HAIVTENG®

精 工 制 造 · 追 求 卓 越

内啮合齿轮泵产品手册

INTERNAL GEAR PUMP · PRODUCT CATALOG

广东海威腾智能电气有限公司

Guangdong Haivteng Intelligent Electric Co., Ltd.

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COMPANY PROFILE

公司概况

破界拓能 · 液压无界



海威腾 · 品牌门店实景 / HAIVTENG® Brand Storefront

品牌简介 Brand Introduction

HAIVTENG®（海威腾）是源自广东的专业液压品牌，专注内啮合齿轮泵的研发、生产与销售。依托成熟稳定的生产基地与先进的零部件加工工艺，海威腾为全球工业客户提供高品质、低噪音、长寿命的内啮合齿轮泵产品。

> HAIVTENG® is a professional hydraulic brand from Guangdong, China, dedicated to the R&D, production and sales of internal gear pumps. Backed by a mature manufacturing base and advanced component-machining processes, Haivteng delivers high-quality, low-noise and long-life internal gear pumps to industrial customers worldwide.

生产与检测能力 Manufacturing & Testing Capabilities

- 成熟零件加工工艺及完善生产设备（各类型号加工中心、立式液压拉床、精密磨齿机、数控车床、钻攻中心、端面磨床、内外圆磨床等）。

  > Mature part-machining processes and complete production equipment, including various machining centers, vertical hydraulic broaching machines, precision gear grinders, CNC lathes, drilling-tapping centers, face grinders, and internal/external cylindrical grinders.

- 十几年专业技术人员现场指导，健全管理制度与成熟工艺，充分保证产品质量达标。

  > On-site guidance by senior technical staff, sound management systems and mature processes fully ensure products meet quality standards.

- 先进检测室：三坐标、二次元、维氏硬度计、齿轮检测仪、影像测量仪、高度仪等。

  > Advanced testing room: CMM, 2D measuring instruments, Vickers hardness testers, gear detectors, image measuring instruments, height gauges, etc.

- 每台油泵出厂前均经全方位测试（噪音、压力抖动、保压、内泄、容积率等）。

  > Every pump undergoes comprehensive factory testing, including noise, pressure pulsation, pressure retention, internal leakage and volumetric efficiency.

- 生产基地通过 ISO9001 质量管理体系认证，确保每台泵品质合格出厂。

  > The manufacturing base is ISO9001-certified, ensuring every pump leaves the factory with qualified quality.

企业文化 Corporate Culture

品质政策： 管理卓越 · 品质稳定 · 客户满意

> **Quality Policy:** Excellence in Management · Stability in Quality · Satisfaction of Customers

经营理念： 同心协力 · 创新发展 · 永续经营 · 客户至上

> **Company Philosophy:** Work in Cooperation · Innovate for Development · Continuous R&D · Customers Always Come First

企业愿景： 致力于成为全球具有持续核心竞争力的液压装备供应商！

> **Corporate Vision:** Committed to becoming a global hydraulic equipment supplier with sustained core competitiveness.

HONOR & BUSINESS LAYOUT

企业荣誉与业务分布

认证与资质 Certifications & Qualifications

ISO9001
质量管理体系认证

CE 认证
(CE Machinery Directive)

多项实用新型专利
Utility Model Patents

> Certificates are issued under the manufacturing base and available upon request.

业务分布 Business Layout

网点 Office	中文	English
广东总部	广东·东莞	Guangdong Headquarters
宁波办事处	浙江·宁波	Ningbo Office
苏州办事处	江苏·苏州	Suzhou Office

> Sales network covering major industrial regions across China and export markets worldwide.

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说明：本手册技术参数、性能曲线、安装连接尺寸沿用标准产品数据，品牌信息已替换为 HAIVTENG®。

HG SERIES SINGLE PUMP

HG 系列单泵

Characteristics · Noise Curve · Structure · Model Description · Parameters · Dimensions

产品特性 Characteristics

- 轴向和径向压力补偿设计，低转速、低粘度下仍保持高容积率。
  > Axial and radial pressure compensation maintains high volumetric efficiency even at low speed and low viscosity.

- 超低噪音：高强度铸铁 + 独特内部消音设计。
  > Ultra-low noise via high-strength cast iron and unique internal noise-reduction design.

- 极低流量与压力脉动，低速下仍稳定输出。
  > Extremely low flow and pressure pulsation with stable output even at low speed.

- 高压力设计，最高使用压力可达 35 MPa。
  > High-pressure design, max. operating pressure up to 35 MPa.

- 转速范围宽广，最高转速可达 3000 r/min。
  > Wide speed range, max. speed up to 3000 r/min.

- 可组合形成双联泵 / 三联泵。
  > Can be combined into double / triple pumps.

- 对油液污染不敏感，使用寿命长。
  > Insensitive to oil contamination with long service life.

特性曲线 · 结构展示 Noise / Performance Curves & Structure

特 性 Characteristics



1.采用轴向和径向压力补偿设计，即使在低转速和低粘度下仍保持较高的容积率。

2.超低的噪音，采用高强度铸铁和内部独特的消音设计，使噪音更低

3.极低的流量和压力脉动，在低速状态下仍可保持稳定的流量和压力输出

4.高压力设计，最高使用压力可达到 35MPa。

5.转速范围宽广，最高转速可达3000r/min

6.可进行组合形成双联泵

7.对油液污染不敏感，使用寿命长，

1、Adopting axial and radial pressure compensation design, it maintains a high volumetric efficiency even at low rotational speeds and with low-viscosity fluids.

2、Ultra-low noise: The use of high-strength cast iron and a unique internal noise reduction design results in lower noise levels.

3、Extremely low flow and pressure pulsation, ensuring stable flow and pressure output even at low speeds.

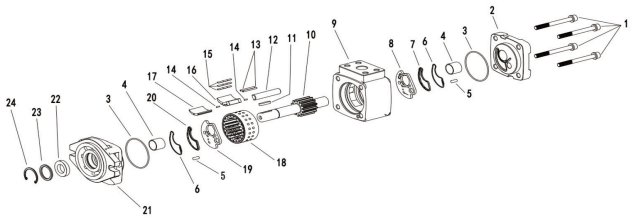
4、High-pressure design, with a maximum operating pressure of up to 35MPa.

5、Wide rotational speed range, with a maximum speed of 3000r/min.

6、Can be combined to form a double pump.

7、Insensitive to oil contamination and has a long service life.

结构展示 Structure Display

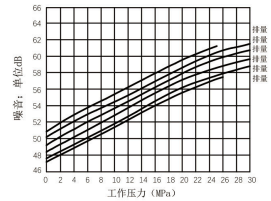


序号	名称	序号	名称	序号	名称	序号	名称	序号	名称	序号	名称	序号	名称	序号	名称
1	内六角螺丝	4	无油轴承	7	后密封圈	10	齿轮轴	13	塑料棒	16	月牙主板	19	前盖配油盘	22	主轴油封
2	后盖	5	定位销	8	后盖配油盘	11	平键	14	主板定位销	17	月牙副板	20	前密封圈	23	圆形挡圈
3	O型圈	6	异性挡圈	9	泵体	12	定位杆	15	弹簧片	18	内齿圈	21	前盖	24	孔用卡簧

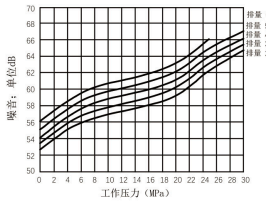
1、Hexagon Socket Screw	6、Special-Shaped Retaining Ring	11、Flat Key	16、Crescent-Shaped Motherboard	21、Front Cover
2、Rear Cover	7、Rear Sealing Ring	12、Positioning Rod	17、Crescent-Shaped Secondary Board	22、Spindle Oil Seal
3、O-Ring	8、Rear Cover Oil Distribution Plate	13、Plastic Rod	18、Internal Gear Ring	23、Round Retaining Ring
4、Oil-Free Bearing	9、Pump Body	14、Motherboard Locating Pin	19、Front Cover Oil Distribution Plate	24、Hole Circlip
5、Locating Pin	10、Gear Shaft	15、Spring Plate	20、Front Sealing Ring	

1500r/min噪音曲线 NOISE CURVE

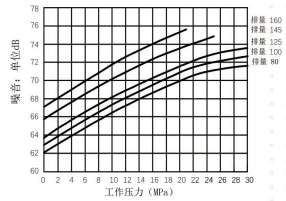
HG0



HG1

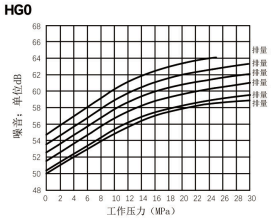


HG2

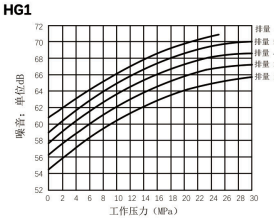


2000r/min噪音曲线 NOISE CURVE

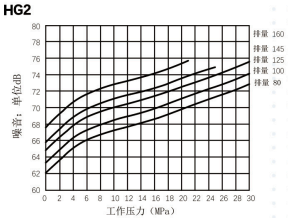
HG0



HG1

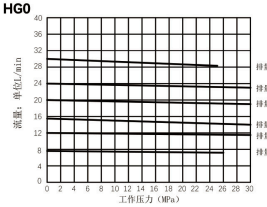


HG2

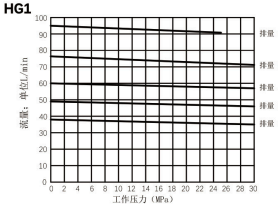


1500r/min特性曲线 NOISE CURVE

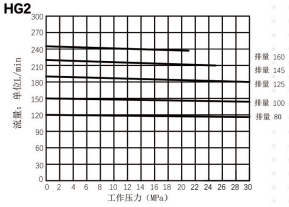
HG0



HG1

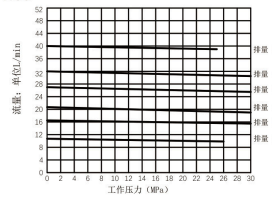


HG2

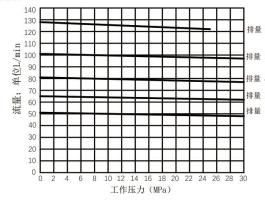


2000r/min特性曲线 NOISE CURVE

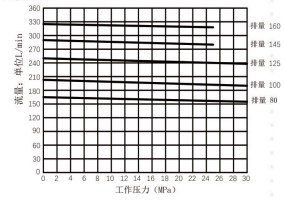
HG0



HG1



HG2



HG 系列单泵 · 噪音曲线 / 流量曲线 / 结构爆炸图（1500 与 2000 r/min）

型号说明 · 性能参数 · HGO 安装尺寸 Model Description · Parameters · HGO Dimensions

型号说明 Model Description

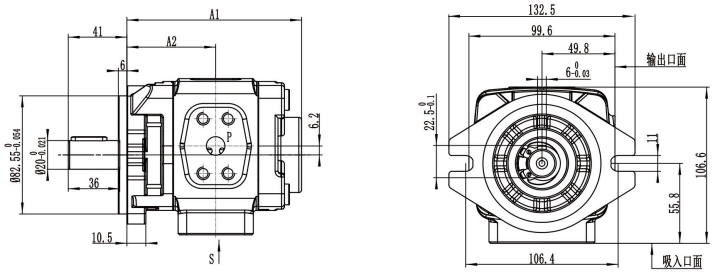
HG0	-16	R	E	W	-F1
系列号 Series Number	排量ml/r Displacement ml/r	旋转方向 Rotation Direction	轴伸形式 Shaft Extension Form	密封材料 Sealing Material	设计号 Design Number
HG0	4、5、6、8、10、13、16、20、25	从泵轴端看 Viewed from the pump shaft end	E=平键 E=flat key	W=丁腈橡胶 W=nitrile rubber	F1
HG1	25、32、40、50、63	R=顺时针旋转 R=Rotate clockwise	R=花键轴 R=splined shaft	V=氟橡胶 V=fluororubber	
HG2	80、100、125 145、160	L=逆时针旋转 L=Rotate counterclockwise			

性能参数 Performance Parameters

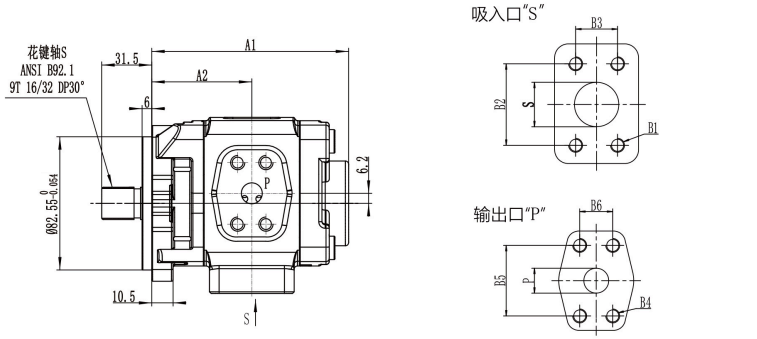
系列号	规格	排量	工作压力Mpa		转速范围 r/min		重量 KG
		ml/r	额定	最高	最高	最低	
HG0	4	4.2	31.5	35	3000	600	4.0
	5	5.2					4.1
	6	6.2					4.5
	8	8.2					5.5
	10	10.2					5.8
	13	13.3					6.2
	16	16					6.5
	20	20	25	30			7
	25	25.3					7.3
HG1	25	25.3	31.5	35		200	15
	32	32.7					15.6
	40	40.1					16.5
	50	50.7					17.6
	63	63.7	25	30			18.9
HG2	80	81.4	31.5	35			43.5
	100	100.2					45.7
	125	125.3					48
	145	145.2	25	28			50
	160	162.8	21	26			52

HG0安装连接尺寸 Installation connection dimensions

HG0（P型平键轴/P-type flat key shaft)



HG0（S型花键轴/S-type splined shaft)

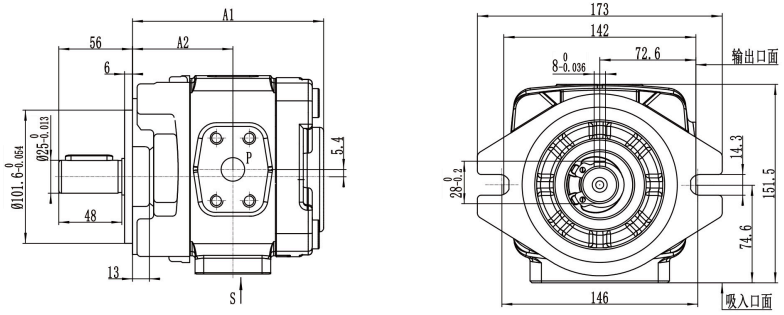


系列	规格	A1	A2	S	B1	B2	B3	P	B4	B5	B6
HG0	4	100	50.5	Φ14	M8深13	38.1	17.5	Φ14	M8深13	38.1	17.5
	5	102	51.5								
	6	104	52.5								
	8	107	54	Φ19	M10深15	47.6	22.2	Φ13			
	10	111	56								
	13	117.5	59.25			52.4	26.2				
	16	123	62								
	20	131	66	Φ26		58.7	30.2	Φ18	M10深15	47.6	22.2
	25	139	70								

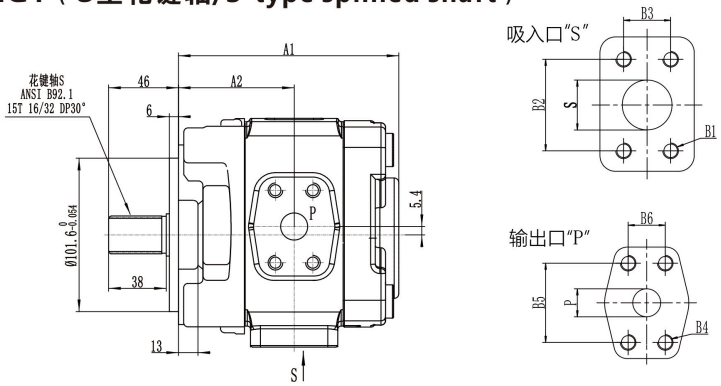
HG1 / HG2 安装连接尺寸 HG1 / HG2 Installation Dimensions

HG1安装连接尺寸 Installation connection dimensions

HG1（P型平键轴/P-type flat key shaft）



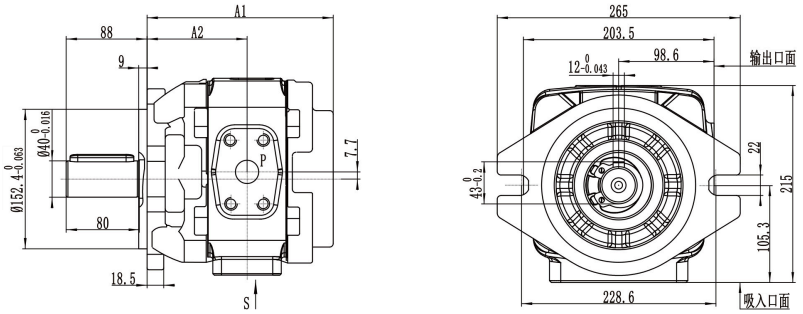
HG1（S型花键轴/S-type splined shaft）



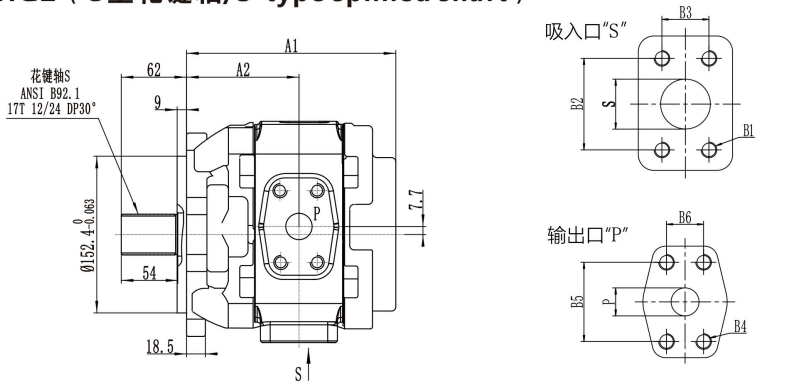
系列	规格	A1	A2	S	B1	B2	B3	P	B4	B5	B6
HG1	25	139	73	Φ32	M10深17	58.7	30.2	Φ18	M10深17	47.6	22.2
	32	146	76.5								
	40	153	80					Φ20	M10深17	52.4	26.2
	40D			Φ38	M12深20	69.9	35.7				
	50	163	85	Φ32	M10深17	58.7	30.2				
	50D			Φ51	M12深20	77.8	42.9	Φ25.4	M12深20	57.2	27.8
	63	177	92	Φ32	M10深17	58.7	30.2	Φ20	M10深17	52.4	26.2
	63D			Φ51	M12深20	77.8	42.9	Φ32	M12深20	66.6	31.8

HG2安装连接尺寸 Installation connection dimensions

HG2（P型平键轴/P-type flat key shaft）



HG2（S型花键轴/S-type splined shaft）



系列	规格	A1	A2	S	B1	B2	B3	P	B4	B5	B6
HG2	80	204	109.5	Φ51	M12深20	77.8	42.9	Φ32	M12深20	69.9	35.7
	100	213	114								
	100D			Φ63.5	M12深20	88.9	50.8				
	125	225	120					Φ38	M16深25	79.4	36.5
	145	235.5	124.75								
	145D			Φ76	M16深25	106.4	61.9				
	160	243	129								

HG1 / HG2 系列安装连接尺寸（平键轴 / 花键轴）

HG SERIES DOUBLE-HEAD PUMP

HG 系列双联泵

Introduction · Installation & Connection Dimensions

双联泵简介 Introduction to Double-Head Pump

- 由两个单泵串联组装而成，共用一个进油口、两个独立回路出油口。

  > Formed by series assembly of two single pumps, with one shared inlet and two independent outlets.

- 浮动花键联轴器式结构 + 独特润滑脂配方，性能稳定、寿命长、低噪音。

  > Floating spline coupling structure with unique grease formula ensures stable performance, long life and low noise.

- 最大排量可扩展至 320 cc，选型空间充足。

  > Max. displacement expandable to 320 cc for ample motor/driver selection.

- 进/出油口方向灵活调配，安装简易。

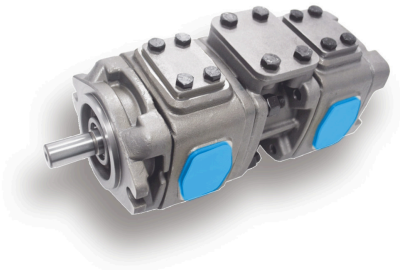
  > Flexible inlet/outlet orientation for easy installation.

- 任意排量组合，适用不同工况。

  > Arbitrary displacement combinations for varied working conditions.

HG00 简介与安装尺寸 HG00 Introduction & Dimensions

HG 双联泵 Double pump



双联泵简介

* 双联泵是由两个单泵串联组装而成
* 具有一个共用的进油口和两个独立回路的出油口；
* 也可以改成共用一个出油口法兰
* 按照两个泵的组合系列
* 可获得更多排量组合。

产品特点

1.前后油泵采用浮动花键联轴器式结构，配合独特的润滑脂配方保证油泵性能稳定，寿命长和低噪音.

2.最大排量可以扩展到320CC，为电机和驱动器选型，机型选配提供足够的选择空间.

3.油泵出油口和进油口方向灵活调配，进油口为共用接口，安装简易，使用方便.

4.任意排量组合，适用于不同工况需求.

Introduction to Double-Head Pumps

*A double pump is formed by the series assembly of two single pumps.
*It has a shared oil inlet and two oil outlets for independent circuits;
*It can also be modified to share a single oil outlet flange.
*According to the combination series of the two pumps,
*More displacement combinations can be obtained.

Product Features

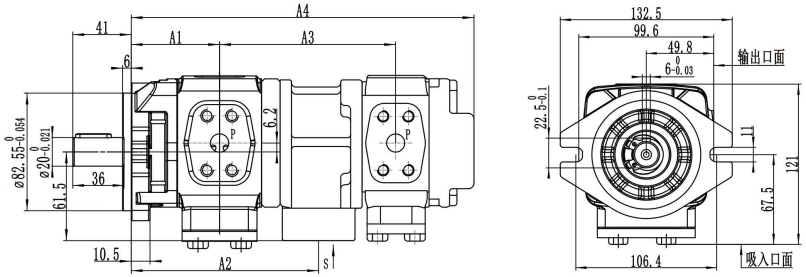
*Both the front and rear oil pumps adopt a floating spline coupling structure, and combined with a unique grease formula, they ensure stable pump performance, long service life and low noise.
*The maximum displacement can be expanded to 320CC, providing sufficient options for the selection of motors, drivers and machine models.
*The directions of the oil outlet and oil inlet of the pump can be flexibly adjusted. The oil inlet is a shared interface, making installation simple and use convenient.
*Arbitrary displacement combinations are available, suitable for different working condition requirements.

型号说明

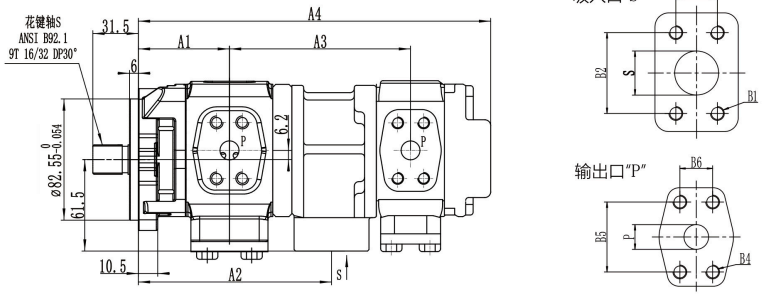
HG21	-160	-63	R	E	W	-F1
系列号	前泵规格ml/r	后泵规格ml/r	旋转方向	轴伸形式	密封材料	设计号
HG00	8、10、13、16、20、25	5、8、10、13、16、20、25	从泵轴端看 R=顺时针旋转 L=逆时针旋转	E=平键轴 R=花键轴	W=丁腈橡胶 V=氟橡胶	F1
HG10	25、32、40、50、63	5、8、10、13、16、20、25				
HG11	25、32、40、50、63	25、32、40、50、63				
HG21	80、100、125 145、160	25、32、40、50、63				
HG22	80、100、125 145、160	80、100、125 145、160				

HG00安装连接尺寸 Installation connection dimensions

HG00（P型平键轴/P-type flat key shaft）



HG00（S型花键轴/S-type splined shaft）



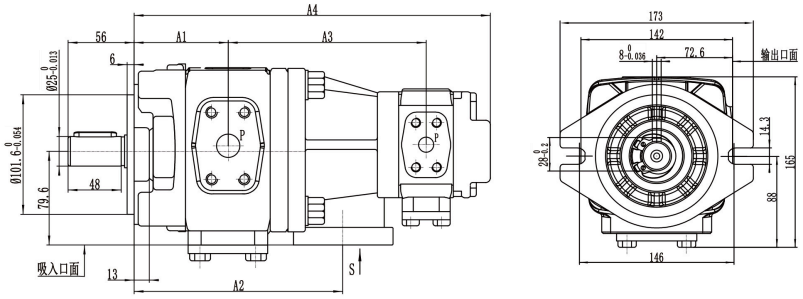
*详细参数见15页

前泵型号	A1	A2	后泵规格													
			5		8		10		13		16		20		25	
			A3	A4	A3	A4	A3	A4	A3	A4	A3	A4	A3	A4	A3	A4
HG00-08	54	115.5	111	211	113.5	216										
HG00-10	56	119.5	113	215	115.5	220	118	237								
HG00-13	59.3	126	116.3	221.5	118.8	226.5	120.8	230.5	124	237						
HG00-16	62	131.5	119	227	121.5	232	123.5	236	126.8	242.5	129.5	249				
HG00-20	66	139.5	123	235	125.5	240	127.5	244	130.8	250.5	133.5	257	137.5	265		
HG00-25	70	147.5	127	243	129.5	248	131.5	252	134.8	258.5	137.5	265	141.5	273	145.5	281

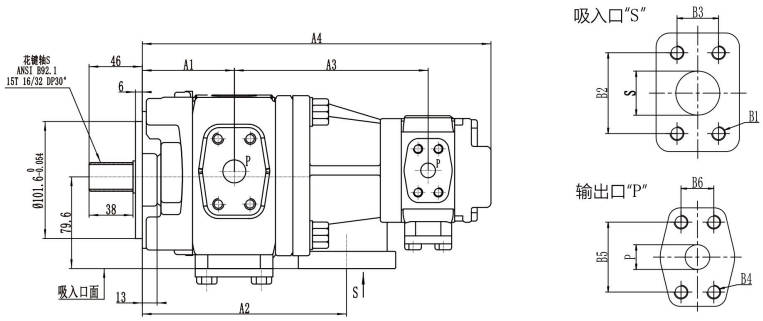
HG10 / HG11 安装尺寸 HG10 / HG11 Dimensions

HG10安装连接尺寸 Installation connection dimensions

HG10（P型平键轴/P-type flat key shaft）



HG10（S型花键轴/S-type splined shaft）

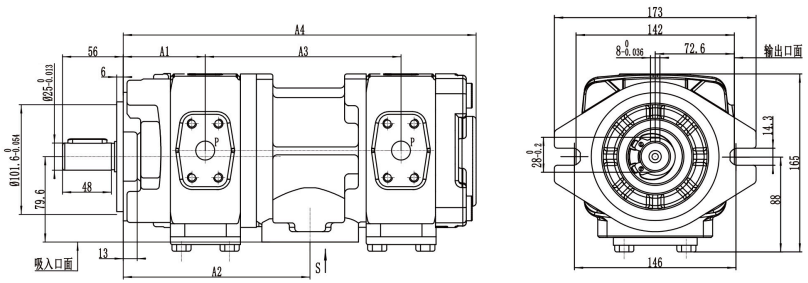


*详细参数见15页

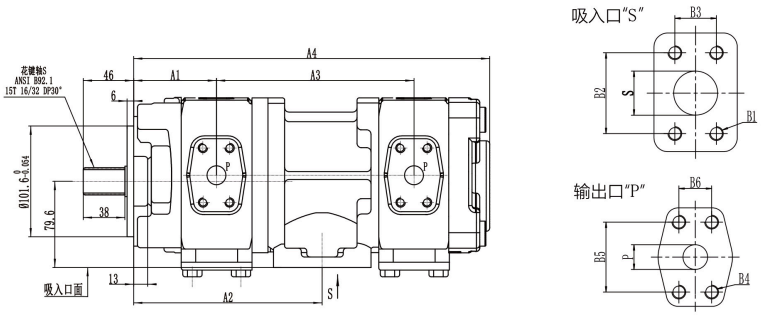
前泵型号	A1	A2	后泵规格											
			8		10		13		16		20		25	
			A3	A4	A3	A4	A3	A4	A3	A4	A3	A4	A3	A4
HG10-25	73	153.5	136	263.5	140.5	268.5	143.8	275	146.5	280.5	150.5	288.5	154.5	296.5
HG10-32	76.5	160.5	139.5	270.5	144	275.5	147.3	282	150	287.5	154	295.5	158	303.5
HG10-40	80	167.5	143	277.5	147.5	282.5	150.5	289	153.5	294.5	157.5	302.5	161.5	310.5
HG10-50	85	177.5	148	287.5	152.5	292.5	155.8	299	158.5	304.5	162.5	312.5	166.5	320.5
HG10-63	92	191.5	155	301.5	159.5	306.5	162.8	313	165.5	318.5	169.5	326.5	173.5	334.5

HG11安装连接尺寸 Installation connection dimensions

HG11（P型平键轴/P-type flat key shaft）



HG11（S型花键轴/S-type splined shaft）



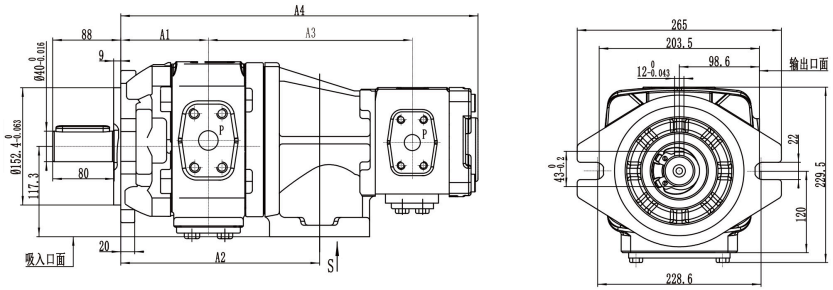
*详细参数见15页

前泵型号	A1	A2	后泵规格									
			25		32		40		50		63	
			A3	A4	A3	A4	A3	A4	A3	A4	A3	A4
HG11-25	73	161	161	300								
HG11-32	76.5	168	164.5	307	168	314						
HG11-40	80	175	168	314	171.5	321	175	328				
HG11-50	85	185	173	324	176.5	331	180	338	185	348		
HG11-63	92	199	180	338	183.5	345	187	352	192	362	199	376

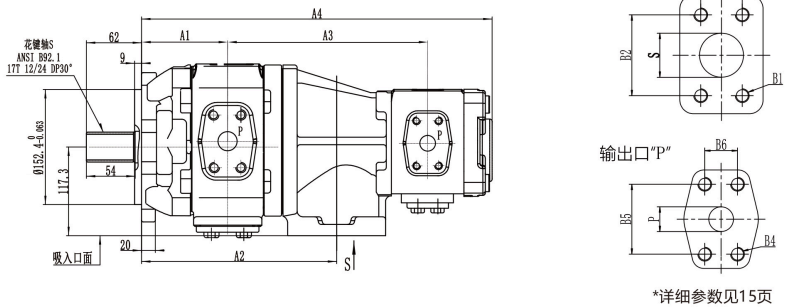
HG21 / HG22 安装尺寸 HG21 / HG22 Dimensions

HG21安装连接尺寸 Installation connection dimensions

HG21（P型平键轴/P-type flat key shaft）



HG21（S型花键轴/S-type splined shaft）

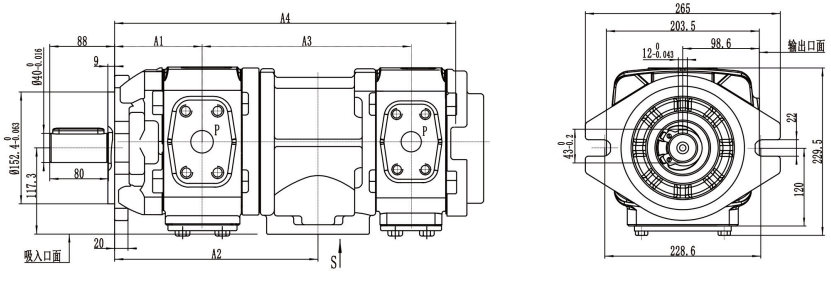


*详细参数见15页

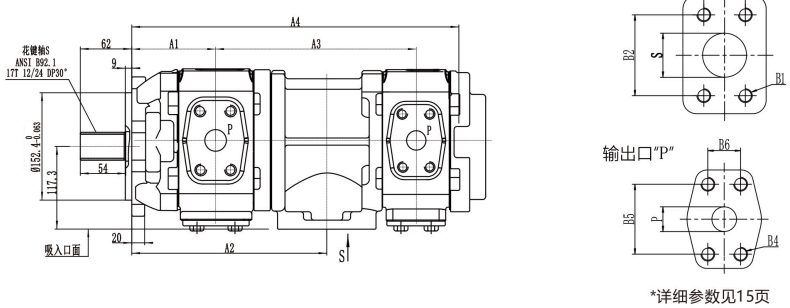
前泵型号	A1	A2	后泵规格									
			25		32		40		50		63	
			A3	A4	A3	A4	A3	A4	A3	A4	A3	A4
HG21-80	109.5	231	204.5	380	208	387	211.5	394	216.5	404	223.5	418
HG21-100	114	240	209	389	212.5	396	216	403	221	413	228	427
HG21-125	120	250.2	215	401	218.5	408	222	415	227	425	234	439
HG21-145	124.8	261.5	219.8	410.5	223.3	417.5	226.8	424.5	231.8	434.5	238.8	448.5
HG21-160	129	270	224	419	227.5	426	231	433	236	443	243	457

HG22安装连接尺寸 Installation connection dimensions

HG22（P型平键轴/P-type flat key shaft）



HG22（S型花键轴/S-type splined shaft）



*详细参数见15页

前泵型号	A1	A2	后泵规格											
			63		80		100		125		145		160	
			A3	A4	A3	A4	A3	A4	A3	A4	A3	A4	A3	A4
HG22-80	109.5	238.5	229	429	233	437								
HG22-100	114	247.5	233.5	438	237.5	446	242	455						
HG22-125	120	259.5	239.5	450	243.5	458	248	467	254	479				
HG22-145	124.5	269	244.3	459.5	248.5	467.5	252.8	476.5	258.8	488.5	263.5	498		
HG22-160	129	277.5	248.5	468	251.5	476	257	485	263	497	268.3	506.5	272	515

HG SERIES TRIPLE-HEAD PUMP

HG 系列三联泵

Introduction · Installation & Connection Dimensions

三联泵简介 Introduction to Triple-Head Pump

- 由三个单泵串联组装而成，共用一个进油口（或两个独立进油口）、三个独立回路出油口。

  > Formed by series assembly of three single pumps, with one shared (or two independent) inlet(s) and three independent outlets.

- 浮动花键联轴器式结构，性能稳定、寿命长、低噪音。

  > Floating spline coupling structure ensures stable performance, long life and low noise.

- 最大排量可扩展至 480 cc。

  > Max. displacement expandable to 480 cc.

- 进/出油口方向灵活调配，可改为单一共用接口。

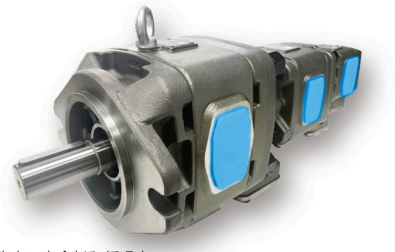
  > Flexible inlet/outlet orientation; can be modified to a single shared interface.

- 任意排量组合，适用不同工况。

  > Arbitrary displacement combinations for varied working conditions.

HG110 简介与安装尺寸 HG110 Introduction & Dimensions

HG 三联泵 Triple Pump



三联泵简介

* 双联泵是由三个单泵串联组装而成
* 具有一个共用的进油口或者两个独立进油口和三个独立回路的出油口；
* 也以改成共用一个出油口法兰按照三个泵的组合系列
* 可获得更多排量组合。

产品特点

1、三联泵采用浮动花键联轴器式结构，配合独特的润滑脂配方保证油泵性能稳定、寿命长和低噪音。

2、最大排量可以扩展到480CC，为电机和驱动器选型、机型选配提供足够的选择空间。

3、油泵出油口和进油口方向灵活调配，进油口为两个接口，也可以改为一个共用接口，安装简易，使用方便。

4、任意排量组合，适用于不同工况需求。

Introduction to Triple Pumps

*A triple pump is formed by the series assembly of three single pumps.
*It is equipped with one shared oil inlet or two independent oil inlets, as well as three oil outlets for independent circuits.
*It can also be modified to share a single oil outlet flange; and more displacement combinations can be obtained according to the *combination series of the three pumps.

Product Features

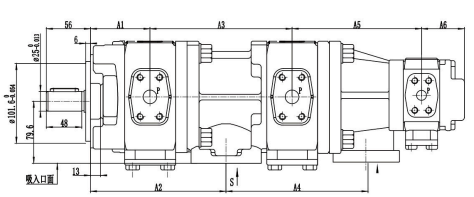
*The triple pump adopts a floating spline coupling structure, and when combined with a unique grease formula, it ensures stable pump performance, a long service life, and low noise.
*The maximum displacement can be expanded to 480CC, providing sufficient options for the selection of motors, drivers, and machine models.
*The directions of the pump's oil outlets and oil inlets can be flexibly adjusted. There are two oil inlet interfaces, which can also be modified to a single shared interface, enabling simple installation and convenient use.
*It supports arbitrary displacement combinations, making it suitable for meeting the requirements of different working conditions.

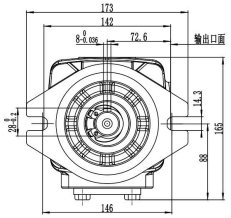
型号说明/Model Description

HG210	-160	-63	-20	R	E	W	-F1
系列号	前泵规 格 ml/r	中泵规 格 ml/r	后泵规 格 ml/r	旋转方向	轴伸形式	密封材料	设计号
HG110	25、32、40、50、63	25、32、40、50、63	5、8、10、13、16、20、25	从泵轴端看 R= 顺时针旋转 L= 逆时针旋转	E= 平键轴 R=花键轴	W= 丁腈橡胶 V= 氟橡胶	F1
HG111	25、32、40、50、63	25、32、40、50、63	5、8、10、13、16、20、25				
HG211	80、100、125、145、160	25、32、40、50、63	25、32、40、50、63				
HG221	80、100、125、145、160	80、100、125、145、160	25、32、40、50、63				
HG222	80、100、125、145、160	80、100、125、145、160	80、100、125、160				

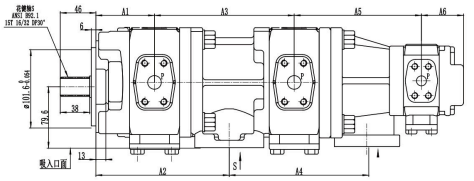
HG110安装连接尺寸 Installation connection dimensions

HG110（P型平键轴/P-type flat key shaft）





HG110（S型花键轴/S-type splined shaft）



●吸油/出油口法兰 见第19页
See Page 19 for detailed parameters.

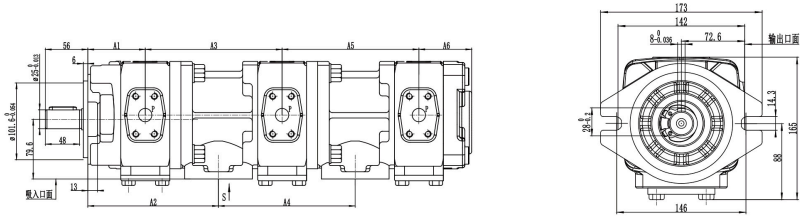
前泵型号	A1	A2	中泵规格									
			25		32		40		50		63	
			A3	A4	A3	A4	A3	A4	A3	A4	A3	A4
HG110-25	73	161	161	153.5								
HG110-32	76.5	168	164.5	157	168	160.5						
HG110-40	80	175	168	160.5	171.5	164	175	167.5				
HG110-50	85	185	173	165.5	176.5	169	180	172.5	185	177.5		
HG110-63	92	199	180	172.5	183.5	176	187	179.5	192	184.5	199	376

中泵型号	后泵规格													
	5		8		10		13		16		20		25	
	A5	A6	A5	A6	A5	A6	A5	A6	A5	A6	A5	A6	A5	A6
HG110-25	136	48	138.5	53	140.5	55	143.8	58.2	146.5	61	150.5	65	154.5	69
HG110-32	139.5	48	142	53	144	55	147.8	58.2	150	61	154	65	158	69
HG110-40	143	48	145.5	53	147.5	55	150.8	58.2	153.5	61	157.5	65	161.5	69
HG110-50	148	48	150.5	53	152.5	55	155.8	58.2	158.5	61	162.5	65	166.5	69
HG110-63	155	48	157.5	53	159.5	55	162.8	58.2	165.5	61	169.5	65	173.5	69

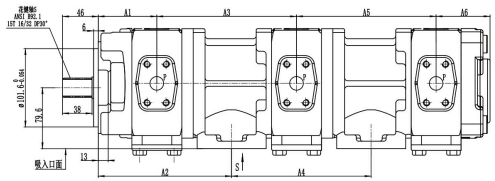
HG111 / HG211 安装尺寸 HG111 / HG211 Dimensions

HG111安装连接尺寸 Installation connection dimensions

HG111（P型平键轴/P-type flat key shaft）



HG111（S型花键轴/S-type splined shaft）



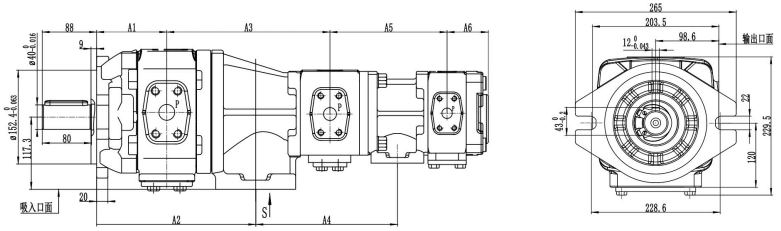
●吸油/出油口法兰 见第19页
See Page 19 for detailed parameters.

前泵型号	A1	A2	中泵规格									
			25		32		40		50		63	
			A3	A4	A3	A4	A3	A4	A3	A4	A3	A4
HG 111-25	73	161	161	161								
HG 111-32	76.5	168	164.5	164.5	168	168						
HG 111-40	80	175	168	168	171.5	171.5	175	175				
HG 111-50	85	185	173	173	176.5	176.5	180	180	185	185		
HG 111-63	92	199	180	180	183.5	183.5	187	187	192	192	199	199

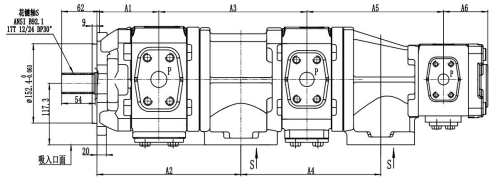
中泵型号	后泵规格									
	25		32		40		50		63	
	A5	A6	A5	A6	A5	A6	A5	A6	A5	A6
HG111-25	161	66								
HG111-32	164.5	66	168	69.5						
HG111-40	168	66	171.5	69.5	175	73				
HG111-50	173	66	176.5	69.5	180	73	185	78		
HG111-63	180	66	183.5	69.5	187	73	192	78	199	85

HG211安装连接尺寸 Installation connection dimensions

HG211（P型平键轴/P-type flat key shaft）



HG211（S型花键轴/S-type splined shaft）



●吸油/出油口法兰 见第19页
See Page 19 for detailed parameters.

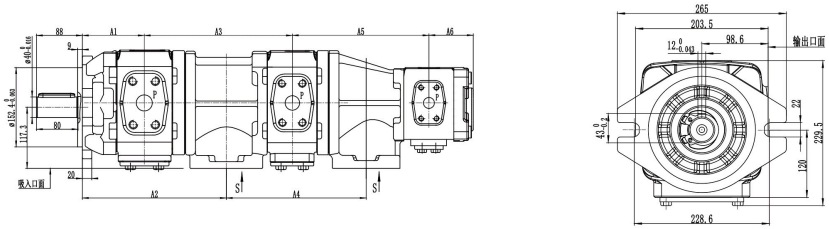
前泵型号	A1	A2	后泵规格									
			25		32		40		50		63	
			A3	A4	A3	A4	A3	A4	A3	A4	A3	A4
HG 211-80	109.5	231	204.5	194.5	208	198	211.5	201.5	216.5	206.5	223.5	213.5
HG 211-100	114	240	209	199	212.5	202.5	216	206	221	211	228	218
HG 211-125	120	252	215	205	218.5	208.5	222	212	227	217	234	224
HG 211-145	124.8	261.5	219.8	209.7	223.3	213.2	226.8	216.7	231.8	221.7	238.8	228.7
HG 211-160	129	270	224	214	227.5	217.5	231	221	236	226	243	233

中泵型号	后泵规格									
	25		32		40		50		63	
	A5	A6	A5	A6	A5	A6	A5	A6	A5	A6
HG211-25	161	66								
HG211-32	164.5	66	168	69.5						
HG211-40	168	66	171.5	69.5	175	73				
HG211-50	173	66	176.5	69.5	180	73	185	78		
HG211-63	180	66	183.5	69.5	187	73	192	78	199	85

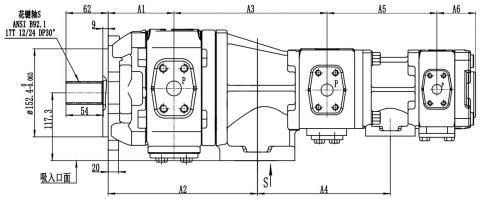
HG221 / HG222 安装尺寸 HG221 / HG222 Dimensions

HG221安装连接尺寸 Installation connection dimensions

HG221（P型平键轴/P-type flat key shaft）



HG221（S型花键轴/S-type splined shaft）



●吸油/出油口法兰 见第19页

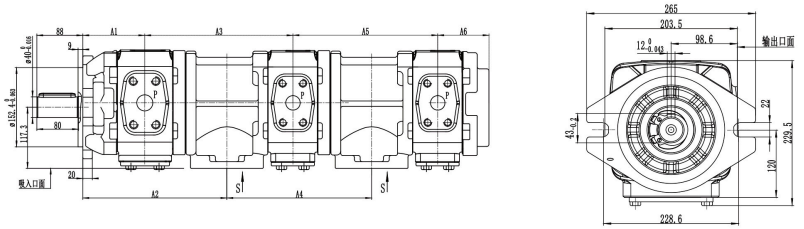
See Page 19 for detailed parameters.

前泵型号	A1	A2	后泵规格									
			80		100		125		145		160	
			A3	A4	A3	A4	A3	A4	A3	A4	A3	A4
HG 221-80	109.5	238.5	233	225.5								
HG 221-100	114	247.5	237.5	230	242	234.5						
HG 221-125	120	259.5	243.5	236	248	240.5	254	246.5				
HG 221-145	124.5	269	248.5	240.8	252.8	245.3	258.8	251.3	263.5	256		
HG 221-160	129	277.5	252.5	245	257	249.5	263	255.5	267.8	260.3	272	264.5

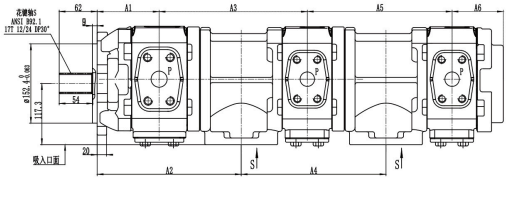
中泵型号	后泵规格									
	25		32		40		50		63	
	A5	A6	A5	A6	A5	A6	A5	A6	A5	A6
HG221-80	204.5	66	208	69.5	211.5	73	216.5	78	223.5	85
HG221-100	209	66	212.5	69.5	216	73	221	78	228	85
HG221-125	215	66	218.5	69.5	222	73	227	78	234	85
HG221-145	219.8	66	223.3	69.5	226.8	73	231.8	78	238.8	85
HG221-160	224	66	227.5	69.5	231	73	236	78	243	85

HG222安装连接尺寸 Installation connection dimensions

HG222（P型平键轴/P-type flat key shaft）



HG222（S型花键轴/S-type splined shaft）



●吸油/出油口法兰 见第19页

See Page 19 for detailed parameters.

前泵型号	A1	A2	后泵规格									
			80		100		125		145		160	
			A3	A4	A3	A4	A3	A4	A3	A4	A3	A4
HG222-80	109.5	238.5	233	233								
HG222-100	114	247.5	237.5	237.5	242	242						
HG222-125	120	259.5	243.5	243.5	248	248	254	254				
HG222-145	124.5	269	248.5	248.5	252.8	252.8	258.8	258.8	263.5	263.5		
HG222-160	129	277.5	252.5	252.5	257	257	263	263	267.8	267.8	272	272

中泵型号	后泵规格									
	80		100		125		145		160	
	A5	A6	A5	A6	A5	A6	A5	A6	A5	A6
HG221-80	233	94.5								
HG221-100	237.5	94.5	242	99						
HG221-125	243.5	94.5	248	99	254	105				
HG221-145	248.5	94.5	252.8	99	258.8	105	263.5	109.8		
HG221-160	251.5	94.5	257	99	263	105	268.3	109.8	272	114

HG SERIES NON-STANDARD PUMP

HG 系列非标泵 · 替换进口油泵参数

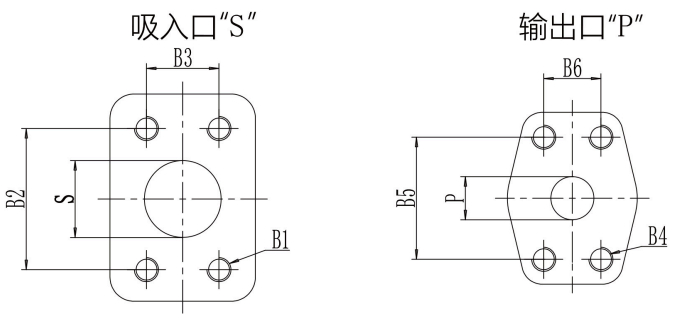
Replacement Parameters for VOITH / ECKERLE / Sumitomo / SETTIMA

海威腾 HG 系列非标泵可替代多家进口品牌内啮合齿轮泵，接口与安装尺寸兼容，参数对比如下：

> Haivteng HG non-standard pumps can replace several imported internal gear pump brands with compatible interfaces and mounting dimensions:

串泵油口法兰 · 替换 VOITH 参数 Series Pump Flange · VOITH Replacement

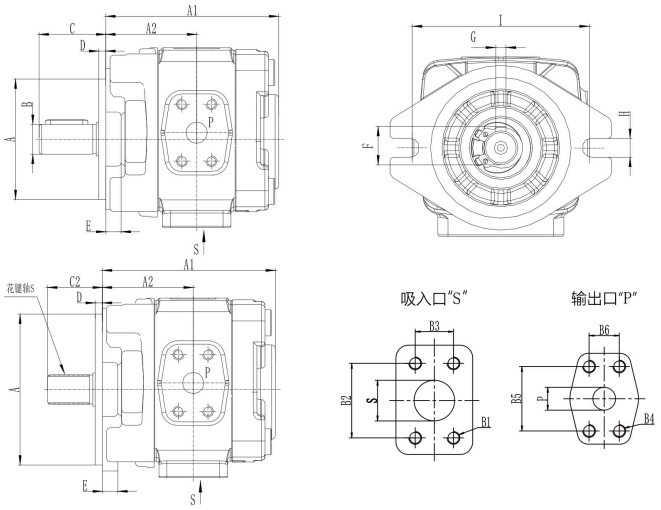
串泵油口法兰 Series Pump Oil Port Flange



双联泵	S	B1	B2	B3	系列	规格	P	B4	B5	B6
HG00	Φ32	M10通	58.7	30.2	HG0	5	Φ14	M8深13	38.1	17.5
						8	Φ13			
						10				
						13				
HG10	Φ38	M12深20	69.9	35.7		16				
						20	Φ18	M10深15	47.6	22.2
						25				
HG11	Φ51		77.8	42.9	HG1	25	Φ18	M10深17	47.6	22.2
						32				
						40	Φ20		52.4	26.2
						40D				
						50				
HG21	Φ76	M16深25	106.4	61.9		50D	Φ25.4	M12深20	57.2	27.8
						63	Φ20	M10深17	52.4	26.2
						63D	Φ32	M12深20	66.6	31.8
HG22	Φ89		120.7	69.9	HG2	80	Φ32	M12深20	69.9	35.7
						100				
						100D				
						125	Φ38	M16深25	79.4	36.5
						145				
						145D				
						160				

三联泵	泵	S	B1	B2	B3	泵	S	B4	B5	B6
HG110	前泵	Φ51	M12深20	77.8	42.9	后泵	Φ38	M12深20	69.9	35.7
HG111										
HG211		Φ76	M16深25	106.4	61.9		Φ51	M12深20	77.8	42.9
HG221										
HG222		Φ89	M16深25	120.7	69.9		Φ76	M16深25	106.4	61.9
							Φ89	M16深25	120.7	69.9

替换 VOITH 油泵参数 Replace the Parameters of VOITH Oil Pump



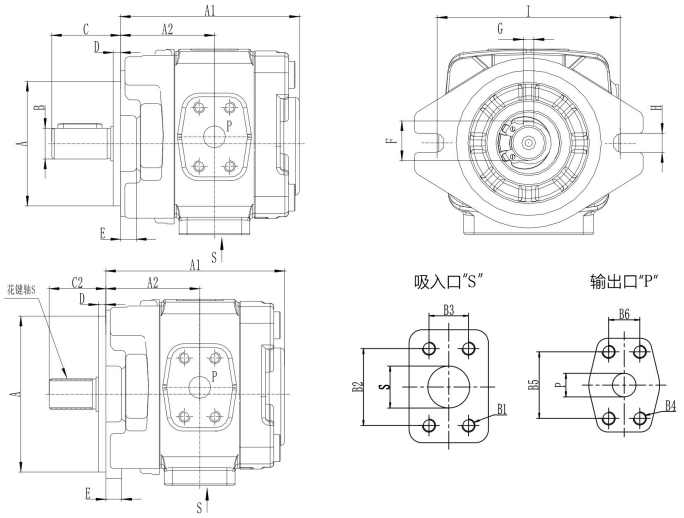
系列	规格	A1	A2	S	B1	B2	B3	P	B4	B5	B6
IPV4	25	139	73	Φ32	M10深17	58.7	30.2	Φ25	M10深17	47.6	22.2
	32	146	76.5								
IPV5	40	153	80		M12深20	69.9	35.7	Φ25	M10深17	52.4	26.2
	50	163	85								
	63	177	92								
IPV6	80	204	109.5	Φ51	M12深20	77.8	42.9	Φ40	M12深20	69.9	35.7
	100	213	114								
	125	225	120								
IPV7	160	243	129	Φ63.5	M16深25	88.9	50.8	Φ50			

系列	规格	A	B	C	D	E	F	G	H	I	花键S	C2
IPV4	25	101.6	D25	56	6	13	28	8	13.5	146	16/32-13T	46
	32											
IPV5	40	127	D25	56	6	13	28	8	17.5	181	16/32 15T	46
	50											
	63											
IPV6	80	152.4	D40	88	9	18.5	43	12	22	228.6	12/24 17T	62
	100											
	125											
IPV7	160											

串泵油口法兰尺寸 · 替换 VOITH 油泵参数对照

替换 ECKERLE / Sumitomo 参数 ECKERLE / Sumitomo Replacement

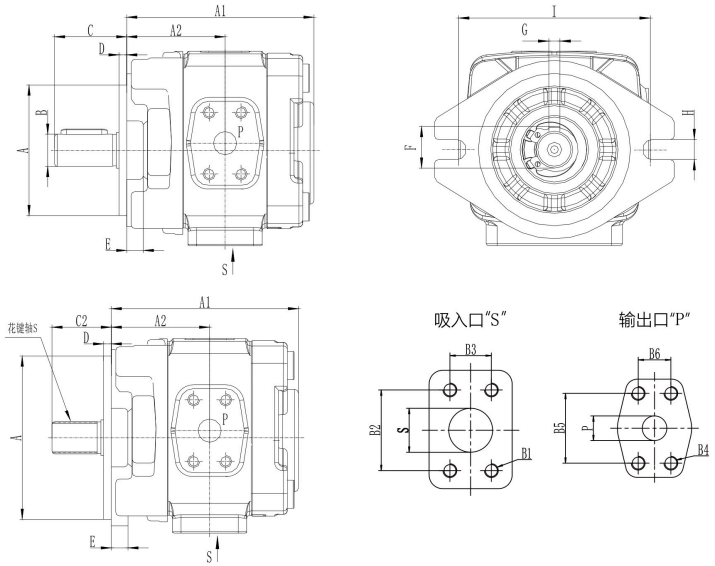
替换 ECKERLE 油泵参数 Replace the Parameters of ECKERLE Oil Pump



系列	规格	A1	A2	S	B1	B2	B3	P	B4	B5	B6
EIPC3	25	139	73	Φ32	M10深17	58.7	30.2	Φ18	M10深17	47.6	22.2
	32	146	76.5								
	40	153	80		M12深20	58.7	30.2	Φ20	M10深17	52.4	26.2
	50	163	85								
	63	177	92								
EIPC5	80	201	106.5	Φ47.2	M12深20	77.8	42.9	Φ32	M14深25	66.7	31.8
	100	210	111	Φ63.5		88.9	50.8				
EIPC6	125	225	120	Φ63.5	M12深20	88.9	50.8	Φ38	M16深25	79.4	36.5
	160	243	129	Φ76	M16深25	106.4	61.9				

系列	规格	A	B	C	D	E	F	G	H	I	花键S	C2
EIPC3	25	101.6	D25	56	6	13	28	8	13.5	146	16/32 15T	46
	32											
	40											
	50											
	63											
EIPC5	80	127	D40	85	6	22	43	12	17.5	181	12/24 14T	46
	100											
EIPC6	125	152.4	D40	88	9	18.5	43	12	22	228.6	12/24 17T	62
	160											

替换 Sumitomo油泵参数 Replace the Parameters of Sumitomo Oil Pump



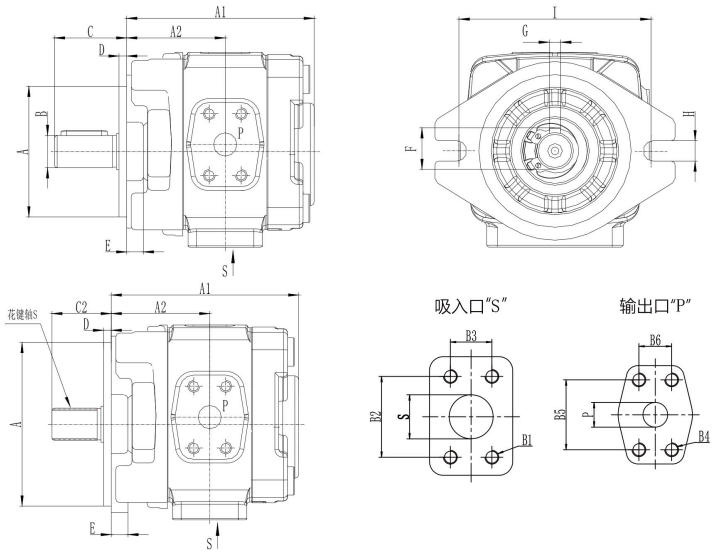
系列	规格	A1	A2	S	B1	B2	B3	P	B4	B5	B6
QT4	32	146	76.5	Φ32	M12深20	69.9	35.7	Φ25	M10深17	52.4	26.2
	40	153	80								
QT5	50	163	85	Φ51	M12深20	77.8	42.9	Φ32	M10深17	58.7	30.2
	63	177	92								
QT6	80	204	109.5	Φ63.5	M12深20	88.9	50.8	Φ38	M12深20	69.9	35.7
	100	213	114								
	125	225	120								

系列	规格	A	B	C	D	E	F	G	H	I	花键S	C2
QT4	32	101.6	D25	56	6	13	28	8	14.3	146	16/32 14T	46
	40											
QT5	50	127	D40	88	6	13	43	12	17.5	181		
	63											
QT6	80	152.4	D50	88	9	18.5	53.5	14	22	228.6	12/24 14T	62
	100											
	125											

替换 ECKERLE / Sumitomo 油泵参数对照

替换 SETTIMA 参数 SETTIMA Replacement

替换 SETTIMA 参数 Replace the Parameters of SETTIMA Oil Pump



系列	规格	A1	A2	S	B1	B2	B3	P	B4	B5	B6
GR47	32	146	76.5	Φ32	M10深17	58.7	30.2	Φ18	M10深17	47.6	22.2
	40	153	80								
	50	163	85								
GR55	63	177	92	Φ32	M12深20	69.9	35.7	Φ20	M10深17	52.4	26.2
	80	204	109.5								
	100	213	114								
GR72	125	225	120	Φ63.5	M12深20	88.9	50.8	Φ38	M16深25	79.4	36.5
	160	243	129								

系列	规格	A	B	C	D	E	F	G	H	I	花键S	C2
GR47	32	101.6	25	56	6	13	28	8	14.3	146	16/32 13T	46
	40											
	50											
GR55	63	101.6	25.4	56	6	13	28	6.35	14.3	146	16/32 15T	46
	80											
	100											
GR72	125	152.4	40	88	9	18.5	43	12	22	228.6	12/24 23T	54
	160											

使用注意事项 Precautions for Use

工作介质 Working Medium

可使用粘度范围在10-300mm²/s的石油基矿物油，推荐使用ISO VG46 抗磨液压油。

Petroleum-based mineral oil with a viscosity range of 10-300 mm²/s can be used; ISO VG46 anti-wear hydraulic oil is recommended.

工作温度 Operating Temperature

工作温度范围-10℃--100℃,为保证长期的可靠寿命，最佳工作温度范围30-60℃，清洁度控制要求控制系统油液的清洁度水平，不超过9级(NAS 1638)或17/14(ISO 4066)

The operating temperature range is -10℃ to 100℃. To ensure long-term reliable service life, the optimal operating temperature range is 30-60℃. For cleanliness control, the oil cleanliness level in the control system must be maintained, not exceeding Class 9 (NAS 1638) or 17/14 (ISO 4066).

吸入口压力与配管 Suction Port Pressure and Piping

允许吸入口绝对压力为0.2-2 Bar。合理的配管通径应不小于泵的吸油口，以确保平均0.6-1.2m/s的最佳吸油速度。

The allowable absolute pressure at the suction port is 0.2-2 Bar. The diameter of the piping should be no smaller than that of the pump's suction port to ensure an optimal oil suction speed of 0.6-1.2 m/s on average.

进出口连接 Inlet and Outlet Connections

尽力避免进出油管采用钢管硬连接，建议使用橡胶软管，以避免出现额外的负载导致共振及额外的噪音。连接轴与电机连接尽可能使用挠性联轴器，以避免产生弯曲力矩或轴向推力，轴与电机轴最大允许同轴度误差小于0.15mm。

Hard connections using steel pipes for the inlet and outlet oil pipes should be avoided as much as possible; rubber hoses are recommended to prevent additional loads that may cause resonance and excessive noise. A flexible coupling should be used for the connection between the pump shaft and the motor shaft whenever possible to avoid bending moments or axial thrust. The maximum allowable coaxiality error between the pump shaft and the motor shaft shall be less than 0.15 mm.

使用前注意事项 Precautions before use

安 装 Installation

安装完成后注意联轴器之间需要留有3-5mm间隙，避免油泵与电机顶死，导致油泵损坏。整体安装完成后断电在旋转下联轴器，看是否旋转顺畅，同心度良好。

After installation, ensure a 3-5 mm gap is left between the couplings to prevent the oil pump and motor from being locked against each other, which could cause damage to the oil pump. After the overall installation is completed, cut off the power supply and rotate the coupling by hand to check if it rotates smoothly and if the coaxiality is good.

排 气 Air Bleeding

在初次运转前，应采用向泵内注油或增设排气阀等方式，排除泵内和系统管路里的空气，如果泵内或管路内有空气残留会导致泵的振动及噪音，并间接影响的使用寿命。

Before the first operation, air in the pump and system pipelines must be exhausted by means such as filling oil into the pump or installing an exhaust valve. Residual air in the pump or pipelines will cause vibration and noise of the pump and indirectly affect its service life.

保养使用及维护 Maintenance, use and upkeep

保 养 Maintenance

为提高泵的使用寿命，应定期检查系统的异常振动、噪音、油液温度、油箱内是否有气泡生成以及有无泄漏等问题，并及时维护。

To extend the service life of the pump, regularly inspect the system for abnormal vibration, noise, oil temperature, air bubbles in the oil tank, and leaks, and perform maintenance in a timely manner.

维 护 Maintenance

未经我公司同意，请勿拆解油泵，避免后期产品回厂问题分析。

Do not disassemble the oil pump without the consent of our company, to avoid difficulties in analyzing problems when the product is returned to the factory later.

安 全 Safety

泵如出现异常状况，请勿直接触摸泵，避免被高温烫伤。

If the pump malfunctions, do not touch it directly to prevent scalding from high temperatures.

PRECAUTIONS FOR USE

使用注意事项

工作介质 Working Medium

可使用粘度范围 10–300 mm^2/s 的石油基矿物油，推荐使用 ISO VG46 抗磨液压油。

> Petroleum-based mineral oil with viscosity 10–300 mm^2/s; ISO VG46 anti-wear hydraulic oil recommended.

工作温度 Operating Temperature

温度范围 −10℃ ~ 100℃，最佳 30–60℃；油液清洁度不超过 NAS1638 9 级或 ISO4406 17/14。

> Range −10°C to 100°C, optimal 30–60°C; cleanliness not exceeding NAS1638 Class 9 or ISO4406 17/14.

吸入口压力与配管 Suction Port Pressure & Piping

允许吸入口绝对压力 0.2–2 Bar；配管通径不小于泵吸油口，确保平均 0.6–1.2 m/s 吸油速度。

> Allowable suction absolute pressure 0.2–2 Bar; pipe diameter no smaller than the suction port for 0.6–1.2 m/s suction speed.

进出口连接 Inlet & Outlet Connections

避免钢管硬连接，建议用橡胶软管；轴与电机用挠性联轴器，最大同轴度误差小于 0.15 mm。

> Avoid rigid steel-pipe connections; use rubber hoses. Use flexible couplings; coaxiality error below 0.15 mm.

安装 Installation

联轴器间留 3–5 mm 间隙；安装完成后断电手动旋转联轴器检查是否顺畅、同心度良好。

> Leave 3–5 mm gap between couplings; after installation, rotate the coupling by hand (power off) to check smoothness and coaxiality.

排气 Air Bleeding

初次运转前向泵内注油或增设排气阀，排除空气，否则引起振动、噪音并影响寿命。

> Before first operation, fill oil or install an exhaust valve to remove air; residual air causes vibration/noise and shortens life.

保养与维护 Maintenance

定期检查异常振动、噪音、油温、油箱气泡及泄漏并及时维护；未经同意勿拆解油泵。

> Regularly inspect abnormal vibration, noise, oil temperature, tank bubbles and leaks; do not disassemble without consent.

安全 Safety

泵异常时勿直接触摸，避免高温烫伤。

> Do not touch a malfunctioning pump directly to prevent scalding.