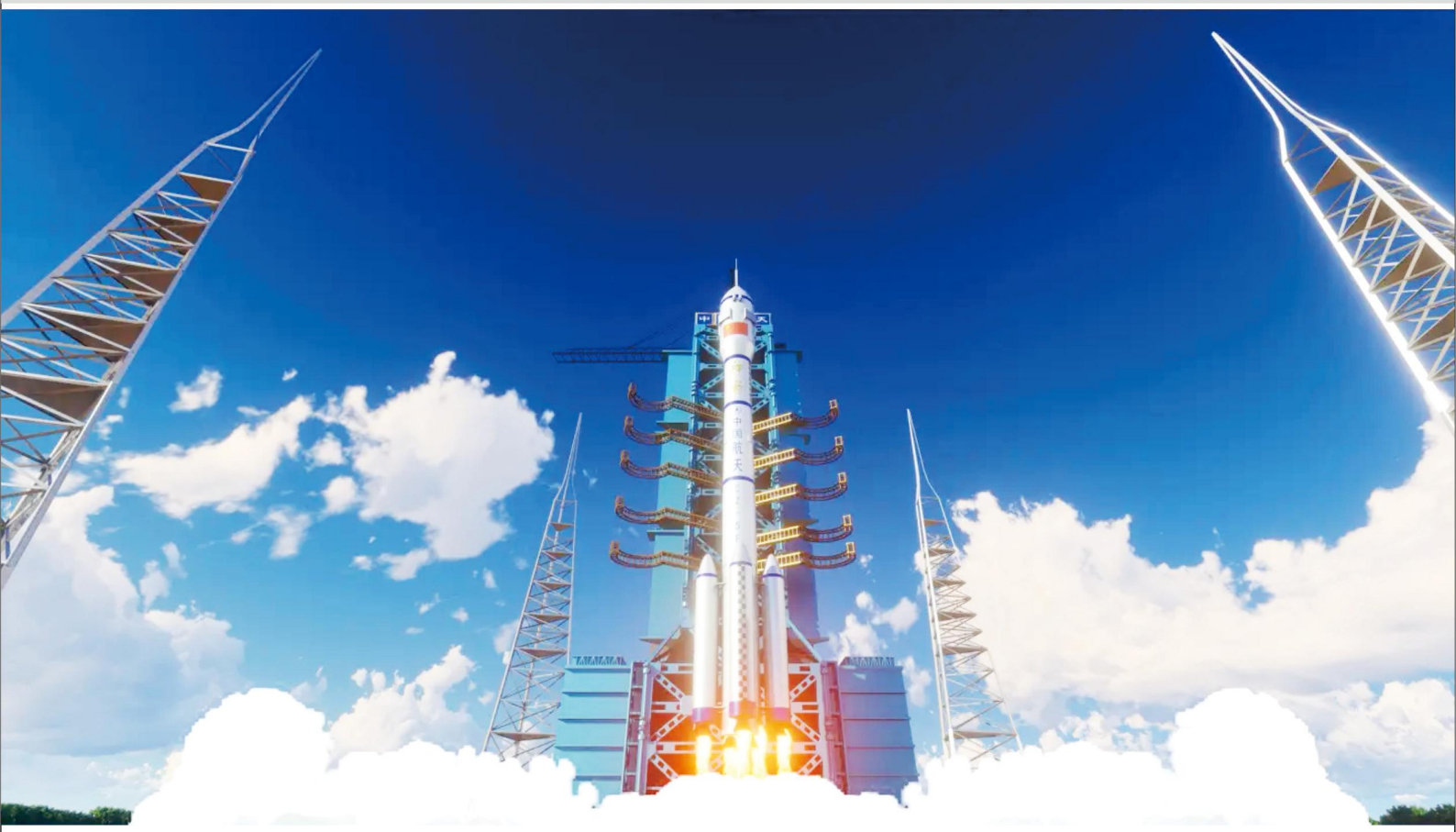
YUYAO
Hydraulic pressure

裕耀液压
YUYAO HYDRAULIC



合肥裕耀液压科技有限责任公司

HEFEI YUYAO HYDRAULIC TECHNOLOGY CO ., LTD

公司简介

国之重器下的液压技术，为现代工业提供源源不断的动力。裕耀液压，成立于2017年，专注于高端液压元件的研发与制造，致力于为客户提供专业高效的液压技术解决方案和产品。公司坐落于长江三角洲西翼、安徽省会、国家科教新城、现代制造业基地---合肥。

裕耀液压，引进国际尖端加工、检测、测试设备，形成一体化生产。汇聚行业专家及资深工程师，在技术方面不断研发和创新，专注于各类不同压力等级，流量范围，转速要求的液压泵的研发与生产，其产品压力等级从35兆帕到70兆帕，流量范围从微流量0.2ML/转到大流量280L/转，转速从民用2000转/分到特殊行业要求的8000转/分不等.

裕耀液压，销售网络遍布全国，与各地经销商、代理商携手共进，建立长期稳定合作关系，实现互利共赢，共推行业繁荣发展。2023年，裕耀液压在广州设立办事处，以此为新起点，迈向全球市场的广阔天地。

深挖客户需求，以可靠产品和高效服务助力合作伙伴，增强市场竞争力。我们的客户遍布工程机械、农业机械、煤矿机械、冶金化工、航空航天等行业以及非民用特殊产所，裕耀液压坚持为各行业提供专业高效的液压技术解决方案和产品。严谨、专注，专业,以客户为中心是我们的经营理念，确保售后无忧是我们的服务宗旨。

未来我们将持续为全球客户提供更加可靠的液压解决方案，朝着数字化，智能化方向不断前行。“裕”见液压，“耀”动未来，裕耀液压愿与您携手共创美好未来！

Company profile

As a strategic significance, hydraulic technology supplies continuous power for modern industry. YUYAO Hydraulics was founded in the year of 2017, we focus on the research and manufacturing of high quality hydraulic components, devote to provide professional, high efficiency and precise hydraulic technology solutions and products to customers. Our company is located in the west of Yangtze River Delta region, in the city of Hefei, which is the capital city of Anhui Province, the new city of national science and education, and a city of modern manufacturing base.

We import international advanced equipment of manufacturing, inspection and test, to form an integrated production; Thanks to the continuous innovation, efforts of industry experts and senior engineers, we are able to meet the requirement of producing hydraulic pumps with different pressure levels, flow ranges and rotation speed, the pressure level ranges from 35 MPa to 70 MPa, the flow ranges from 0.2 ML/R to 280 L/R, and the rotation speed covers from 2000 RPM for civil use to 8000 RPM for special industry needs.

With a sales network all over the country, YUYAO Hydraulics works together with dealers and agents around the country to establish long-term and stable cooperative relations, achieve mutual benefit and win-win business, and jointly promote the prosperity and development of the industry. In the year of 2023, YUYAO Hydraulics set up an office in Guangzhou, taking this as a new starting point towards the global market.

To deeply explore customer needs, we help our partners with reliable products and efficient services to enhance market competitiveness. Our customers come from the industry of construction machinery, agricultural machinery, coal mining machinery, metallurgy, chemical, aerospace and other non-civil special production institutes. YUYAO Hydraulics insists on providing customers with professional and efficient hydraulic technology solutions and products for various industries. Rigorous, dedicated, professional, customer-oriented is our business philosophy, to ensure worry-free after-sales service is our promise.

In the coming future, we will continue to provide more reliable hydraulic solutions for global customers, and aim to move forward in the direction of digitization and intelligence. "Meet" YUYAO hydraulics, "Shine" the future, YUYAO hydraulics is ready to work with you to create a better future!

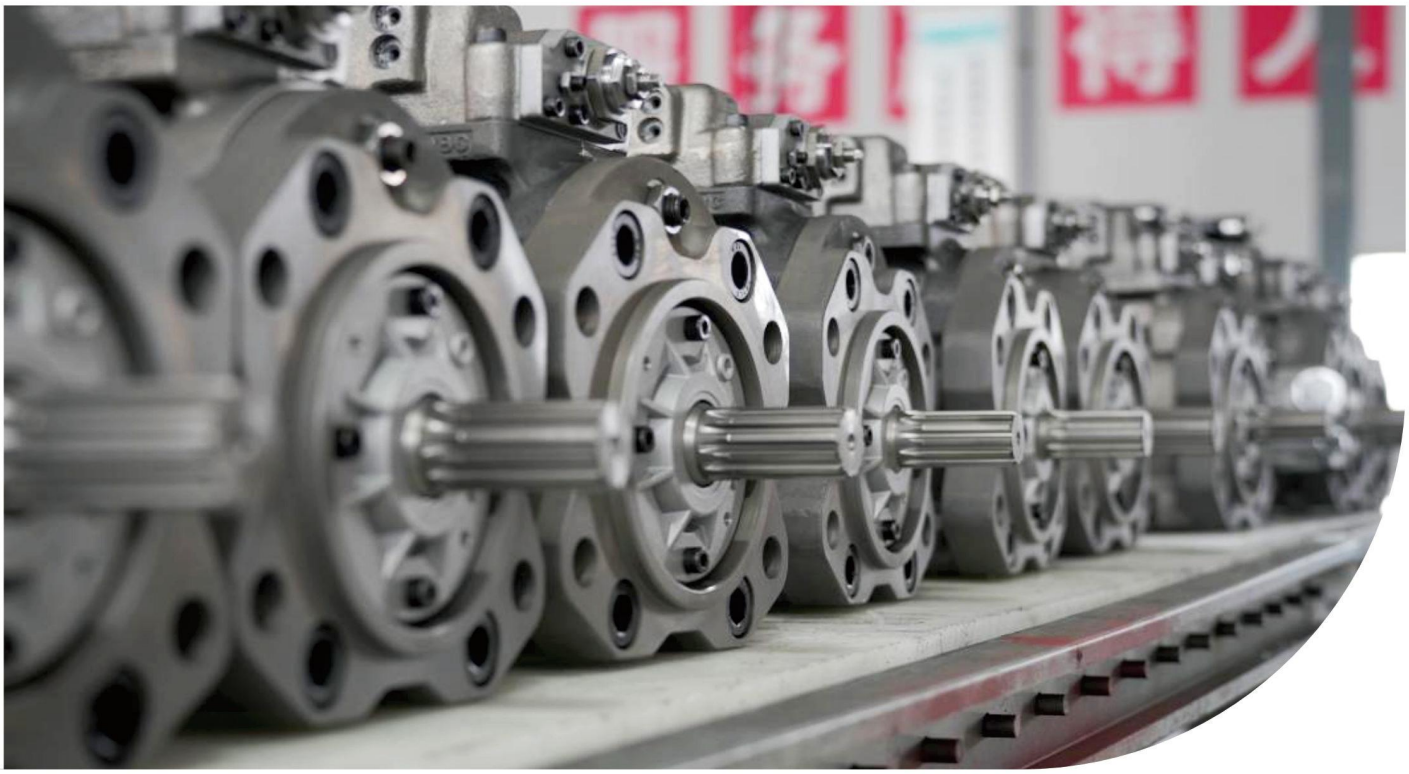
公司实景介绍
Introduction of the company





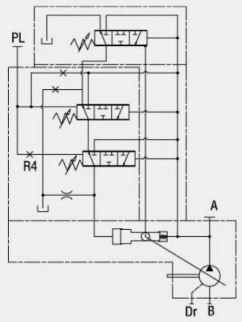



液压泵测
试台 1

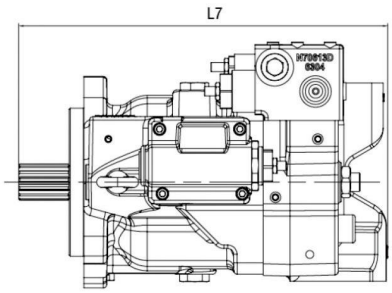


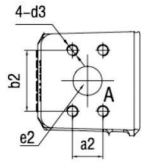
HK3VL80
Hydraulic Pump

Hydraulic Circuit

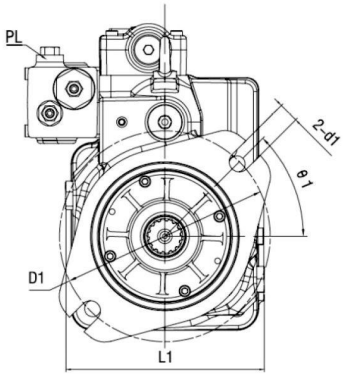


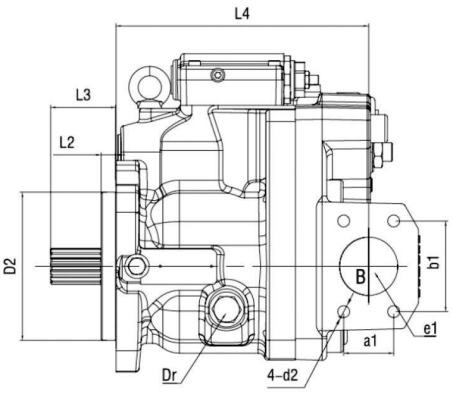


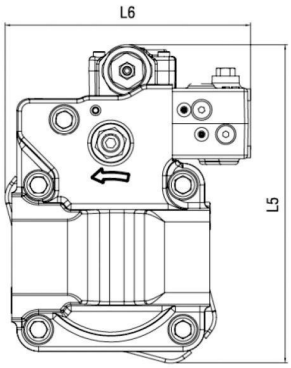




Outlet Port







Size

Model	a1	b1	e1	a2	b2	e2	d1	d2	d3	D1	D2
HK3VL80	42.9	77.8	ϕ50	26.2	52.4	ϕ25	17.5	M12-24	M10-20	ϕ181	ϕ127
	θ1	L1	L2	L3	L4	L5	L6	L7	Dr	PL	
	45°	170	12.4	56	217	273	211	316	3/4-16UNF	7/16-20UNF	

Specification

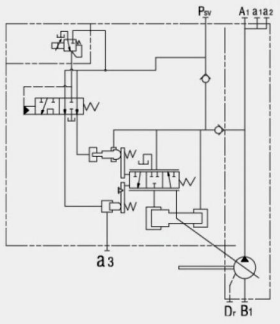
Model	Displacement(cc/rev)	Rated Pressure(MPa)	Max Pressure(MPa)
HK3VL80	80	32	35
	Max Speed(rpm)	Weight(kg)	Application Weight(ton)
	2400	35	7.5

Shaft Spec

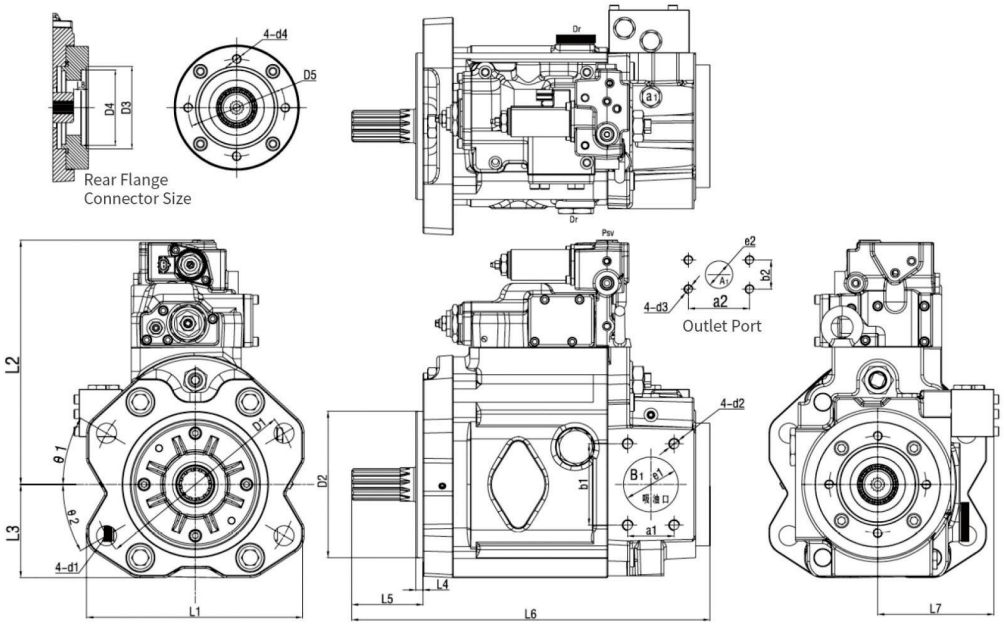
Model	Teeth No	Module
HK3VL80	14	12/24
	Pressure Angle	Standard
	30°	SAE

HK3V63S/112S/140S/180S/140S
Hydraulic Pump





Hydraulic Circuit



Size

Model	a1	b1	e1	a2	b2	e2	d1	d2	d3	d4		D1	D2	D3	
HK3V63S	35.7	69.9	ϕ38	27.8	57.2	ϕ25	ϕ18	M12-18	M10-18	-	-	ϕ180	ϕ125	-	-
HK3V112S/140S	50.8	88.9	ϕ60	66.8	31.8	ϕ30	ϕ22	M12-18	M12-16	M12-18 (Big Flange)	M10-16 (Small Flange)	ϕ224	ϕ160	ϕ110 (Big Flange)	ϕ90 (Small Flange)
HK3V180S	61.9	106.4	ϕ76	36.5	79.4	ϕ34	ϕ22	M16-29	M16-24	M12-12 (Big Flange)	M10-17 (Small Flange)	ϕ250	ϕ180	ϕ110 (Big Flange)	ϕ90 (Small Flange)

Model	D4		D5		θ1	θ2	L1	L2	L3	L4	L5	L6	L7	Psv	Dr
HK3V63S	-	-	-	-	30°	30°	190	242	89	8	76	421.5 (Gear Pump included)	-	PF1/4	PF1/2
HK3V112S/140S	ϕ101.6 (Big Flange)	ϕ82.55 (Small Flange)	ϕ146 (Big Flange)	ϕ106 (Small Flange)	30°	30°	236	267	102	8	78	392	127	PF1/4	PF3/4
HK3V180S	ϕ101.6 (Big Flange)	ϕ82.55 (Small Flange)	ϕ146 (Big Flange)	ϕ106 (Small Flange)	30°	30°	259	292	114	8	93	458.5	145	PF1/4	PF3/4

Input Shaft Spec

Model	Teeth No	Module	Pressure Angle	Standard
HK3V63S	14	12/24	30°	SAE
HK3V112S	12	2.5	20°	JIS
	14	2.5	20°	JIS
HK3V140S	12	2.5	20°	JIS
	17	2.5	20°	JIS
HK3V140S HK3V180S	17	2.5	20°	JIS

Output Shaft Spec

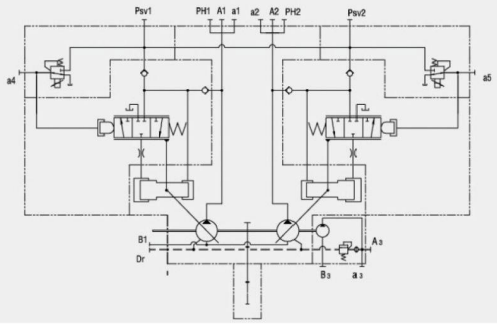
Model	Teeth No	Module	Pressure Angle	Standard
HK3V63S	13	1	20°	JIS
HK3V112S/ 140S	9	16/32	30°	ANSI B92.1a
	13	16/32	30°	SAE
	13	1	20°	JIS
HK3V140S HK3V180S	13	16/32	30°	ANSI B92.1a

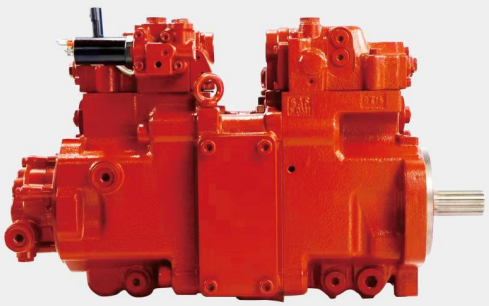
Specification

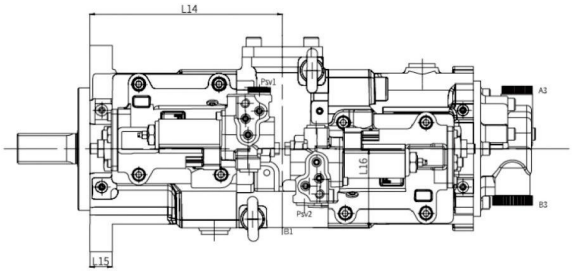
Model	Displacement (cc/ rev)	Rated Pressure (MPa)	Max Pressure (MPa)	Max Speed (rpm)	Weight (kg)	Application Weight (ton)
HK3V63S	63	34.3	39.2	2650	51	modified machine
	15	3.9-4.1				
HK3V112S	112	34.3	39.2	2360	70	concrete machine
HK3V140S	140	34.3	39.2	2150	70	concrete machine
HK3V140S	140	34.3	39.2	2150	104	concrete machine
HK3V180S	180	34.3	39.2	1950	104	concrete machine

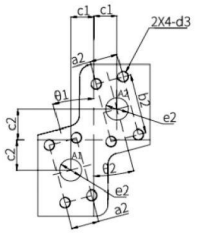
HK7V63DTP/80DTP
Hydraulic Pump

Hydraulic Circuit

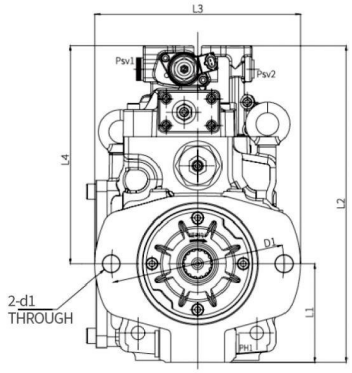


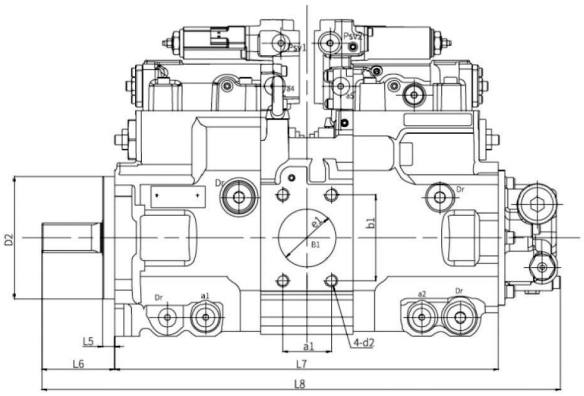


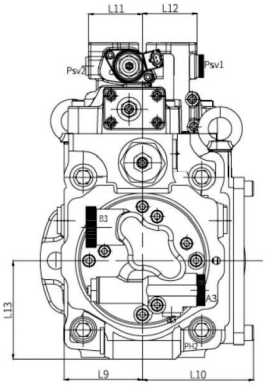




Oil Outlet Port







Size

Model	a1	b1	e1	a2	b2	e2	c1	c2	d1	d2	d3
HK7V63DTP/ 80DTP	50.8	88.9	Φ60	23.8	50.8	Φ19	20	26	Φ18	M12-18	M10-16
	D1	D2	θ1	θ2	L1	L2	L3	L4	L5	L6	L7
	Φ181	Φ127	15°	15°	102	329	214.5	227	12.7	76	401
	L8	L9	L10	L11	L12	L13	L14	L15	L16	Psv1	Psv2
	542	82	116	57	56	102	201	23	82	PF1/4	PF1/4
	PH1	PH2	Dr	A3	B3	a1	a2	a3	a4	a5	
	PF3/8	PF3/8	PF1/2	PF1/2	PF3/4	PF1/4	PF1/4	PF1/4	PF1/4	PF1/4	

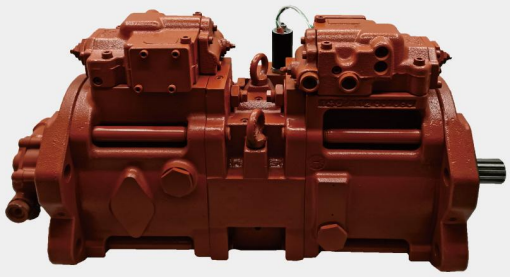
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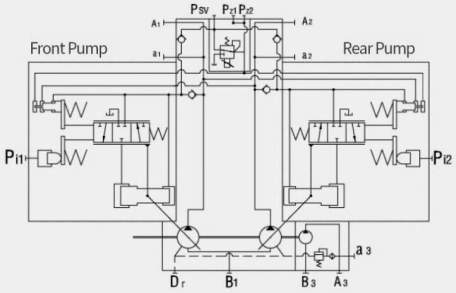
Model	Displacement (cc/rev)	Rated Pressure (MPa)	Max Pressure (MPa)	Max Speed (rpm)	Weight (kg)	Application Weight (ton)
HK7V63DTP	63x2	34.3	39.2	2650	82	13~17
	10	3.9-4.1				
HK7V80DTP	80x2	34.3	39.2	2500	85	15-17
	10	3.9-4.1				

Shaft Spec

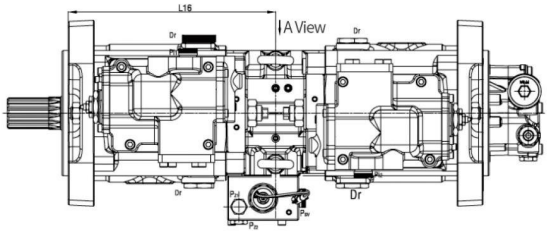
Model	Teeth No	Module
HK7V63DTP	14	12/24
HK7V80DTP	14	12/24
Model	Pressure Angle	Standard
HK7V63DTP	30°	SAE
HK7V80DTP	30°	SAE

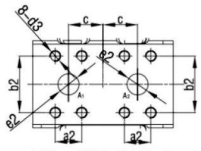
HK3V63/80/112/140/180DT
Hydraulic Pump



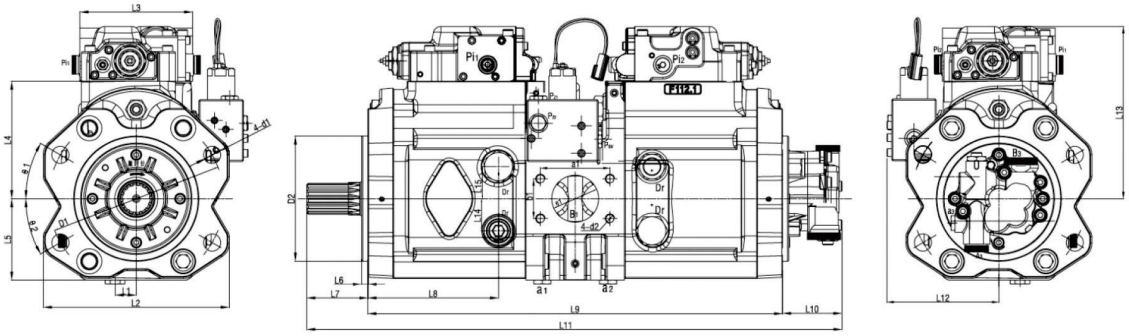


Hydraulic Circuit





A View: Oil Outlet Port



Size

Model	a1	b1	e1	a2	b2	e2	c	d1	d2	d3	D1	D2	θ1	θ2	L1	L2	L3	L4	L5
HK3V63/80DT	88.9	50.8	ϕ60	23.8	50.8	ϕ19	31	ϕ18	M12-18	M10-16	ϕ180	ϕ125	30°	30°	23	190	140	125	92
HK3V112DT	88.9	50.8	ϕ60	23.8	50.8	ϕ19	31	ϕ22	M12-18	M10-16	ϕ224	ϕ160	30°	30°	27	238	144	150	104
HK3V180DT HK3V140DT	106.4	61.9	ϕ76	27.8	57.2	ϕ25	37.5	ϕ22	M16-24	M12-22	ϕ250	ϕ180	30°	30°	34	259	144	175	116
Model	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16	Pi1	Pi2	Psv	Pz1	Pz2	Dr	A3	B3
HK3V63/80DT	8	76	138	456	86	618	-	195	37	37	228	PF1/4	PF1/4	PF1/4	PF1/4	PF1/4	PF1/2	PF1/2	PF3/4
HK3V112DT	8	78	167	530	86	694	142	220	41	41	265	PF1/4	PF1/4	PF1/4	PF1/4	PF1/4	PF3/4	PF1/2	PF3/4
HK3V140DT HK3V180DT	8	93	190	610	86	789	155	245	53	53	305	PF1/4	PF1/4	PF1/4	PF1/4	PF1/4	PF3/4	PF1/2	PF3/4

Specification

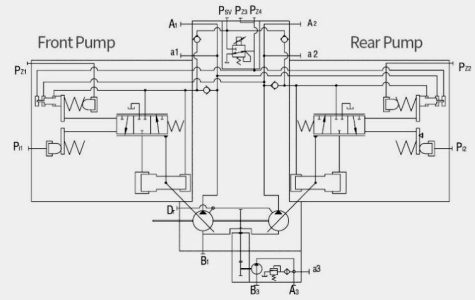
Model	Displacement (cc/rev)	Rated Pressure (MPa)	Max Pressure (MPa)	Max Speed (rpm)	Weight (kg)	Application Weight(ton)
HK3V63DT	63X2	34.3	39.2	2650	88	13~ 17
	15	3.9-4.1				
HK3V80DT	80X2	34.3	39.2	2460	88	13~ 17
	10/15	3.9-4.1				
HK3V112DT	112X2	34.3	39.2	2360	134	20~ 25
	10/15 (Optional)	3.9-4.1				
HK3V140DT	140X2	34.3	39.2	2150	160	29~ 37
	15	3.9-4.1				
HK3V180DT	180X2	34.3	39.2	1950	160	39~ 45
	15	3.9-4.1				

Shaft Spec

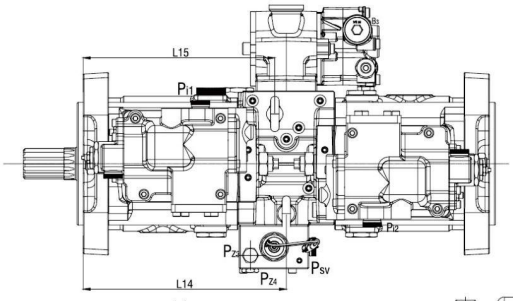
Model	Teeth No	Module
HK3V63DT	14	12/24
	Teeth No	Module
	30°	SAE
HK3V80DT	Teeth No	Module
	12	2.5
	Pressure Angle	Standard
	20°	JIS
HK3V112DT	Teeth No	Module
	12/14(Optional)	2.5
	Pressure Angle	Standard
	20°	JIS
HK3V140DT	Teeth No	Module
	14/17(Optional)	2.5
	Pressure Angle	Standard
	20°	JIS
HK3V180DT	Teeth No	Module
	17	2.5
	Pressure Angle	Standard
	20°	JIS

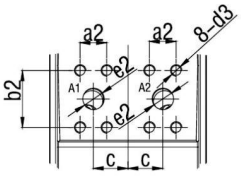
HK3V63/80/112/140/180DTP
Hydraulic Pump

Hydraulic Circuit

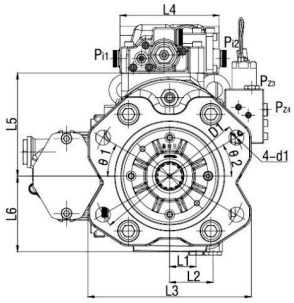


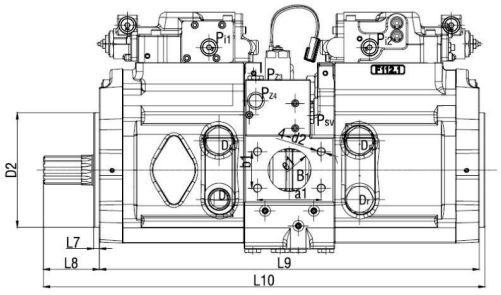


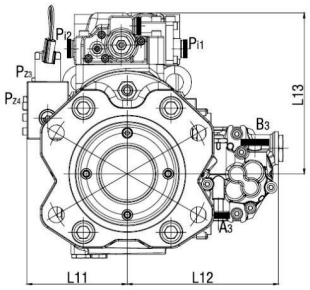




Oil Outlet Port







Size

Model	a1	b1	e1	a2	b2	e2	c	d1	d2	d3	D1	D2	θ1	θ2	L1	L2	L3
HK3V63/80DTP	88.9	50.8	ϕ60	23.8	50.8	ϕ19	31	ϕ18	M12-18	M10-16	ϕ180	ϕ125	30°	30°	33	—	192
HK3V112/140DTP	88.9	50.8	ϕ60	23.8 (Small Hole) 27.8 (Big Hole)	50.8 (Small Hole) 57.2 (Big Hole)	ϕ19 (Small Hole) ϕ25 (Big Hole)	31 (Small Hole) 38 (Big Hole)	ϕ22	M12-18	M10-16 (Small Hole) M12-22 (Big Hole)	ϕ224	ϕ160	30°	30°	38.5	63	238
HK3V180DTP HK3V140DTP	106.4	61.9	ϕ76	27.8	57.2	ϕ25	42	ϕ22	M16-24	M12-22	ϕ250	ϕ180	30°	30°	45	—	259

Model	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15	Pi1	Pi2	Dr	A3	B3
HK3V63/80DTP	144	125	110	8	76	456	618(Gear Pump included)	—	218	195	228	228	PF1/4	PF1/4	PF1/2	PF1/2	PF3/4
HK3V112/140DTP	144	150	110	8	78	530	616	137	207	220	265	250	PF1/4	PF1/4	PF3/4	PF1/2	PF3/4
HK3V180DTP HK3V140DTP	144	175	123	8	93	610	711	155	286	245	305	289	PF1/4	PF1/4	PF3/4	PF1/2	PF3/4

Specification

Model	Displacement (cc/rev)	Rated Pressure (Mpa)	Max Pressure (Mpa)	Max Speed (rpm)	Weight (kg)	Application Weight(ton)
HK3V63DTP	63×2	34.3	39.2	2650	102	13～17
	15	3.9-4.1				
HK3V80DTP	80×2	34.3	39.2	2460	102	13～17
	10/15	3.9-4.1				
	15+7	16	20			
HK3V112DTP	112×2	34.3	39.2	2360	148	20～25
	10/15	3.9-4.1				
HK3V140DTP	140×2	34.3	39.2	2150	148	29～37
HK3V140DTP	15	3.9-4.1			182	
HK3V180DTP	180×2	34.3	39.2	1950	182	39～45
	15	3.9-4.1				

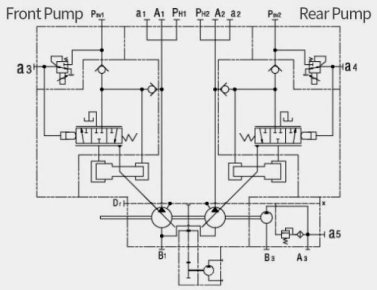
Shaft Spec

Model	Teeth No	Module	Pressure Angle	Standard
HK3V63DTP	14	12/24	30°	SAE
HK3V80DTP	12	2.5	20°	JIS
HK3V112DTP	14	2.5	20°	JIS
HK3V140DTP HK3V140DTP HK3V180DTP	17	2.5	20°	JIS

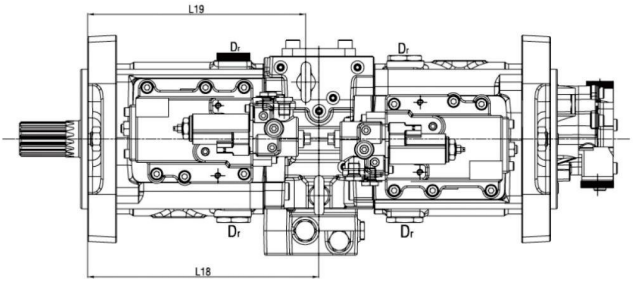
HK3V112/HK5V140DTP

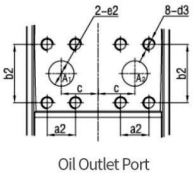
Hydraulic Pump

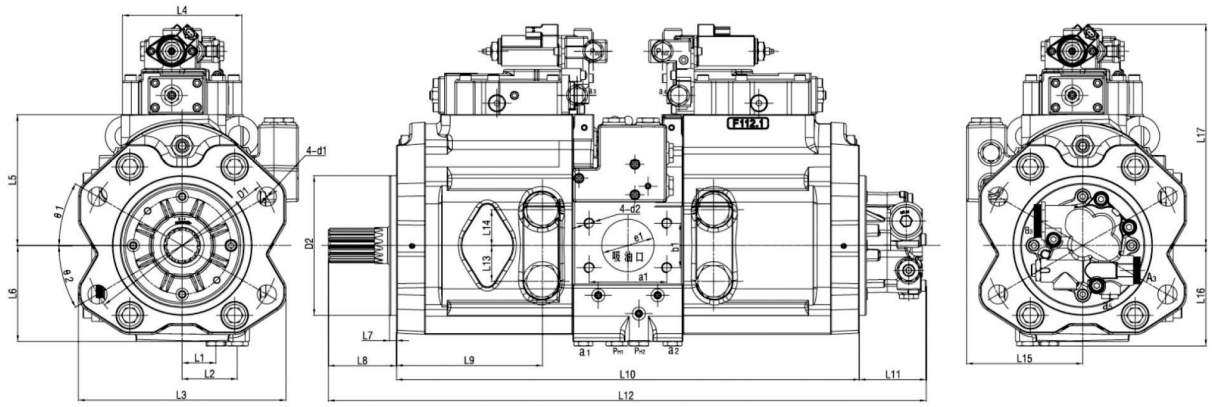




Hydraulic Circuit







Size

Model	a1	b1	e1	a2		b2		e2		c		d1	d2	d3
HK3V112/ HK5V140DTP	88.9	50.8	ϕ60	27.8 (Big Hole)	23.8 (Small Hole)	57.2 (Big Hole)	50.8 (Small Hole)	ϕ25 (Big Hole)	ϕ19 (Small Hole)	36 (Big Hole)	31 (Small Hole)	ϕ22	M12-18	M-12-22 (Big Hole) M10-16 (Small Hole)
	D1	D2	θ1	θ2	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10
	ϕ224	ϕ160	30°	30°	38.5	63	238	136.4	150	110	8	78	167	530
	L11	L12	L13	L14	L15	L16	L17	L18	L19	Psv1	Psv2	Dr	A3	B3
	76	685	41	41	133	115	253	265	250	PF1/4	PF1/4	PF3/4	PF1/2	PF3/4

Specification

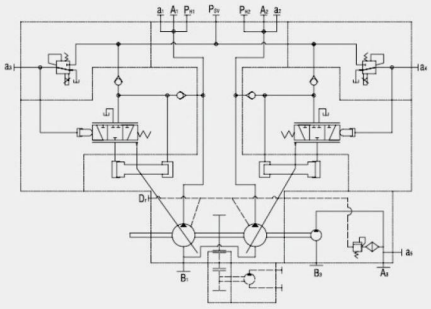
Model	Displacement (cc/rev)	Rated Pressure (Mpa)	Max Pressure (Mpa)	Max Speed (rpm)	Weight (kg)	Application Weight(ton)
HK3V112DTP	112×2	34.3	39.2	2360	148	20 ～ 25
	10/15(Optional)	3.9				
HK5V140DTP	140×2	34.3	39.2	2150	149	30 ～ 35
	15	3.9				

Shaft Spec

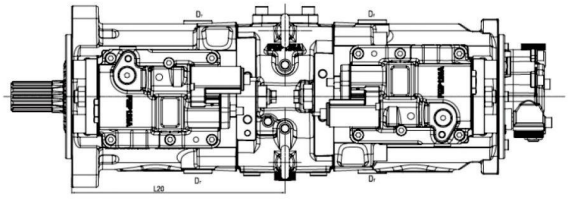
Model	Teeth No	Module
HK3V112DTP	14	2.5
	Pressure Angle	Standard
	20°	JIS
Model	Teeth No	Module
HK5V140DTP	17	2.5
	Pressure Angle	Standard
	20°	JIS

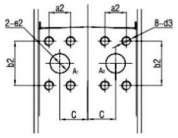
HK7V125/140DTP
Hydraulic Pump

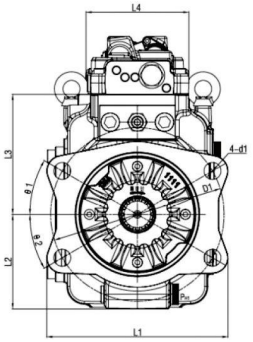
Hydraulic Circuit

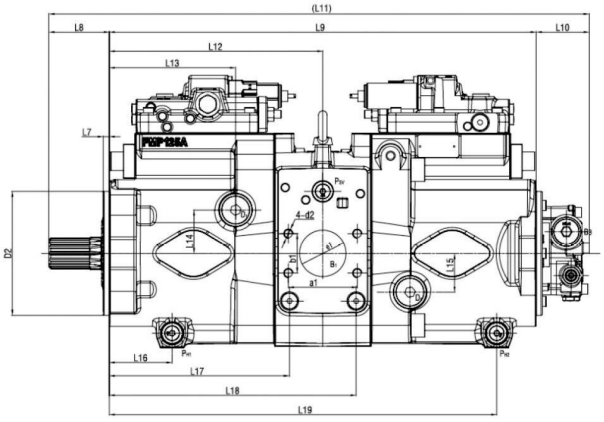


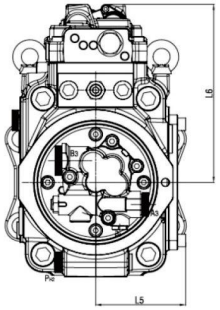












Size

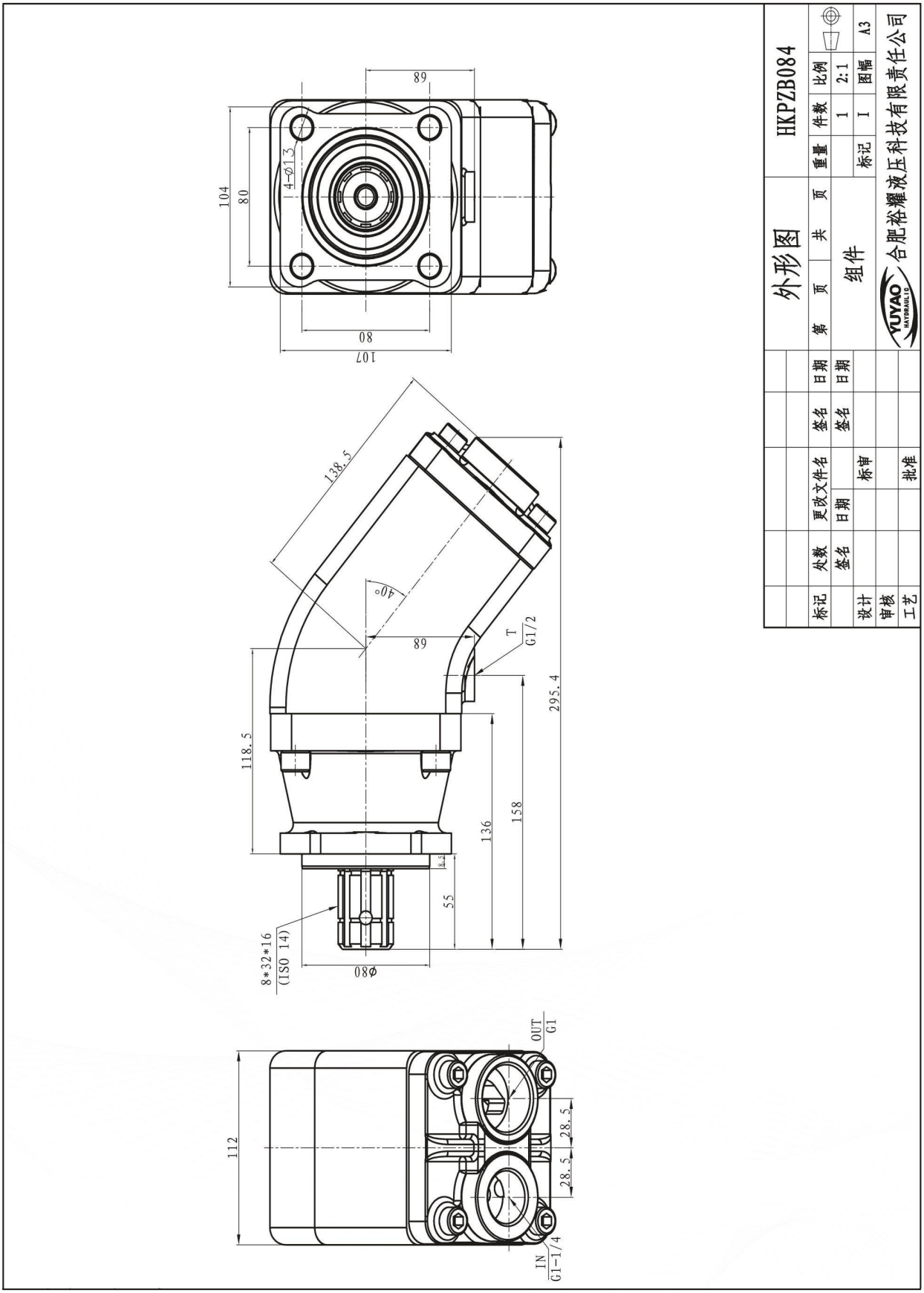
Model	a1	b1	e1	a2	b2	e2	c	d1	d2	d3	D1	D2	θ1	θ2	L1	L2	L3	L4	L5	L6
HK7V125DTP	88.9	50.8	Φ60	27.8	57.2	Φ25	36	Φ22	M12-22	M12-24	Φ224	Φ160	30°	30°	234	122	155	133	116	230
HK7V140DTP	88.9	50.8	Φ60	27.8	57.2	Φ25	36	Φ22	M12-22	M12-24	Φ224	Φ160	30°	30°	234	122	155	133	116	230
Model	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16	L17	L18	L19	L20	Psv	PH1	PH2	Dr	A3	B3
HK7V125DTP	8	78	551	69	698	275.5	163	56	50	81	232.5	318.5	500	275.5	PF3/8	PF3/8	PF3/8	PF3/4	PF1/2	PF3/4
HK7V140DTP	8	78	551	67	696	275.5	163	56	50	81	232.5	318.5	500	275.5	PF3/8	PF3/8	PF3/8	PF3/4	PF1/2	PF3/4

Specification

Model	Displacement (cc/rev)	Rated Pressure (MPa)	Max Pressure (MPa)	Max Speed (rpm)	Weight (kg)	Application Weight (ton)
HK7V125DTP	130x2	34.3	39.2	2380	153	20~26
	10	3.9-4.1				
HK7V140DTP	140x2	34.3	39.2	2380	153	24-26
	10	3.9-4.1				

Shaft Spec

Model	Teeth No	Module
HK7V125DTP	14/17	2.5
HK7V140DTP	17	2.5
Model	Pressure Angle	Standard
HK7V125DTP	20°	JIS
HK7V140DTP	20°	JIS


89
104
80
4-Φ13
80
107
138.5
40°
89
T
G1/2
295.4
118.5
136
158
55
8.5
8*32*16
(ISO 14)
Φ80
OUT
G1
112
28.5
28.5
IN
G1-1/4
外形图
HKPZB084
第 页 共 页
组件
重量
件数 1
比例 2:1
标记
I
图幅 A3
合肥裕耀液压科技有限责任公司
标记 处数 更改文件名 签名 日期
签名 日期 标审 批准
设计
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调节器系列
Regulator series



■ 6/G/S/H-9C



■ 6/G/S/H-HN



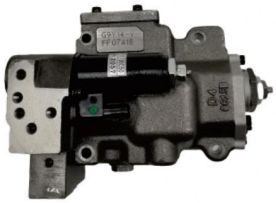
■ G/S-9TCL/9TDL



■ G/S-0E11/0E01



■ G-9X14



■ G-9Y14



■ K-9C0Z



■ D-YT0K



■ D-9NE4



零配件
Spare parts











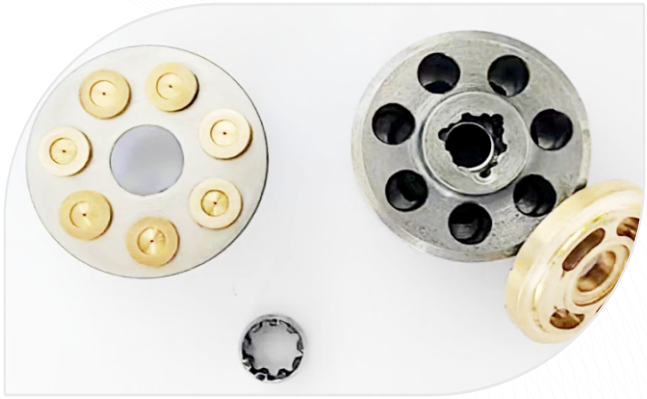




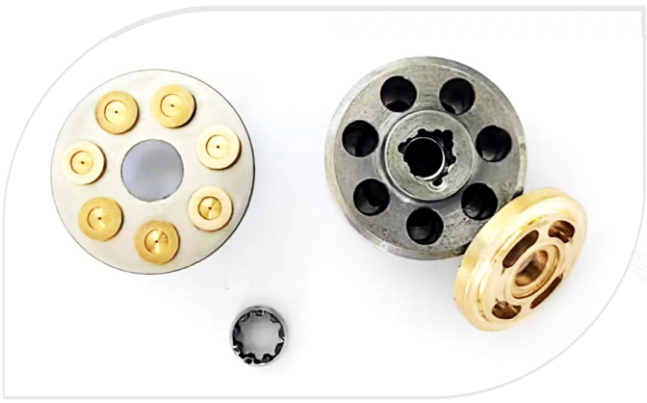


新领域 ——微型泵
new field —— micropump



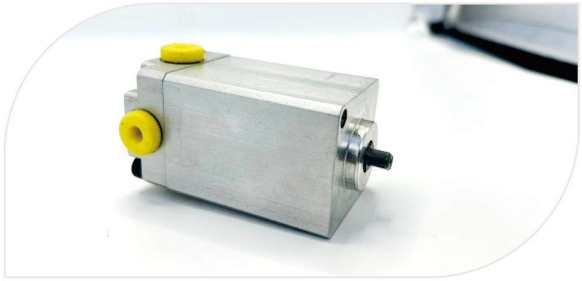






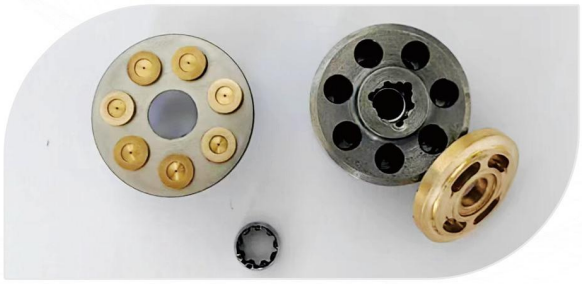


新领域 —— 微型泵
new field —— micropump









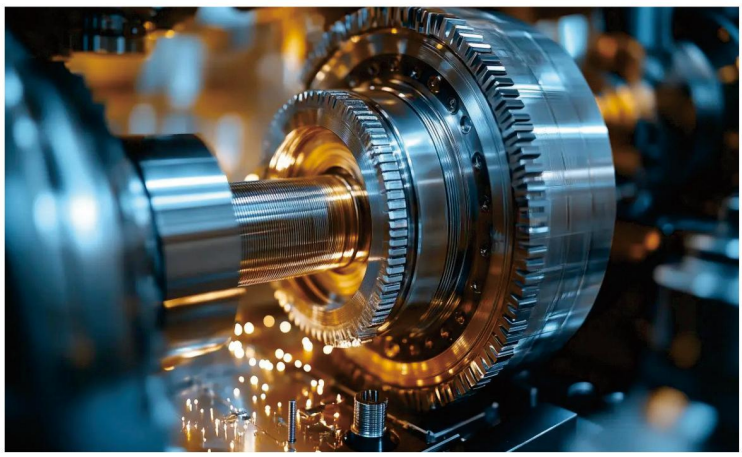

微型高压柱塞泵

微型高压柱塞泵系列，工作压力最高可达35MP,流量范围从0.45-2L/min，转速可实现500-2000转，具有自吸能力强，流量稳定，体积小，寿命长，噪音底等优点，适用于针对体积要求小，重量轻，工作压力高，噪音小等特别场所，例如，飞机，船舶，潜艇，军舰，工业机器人等特殊场所。

应用领域
Application field





企业文化
Corporate culture

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- 誠信经营，創新致遠；
- 客戶至上，服務為本；
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