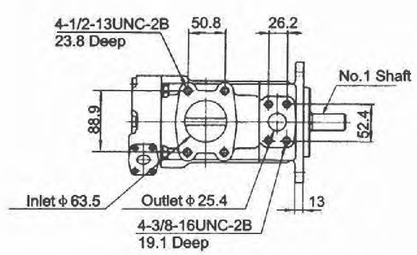


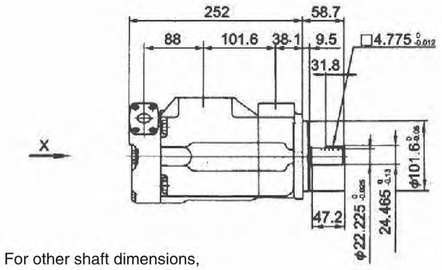
○ 产品重量 / Product Weight

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

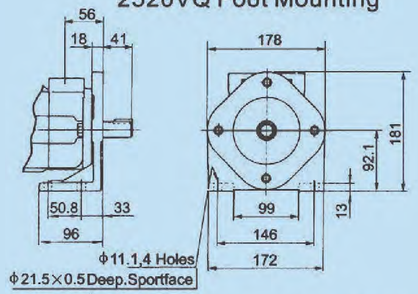
2520VQ法兰安装尺寸 2520VQ Flange Mounting



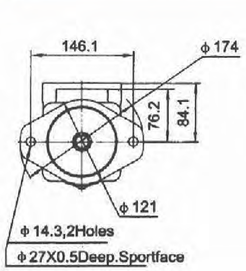


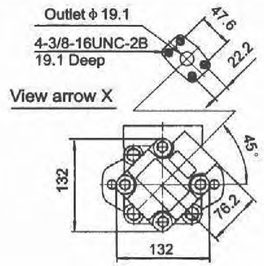
For other shaft dimensions, refer to page 64
其它轴类尺寸见64页

2520VQ底座安装尺寸 2520VQ Foot Mounting

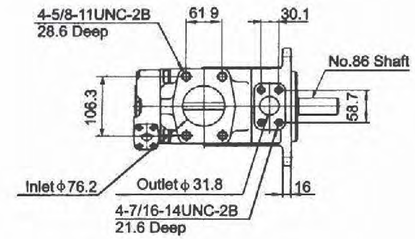


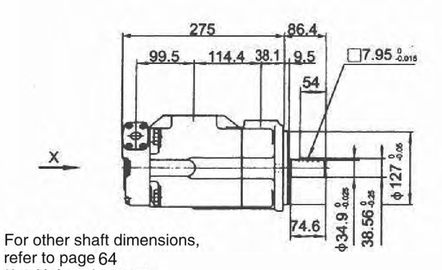
For other dimensions,refer to "Flange Mounting" type.





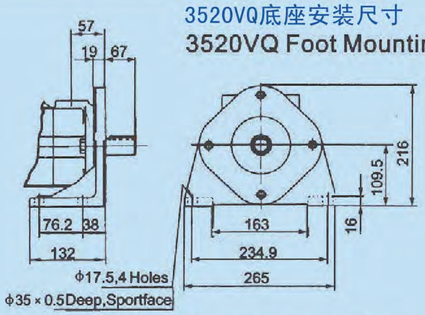
3520VQ法兰安装尺寸 3520VQ Flange Mounting



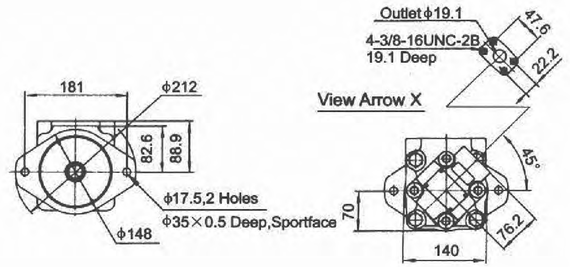


For other shaft dimensions, refer to page 64
其它轴类尺寸见64页

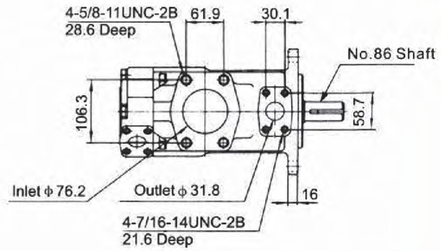
3520VQ底座安装尺寸 3520VQ Foot Mounting

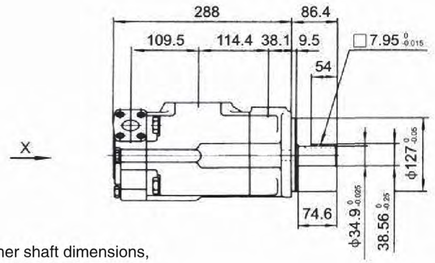


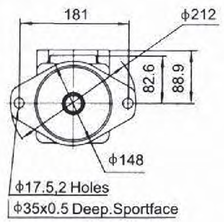
For other dimensions,refer to "Flange Mounting" type.

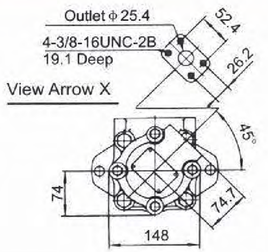


3525VQ法兰安装尺寸
3525VQ Flange Mounting



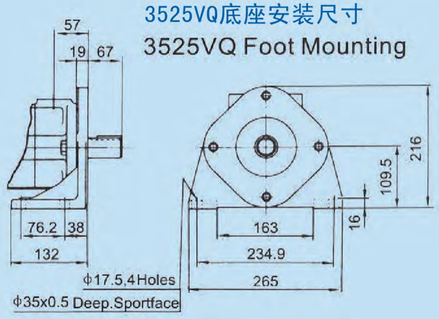






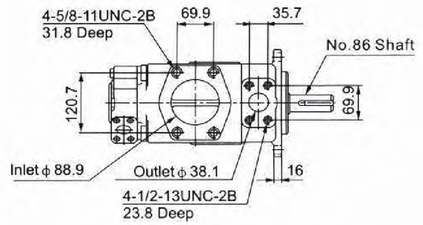
For other shaft dimensions,
refer to page 64
其它轴类尺寸见64页

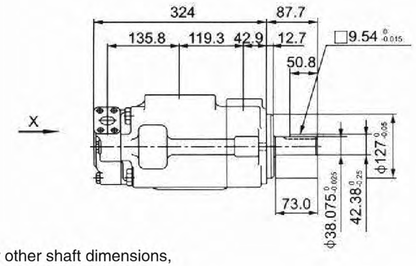
3525VQ底座安装尺寸
3525VQ Foot Mounting

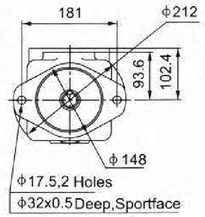


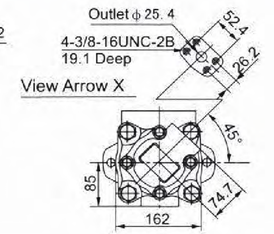
For other dimensions,refer to "Flange Mounting" type.

4525VQ法兰安装尺寸
4525VQ Flange Mounting



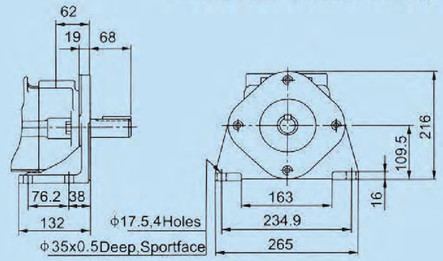






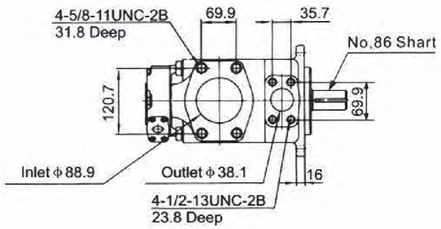
For other shaft dimensions,
refer to page 64
其它轴类尺寸见64页

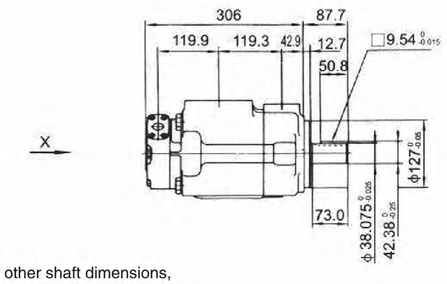
4525VQ底座安装尺寸
4525VQ Foot Mounting

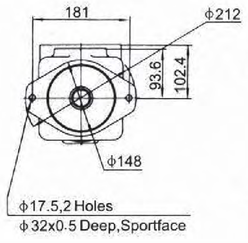


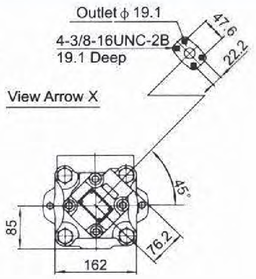
For other dimensions,refer to "Flange Mounting" type.

4520VQ法兰安装尺寸
4520VQ Flange Mounting



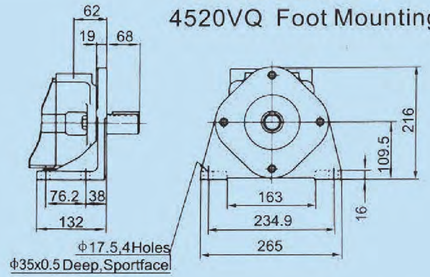






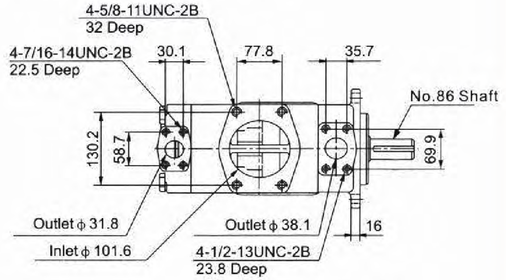
For other shaft dimensions,
refer to page 64
其它轴类尺寸见64页

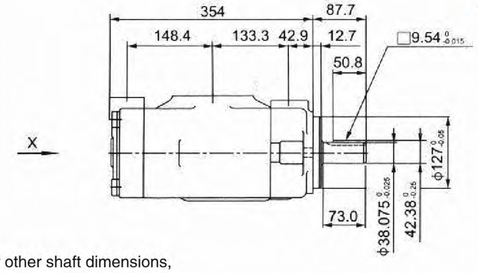
4520VQ底座安装尺寸
4520VQ Foot Mounting

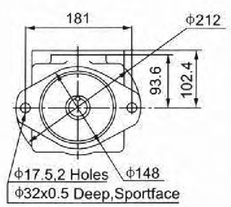


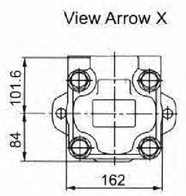
For other dimensions,refer to "Flange Mounting" type.

4535VQ法兰安装尺寸
4535VQ Flange Mounting



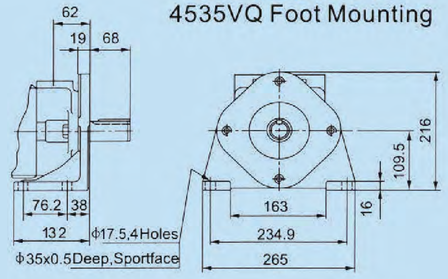






For other shaft dimensions,
refer to page 64
其它轴类尺寸见64页

4535VQ底座安装尺寸
4535VQ Foot Mounting



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

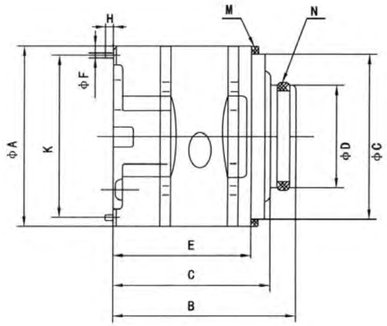
VQ系列泵芯
VQ Series cartridge

○ 型号说明/Model Instruction

(F3-)	PC-	25VQ	19	R	10
前注 Note	泵芯标记 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、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	2、3、4、5、6、7、8、9、10、11、12、14	(从泵的轴端看)(Viewes form 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
		25VQ	10、12、14、15、17、19、21、25		
		35VQ	21、25、30、32、35、38、45		
		45VQ	42、45、50、57、60、66、75		

注：在1200r/min和0.69MPa(100psi)下的额定排量/ USgpm Flow (USgpm) at 1200r/min and 0.69MPa
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
The data of relevant series ,model are unanimous.Please see VQ series-single pumps data





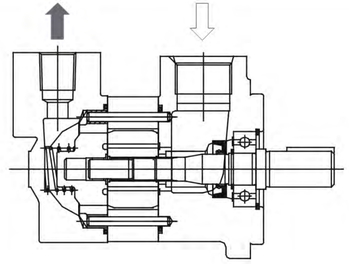
○ 技术规格/Specifications

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

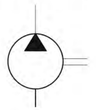
系列号 Series	转子内花键齿廓参数 Inside spline tooth outline parameter of rotor				
	齿数 Number of teeth	径节 Pitch	压力角 Pressure angle	大径 Major diameter	小径 Minor diameter
20VQ	30	48/96	45°	16.617	15.56
25VQ	40	48/96	45°	21.9	20.86
35VQ	37	40/80	45°	24.38	23.10
45VQ	14	12/24	30°	32.59	27.6

V10、20 系列叶片泵
V10、20 Series Vane Pumps





液压符号
Hydraulic Sign



○ 型号说明/Model Designation

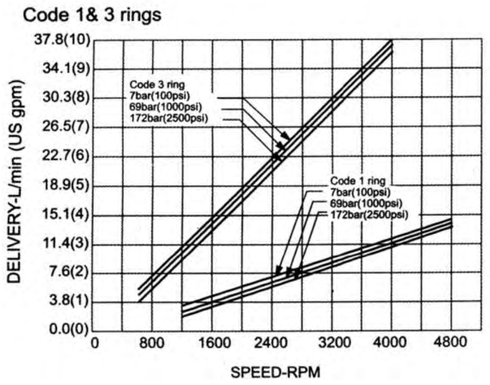
(F3-)	V10	-P	7	S	-1	C	20	-L
前注 Note	系列号 Series	油口联接 Inlet Connection	排量代号 Displacement	油口连接 Outlet Connection	轴伸形式 Shaft Type	出油口位置 Outlet positions	设计号 Design number	旋转方向 Rotation Direction
Water-oil emulsons Water glycol fluid F3 phosphate ester fluid	V10	P-1/2" NPT Thread S-0.750-16 Straight Thread, 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- Key Straight Shaft 11- Spline Shaft 38-11teeth -3/4" outside spline shaft 62- spline shaft(only for V20)	(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	20	(从泵的轴端看)(Viewes form 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
	V20	P-1/2" NPT Thread S-0.750-16 Straight Thread, B-G1" Thread	6,7,8,9,10,11,12,13	P-3/4" NPT Thread S-1.1875-12 Thread B-G1/4" Thread			10	

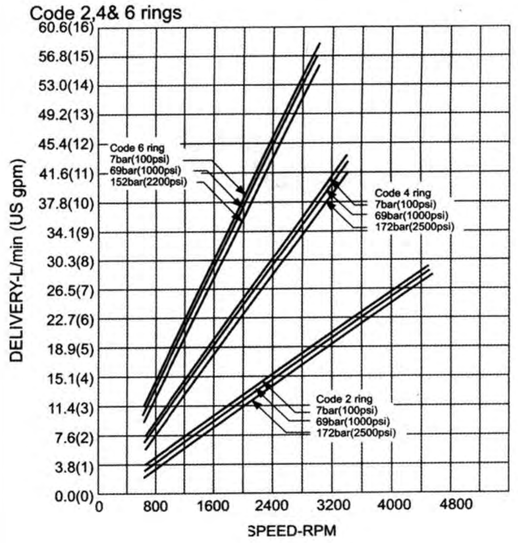
○ 技术参数/Technical Date

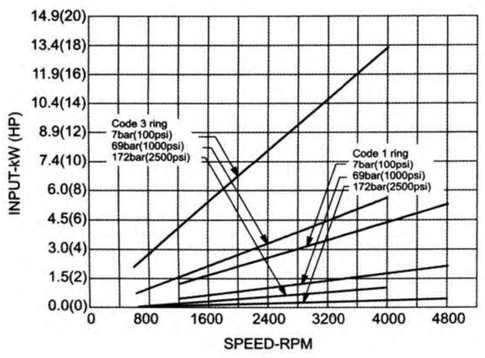
系列号 Series	排量代号 Displacement code	几何排量 Geometric displacement mL/r	使用抗磨液压油或磷酸酯液 With antiwear hydraulic oil or phosphate eater fluid		使用水乙二醇液 With water glycol fluid		使用油包水乳化液 With water-oil emulsions	
			最高压力MPa Max. pressure	最高转速r/min Max. speed	最高压力MPa Max. pressure	最高转速r/min Max. speed	最高压力MPa Max. 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		3400				
	5	16.4		3200				
	6	19.5	15.2	3000			10.9	
	7	22.8	13.8	2800				
V20	6	19.5	17.2	3400	12.4	1800	10.9	1800
	7	22.8		3000				
	8	26.5		2800				
	9	29.7						
	10	30.0						
	11	36.4		2500	10.9		9.3	
	12	39	15.2	2400				
	13	42.4						

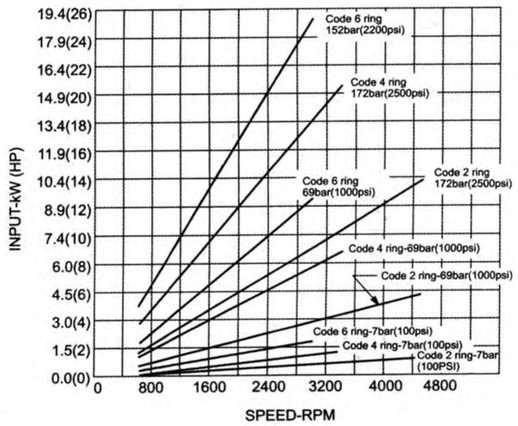
• 特性曲线[50℃，32cst油，进油口压力0Mpa]
Performance Characteristics,[50℃，32cst Oil，Input Pressure 0MPa]

◇ V10



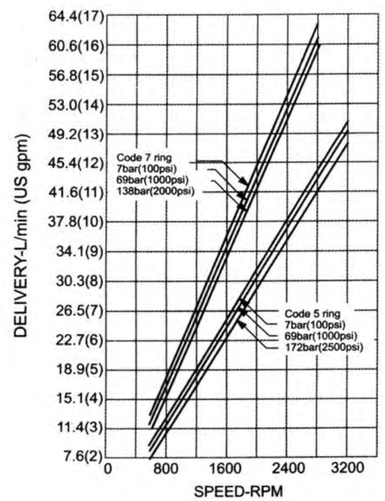


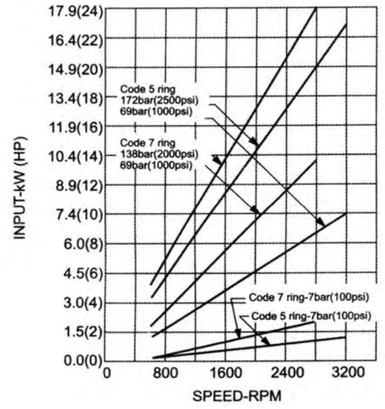




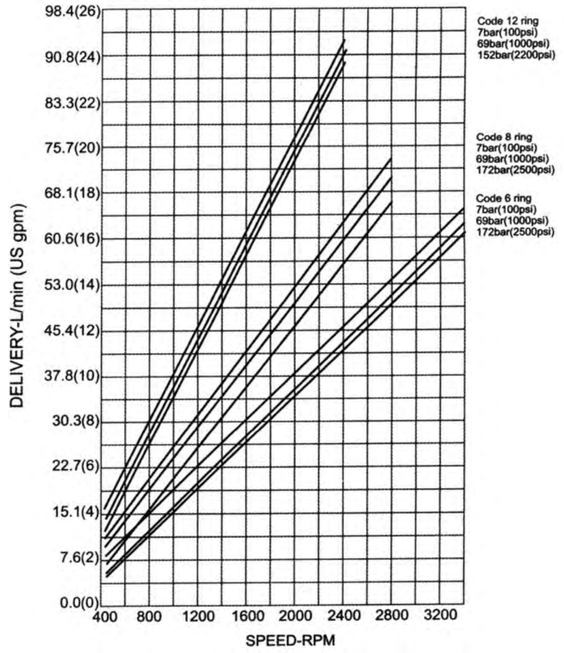
• 特性曲线[50℃，32cst油，进油口压力0Mpa]
Performance Characteristics,[50℃，32cst Oil，Input Pressure 0MPa]

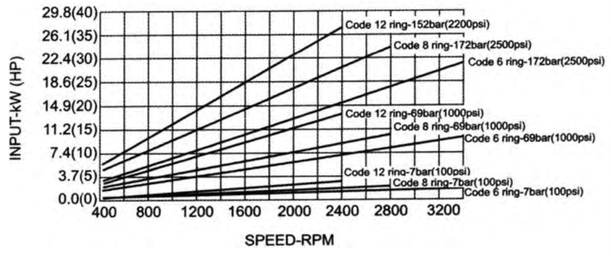
◇ V10





◇ V20

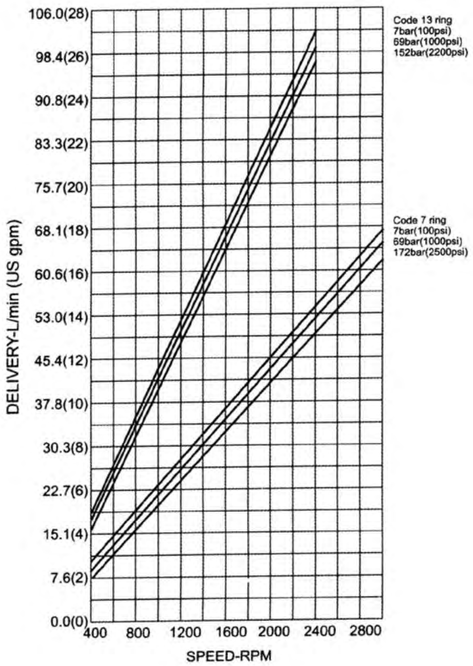




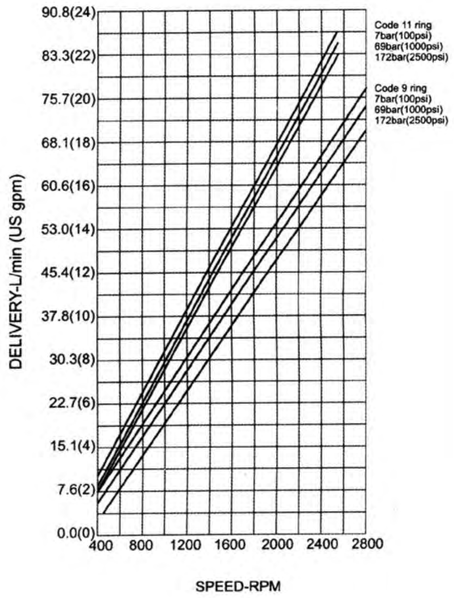
- **特性曲线[50℃，32cst油，进油口压力0Mpa]**
  Performance Characteristics,[50℃，32cst Oil，Input Pressure 0MPa]

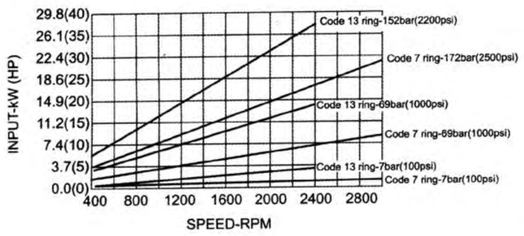
◇ V20

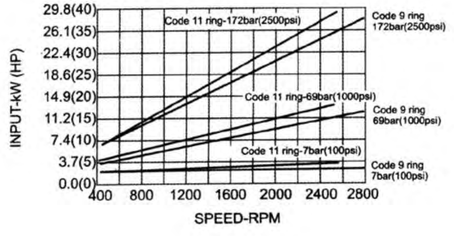
Code 7 &13 rings



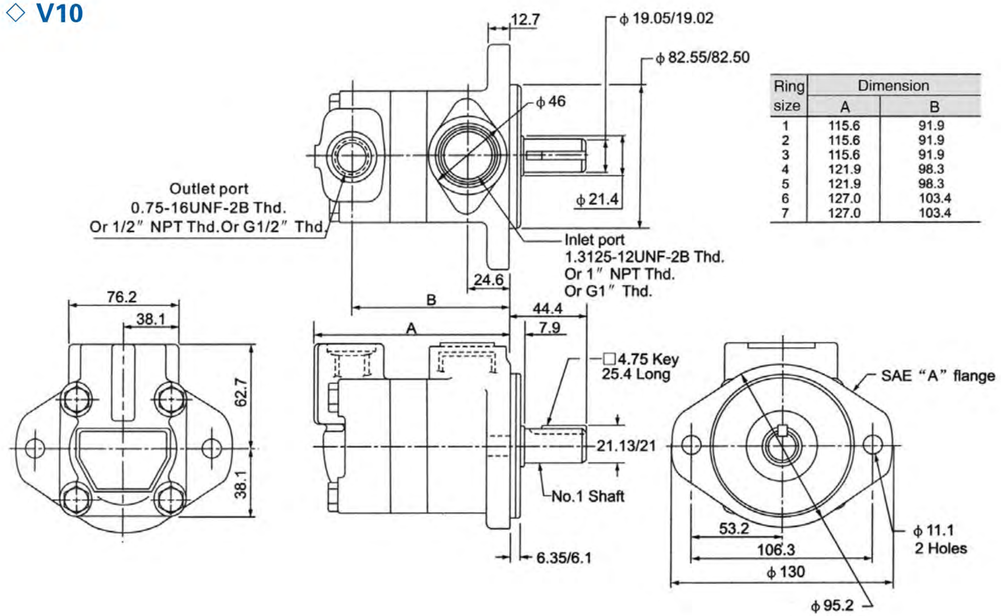
Code 9 &11 rings





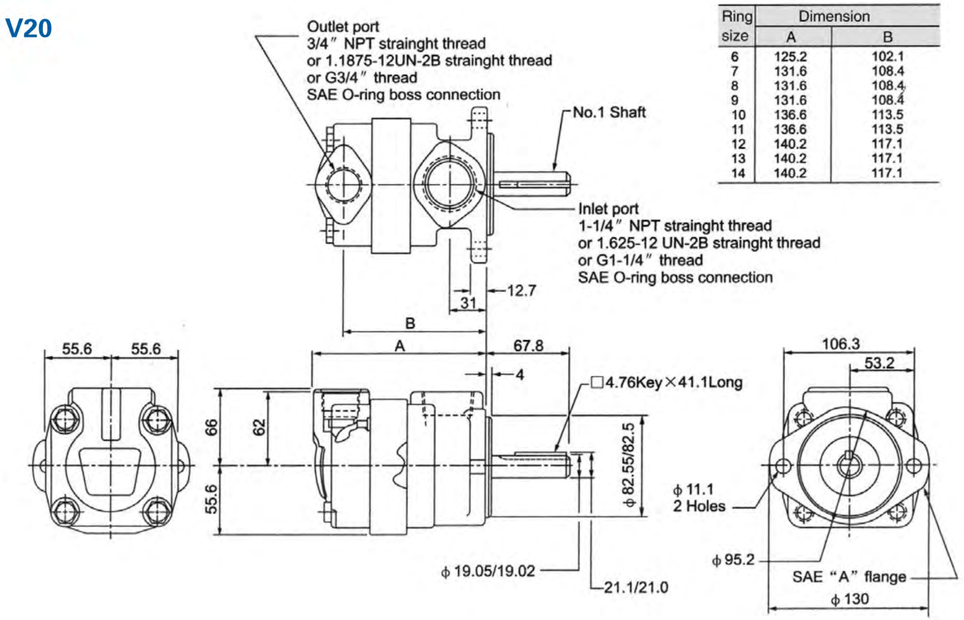


◇ V10



Ring size	Dimension A	Dimension B
1	115.6	91.9
2	115.6	91.9
3	115.6	91.9
4	121.9	98.3
5	121.9	98.3
6	127.0	103.4
7	127.0	103.4

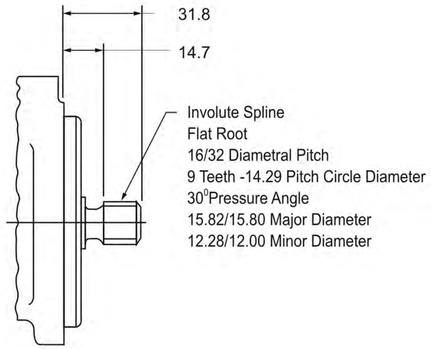
◇ V20



Ring size	Dimension A	Dimension B
6	125.2	102.1
7	131.6	108.4
8	131.6	108.4
9	131.6	108.4
10	136.6	113.5
11	136.6	113.5
12	140.2	117.1
13	140.2	117.1
14	140.2	117.1

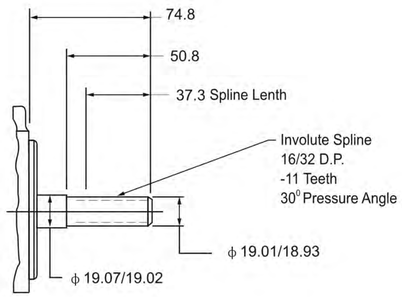
V10 Series Spline Shaft Type

11 Type Spline Shaft

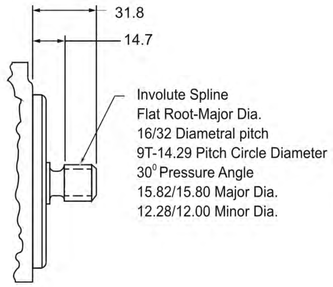


V20 Series Spline Shaft Type

11 Type Spline Shaft



62 Type Spline Shaft



SQP系列叶片泵–适合工业应用的更低噪音的子母叶片泵

SQP 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子母叶片泵。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系列子母叶片泵泵芯，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 call for lower noise. Main characteristics;

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.

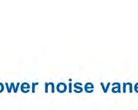
SQP系列单泵

SQP Series Single Pump





液压符号
Hydraulic Sign



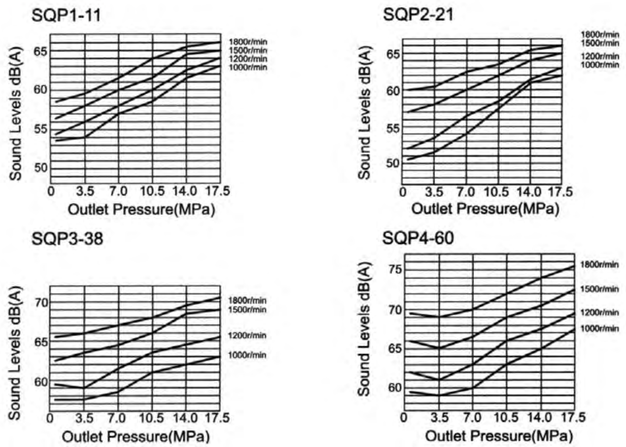
○ 型号说明/Model Instruction

(F3-)	SQP2	-21	-86	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 油包水乳化液 No-marking Anti-wear hydraulic oil, Water glycol fluid or water-oil emulsions F3- 磷酸酯液 Phosphate eater fluid	SQP1	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	（从泵的盖端看） (Viewed from cover end of pump) A-进油口对侧 outlet opposite inlet B-从进油口逆时针90° outlet 90° CCW from inlet C-进油口同侧 outlet inline with inlet D-从进油口顺时针90° outlet 90° CW from inlet	无标记 No-marking -法兰安装型 Flange Mounting F-脚座安装型 F-Foot Mountion	（从泵的轴端看） (Viewes form 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					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. 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



○ 技术参数/Technical Data

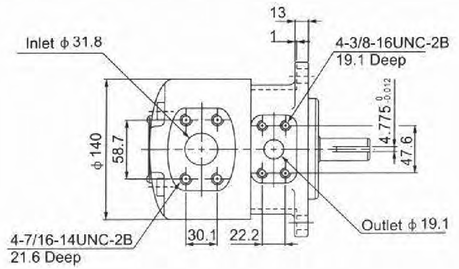
系列号 Series	●排量代号 Displacement code	几何排量 Geometric displacement mL/r	▲使用抗磨液压油或磷酸酯液 With antiwear hydraulic oil or phosphate eater fluid		使用水乙二醇液 With water glycol fluid		使用油包水乳化液 With water-oil emulsions		最低转速 Min. speed r/min
			最高压力MPa Max. pressure	最高转速r/min Max. speed	最高压力MPa Max. pressure	最高转速r/min 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	17.2		15.9				
	5	16.7							
	6	19.2							
	7	22.9							
	8	26.2							
	9	28.8							
	10	31.0							
	11	35.0							
	12	37.9	15.7		13.8				
	14	44.2	13.8						
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							
	25	79.2							
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							
	45	140	13.8		13.8				
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		13.8				

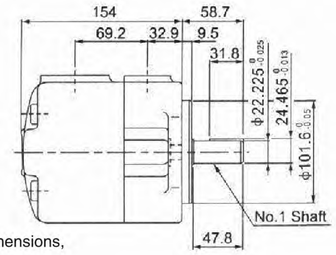
●在1200r/min和0.69MPa(100psi)下的额定排量USgpm. ▲0.5秒内，允许超过最高压力10％的瞬时压力。
Usgpm Flow (USgpm) at 1200r/min and 0.69MPa, Permit surpassing the top pressure 10% instantaneous pressure.

系列号 Series	转速 Speed r/min	输出流量 Output flow L/min				输入功率 Input flow kw			
		0.69Mpa	6.9Mpa	13.8Mpa	17.2Mpa	0.69Mpa	6.9Mpa	13.8Mpa	17.2Mpa
SQP1-2	1000	7.5	6.0	4.5		0.2	1.2	2.1	
	1200	9.5	8.5	6.5		0.3	1.5	2.5	
	1500	11.2	9.3	7.5		0.3	1.8	3.2	
	1800	13.5	11.2	9.0		0.4	2.2	3.8	
SQP1-3	1000	10.2	8.8	7.4		0.3	1.5	3.1	
	1200	12.5	11.0	9.5		0.4	1.8	3.7	
	1500	15.3	13.7	12.1		0.5	2.3	4.7	
	1800	18.4	16.9	15.3		0.5	2.7	5.6	
SQP1-4	1000	12.8	12.3	10.8	10.0	0.4	1.8	3.7	4.6
	1200	16.0	15.0	13.5	13.0	0.5	2.2	4.4	5.5
	1500	19.2	17.7	16.2	15.7	0.6	2.7	5.6	6.9
	1800	23.1	21.3	19.5	19.0	0.7	3.2	6.7	8.3
SQP1-5	1000	16.7	15.7	14.7	14.2	0.4	2.8	4.8	6.0
	1200	20.0	19.0	18.0	17.5	0.5	3.2	5.8	7.2
	1500	25.0	24.0	23.0	22.5	0.6	3.9	7.3	9.0
	1800	30.0	29.0	28.0	27.5	0.6	4.2	8.6	10.7
SQP1-6	1000	19.2	18.2	17.0	16.2	0.4	3.0	5.5	6.6
	1200	23.0	22.0	20.5	20.0	0.5	3.5	6.5	7.9
	1500	28.5	27.5	26.0	25.0	0.6	4.3	8.1	9.8
	1800	34.5	33.5	32.0	31.0	0.7	5.2	9.7	11.8
SQP1-7	1000	22.9	21.4	19.9	18.9	0.5	3.4	6.2	7.6
	1200	27.5	26.0	24.5	23.5	0.6	4.0	7.4	9.1
	1500	34.4	32.9	31.4	30.4	0.7	5.0	9.2	11.3
	1800	41.3	39.8	38.3	37.3	0.8	5.9	11.0	13.6
SQP1-8	1000	26.2	24.2	22.7	21.2	0.5	3.9	6.7	8.3
	1200	31.5	29.5	28.0	26.5	0.6	4.5	8.0	10.0
	1500	39.4	37.4	35.9	34.4	0.8	5.5	10.0	12.5
	1800	47.2	45.2	43.7	42.2	0.8	6.6	11.8	14.8
SQP1-9	1000	28.8	26.8	25.3	23.8	0.5	4.2	7.0	8.6
	1200	34.5	32.5	31.5	30.0	0.6	5.0	8.5	10.5
	1500	43.2	41.2	39.7	38.2	0.8	5.9	10.4	12.9
	1800	51.8	49.8	48.3	46.8	0.9	7.1	12.3	15.3
SQP1-10	1000	31	29	26.5	25.5	0.6	4.8	9.1	11.3
	1200	37.2	35.2	32.7	31.7	0.8	5.7	11.0	13.7
	1500	46.5	44.5	42.0	41.0	0.9	6.8	13.7	17
	1800	55.8	53.6	51.1	50.1	1.0	8.3	16.2	20.3
SQP1-11	1000	35.0	33.0	30.5	29.5	0.7	4.9	9.2	11.4
	1200	42.0	40.0	37.5	36.5	0.8	5.7	11.0	13.7
	1500	52.5	50.5	48.0	47.0	1.0	6.9	13.8	17.1
	1800	63.2	61.0	58.8	57.5	1.0	8.3	16.2	20.3
SQP1-12	1000	37.9	36.4	34.4		0.7	5.6	10.4	
	1200	45.5	44.0	42.0		0.9	6.5	12.5	
	1500	56.9	55.4	53.4		1.1	7.9	15.6	
	1800	68.2	66.7	64.7		1.1	9.4	18.4	
SQP1-14	1000	44.2	42.7	40.7		1.0	6.6	12.2	
	1200	53.0	51.5	49.5		1.1	7.8	14.6	
	1500	66.0	64.0	62.0		1.3	9.6	18.2	
	1800	79.5	77.5	75.5		1.4	11.5	21.7	
SQP2-10	1000	32.5	29.5	26.0	24.5	0.9	4.9	9.3	11.3
	1200	39.0	36.0	32.5	31.0	1.0	5.8	11.1	13.5
	1500	48.8	45.8	42.3	40.8	1.2	7.2	13.8	16.8
	1800	58.5	55.5	52.0	50.5	1.3	8.5	16.5	20.1
SQP2-12	1000	38.3	35.9	33.3	31.8	1.0	5.7	10.9	13.4
	1200	46.0	43.6	41.0	39.5	1.1	6.5	13.0	16.0
	1500	57.5	55.1	52.5	51.0	1.3	8.3	16.1	19.9
	1800	69.0	66.6	64.0	62.5	1.4	9.8	19.3	23.8
SQP2-14	1000	43.3	40.2	36.8	35.8	1.2	6.4	12.2	15.1
	1200	52.0	48.5	45.5	44.5	1.3	7.5	14.5	18.0
	1500	65.0	61.9	58.5	57.5	1.5	9.4	18.0	22.4
	1800	78.0	74.9	71.5	70.5	1.7	11.1	21.5	26.7
SQP2-15	1000	46.7	43.7	40.7	39.2	1.2	6.8	13.0	15.9
	1200	56.0	53.0	50.0	48.5	1.3	8.0	15.5	19.0
	1500	70.0	67.0	64.0	62.5	1.5	9.9	19.3	23.6
	1800	84.0	81.0	78.0	76.5	1.7	11.8	23.0	28.3

系列号 Series	转速 Speed r/min	输出流量 Output flow L/min				输入功率 Input flow kw			
		0.69Mpa	6.9Mpa	13.8Mpa	17.2Mpa	0.69Mpa	6.9Mpa	13.8Mpa	17.2Mpa
SQP2-17	1000	52.5	49.7	46.5	44.5	1.4	7.4	14.3	17.6
	1200	63.0	60.6	57.0	55.0	1.5	9.0	17.0	21.0
	1500	78.8	76.0	72.8	70.8	1.7	10.8	21.1	26.1
	1800	94.5	91.7	88.5	86.5	1.9	12.9	25.1	31.2
SQP2-19	1000	59.2	56.2	53.2	50.2	1.5	8.5	16.0	20.1
	1200	71.0	68.0	65.0	62.0	1.7	10.0	19.0	24.0
	1500	88.7	85.7	82.7	79.7	1.9	12.3	24.1	29.8
	1800	106.5	103.7	100.7	97.7	2.2	14.7	28.2	35.7
SQP2-21	1000	65.0	62.2	59.0	57.0	1.6	9.2	17.6	21.8
	1200	78.0	75.0	72.0	70.0	1.8	11.0	21.0	26.0
	1500	97.5	94.7	91.5	89.5	2.1	13.4	26.1	32.3
	1800	117	114	111	109	2.3	16.0	31.1	38.6
SQP3-21	1000	66.7	60.7	54.7	51.7	1.6	8.9	16.8	20.6
	1200	80.0	74.0	68.0	65.0	1.8	10.5	20.0	24.5
	1500	100	94.0	88.0	85.0	2.0	12.9	24.8	30.4
	1800	120	114	108.0	105.0	2.3	15.4	30.5	36.4
SQP3-25	1000	79.2	73.5	67.2	64.2	1.8	10.7	20.5	25.1
	1200	95.0	89.0	83.0	80.0	2.0	12.5	24.5	30.0
	1500	119	113	107.0	104.0	2.3	15.7	30.4	37.3
	1800	142	136	130.0	127.0	2.6	18.7	36.4	44.6
SQP3-30	1000	95.0	88.4	81.0	78.0	1.8	12.6	24.7	30.5
	1200	114	107	100	97.0	2.0	15.0	29.5	36.5
	1500	142	136	128	125	2.4	18.6	36.7	45.5
	1800	171	164	157	154	2.7	22.2	44.0	54.5
SQP3-32	1000	100	92.0	85.0	82.0	2.1	13.5	26.0	32.2
	1200	120	112	105	102	2.3	16.0	31.0	38.5
	1500	150	142	135	132	2.7	19.8	38.6	47.9
	1800	180	172	165	162	3.1	23.6	46.1	57.4
SQP3-35	1000	109	103	95.2	92.2	2.2	14.2	27.6	34.3
	1200	131	124	117	114	2.5	17.0	33.0	41.0
	1500	164	157	150	147	2.9	20.9	41.0	51.0
	1800	196	189	182	179	3.3	24.9	50.4	61.1
SQP3-38	1000	118	111	102	99.3	2.7	15.5	29.8	36.9
	1200	142	134	126	123	3.0	18.5	35.5	44.0
	1500	177	170	161	158	3.4	22.7	44.0	54.7
	1800	213	205	197	194	3.9	27.0	52.6	65.4
SQP3-45	1000	140	131	121	116	2.9	17.9	35.4	43.7
	1200	168	159	149	144	3.2	21.2	42.2	52.2
	1500	210	201	190	185	3.7	26.2	53.5	64.9
	1800	252	243	233	228	4.2	31.2	62.7	77.7
SQP4-42	1000	134	125	115	110	2.7	17.7	35.2	43.5
	1200	161	152	142	137	3.0	21.0	42.0	52.0
	1500	201	192	182	177	3.5	26.0	52.3	64.7
	1800	241	232	222	217	4.0	31.0	62.5	77.5
SQP4-45	1000	140	131	121	116	2.9	17.9	35.4	43.7
	1200	168	159	149	144	3.2	21.2	42.2	52.2
	1500	210	201	190	185	3.7	26.2	53.5	64.9
	1800	252	243	233	228	4.2	31.2	62.7	77.7
SQP4-50	1000	156	147	137	132	3.1	20.2	39.4	49.3
	1200	187	178	168	163	3.5	24.0	47.0	59.0
	1500	234	225	215	210	4.0	29.7	58.5	73.4
	1800	280	271	261	256	4.7	35.4	69.9	87.9
SQP4-57	1000	178	168	157	151	3.8	22.9	45.1	53.7
	1200	213	203	192	186	4.3	27.3	55.2	65.8
	1500	269	259	248	242	5.0	3.6	66.3	82.5
	1800	320	10	299	292	5.7	39.3	75.5	97.3
SQP4-60	1000	189	178	166	160	4.0	24.4	46.9	58.6
	1200	227	216	204	198	4.5	29.0	56.0	70.0
	1500	284	273	261	255	5.2	35.8	69.6	87.1
	1800	340	329	317	311	5.9	42.7	83.2	104
SQP4-66	1000	207	195	182	174	4.4	26.7	51.4	62.9
	1200	248	236	223	215	4.9	31.6	61.2	76.0
	1500	310	298	285	277	5.6	39.0	76.0	94.6
	1800	372	60	347	339	6.4	46.7	91.0	113.3
SQP4-75	1000	237	223	208	200	5.0	30.5	58.7	73.2
	1200	284	269	255	247	5.6	36.1	70.0	87.3
	1500	355	340	326	318	6.5	44.5	86.9	108.0
	1800	426	411	397	389	7.3	53.5	104.1	130.0

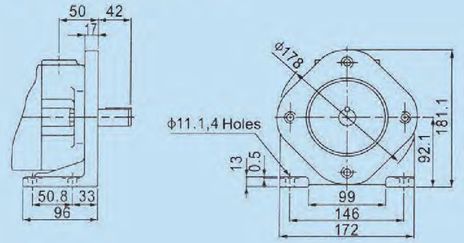
SQP1法兰安装尺寸
SQP1 Flange Mounting



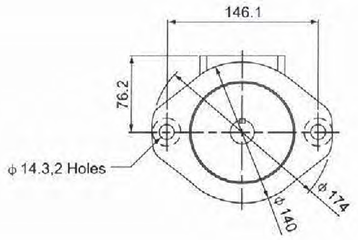


For other shaft dimensions,
refer to page 64
其它轴类尺寸见64页

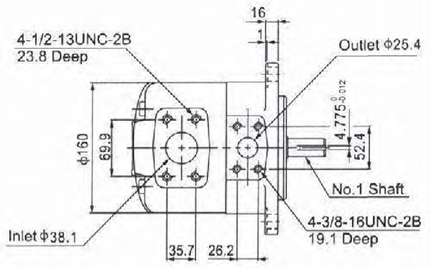
SQP1底座安装尺寸
SQP1 Foot Mounting

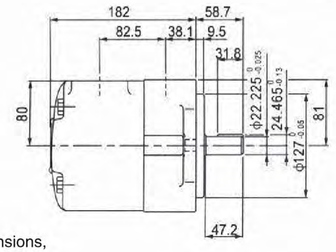


For other dimensions,refer to “Flange Mounting” type



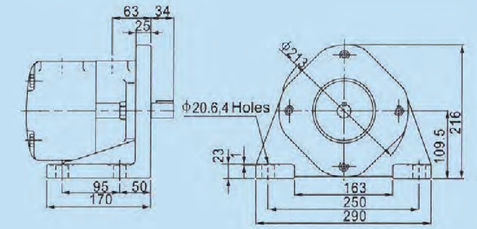
SQP2法兰安装尺寸
SQP2 Flange Mounting



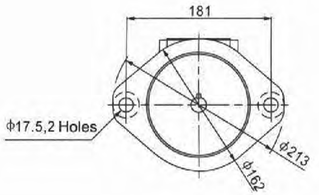


For other shaft dimensions,
refer to page 64
其它轴类尺寸见64页

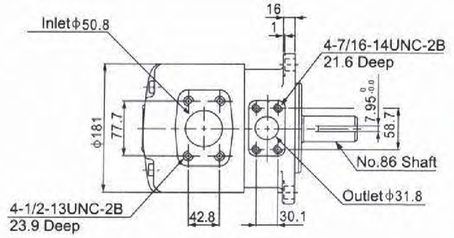
SQP2底座安装尺寸
SQP2 Foot Mounting



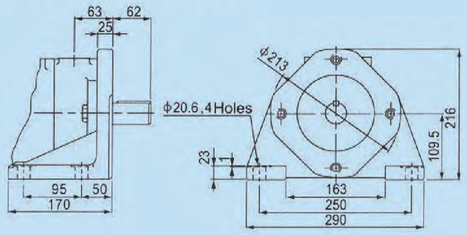
For other dimensions,refer to “Flange Mounting” type



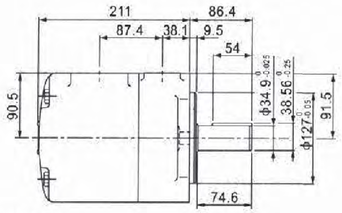
SQP3法兰安装尺寸
SQP3 Flange Mounting

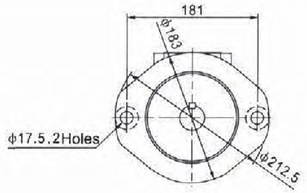


SQP3底座安装尺寸
SQP3 Foot Mounting



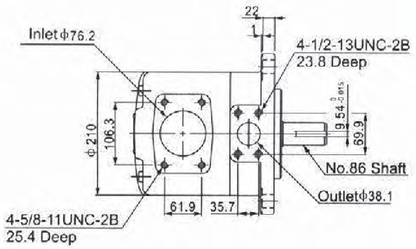
For other dimensions,refer to "Flange Mounting" type



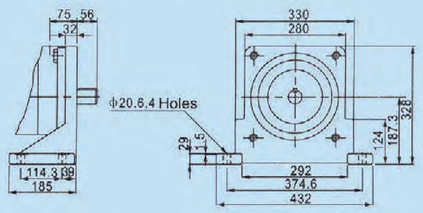


For other shaft dimensions,
refer to page 64
其它轴类尺寸见64页

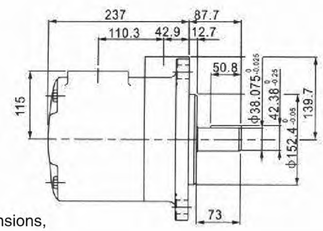
SQP4法兰安装尺寸
SQP4 Flange Mounting

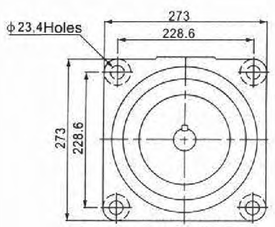


SQP4底座安装尺寸
SQP4 Foot Mounting



For other dimensions,refer to "Flange Mounting" type

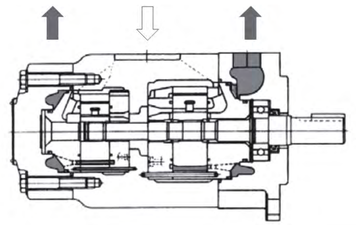




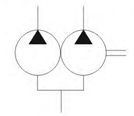
For other shaft dimensions,
refer to page 64
其它轴类尺寸见64页

SQP系列双联泵
SQP Series Double Pumps





液压符号
Hydraulic Sign

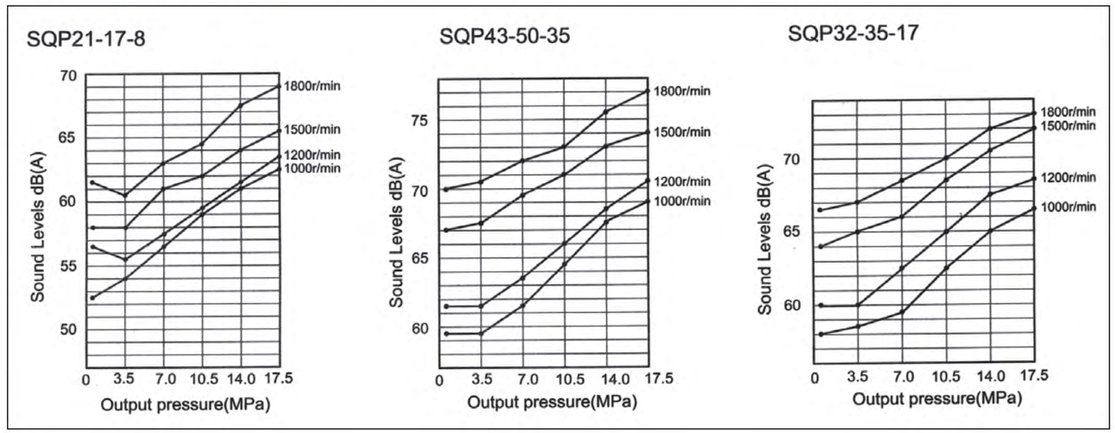


○ 型号说明/Model Instruction

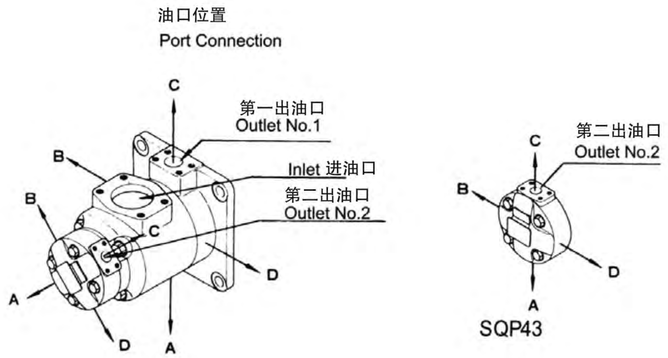
(F3-)	SQP32	-35	-17	-86	CD	(F)	-(LH)	-18
前注、油液相溶性 Infuse front, oil intermiscibility	系列号 Series	▲排量代号轴端泵 Displacement code of Shaft end pump	▲排量代号盖端泵 Displacement code of Cover end pump	轴伸形式 Shaft type	油口位置 Port Positions	安装形式 Installation type	旋转方向 Rotation	设计号 Design number
无标记- 抗磨液压油、 水乙二醇液或 油包水乳化液 No-marking Anti-wear hydraulic oil, Water glycol fluid or water-oil emulsions F3- 磷酸酯液 Phosphate eater 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 Mountion	（从泵的轴端看） (Viewes form 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.　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



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



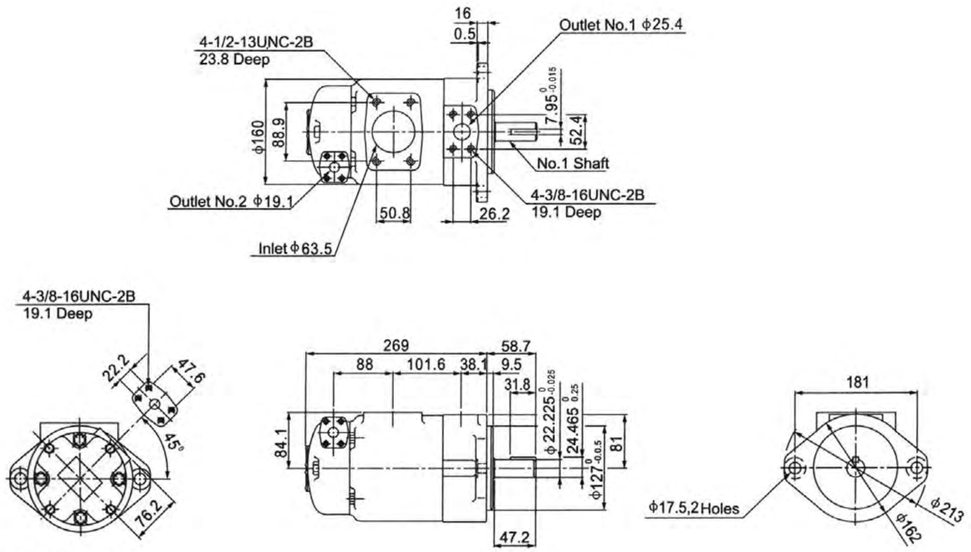
油口位置 Port positions		所有系列(除SQP43外) All series (except SQP43)	SQP43系列 SQP43 series
第一出油口 在进油口对侧 No.1 outlet opposite inlet	AA	第二出油口在进油口逆时针转135° No.2 outlet 135° CCW from inlet	第二出油口在进油口对侧 No.2 outlet opposite inlet
	AB	第二出油口在进油口逆时针转45° No.2 outlet 45° CCW from inlet	第二出油口在进油口逆时针转90° No.2 outlet 90° CCW 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.1 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.1 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.1 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						
	14	43.3		3	10.2			
	15	46.7						
	17	52.5		4	12.8			
	19	59.2						
	21	65.0		5	16.7			
	25	79.2						
SQP31	21	66.7	▲同SQP3 As SQP3	6	19.2			
	25	79.2						
	30	95.0		7	22.9			
	32	100						
	35	109		8	26.2			
	38	118						
	45	140		9	28.8			
SQP41	42	134	▲同SQP4 As SQP4	10	31.0			
	45	140						
	50	156		11	35.0			
	57	178						
	60	189		12	37.9			
	66	207						
	75	237		14	44.2			
SQP32	21	66.7	▲同SQP3 As SQP3	10	32.5	▲同SQP2 As SQP2	同SQP系列单泵 As SQP Series single pumps	600
	25	79.2						
	30	95.0		12	38.3			
	32	100						
	35	109		14	43.3			
	38	118						
	45	140		15	46.7			
SQP42	42	134	▲同SQP4 As SQP4	17	52.5			
	45	140						
	50	156		19	59.2			
	57	178						
	60	189		21	65.0			
	66	207						
	75	237		25	79.2			
SQP43	42	134	▲同SQP4 As SQP4	21	66.7	▲同SQP3 As SQP3	同SQP系列单泵 As SQP Series single pumps	600
	45	140		25	79.2			
	50	156		30	95.0			
	57	178		32	100			
	60	189		35	109			
	66	207		38	118			
	75	237		45	140			

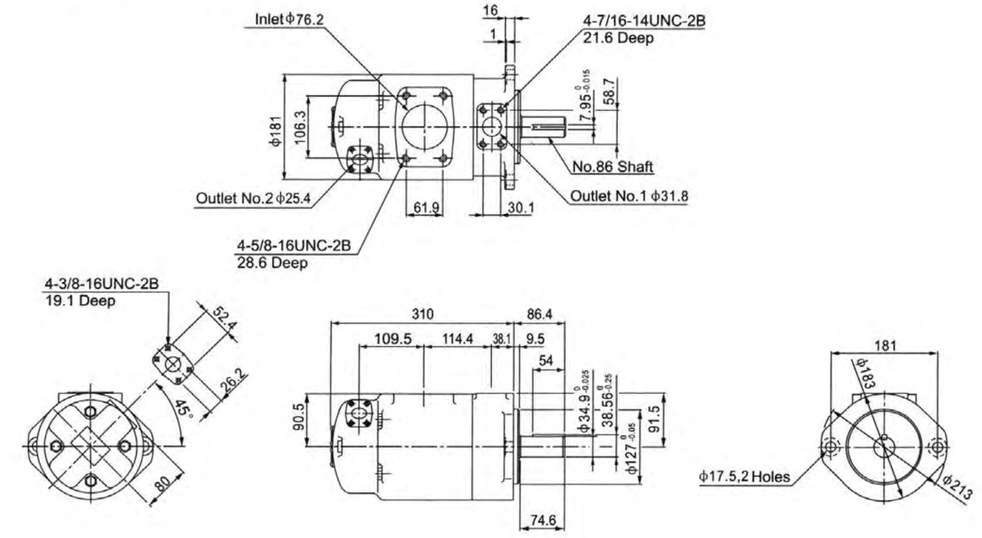
●在1200r/min和0.69MPa(100psi)下的额定排量USgpm. ▲0.5秒内，允许超过最高压力10％的瞬时压力。
Usgpm Flow (USgpm) at 1200r/min and 0.69MPa, Permit surpassing the top pressure 10% instantaneous pressure.

SQP21法兰安装尺寸
SQP21 Flange Mounting



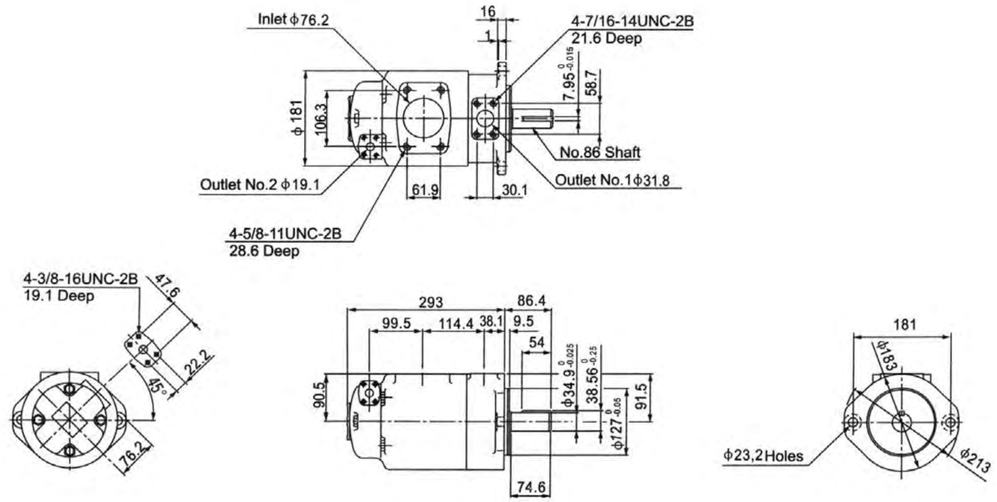
For other shaft dimensions,
refer to page 64
其它轴类尺寸见64页

SQP32法兰安装尺寸
SQP32 Flange Mounting



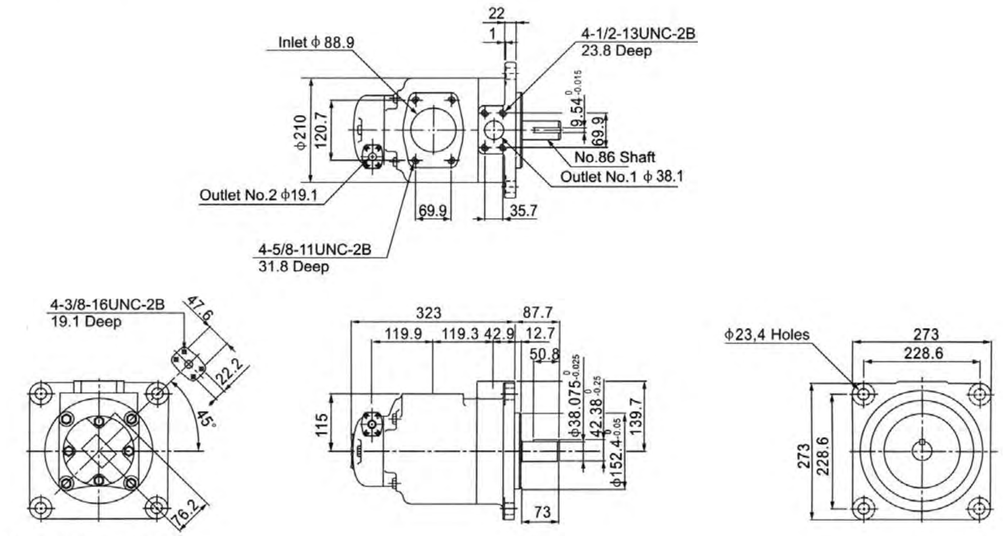
For other shaft dimensions,
refer to page 64
其它轴类尺寸见64页

SQP31法兰安装尺寸
SQP31 Flange Mounting



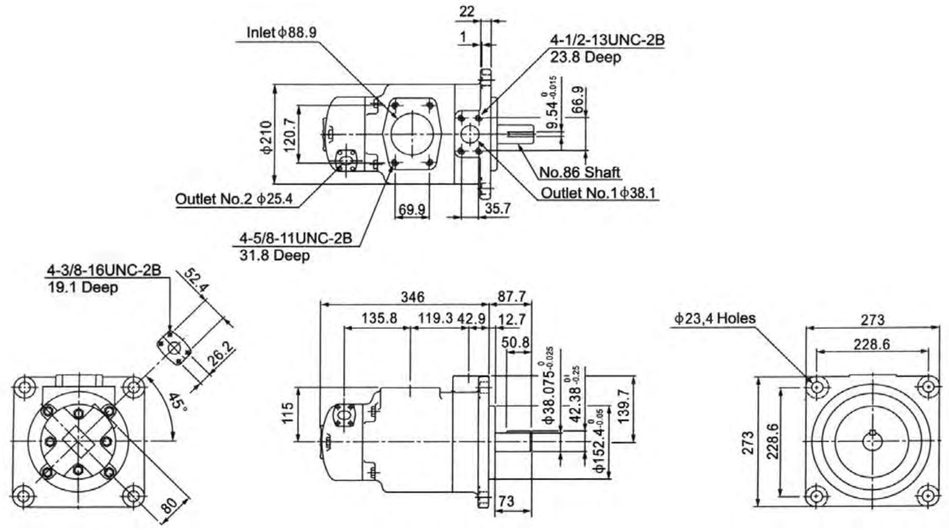
For other shaft dimensions,
refer to page 64
其它轴类尺寸见64页

SQP41法兰安装尺寸
SQP41 Flange Mounting



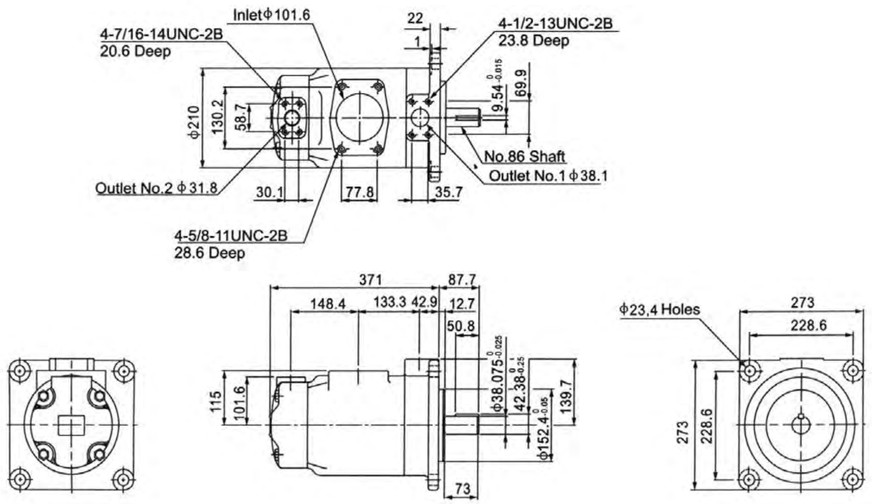
For other shaft dimensions,
refer to page 64
其它轴类尺寸见64页

SQP42法兰安装尺寸
SQP42 Flange Mounting



For other shaft dimensions,
refer to page 64
其它轴类尺寸见64页

SQP43法兰安装尺寸
SQP43 Flange Mounting



For other shaft dimensions,
refer to page 64
其它轴类尺寸见64页

PV2R系列叶片泵
PV2R Series vane pumps





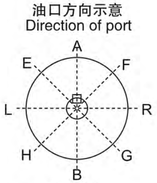
○ 产品简介/Product Introduction

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

油口方向示意
Direction of port



面对轴端
Faced with shaft end

○ 型号说明/Model Instruction

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
shaft end pump mL/r

双泵的盖端泵公称排量
Displacement of cover end pump mL/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

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 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

轴径/Shaft diameter
F-小轴 Minor shaft（Omitted）
F_1-大轴 Major shaft

○ 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						14.0
PV2R1-31	32.3	16	16				15.5
PV2R2-26	25.3	21	17.5	14	600	1800	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	16				1200	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	16	16				50
PV2R3-125	122.2					1200	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，应减少吸入口负压。
3. 使用合成液压油及含水液压液时，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.

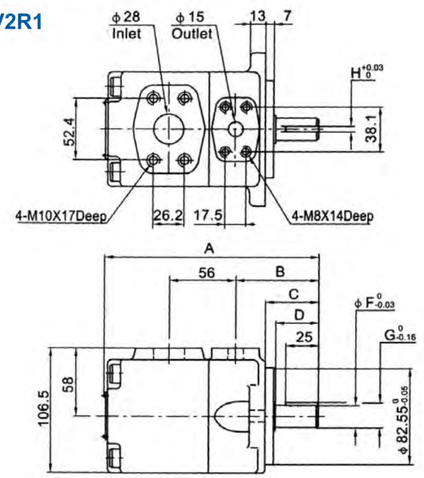
● 双联泵/Double Pumps

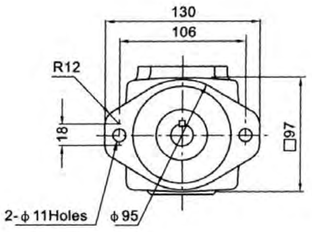
泵系列号 Series	轴端泵排量 Displacement of shaft end pump	盖端泵排量 Displacement of cover end pump
PV2R21	26、33、41、47、53、59、65	4、6、8、10、12、14、17、19、23、25、28、31
PV2R31	52、60、66、76、94、116、125、136	4、6、8、10、12、14、17、19、23、25、28、31
PV2R32	52、60、66、76、94、116、125、136	26、33、41、47、53、59、65

○ 外型尺寸/Installation Dimensions

● 单泵/Single Pumps

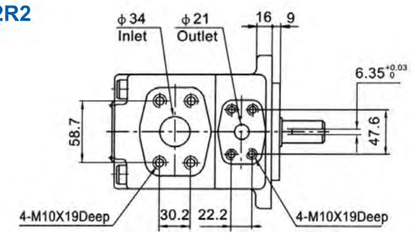
◇ PV2R1

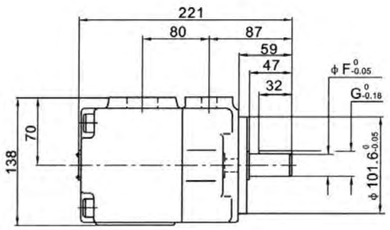


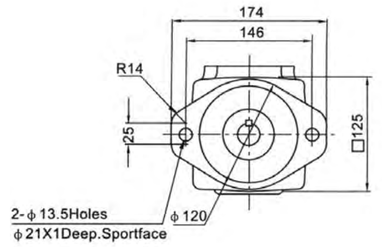


轴伸形式 Shaft type	A	B	C	D	F	G	H
F1	178.5	69.5	44.5	36	19.05	21.24	4.76
F	184	75	50	41	15.88	17.68	3.97

◇ PV2R2

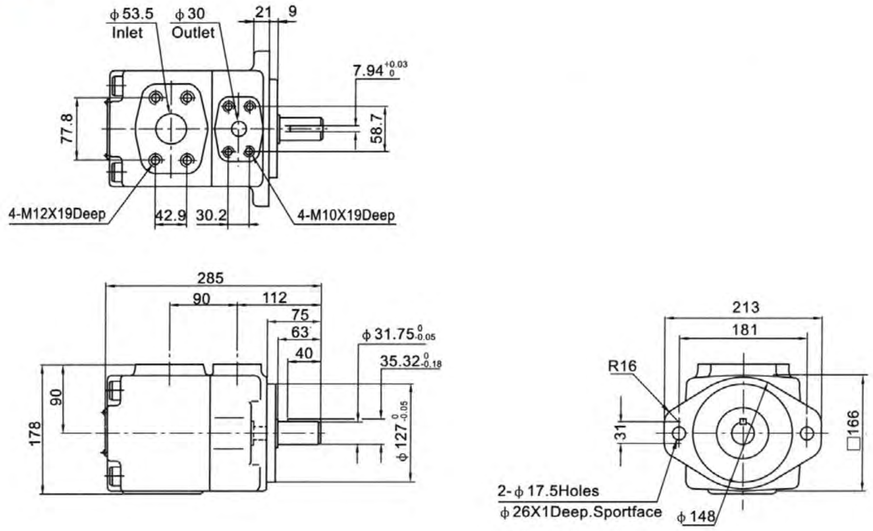




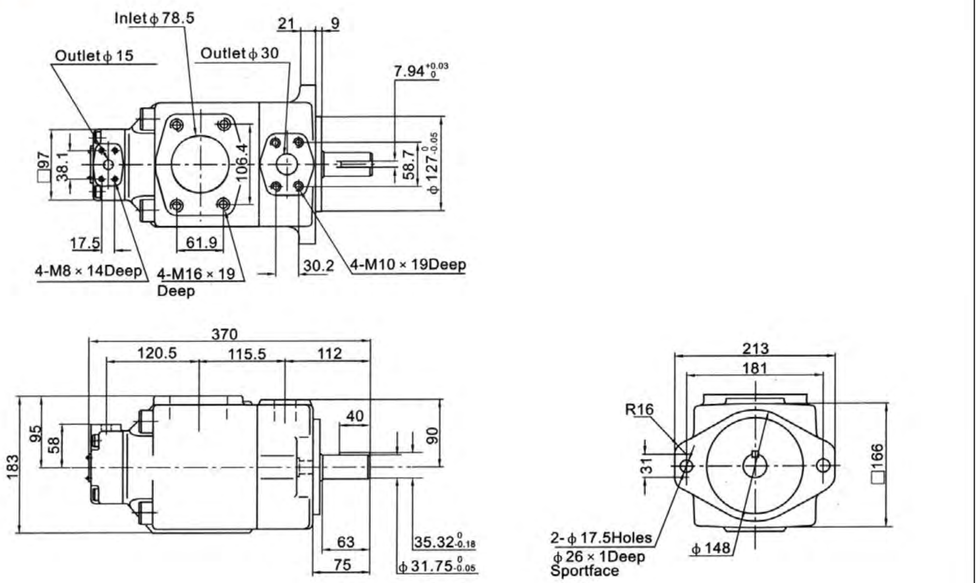


轴伸形式 Shaft type	F	G
F1	25.4	28.18
F	22.23	25.01

◇ **PV2R3**



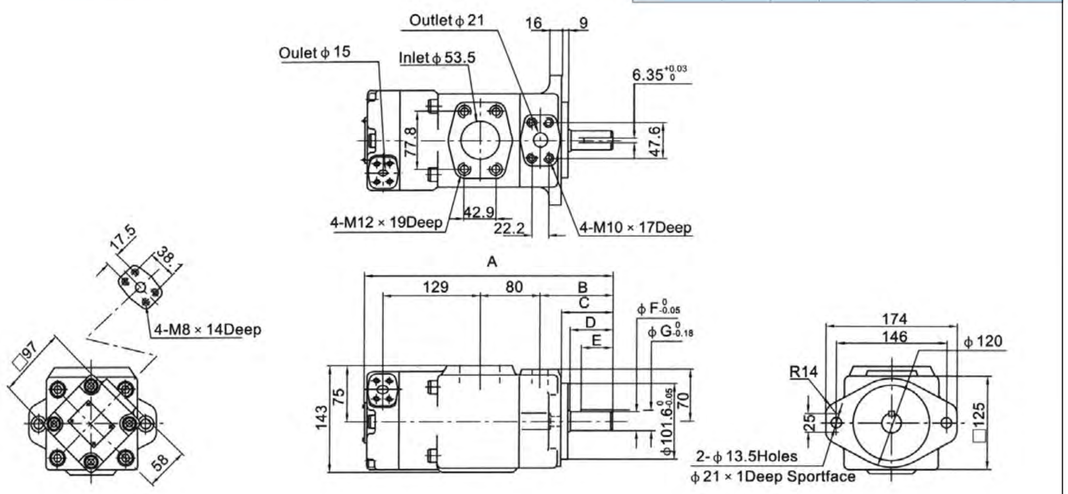
◇ **PV2R31**



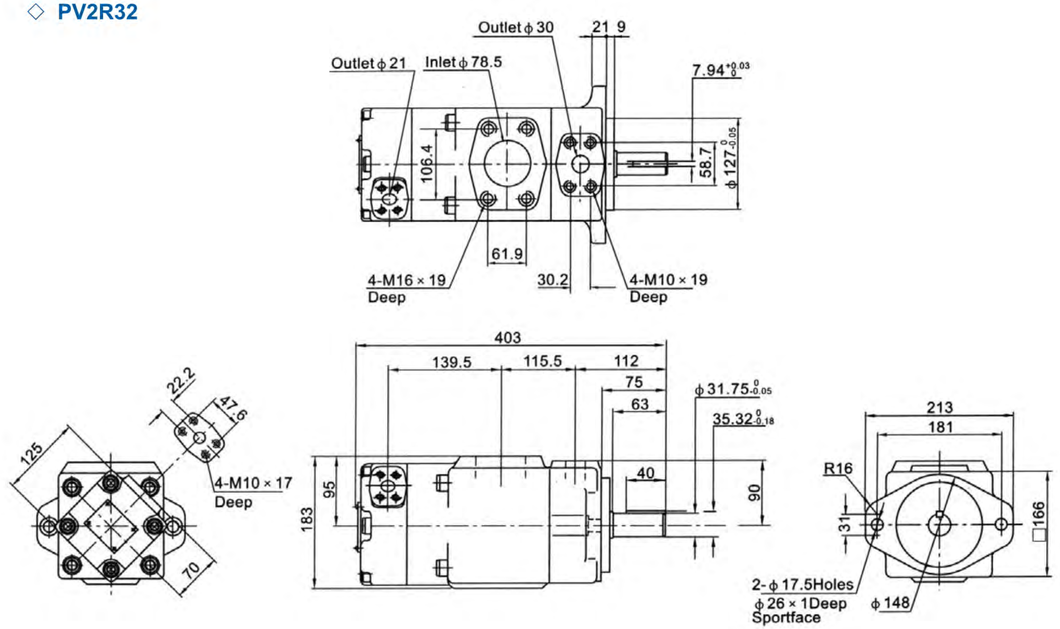
● 双联泵/Double Pumps

◇ **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

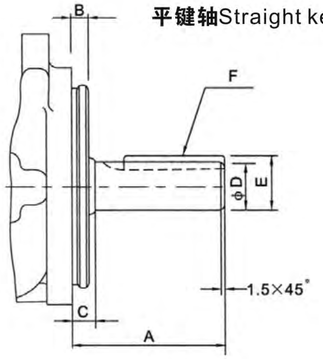


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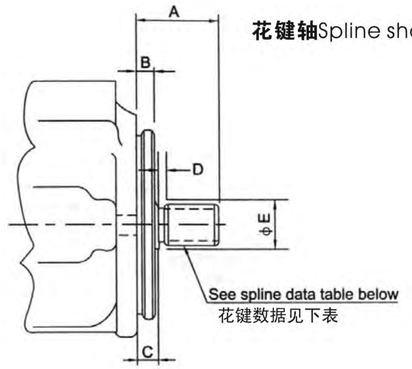


• 轴伸选择/ Shaft type

平键轴Straight key shaft



花键轴Spline shaft



• 平键轴/Straight Key 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

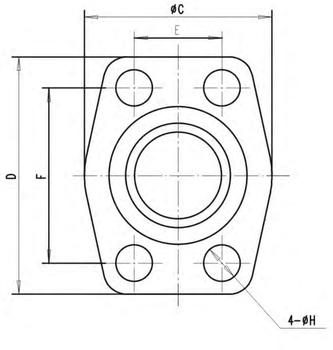
• 花键轴/Spline shaft

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

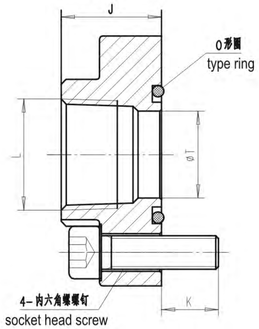
•花键数据表(渐开线花键)/Spline Data Table(Involute spline)

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	

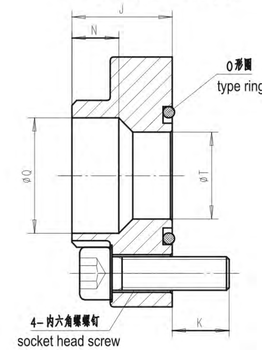
◇油口连接法兰 Port flange kits



F※-A（Rc螺纹型）
Screw thread type



F※-B（焊接型）Welding type



法兰型号 Flange model	对应管子规格 Corresponding pipe specifications	尺寸/Dimensions mm C	D	E	F	H	J	L	N	Q	T	O形圈/Ring GB3452.1-2005	PV2R系列/Series 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	PVR1出油口/outlet,PV2R21,PV2R31 盖端泵出油口/ outlet of cover end pump
F04-B								–	11	22.5					
F06-A	3/4"	50.5	65.5	22.2	47.6	11.0	28	Rc3/4"	–	–	19	30x3.55	M10x30mm	12.5	PVR2出口/outlet,PV2R21泵端泵出油口/outlet of shaft end pump PV2R32盖端泵出油口/ outlet of cover end pump
F06-B								–	12	28.5					
F08-A	1"	56	71	26.2	52.4	11.0	30	Rc1"	–	–	26	34.5x3.55	M10x35mm	17.0	PVR1吸油口/inlet port
F08-B								–	14	34.5					
F10-A	1-1/4"	64.5	79.5	30.2	58.7	12.0	32	Rc1-1/4"	–	–	32	40x3.55	M10x40mm	19	PVR2吸油口/inlet port, PV2R3出油口/ outlet, PV2R31, PV2R32 轴端泵出油口/outlet of shaft end pump
F10-B								–	16	43.0					
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					
F16-A	2"	87.5	103	42.9	77.8	13.8	38	Rc2"	–	–	51	65x3.55	M12x45mm	17.5	PVR3、PV2R21吸油口/inlet
F16-B								–	20	61.0					
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					
F24-A	3"	123	136	61.9	106.4	17.0	45	Rc3"	–	–	76	85x3.55	M16x45mm	16.5	PVR31、PV2R32吸油口/inlet
F24-B								–	25	90.0					
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					
F32-A	4"	145	162	77.8	130.2	17.0	50	Rc4"	–	–	102	115x3.55	–		–
F32-B							40	–	28	115.5					

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出油口/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)、T6EDC(S)(油口尺寸01/oil port dimensions)盖端泵出油口/outlet of cover end pump
F06-B			
F08-A	3/8"-16UNCx1.5"(38.1mm)	20.1	25V(Q)、SQP2、T6C出油口/outlet port, 2520V(Q)、SQP21、T6CC轴端泵出油口/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) 盖端泵出油口/outlet of cover end pump、T6DCC中间泵出油口/outlet of middle pump
F08-B			
F10-A	7/16"-14UNCx1.575"(40mm)	19.0	SQP1吸油口/inlet, 35V(Q)、SQP3、T6D出油口/outlet, 3520V(Q)、3525V(Q)、SQP31、SQP32、T6DC、 T6DCC、T6DDCS轴端泵出油口/outlet of shaft end pump,4535V(Q)、SQP43、T6ED盖端泵出油口/ outlet of cover end pump, T6DDCS、T6EDC(S)中间泵出油口/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出油口/outlet, 4535V(Q)、SQP43、T6EC、 T6ED、T6EDC(S)轴端泵出油口/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	5/8"-11UNCx1.75"(44.5mm)	23.0	

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.进出油口接反 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 Fitration 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)
	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
压力升不上去 Pressure lower	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.及使用压力一时间曲线状况）.
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

HTS系列伺服叶片泵
HTS Series Servo Vane Pump

HTS系列伺服叶片泵是一款拥有自主知识产权的新型节能产品，该产品已取得一项发明专利和四项实用新型技术专利，广泛应用于塑胶机械、压铸机械、鞋革机械、纺织机械的伺服液压系统中。本产品可替换德国艾可勒EIPC系列内啮合齿轮泵。

HTS series servo pump is new energy-saving product of our company with comprehensive study of abroad hydraulic vane pump for advanced technology which can replace Germany ECKERLE EIPC series gear pump. HTS series servo pump is self-developed product with independent intellectual property rights which has achieved an inventive patent and four utility model patents, the pump has been widely used in servo hydraulic systems of rubber and plastic machines, die-casting machines, shoes machines, textile machines etc.

● 单弹簧柱销式伺服叶片泵特点：

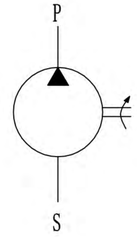
1.弹簧及柱销组成一种隐形工作机构，弹簧仅在启动及系统压力小于弹簧时参加工作，从而成倍提高弹簧工作寿命。
2.转速范围宽，能正反转运行，满足伺服系统响应速度及各种运行工况。
3.压力高，噪声低，达到各类主机配套要求。
4.维修方便，泵芯采用插装式结构。
5.排量范围宽，并能根据用户需求定制各种特殊排量规格。

● Characteristics of single Spring Pin Type Servo vane pump:

1.A kind of invisible working mechanism is formed by spring and pin, working life of spring will increase manifold as spring only works when start working and system pressure is lower than spring.
2.Wide range of speed of revolution, positive and reverse operating, meet the requirement of servo system response speed and various operating conditions.
3.High pressure, low noise, meet the requirements of various machines.
4.Convenient maintenance, pump cartridge with plug type structure.
5.Wide range of displacement, variety of special displacement are available according to the customer requirement.

●HTS系列伺服单泵/HTS Series Servo Single Pump





液压符号
Hydraulic sign

● 型号说明/Model Designation

HTS	-20	-1	R	00	-B	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 port positions	设计号 Design number	密封等级 Sealing level
HTS1	16、20、25	见轴伸尺寸 See shaft size	(View from shaft end of pump) (从泵的轴端看) R-顺时针旋转 R-Clockwise(CW) L-逆时针旋转 L-Counterclockwise(CCW)	（从泵的轴端看） View 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	B	1-S1, 丁晴橡胶 NBR 5-S5, 氟橡胶 Fluorine rubber
HTS2	20、25、32、40、50、64、80					
HTS3	80、100 125、160					
HTS4	160、180、190、200					

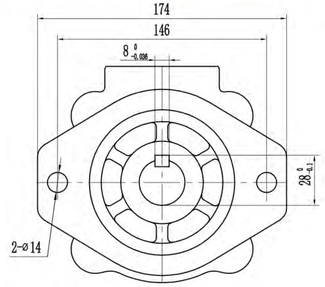
●技术参数/Technological Parameters

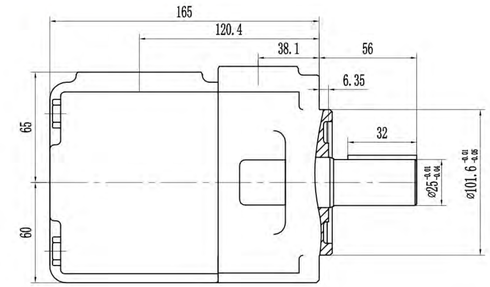
系列号 Series	排量代号 Flow code	理论排量 Theoretical displacement ml/r	最高压力 Max. Pressure Mpa				最高转速 Max. Rotation speed r/min		最低转速 Min. Rotation speed r/min
			抗磨液压油 Antiwear hydraulic oil		水乙二醇 Water glycol fluid		抗磨液压油 Antiwear hydraulic oil	水乙二醇 Water glycol fluid	
			间歇 Instant	连续 Continuous	间歇 Instant	连续 Continuous			
HTS1	16	16.1	28	24	25	21	2800	2200	50
	20	20.2							
	25	25.2							
HTS2	20	20.1							
	25	24.8							
	32	32.1							
	40	40.1							
	50	50.3							
	64	63.8							
	80	80.4							
HTS3	80	80.3	25	21	23	19	2500		
	100	100.5							
	125	125.3							
	160	160.1							
HTS4	160	160.2	25	21	21	17	2200		
	180	180.1							
	190	190.2							
	200	200.4							

●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	16 ~ 200
最高压力 Mpa Max. pressure Mpa	25 ~ 28
最高转速 r/min Max. Rotation speed r/min	2200 ~ 2800
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 temperature 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 17.5 Mpa, oil temperature 45℃)	100左右
压力震摆 bar (塑机300g,泵排量64ml/r,保压17.5Mpa, 油温45℃时) Oscillation bar (Within plastic machine 300g, pump displacement 64ml/r, pressure 17.5Mpa, oil temperature 45℃)	±1.0

● HTS1安装连接尺寸数/HTS1 Installation Dimensions





出油口位置示意
Outlet Positions

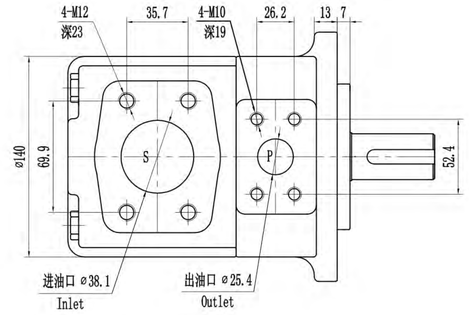
01–进油口同侧
Inline with inlet

02–从进油口逆时针90°
90° CCW from Inlet

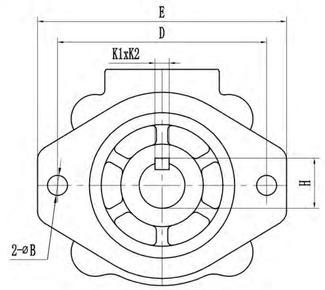
03–从进油口顺时针90°
90° CW from Inlet

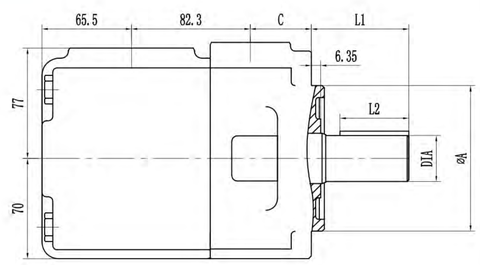
00–进油口对面
Opposite inlet port

从泵的轴端看
View from shaft end of pump

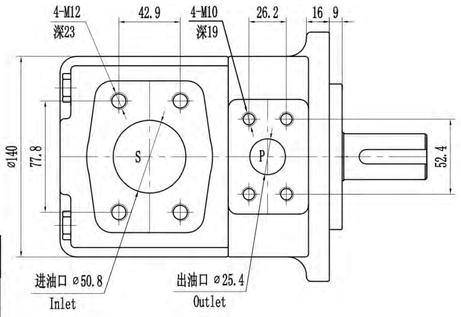


● HTS2安装连接尺寸数/HTS2 Installation Dimensions



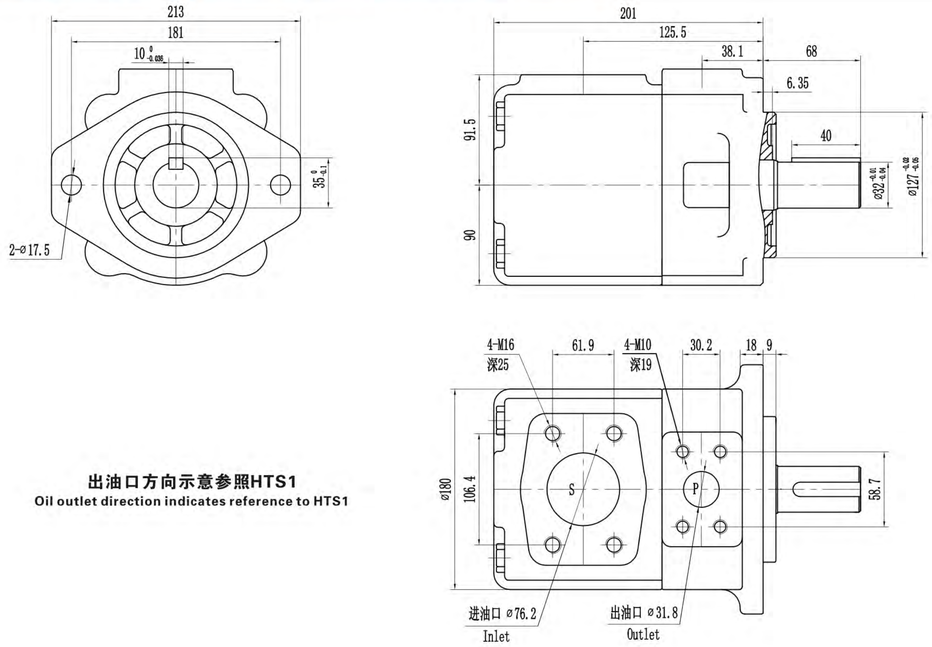


出油口方向示意参照HTS1
Oil outlet direction indicates reference to HTS1



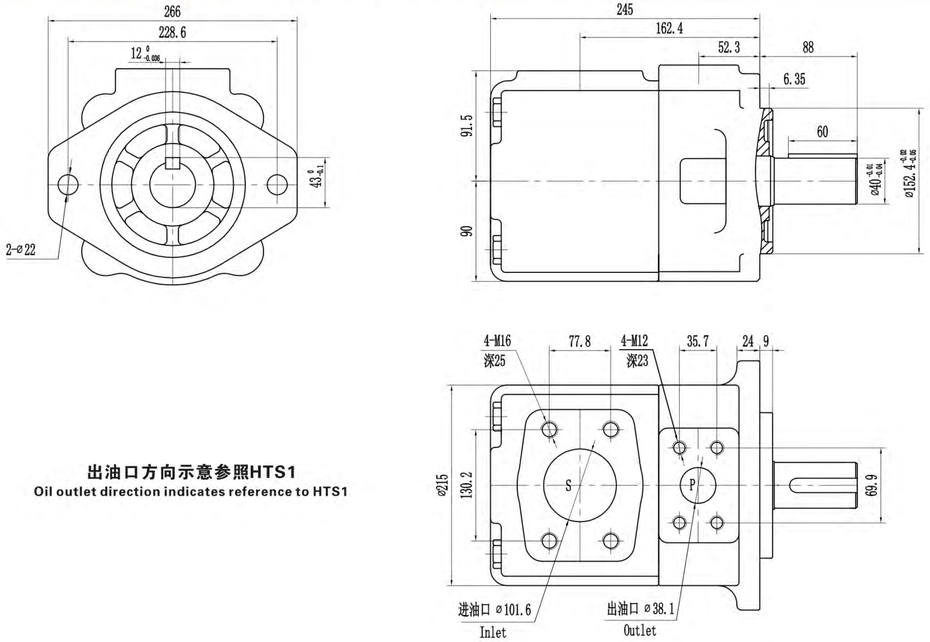
轴伸代号 Shaft code	L1	L2	DIA	H	K1xK2	⌀A	⌀B	C	D	E
1	56	32	⌀25g6	28	8h9x7	101.6/101.55	14	38.1	146	174
2	68	40	⌀32g6	35	10h9x8	127/126.95	17.5	43.1	181	213

● HTS3安装连接尺寸数/HTS3 Installation Dimensions



出油口方向示意参照HTS1
Oil outlet direction indicates reference to HTS1

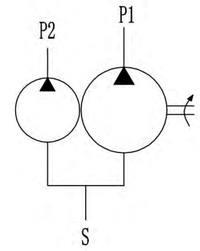
● HTS4安装连接尺寸数/HTS4 Installation Dimensions



出油口方向示意参照HTS1
Oil outlet direction indicates reference to HTS1

● HTS系列伺服双泵/HTS Series Servo Double Pump





液压符号
Hydraulic sign

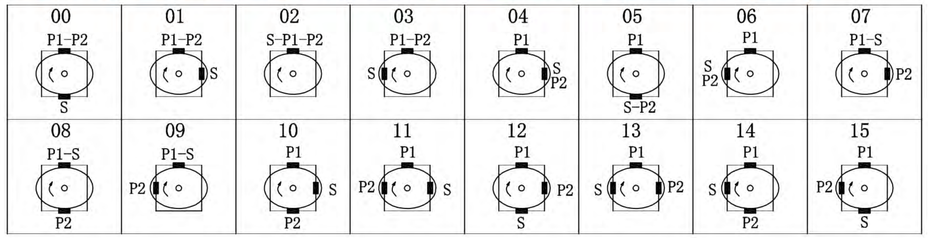
● 型号说明/Model Designation

HTS	-100	-50	-1	R	00	-C	1
系列号 Series	轴端泵排量代号 Flow code of shaft end pump	盖端泵排量代号 Flow code of cover end pump	轴伸形式 Shaft type	旋转方向 Rotation	出油口位置 Outlet port positions	设计号 Design number	密封等级 Sealing level
HTS22	20、25、32、40、50、64	20、25、32、40、50、64	见轴伸尺寸 See shaft size	(从泵的轴端看) (View from shaft end of pump) R-顺时针旋转 R-Clockwise(CW) L-逆时针旋转 L-Counterclockwise(CCW)	见下图 See pic below	C	1-S1, 丁晴橡胶 NBR 5-S5, 氟橡胶 Fluorine rubber
HTS32	80、100、125、160	20、25、32、40、50、64					

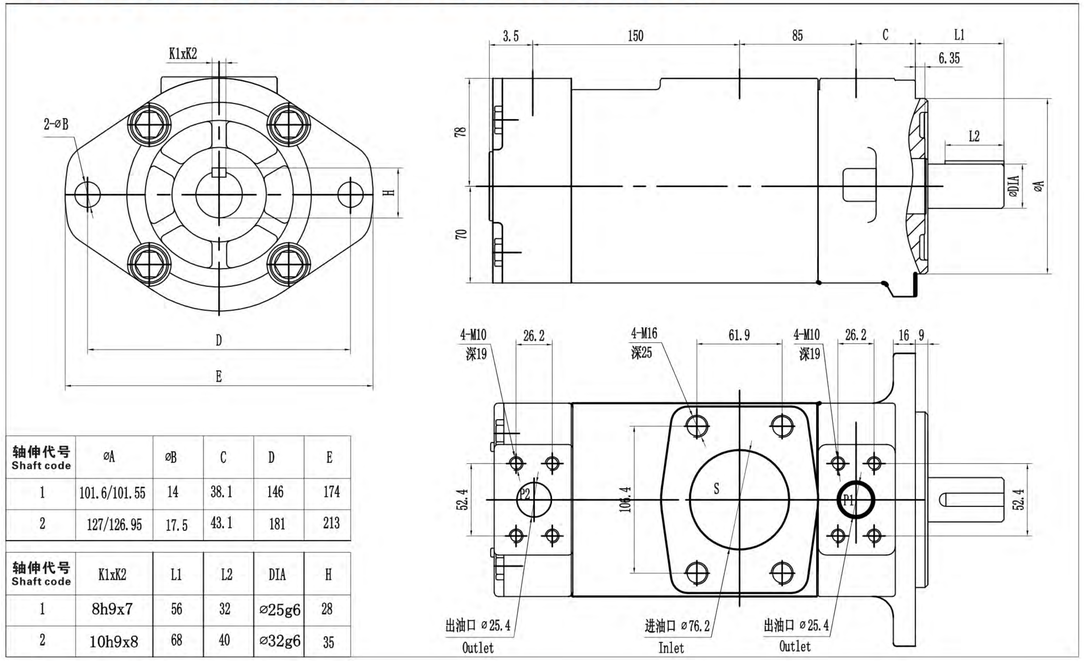
与相应系列、规格的单泵性能参数一致，详见HTS系列单泵的性能参数
Same as equivalent HTS single pump, see HTS series single pump performance for reference.

● 油口位置（从泵的轴端看）Port Positions (View from shaft end of pump)

HTS22
HTS32



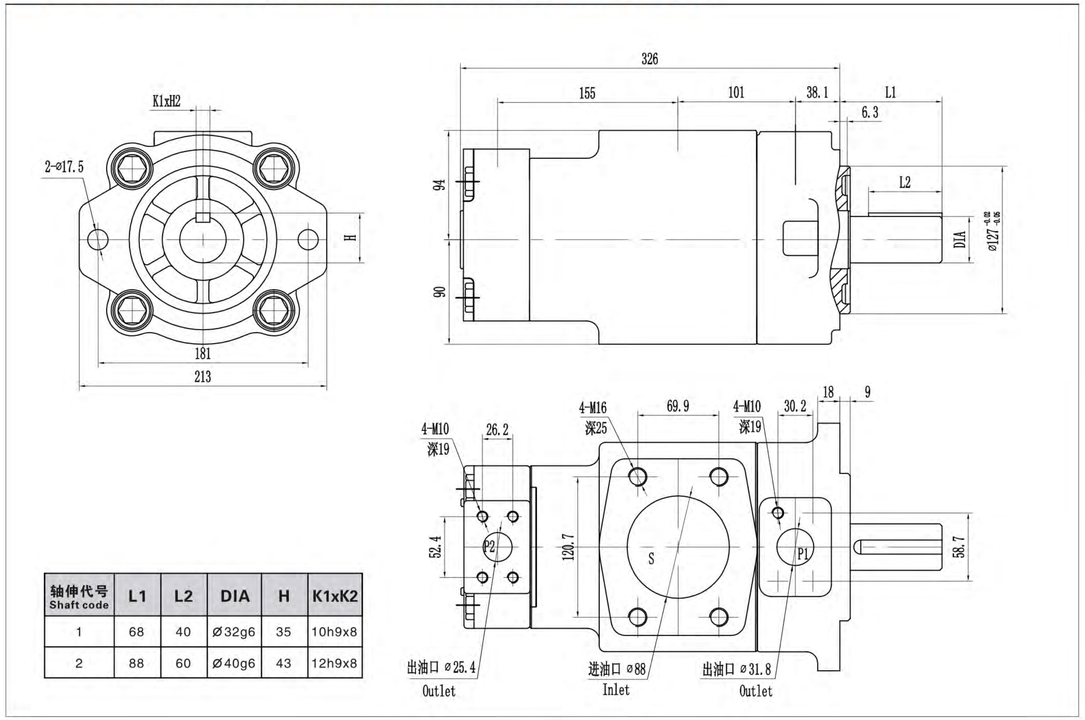
●HTS22安装连接尺寸/ HTS22 Installation Dimensions



轴伸代号 Shaft code	⌀A	⌀B	C	D	E
1	101.6/101.55	14	38.1	146	174
2	127/126.95	17.5	43.1	181	213

轴伸代号 Shaft code	K1xK2	L1	L2	DIA	H
1	8h9x7	56	32	⌀25g6	28
2	10h9x8	68	40	⌀32g6	35

●HTS32安装连接尺寸/ HTS32 Installation Dimensions



轴伸代号 Shaft code	L1	L2	DIA	H	K1xK2
1	68	40	Ø32g6	35	10h9x8
2	88	60	Ø40g6	43	12h9x8

QHP系列伺服叶片泵
QHP Series Servo Vane Pump

QHP系列伺服叶片泵是一款拥有自主知识产权的新型节能产品，该产品已取得二项发明专利和四项实用新型技术专利，广泛应用于塑胶机械、压铸机械、鞋革机械、纺织机械的伺服液压系统中。本产品可替换日本住友精密的QT系列内啮合齿轮泵。

QHP series servo pump is new energy-saving product of our company with comprehensive study of abroad hydraulic vane pump for advanced technology which can replace Japan SUMITOMO QT series internal gear pump. QHP series servo pump is self-developed product with independent intellectual property rights which has achieved an inventive patent and four utility model patents, the pump has been widely used in servo hydraulic systems of rubber and plastic machines, die-casting machines, shoes machines, textile machines etc.

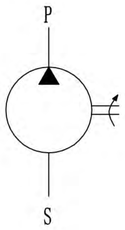
● QHP系列伺服叶片泵主要特点/ Characteristics of QHP Series Servo Pump

1.采用专利技术的新颖产品结构，容积效率高、噪音低、节能性好。
2.可在低速下启动，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。
3.抗污能力强、转速范围宽、使用寿命长。

1. New structure with patented technology, high volume efficiency, low noise, more energy saving.
2. The pump can run normally at low speed, can fit low and high speed shift, high and low pressure speed shift, positive and reverse operating fast speed shift of the servo hydraulic system.
3. Low noise, better pollution resistance, wide range of speed, longer working life.

● QHP系列伺服单泵/QHP Series Servo Single Pump





液压符号
Hydraulic sign

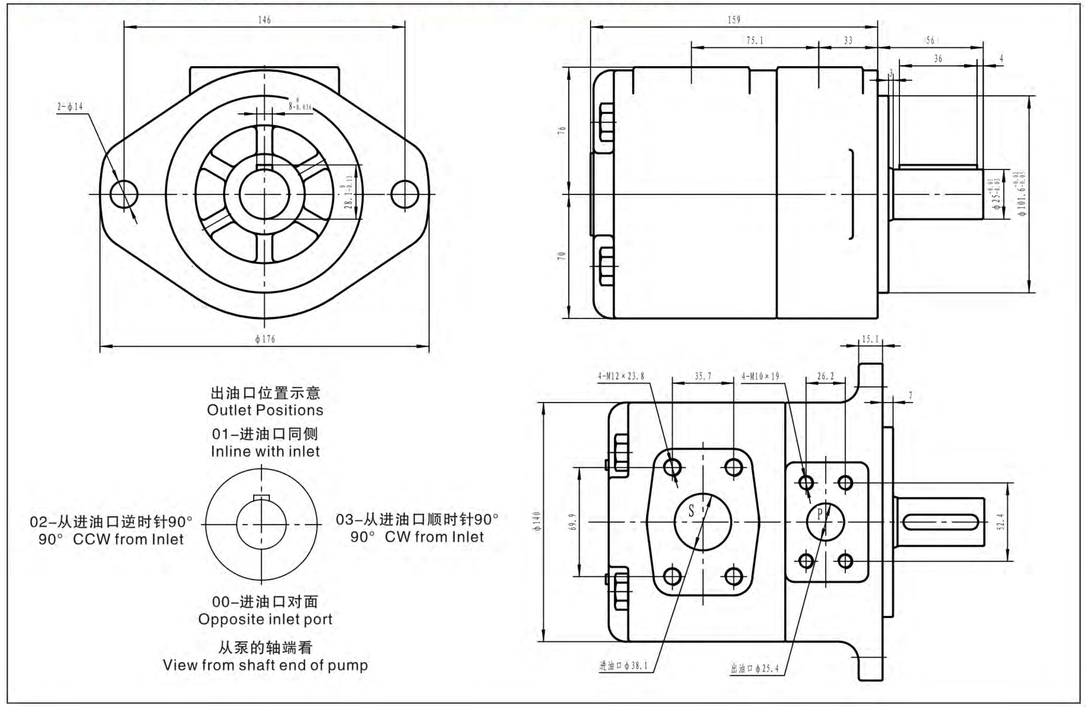
● 型号说明/Model Designation

QHP	-40	R	00	-B	1
系列号 Series	排量代号 Flow code	旋转方向 Rotation	出油口位置 Outlet port positions	设计号 Design number	密封等级 Sealing level
QHP1	16、20、25	(View from shaft end of pump) (从泵的轴端看) R–顺时针旋转 R–Clockwise(CW) L–逆时针旋转 L–Counterclockwise(CCW)	（从泵的轴端看） View 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	B	1–S1, 丁晴橡胶 NBR 5–S5, 氟橡胶 Fluorine rubber
QHP2	16、20、25、32、40、50、63				
QHP3	64、70、80、100、125、136、160				
QHP4	160、180、190、200				

●技术参数/Technological Parameters

系列号 Series	排量代号 Flow code	理论排量 Theoretical displacement ml/r	最高压力 Max. Pressure Mpa				最高转速 Max. Rotation speed r/min		最低转速 Min. Rotation 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	
			间歇 Instant	连续 Continuous	间歇 Instant	连续 Continuous			
QHP1	16	16.0	21	17.5	16	14	2800	2200	50
	20	20.0							
	25	25.2							
QHP 2	16	16.0	21	17.5	16	14	2800		
	20	20.0							
	25	25.2							
	32	32.1							
	40	40.1							
	50	50.3							
	63	63.5							
QHP3	64	64.5	17.5	16	16	14	2500		
	70	70.3							
	80	80.4							
	100	100.5							
	125	125.3							
	136	136.0							
	160	160.1							
QHP4	160	160.1	17.5	16	16	14	2200		
	180	180.0							
	190	190.0							
	200	200.5							

● QHP1安装连接尺寸 QHP1 Installation Dimensions



出油口位置示意
Outlet Positions

01–进油口同侧
Inline with inlet

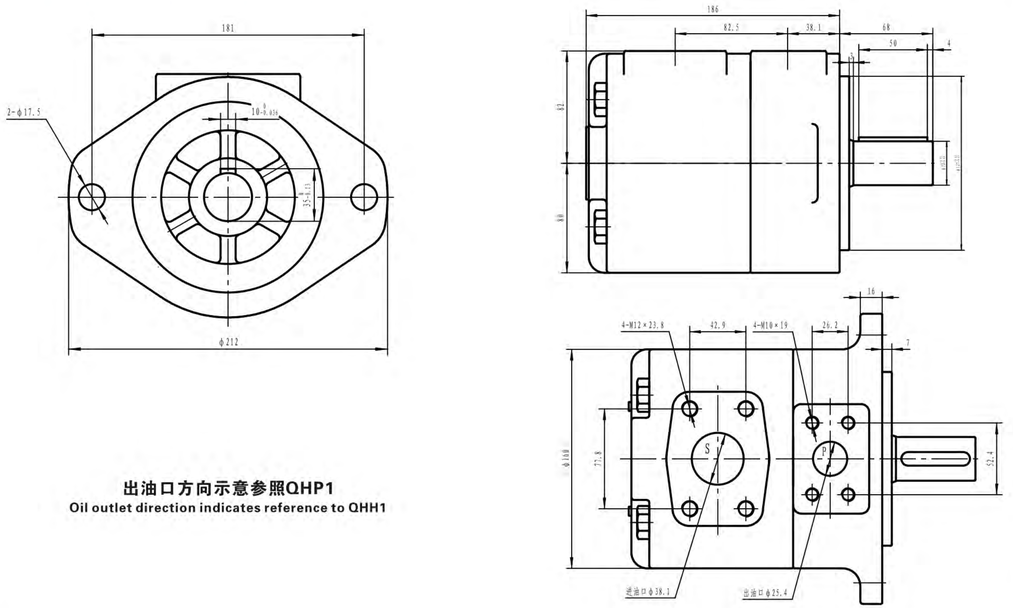
02–从进油口逆时针90°
90° CCW from Inlet

03–从进油口顺时针90°
90° CW from Inlet

00–进油口对面
Opposite inlet port

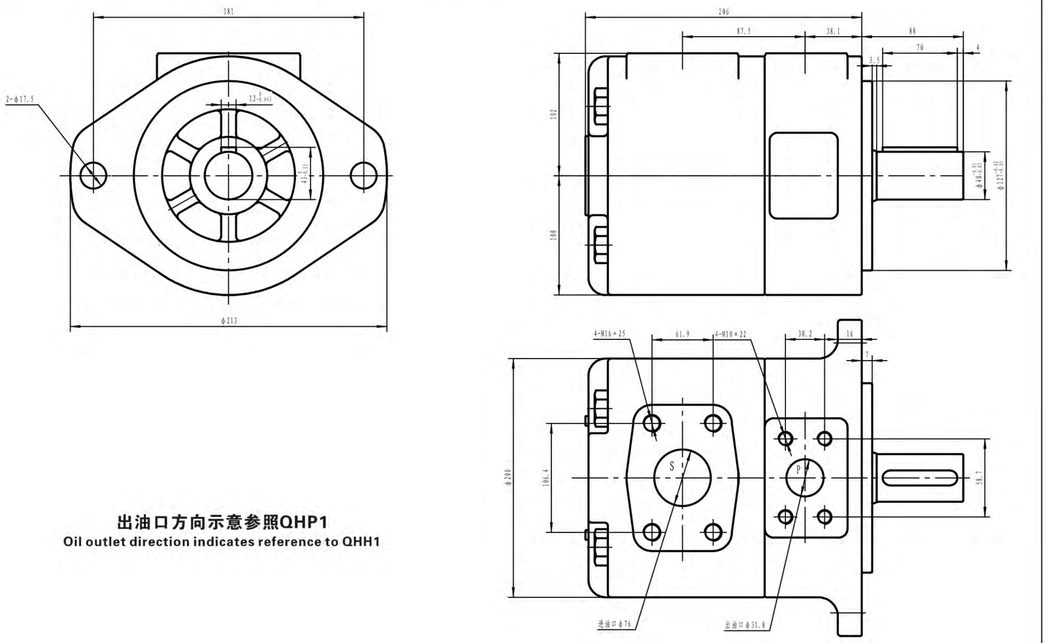
从泵的轴端看
View from shaft end of pump

● QHP2安装连接尺寸 QHP2 Installation Dimensions

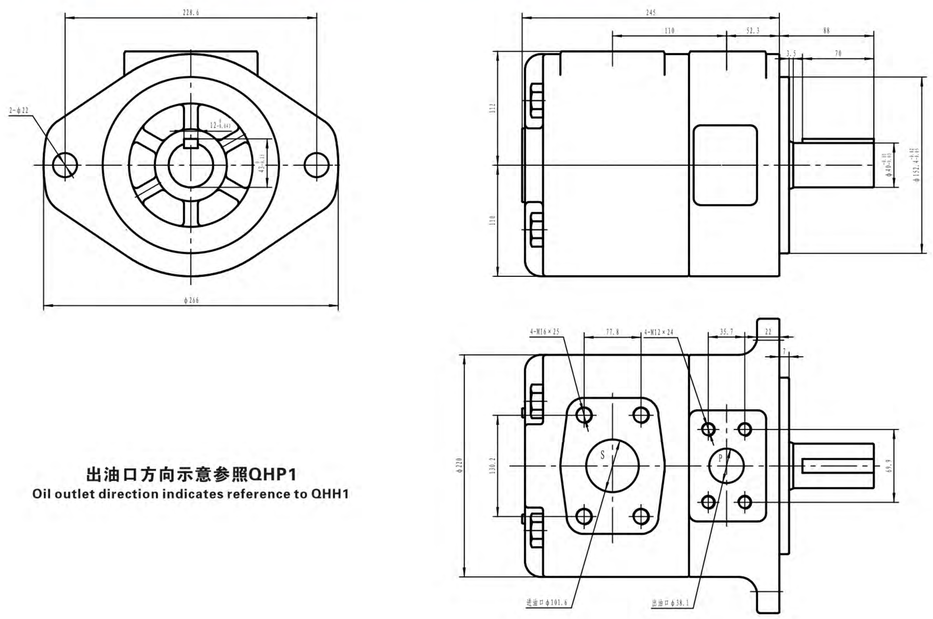


出油口方向示意参照QHP1
Oil outlet direction indicates reference to QHH1

● QHP3安装连接尺寸 QHP3 Installation Dimensions

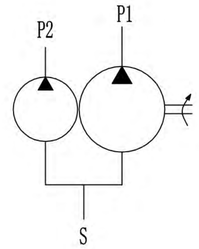


● QHP4安装连接尺寸 QHP4 Installation Dimensions



● QHP系列伺服双泵/QHP Series Servo Double Pump





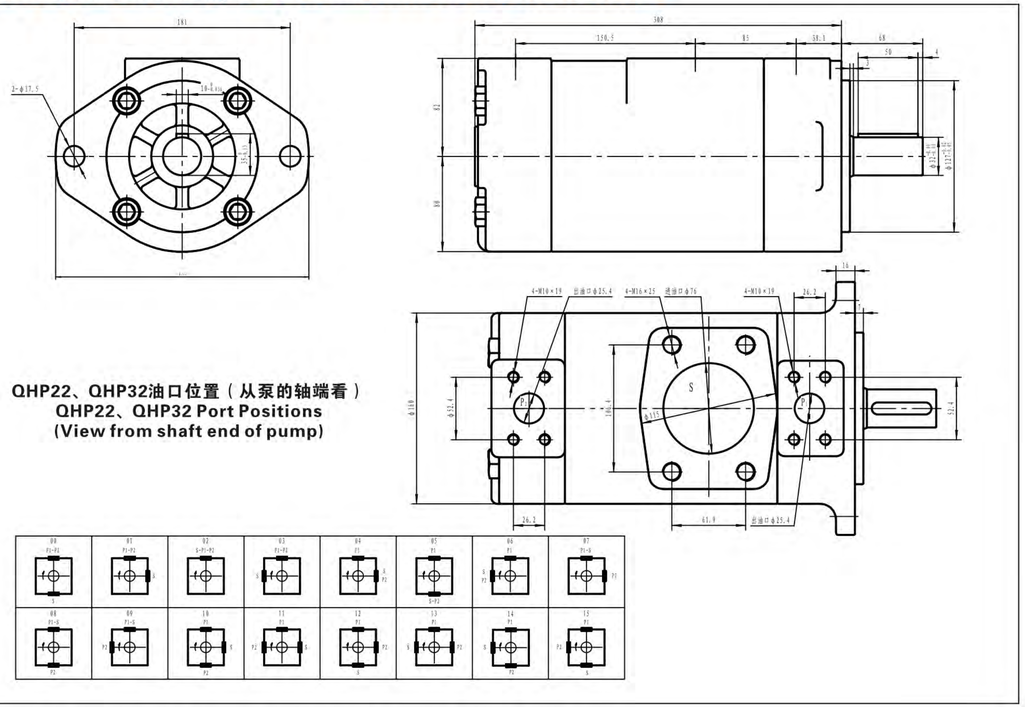
液压符号
Hydraulic sign

● 型号说明/Model Designation

QHP	-100	-50	-1	R	00	-C	1
系列号 Series	轴端泵排量代号 Flow code of shaft end pump	盖端泵排量代号 Flow code of cover end pump	轴伸形式 Shaft type	旋转方向 Rotation	出油口位置 Outlet port positions	设计号 Design number	密封等级 Sealing level
QHP22	16、20、25、32、40、50、63	16、20、25、32、40、50、63	见轴伸尺寸 See shaft size	(从泵的轴端看) (View from shaft end of pump) R-顺时针旋转 R-Clockwise(CW) L-逆时针旋转 L-Counterclockwise(CCW)	见下图 See pic below	c	1-S1, 丁晴橡胶 NBR 5-S5, 氟橡胶 Fluorine rubber
QHP32	64、70、80、100、125、136、160	16、20、25、32、40、50、63					

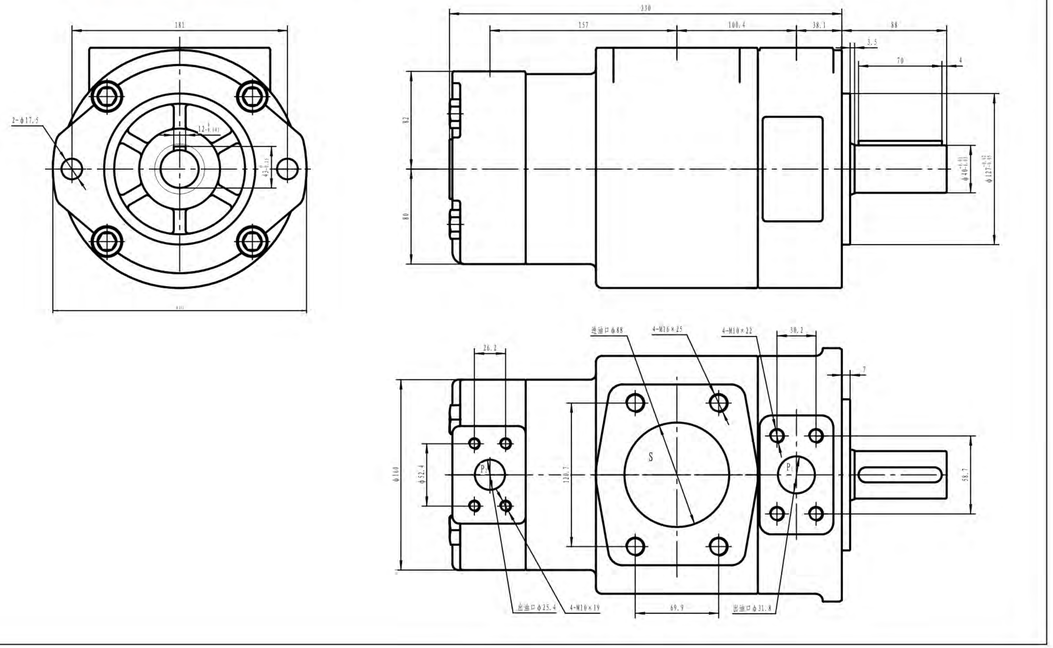
与相应系列、规格的单泵性能参数一致，详见QHP系列单泵的性能参数
Same as equivalent HTS single pump, see QHP series single pump performance for reference.

● QHP22安装连接尺寸/ QHP22 Installation Dimensions



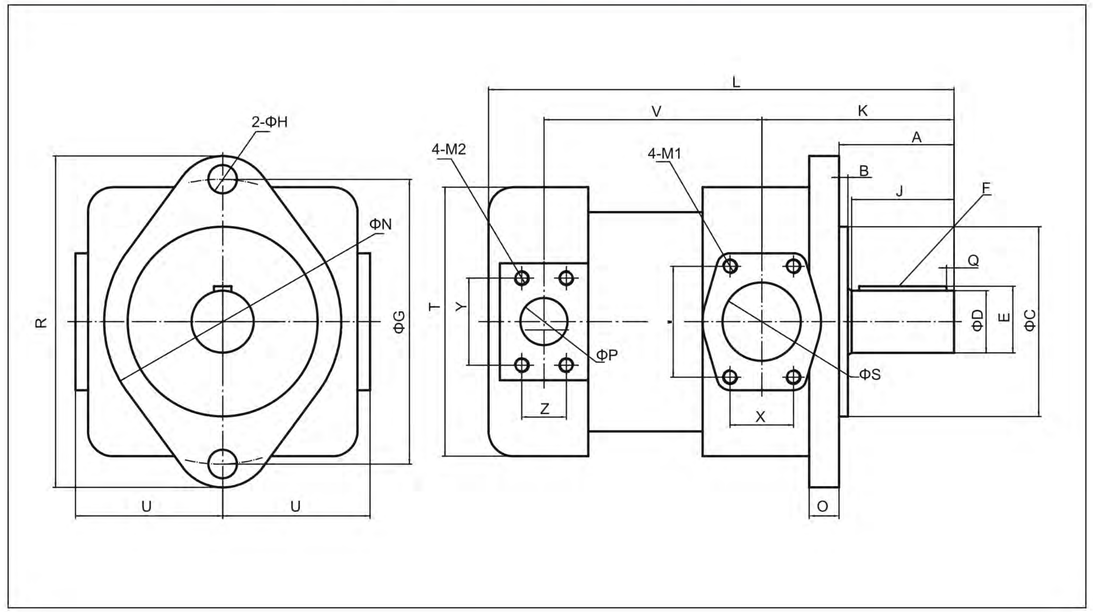
QHP22、QHP32油口位置（从泵的轴端看）
QHP22、QHP32 Port Positions
(View from shaft end of pump)

● QHP32安装连接尺寸/ QHP32 Installation Dimensions



住友内啮合齿轮泵安装连接尺寸

Sumitomo internal gear pump installation dimensions

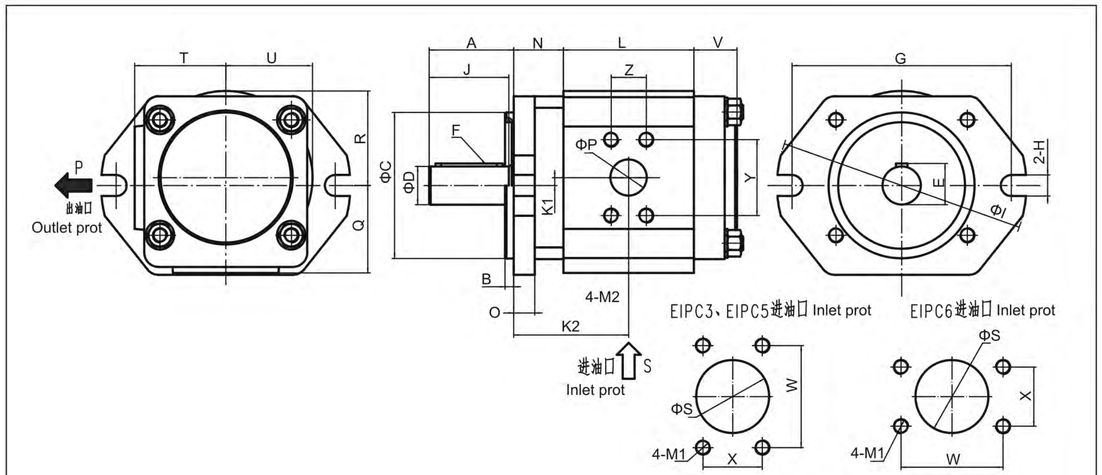


型号 Model	A	B	ΦC	ΦD	E	F键宽x长 key width x length	Q	2-ΦH	ΦG	J	K	V
QT42-31.5	68	7	Φ101.6 0 -0.05	Φ32 +0.011 -0.005	35	Φ10 0 -0.036 x50	4	2-Φ14.5	Φ146	58	115	114
QT42-40												
QT52-50	92	7	Φ127 0 -0.05	Φ40 +0.011 -0.005	43	Φ12 0 -0.043 x70	6	2-Φ18.5	Φ181	82	145	136
QT52-63												
QT62-80	92	7	Φ152.4 0 -0.05	Φ50 +0.011 -0.005	53.5	Φ14 0 -0.043 x70	6	2-Φ23	Φ228.6	82	154	174.5
QT62-100												
QT62-125												

型号 Model	L	ΦN	O	R	T	U	ΦS	W	X	M1	ΦP	Y	Z	M2
QT42-31.5	256	Φ125	16	172	139	75	Φ38	69.9	35.7	M12 deep 25	Φ25	52.4	26.2	M10 deep 20
QT42-40														
QT52-50	313	Φ150	20	214	170	93	Φ50	77.8	42.9	M12 deep 25	Φ32	58.7	30.2	M10 deep 20
QT52-63														
QT62-80	373	Φ190	24	266	216	118	Φ63	88.9	50.8	M12 deep 25	Φ38	69.9	35.7	M12 deep 25
QT62-100														
QT62-125														

艾可勒内啮合齿轮泵安装连接尺寸

Eckerle internal gear pump installation dimensions

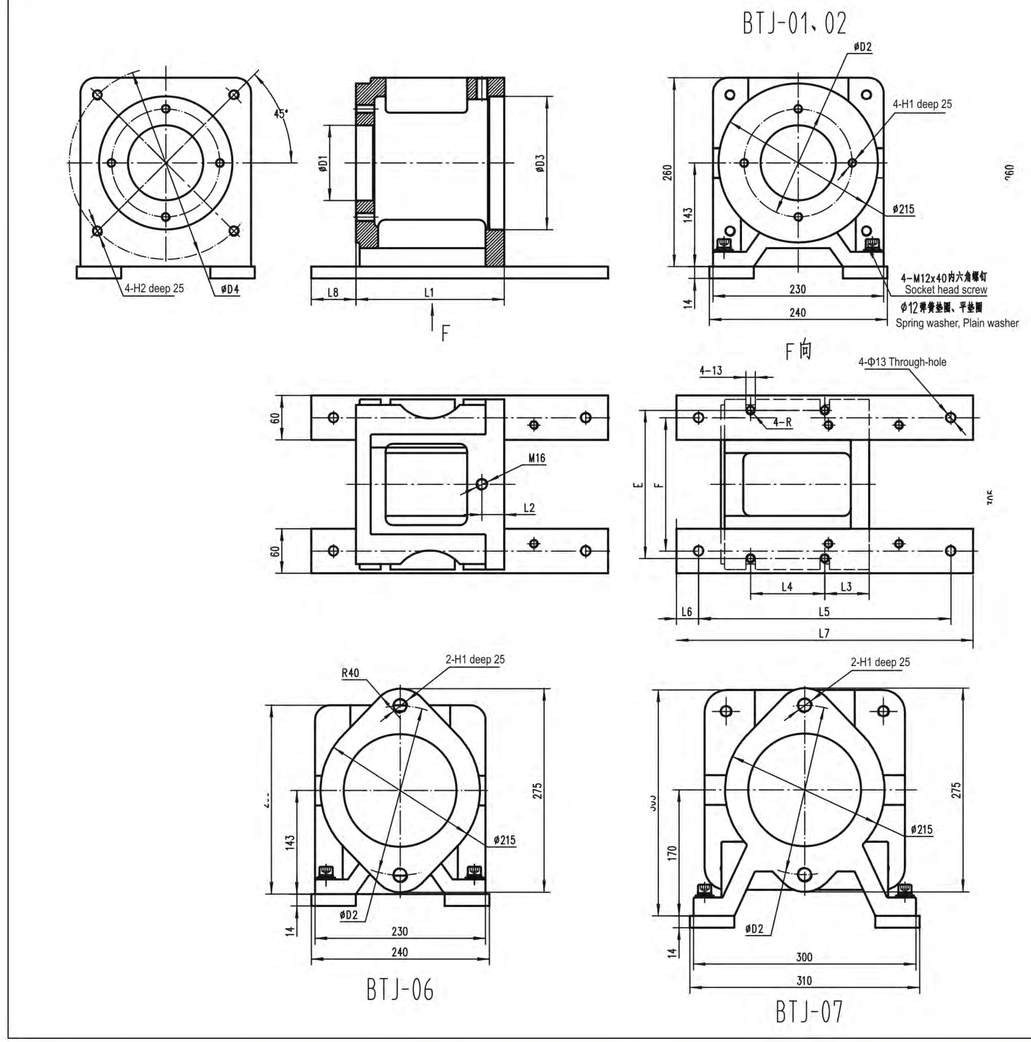


型号 Model	A	B	ΦC	ΦD	E	F键宽x长 key width x length	O	2-H	G	ΦI	J	K1	K2	V
EIPC3-32	56	6	Φ101.6h8	Φ25g6	28	8h9x36	13	2-13.5	146	Φ170	48	6.5	83.2	34
EIPC3-40													88.7	
EIPC3-50													95.7	
EIPC3-64													95.7	76
EIPC5-80	68	6	Φ127h8	Φ32g7	35	10h9x60	25	2-17.5	181	Φ208	70	8.3	92.5	41.5
EIPC5-100													100.5	
EIPC6-125	88	9	Φ152.4h8	Φ40g6	43	12h9x70	22	2-22	228.6	Φ260	83	8.3	109.5	45
EIPC6-160													120	

型号 Model	L	N	Q	R	T	U	ΦS	W	X	M1	ΦP	Y	Z	M2
EIPC3-32	114.4	26	57	67.5	64	65	Φ32	58.7	30.2	M10 deep17	Φ18	47.6	22.2	M10 deep 17
EIPC3-40	125.4										Φ20	52.4	26.2	M10 deep 17
EIPC3-50	139.4													
EIPC3-64	139.4													
EIPC5-80	93	46	75	82	75.5	76	Φ47.2	77.8	42.9	M12 deep 20	Φ31.75	66.7	31.8	M14 deep 24
EIPC5-100	109						Φ63.5	88.9	50.8	M12 deep 20				
EIPC6-125	115	52	91.2	98.8	95	90	Φ63.5	88.9	50.8	M12 deep 20	Φ38.1	79.4	36.5	M16深24
EIPC6-160	136						Φ76.2	106.4	61.9	M16 deep 22				

泵托架安装连接尺寸

Installation dimensions of pump bearing bracket



型号 Model	ΦD1	ΦD2	ΦD3	ΦD4	H1	H2	L1	L2	L3	L4	E	F	L5	L6	L7	L8
BTJ-01	Φ101.6 $^{+0.025}_{-0.010}$	Φ146	Φ180 $^{+0.039}_{0}$	Φ215	M12	M12	170	15	45	95	200	180	340	30	400	70
BTJ-02	Φ127 $^{+0.025}_{-0.010}$	Φ181	Φ180 $^{+0.039}_{0}$	Φ215	M16	M12	200	15	60	100	200	180	340	30	400	55
BTJ-06	Φ152.4 $^{+0.025}_{-0.010}$	Φ228.6	Φ180 $^{+0.039}_{0}$	Φ215	M20	M12	220	15	65	100	200	180	420	40	500	85
BTJ-07	Φ152.4 $^{+0.025}_{-0.010}$	Φ228.6	Φ250 $^{+0.039}_{0}$	Φ300	M20	M16	230	30	60	140	270	250	420	40	500	75