

Product Manual

齿轮泵 Hydraulic Gear Pump

0P / 1P / 1.5P / 2P / 2.5P / 3P / 多联泵系列

上海上甲智控液压有限公司
SHANGJIA ZHIKONG HYDRAULIC CO.,LTD



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www.shangjiayeya.com

上甲智控液压

领先的技术 一站式服务

上海上甲智控液压有限公司，是由KYDAC控股的企业。作为KYDAC旗下的重要组成部分，我公司成立于2007年，占地4万多平方米，建设面积达2万平方米。我们汇聚了一支由多位高级液压工程师组成的专业团队，专注于液压传动、液压冷却和液压动力领域，秉承着卓越的专业能力。

Leading technology one-stop service

Shanghai Shangjia Zhikong Hydraulic Co., Ltd. is an enterprise controlled by KYDAC. As an important part of KYDAC, our company was established in 2007, covering an area of more than 40,000 square meters, with a construction area of 20,000 square meters. We have a professional team of senior hydraulic engineers, focusing on the fields of hydraulic transmission, hydraulic cooling and hydraulic power, adhering to the outstanding professional capabilities.



创新引领未来

上甲智控液压专注于为全球工程机械、农业机械等领域的行业用户提供优质液压元件及成套液压系统解决方案。不断为客户提供新的产品和技术，为客户创造价值。

Innovation leads the future

Shangjia Hydraulic focuses on providing high-quality hydraulic components and complete hydraulic system solutions to industry users in the fields of engineering machinery, agricultural machinery, and other fields worldwide. Continuously providing customers with new products and technologies to create value for them.



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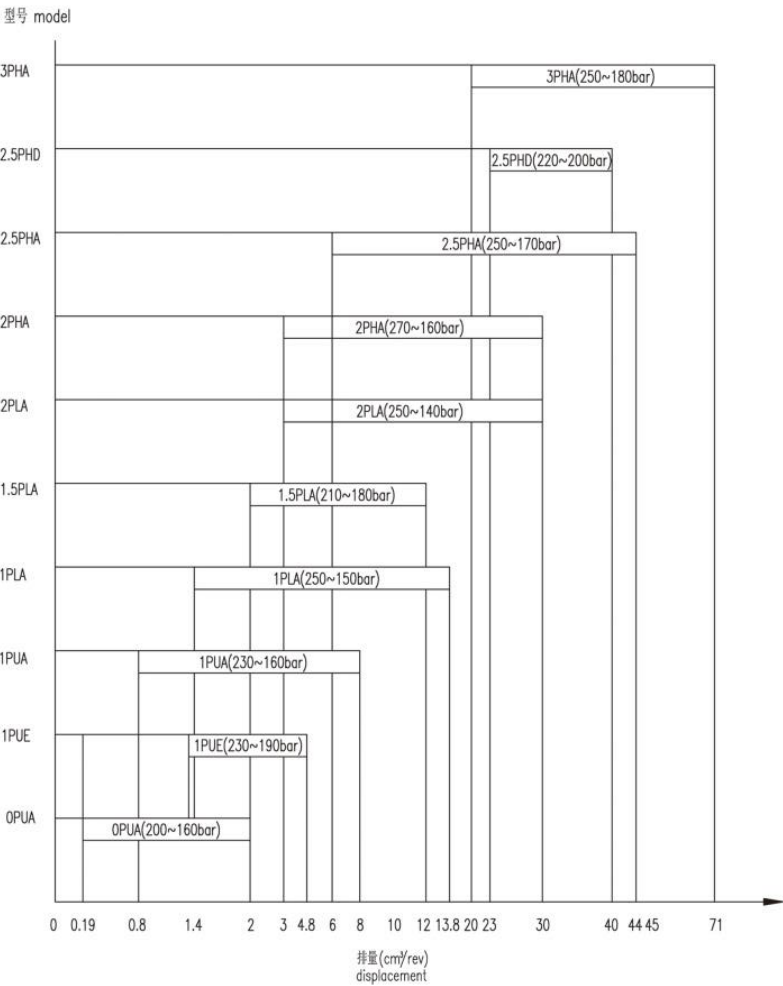
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PRODUCT RANGE · 产品范围



备注: 图表中所示压力最高连续工作压力, 产品系列号"HA"表示前盖、后盖材质为铸铁, 其余系列号表示前盖、后盖材质为铝合金。
Remark: Show these pressures as maximum continuous pressure in the graph, product series "HA" denote front and end cover material cast iron, etcaeteras series denote front and end cover material aluminum.

为了使GOOD泵获得最佳的性能和更长的使用寿命,请严格遵循样本给出的安装和使用说明。

安装说明

在系统启动进行连续工作之前,我们建议采取如下简单的预防措施:

- 检查泵的转向是否与传动轴的转向一致,切勿逆向旋转。
- 检查泵的主轴与电动机的主轴是否对中,必须保证连接不产生轴向和径向负载。
- 检查主轴与油封之间是否清洁,将进出油口连接法兰处的赃物、杂质和外杂物清除干净,颗粒物会导致油封快速磨损和泄漏加剧。
- 确保吸油口和回油口管端总是位于油面以下,并且相互之间尽量远离。
- 安装时应给泵注油,用手转动泵。
- 当启动泵时,卸开泵的泄油口,将管路中的空气排出。
- 为了保证泵的使用寿命,应避免或限制带负载工况下启动。

液压油

请使用具有以下良好性能的液压油:

抗氧化、抗气泡(快速使气泡破裂)、耐磨损、耐腐蚀以及有润滑特性。油液同时应该遵循DIN 51525和VDMA24317标准,及通过FZG的11级测试。

对于标准型,油液温度应该在-10°C至80°C之间,其运动粘度范围如下:

许用范围	allowed range	6...500 cSt
推荐范围	recommended range	10...100 cSt
启动时允许值	value allowed at startup	...2000 cSt

进口口压力

在标准工况下,吸油管路的压力低于大气压,工作时进口口压力应在0.7至3.0bar之间(指绝对压力)。

Please strictly follow assembly and use indications given in this catalogue for top performance and longer life the GOOD pump.

INSTALLATION NOTES

Before starting the system on a continuous basis, we suggest to adopt as follows simple precautions.

- Check for the direction of rotation of the pump to be consistent
- Check for the proper alignment of pump shaft and motor shaft, it is necessary that the connection does not induce axial or radial loads.
- Check if contact area between seal ring and shaft is clean, remove all dirt, chips and all foreign bodies from flanges connecting inlet and delivery ports, dust could provoke quicker wear and leakage.
- Ensure that intake and return pipes ends are always below fluid level and as far from each other as possible.
- Fill the pump with fluid, and turn it by hand.
- Disconnect pump drain during startup to bleed air off the circuit.
- Always avoid or limit load starting for pump longer life.

HYDRAULIC FLUIDS

Use specific mineral oil based hydraulic fluids having good antioxidant, anti-foaming(rapid de-aeration), anti-wear, anti-corrosion and lubricating properties. Fluids should also comply with DIN 51525 and VDMA 24317 standards and get through 11th stage of FZG test.

For the standard models, the temperature of the fluid should not be between -10°C and +80°C.
Fluid kinematic viscosity ranges are the following:

INLET PRESSURE

Under standard working conditions, intake pipe pressure is lower than atmospheric pressure. The operating inlet pressure should range between 0.7 and 3 bars (absolute).

过滤建议

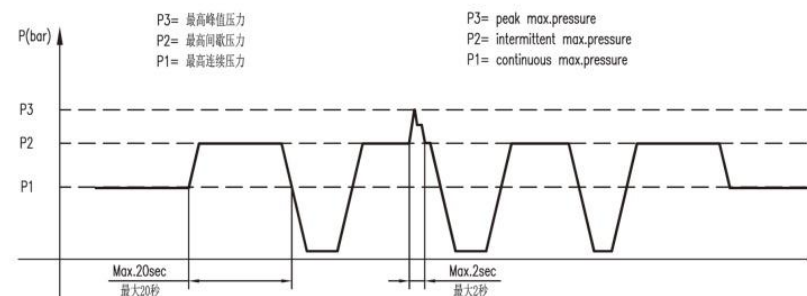
大量事实说明,多数齿轮泵的过早失效都是由于油液的污染引起的。

由于我们的质量保证并不包括由于系统中颗粒所造成的磨损,所以我们建议对油液进行过滤,以便将油液中的污染粒子的尺寸及浓度降低到允许的最低值。

过滤系统应该一直保证污染度等级不要超过下表所示的值:

工作压力	Pressure	<140 bar	140...210 bar	>210 bar
NAS 1638 污染等级	NAS 1638 Class	10	9	8
ISO 4406 污染等级	ISO 4406 Class	19/16	18/15	17/14
过滤比 $\beta_x = 75$	Ratio $\beta_x = 75$	25-40 μm	12-15 μm	6-12 μm

压力定义



进油管 and 出油管

液压系统的管路不应突然变向、急弯及断面突然变化。管路不要太长或不成比例,管路断面处应有足够的尺寸,以便油液流速不要超过推荐值。

建议认真考虑进出油管法兰接头处通过的缩减量。

流速参考值如下表

进油管	Intake line	0.5...1.6 m/s
出油管	Delivery line	2...6 m/s
回油管	Return line	1.6...3 m/s

FILTER RECOMMENDATION

It is widely known that most pumps early failures are due to contaminated fluids. As a warranty cannot be issued for dirt-related wear, we recommend a filter be used, which can reduce the degree of contamination to a permissible dimension in terms of the size and concentration of dirt particles. The filtering system shall always ensure contamination levels not exceeding the values indicated below:

PRESSURE DEFINITION

INLET AND DELIVERY LINES

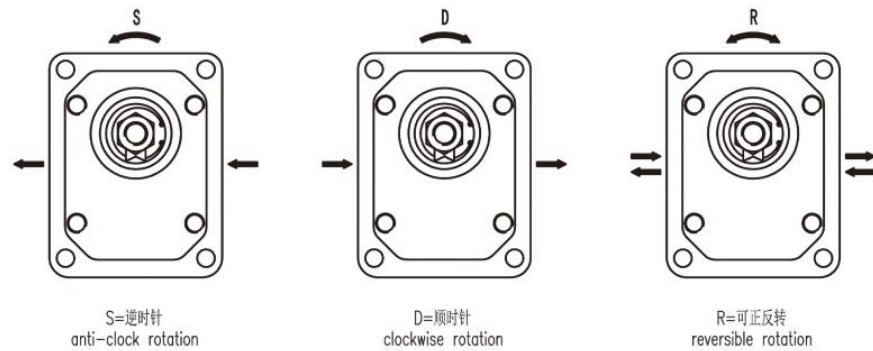
Hydraulic system pipes should show no sudden changes of direction, sharp bends and sudden differences in cross-section. They should not be too long or out of proportion. Pipe cross-section should be sized so that fluid velocity does not exceed recommended values. It is advisable to carefully consider the possible diameter reduction of the inlet or outlet pipes fitted on flange fittings. Reference values are the following:

旋转方向

ROTATION DIRECTION

旋转方向定义：站在泵的前面，其传动轴面对自己，泵顺时针旋转时，为右旋，用“D”表示，反之，即泵逆时针旋转时，为左旋，用“S”表示。

Rotation direction of definition: when standing before the pump with driving shaft up with its projecting end towards the observer, the pump is rotating clockwise in case of right-hand rotation "D". The contrary will happen with left-hand pumps "S", keeping the same point of view.



泵的设计计算

DESIGN CALCULATIONS FOR PUMP

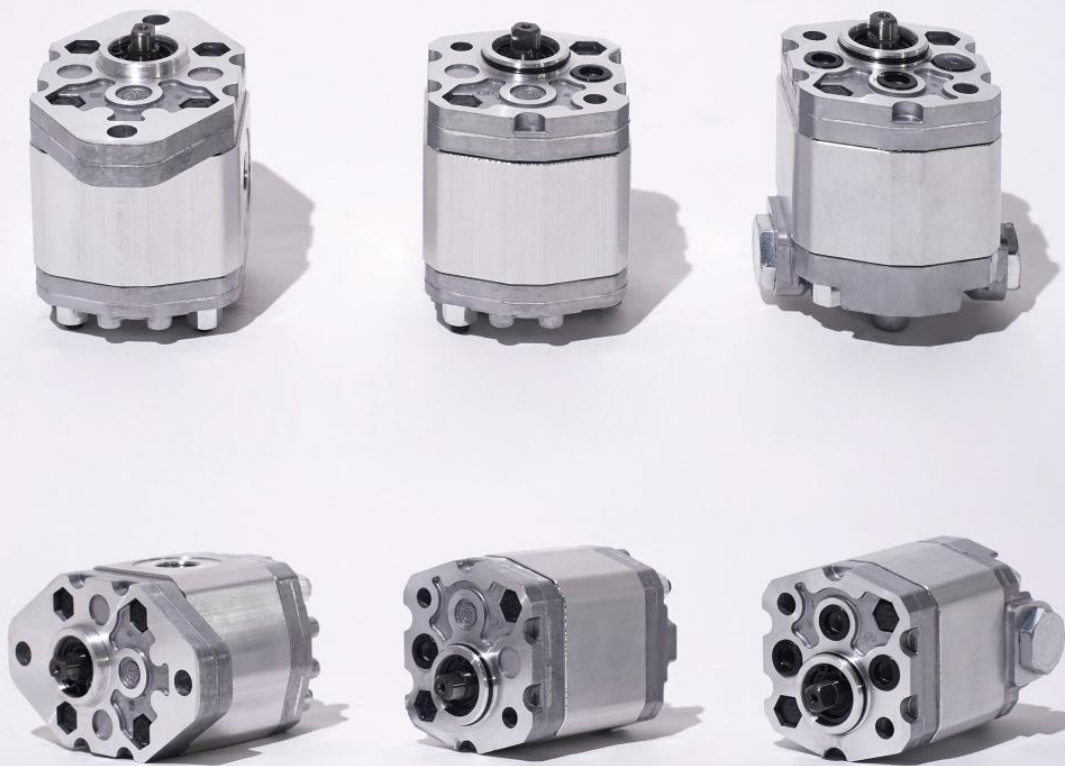
流量	Flow	Q	L/min
扭矩	Torque	M	Nm
功率	Power	P	kW
转速	Speed	n	r/min
压力	Pressure	ΔP	bar
排量	Displacement	V	cm ³ /rev

容积效率	Volumetric efficiency	$\eta_v = \eta_v(V, \Delta P, n)$	≈ 0.93
机械效率	Mechanical efficiency	$\eta_{hm} = \eta_{hm}(V, \Delta P, n)$	≈ 0.85
总效率	Total efficiency	$\eta_t = \eta_v \cdot \eta_{hm}$	≈ 0.80

$Q = V \cdot n \cdot \eta_v \cdot 10^{-3}$	[L/min]
$M = (\Delta P \cdot V) / (62.83 \cdot \eta_{hm})$	[Nm]
$P = (\Delta P \cdot Q) / (612 \cdot \eta_t)$	[kW]

OPUA SERIES

< OPUA系列



OPUA系列

OPUA Series

如何订购 How to order

0	P	UA	规格 Size	转向 Rotation	轴伸 Shaft	前盖 Front cover	油口 Ports	油口位置 Ports position	油封 Seals	可选项 Options
组别 Group	P 齿轮泵 Pump	系列号 Series	0.19 0.26 0.38 0.50 0.65 0.75 0.88 1.00 1.25 1.50 1.75 2.00	D 顺时针 Clockwise S 逆时针 Counter clockwise R 可正反转 Reversible		A0 A1 B0 B1				可选项 / Options V-方向阀 V-Directional valves 排油管 / Drain Q0-内部排油 / internal drain Q1-外部排油 / external drain $\phi 5$ Q2-外部排油 / external drain G1/8

油口位置

省略-侧进侧出
A-前进前出
B-后进前出
C-后进侧出
D-侧进前出
R-后进后出

Ports position

Omit-Side inlet and side outlet
A-Front inlet and front outlet
B-Back inlet and front outlet
C-Back inlet and side outlet
D-Side inlet and front outlet
R-Back inlet and back outlet

油封

省略-温度范围在 -10°C ~ $+80^{\circ}\text{C}$, 进油口最高绝对压力为3bar。
V-适用于高温介质, 温度范围在 -10°C ~ $+120^{\circ}\text{C}$ 。
H-适用于低温介质, 温度范围在 -40°C ~ $+80^{\circ}\text{C}$ 。
T-适用于进油口最大绝对压力3~6bar。
N-适用于进油口最大绝对压力3~10bar。

Seals

Omit-Range between -10°C and $+80^{\circ}\text{C}$, inlet pressure up to max. 3 bar absolute.
V-Version suitable for fluid at hi-temperatures, range between -10°C and $+120^{\circ}\text{C}$.
H-Version suitable for fluid at low-temperatures, range between -40°C and $+80^{\circ}\text{C}$.
T-Version suitable for inlet pressure up to max. 3 and 6 bar absolute.
N-Version suitable for inlet pressure up to max. 3 and 10 bar absolute.

范例/ Examples

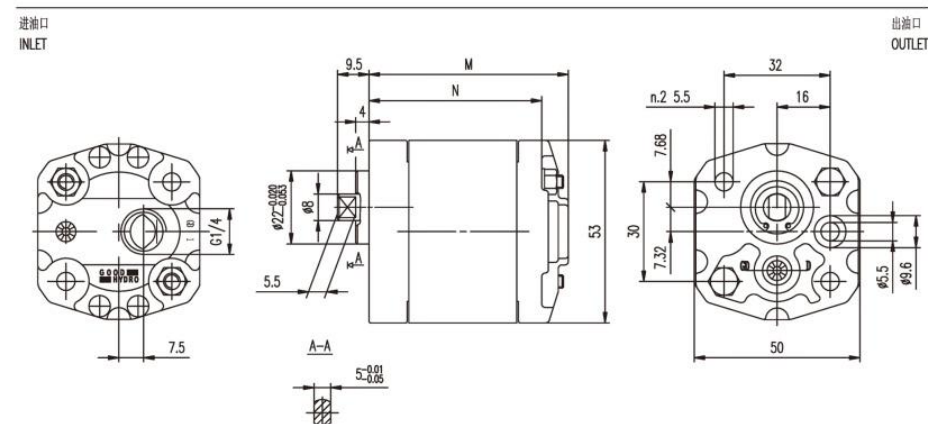
OPUA-0.19-D-G0-B0-L0-B= 顺时针, 排量 0.19 cc/rev, B0 前盖, G0 扁键轴伸, L0 安装油口, 后进前出, 标准油封
clockwise rotation, 0.19 cc/rev, B0 front cover, G0 tang shaft, setting ports L0 type, back inlet and front outlet (B), standard seals
OPUA-0.19-D-G0-B1-L2= 顺时针, 排量 0.19 cc/rev, B1 前盖, G0 扁键轴伸, L2 安装油口, 标准油封
clockwise rotation, 0.19 cc/rev, B1 front cover, G0 tang shaft, setting ports L2 type, standard seals
OPUA-0.19-D-C0-A0-L2-N= 顺时针, 排量 0.19 cc/rev, A0 前盖, C0 圆柱轴伸, L2 安装油口, 高压油封(N)
clockwise rotation, 0.19 cc/rev, A0 front cover, C0 parallel shaft, setting ports L2 type, high pressure seals(N)

OPUA*B0系列

OPUA*B0 Series

后盖: G1/4 螺纹深 12。
安装泵时, n.2 M5 螺钉扭矩设定为
 $5.4 \pm 0.5 \text{ Nm}$ 。

End cover: G1/4 thread depth 12.
To mount the pump, n.2 M5 screws,
with a torque wrench setting fixed
at $5.4 \pm 0.5 \text{ Nm}$.



主要技术参数 Main Specification

规格 Type	排量 Displacement	最大压力 Max pressure			最高转速 Max. speed	最低转速 Min. speed	尺寸 Dimensions	
	(cm^3/rev)	P1	P2	P3	(r/min)	(r/min)	M	N
		bar	bar	bar			mm	mm
OPUA-0.19-D*B0	0.19	200	230	250	7000	1000	60	51
OPUA-0.26-D*B0	0.26	200	230	250	7000	1000	60.5	51.5
OPUA-0.38-D*B0	0.38	200	230	250	7000	1000	61.5	52.5
OPUA-0.50-D*B0	0.50	200	230	250	7000	1000	62.5	53.5
OPUA-0.65-D*B0	0.65	200	230	250	7000	1000	63.5	54.5
OPUA-0.75-D*B0	0.75	200	230	250	7000	1000	64.5	55.5
OPUA-0.88-D*B0	0.88	200	230	250	7000	1000	65.5	56.5
OPUA-1.00-D*B0	1.00	200	230	250	6000	850	66.5	57.5
OPUA-1.25-D*B0	1.25	200	230	250	5000	700	68.5	59.5
OPUA-1.50-D*B0	1.50	200	230	250	4000	600	70.5	61.5
OPUA-1.75-D*B0	1.75	180	210	230	4000	600	72.5	63.5
OPUA-2.00-D*B0	2.00	160	190	210	3000	500	74.5	65.5

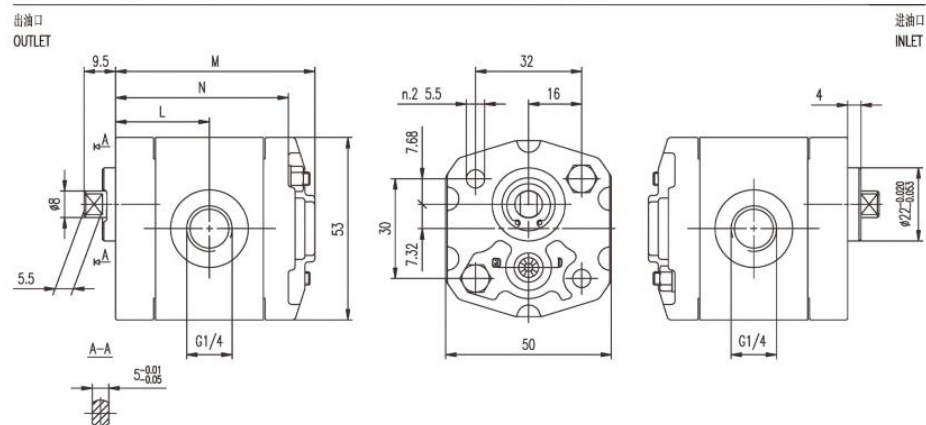
OPUA*B1系列

OPUA*B1 Series

G1/4 螺纹深 9.

安装泵时, n.2 M5 螺钉扭矩设定为
5.4±0.5 Nm.

G1/4 thread depth 9.

To mount the pump, n.2 M5 screws,
with a torque wrench setting fixed
at 5.4±0.5 Nm.

主要技术参数 Main Specification

规格 Type	排量 Displacement	最大压力 Max pressure			最高转速 Max. speed	最低转速 Min. speed	尺寸 Dimensions		
		P1	P2	P3			M	N	L
	(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm	mm
OPUA-0.19-D*B1	0.19	200	230	250	7000	1000	60	51	27.2
OPUA-0.26-D*B1	0.26	200	230	250	7000	1000	60.5	51.5	27.5
OPUA-0.38-D*B1	0.38	200	230	250	7000	1000	61.5	52.5	28
OPUA-0.50-D*B1	0.50	200	230	250	7000	1000	62.5	53.5	28.5
OPUA-0.65-D*B1	0.65	200	230	250	7000	1000	63.5	54.5	29
OPUA-0.75-D*B1	0.75	200	230	250	7000	1000	64.5	55.5	29.5
OPUA-0.88-D*B1	0.88	200	230	250	7000	1000	65.5	56.5	30
OPUA-1.00-D*B1	1.00	200	230	250	6000	850	66.5	57.5	30.5
OPUA-1.25-D*B1	1.25	200	230	250	5000	700	68.5	59.5	31.5
OPUA-1.50-D*B1	1.50	200	230	250	4000	600	70.5	61.5	32.5
OPUA-1.75-D*B1	1.75	180	210	230	4000	600	72.5	63.5	33.5
OPUA-2.00-D*B1	2.00	160	190	210	3000	500	74.5	65.5	34.5

OPUA*A0系列

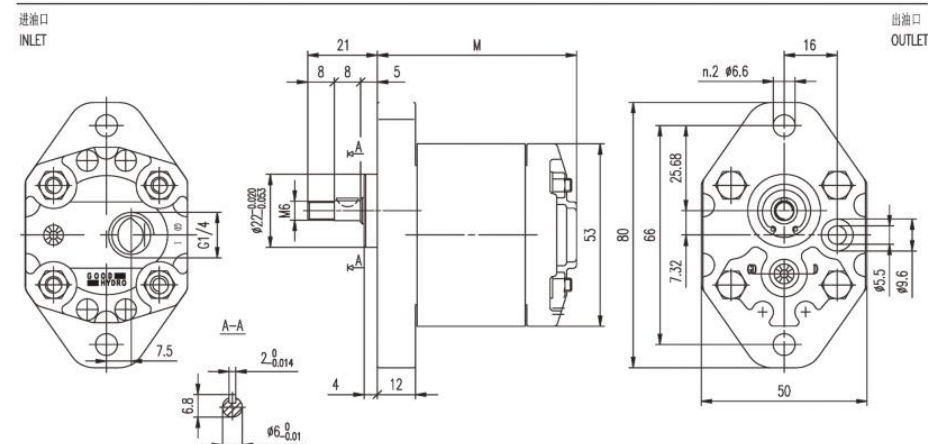
OPUA*A0 Series

后盖: G1/4 螺纹深 12.

安装泵时, n.4 M5 螺钉扭矩设定为
5.4±0.5 Nm.

轴伸 M6 螺母扭矩设定为 7 Nm.

End cover: G1/4 thread depth 12.

To mount the pump, n.4 M5 screws,
with a torque wrench setting fixed
at 5.4±0.5 Nm.Shaft M6 nut, with a torque wrench
setting fixed at 7 Nm.

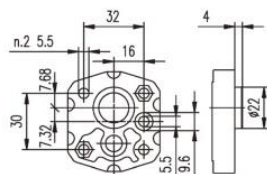
主要技术参数 Main Specification

规格 Type	排量 Displacement	最大压力 Max pressure			最高转速 Max. speed	最低转速 Min. speed	尺寸 Dimensions		
		P1	P2	P3			M	N	L
	(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm	mm
OPUA-0.19-D*A0	0.19	200	230	250	7000	1000	60	51	27.2
OPUA-0.26-D*A0	0.26	200	230	250	7000	1000	60.5	51.5	27.5
OPUA-0.38-D*A0	0.38	200	230	250	7000	1000	61.5	52.5	28
OPUA-0.50-D*A0	0.50	200	230	250	7000	1000	62.5	53.5	28.5
OPUA-0.65-D*A0	0.65	200	230	250	7000	1000	63.5	54.5	29
OPUA-0.75-D*A0	0.75	200	230	250	7000	1000	64.5	55.5	29.5
OPUA-0.88-D*A0	0.88	200	230	250	7000	1000	65.5	56.5	30
OPUA-1.00-D*A0	1.00	200	230	250	6000	850	66.5	57.5	30.5
OPUA-1.25-D*A0	1.25	200	230	250	5000	700	68.5	59.5	31.5
OPUA-1.50-D*A0	1.50	200	230	250	4000	600	70.5	61.5	32.5
OPUA-1.75-D*A0	1.75	180	210	230	4000	600	72.5	63.5	33.5
OPUA-2.00-D*A0	2.00	160	190	210	3000	500	74.5	65.5	34.5

OPUA系列

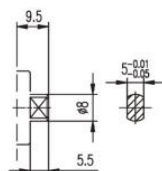
OPUA Series

前盖/FRONT COVER

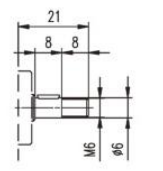


B0

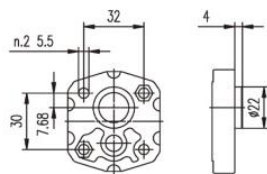
轴伸/SHAFTS



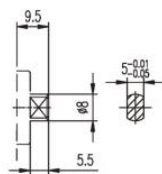
G0

最大扭矩
Max.Torque 10 Nm

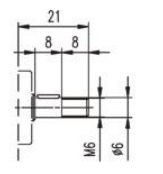
C0

最大扭矩
Max.Torque 8 Nm

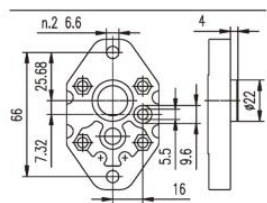
B1



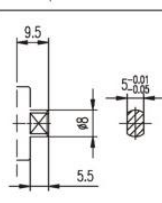
G0

最大扭矩
Max.Torque 10 Nm

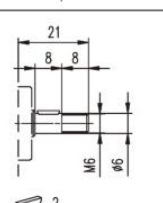
C0

最大扭矩
Max.Torque 8 Nm

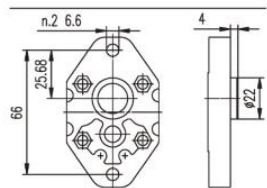
A0



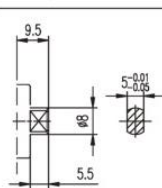
G0

最大扭矩
Max.Torque 10 Nm

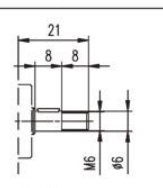
C0

最大扭矩
Max.Torque 8 Nm

A1



G0

最大扭矩
Max.Torque 10 Nm

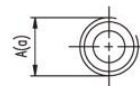
C0

最大扭矩
Max.Torque 8 Nm

OPUA系列

OPUA Series

油口/PORTS



Z0

规格 TYPE	进油口 INLET	出油口 OUTLET
OPUA...0.19 ÷ OPUA...2.00	A M10x1	a M10x1



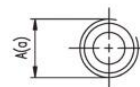
L0

规格 TYPE	进油口 INLET	出油口 OUTLET
OPUA...0.19 ÷ OPUA...2.00	A G1/4	a ø5.5



L1

规格 TYPE	进油口 INLET	出油口 OUTLET
OPUA...0.19 ÷ OPUA...2.00	A G3/8	a ø5.5



L2

规格 TYPE	进油口 INLET	出油口 OUTLET
OPUA...0.19 ÷ OPUA...2.00	A G1/4	a G1/4



1PUG SERIES

1PUG系列 >



1PUG系列

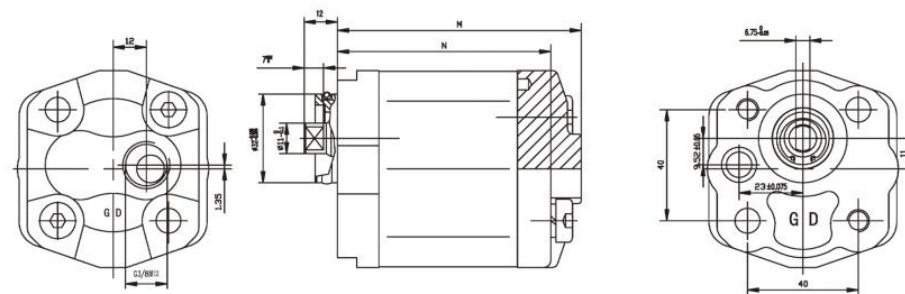
1PUG Series

G3/8 螺纹深 12.
安装泵时, n.2 M8 螺钉扭矩设定为
27±3 Nm.

G3/8 thread depth 12.
To mount the pump, n.2 M8 screws,
with a torque wrench setting fixed
at 27±3 Nm.

进油口
INLET

出油口
OUTLET



主要技术参数 Main Specification

规格 Type	排量 Displacement (cm ³ /rev)	最大压力 Max pressure			最高转速 Max. speed (r/min)	最低转速 Min. speed (r/min)	尺寸 Dimensions	
		P1 bar	P2 bar	P3 bar			M mm	N mm
1PUG-4.3	4.3	270	280	290	4000	1000	94.3	83.3
1PUG-5.0	5.0	270	280	290	4000	1000	97.3	86.3
1PUG-6.0	6.0	270	280	290	3500	1000	101.1	90.1
1PUG-6.5	6.5	270	280	290	3000	1000	103.3	92.3
1PUG-7.0	7.0	270	280	290	2500	1000	105.1	94.1
1PUG-7.8	7.8	250	260	270	2100	1000	108.9	97.9
1PUG-10	10	250	260	270	2100	800	118.1	107.1

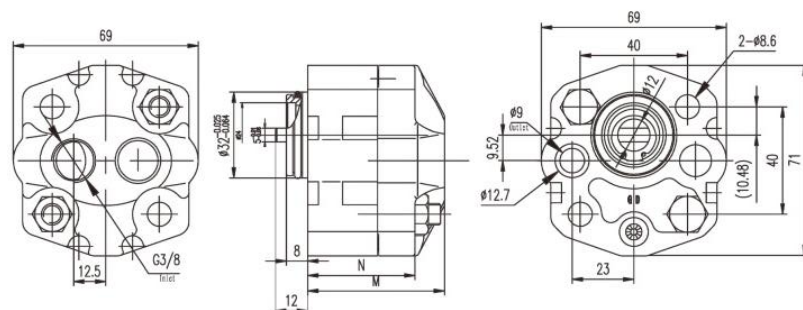
1PUE系列

1PUE Series

后盖: G3/8 螺纹深 12.
安装泵时, n.2 M8 螺钉扭矩设定为
27±3 Nm.

End cover: G3/8 thread depth 12.
To mount the pump, n.2 M8 screws,
with a torque wrench setting fixed
at 27±0.5 Nm.

进油口
INLET



出油口
OUTLET

主要技术参数 Main Specification

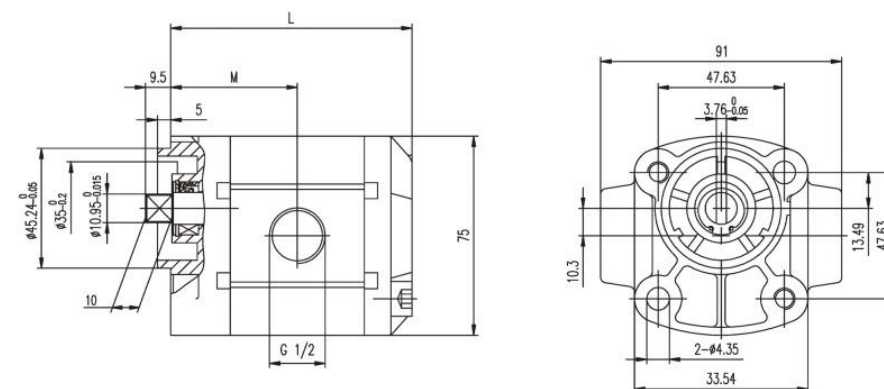
规格 Type	排量 Displacement	最大压力 Max pressure			最高转速 Max. speed	最低转速 Min. speed	尺寸 Dimensions	
		P1	P2	P3			M	N
	(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm
1PUE-1.1	1.1	210	230	250	6000	1000	47.5	36.5
1PUE-1.3	1.3	210	230	250	6000	1000	48.5	37.5
1PUE-1.6	1.6	210	230	250	6000	1000	49.5	38.5
1PUE-2.1	2.1	210	230	250	6000	1000	51	40
1PUE-2.6	2.6	210	230	250	6000	1000	53	42
1PUE-3.2	3.2	190	210	230	5000	1000	54.5	43.5
1PUE-3.7	3.7	190	210	230	4500	1000	56.5	45.5
1PUE-4.2	4.2	190	210	230	4000	850	58	47
1PUE-4.8	4.8	170	190	210	3500	700	60	49

1PUW系列

1PUW Series

泵体: G1/2 螺纹深 12.
安装泵时, n.2 M8 螺钉扭矩设定为
27±3 Nm.

G1/2 thread depth 12.
To mount the pump, n.2 M8 screws,
with a torque wrench setting fixed
at 27±0.5 Nm.



主要技术参数 Main Specification

规格 Type	排量 Displacement	最大压力 Max pressure			最高转速 Max. speed	最低转速 Min. speed	尺寸 Dimensions	
		P1	P2	P3			M	L
	(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm
1PUW-0.8	0.8	210	230	250	6000	1000	40.25	76
1PUW-1.2	1.2	210	230	250	6000	1000	41.1	77.7
1PUW-1.6	1.6	210	230	250	6000	1000	41.95	79.4
1PUW-2.1	2.1	210	230	250	6000	1000	42.8	81.1
1PUW-2.6	2.6	210	230	250	6000	1000	43.7	82.9
1PUW-3.2	3.2	190	210	230	5000	1000	45.25	86
1PUW-3.7	3.7	190	210	230	4500	1000	46.1	87.7
1PUW-4.3	4.3	190	210	230	4000	850	47.75	90.4
1PUW-5.8	5.8	170	190	210	3500	700	68.45	96.4

1PUA系列

1PUE Series

如何订购 How to order

1	P	UA	规格 Size	旋向 Rotation	轴伸 Shaft	前盖 Front cover	油口 Ports	油口位置 Ports position	油封 Seals	可选项 Options
组别 Group	P-齿轮泵 Pump	系列号 Series	0.8 1.1 1.3 1.6 1.8 2.1 2.7 3.2 3.7 4.2 4.8 5.8 7.0 8.0	D 顺时针 Clockwise S 逆时针 Counter clockwise R 可正反转 Reversible		Q0 Q1 Q2 B0				

油口位置

省略-侧进侧出
A-前进前出
B-后进前出
C-后进侧出
D-侧进前出
R-后进后出

Ports position

Omit-Side inlet and side outlet
A-Front inlet and front outlet
B-Back inlet and front outlet
C-Back inlet and side outlet
D-Side inlet and front outlet
R-Back inlet and back outlet

油封

省略-温度范围在-10°C~+80°C, 进油口最高绝对压力为3bar。
V-适用于高温介质, 温度范围在-10°C~+120°C。
H-适用于低温介质, 温度范围在-40°C~+80°C。
T-适用于进油口最大绝对压力3~6bar。
N-适用于进油口最大绝对压力3~10bar。

Seals

Omit-Range between -10°C and +80°C, inlet pressure up to max. 3 bar absolute.
V-Version suitable for fluid at hi-temperatures, range between -10°C and +120°C.
H-Version suitable for fluid at low-temperatures, range between -40°C and +80°C.
T-Version suitable for inlet pressure up to max. 3 and 6 bar absolute.
N-Version suitable for inlet pressure up to max. 3 and 10 bar absolute.

范例/ Examples

1PUA-0.8-D-G0-Q0-L1-B= 顺时针, 排量 0.8 cc/rev, Q0 前盖, G0 扁键轴伸, L1 安装油口, 后进前出, 标准油封
clockwise rotation, 0.8 cc/rev, Q0 front cover, G0 tang shaft, setting ports L1 type, back inlet and front outlet (B), standard seals
1PUA-0.8-D-G0-Q1-L3= 顺时针, 排量 0.8 cc/rev, Q1 前盖, G0 扁键轴伸, L3 安装油口, 标准油封
clockwise rotation, 0.8 cc/rev, Q1 front cover, G0 tang shaft, setting ports L3 type, standard seals
1PUA-0.8-D-T0-B0-F0-N= 顺时针, 排量 0.8 cc/rev, B0 前盖, T0 1:8锥形轴伸, F0 安装油口, 高压油封(N)
clockwise rotation, 0.8 cc/rev, B0 front cover, 1:8 tapered shaft(T0), setting ports F0 type, high pressure seals(N)

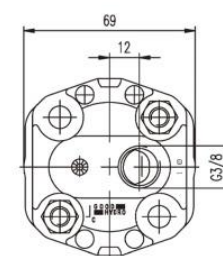
1PUA*Q0系列

1PUA*Q0 Series

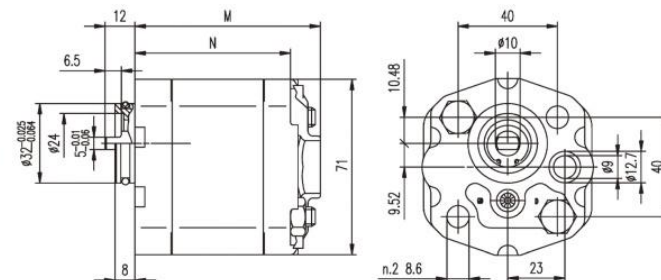
后盖: G3/8 螺纹深 12。
安装泵时, n.2 M8 螺钉扭矩设定为
27±3 Nm.

End cover: G3/8 thread depth 12.
To mount the pump, n.2 M8 screws,
with a torque wrench setting fixed
at 27±3 Nm.

进油口
INLET



出油口
OUTLET



主要技术参数 Main Specification

规格 Type	排量 Displacement (cm ³ /rev)	最大压力 Max pressure			最高转速 Max. speed (r/min)	最低转速 Min. speed (r/min)	尺寸 Dimensions	
		P1	P2	P3			M	N
		bar	bar	bar			mm	mm
1PUA-0.8-D*Q0	0.8	230	250	270	6000	1000	73.5	61.5
1PUA-1.1-D*Q0	1.1	230	250	270	6000	1000	74	62
1PUA-1.3-D*Q0	1.3	230	250	270	6000	1000	75	63
1PUA-1.6-D*Q0	1.6	230	250	270	6000	1000	76	64
1PUA-1.8-D*Q0	1.8	230	250	270	6000	1000	77	65
1PUA-2.1-D*Q0	2.1	230	250	270	6000	1000	78	66
1PUA-2.5-D*Q0	2.5	230	250	270	6000	1000	79	67
1PUA-2.7-D*Q0	2.7	230	250	270	6000	800	80	68
1PUA-3.2-D*Q0	3.2	210	230	250	5000	800	82	70
1PUA-3.7-D*Q0	3.7	210	230	250	4500	800	84	72
1PUA-4.2-D*Q0	4.2	210	230	250	4000	800	86	74
1PUA-4.8-D*Q0	4.8	190	210	230	3500	600	88	76
1PUA-5.8-D*Q0	5.8	190	210	230	3000	600	92	80
1PUA-7.0-D*Q0	7.0	160	180	200	2500	600	96	84
1PUA-8.0-D*Q0	8.0	160	180	200	2100	600	100	88

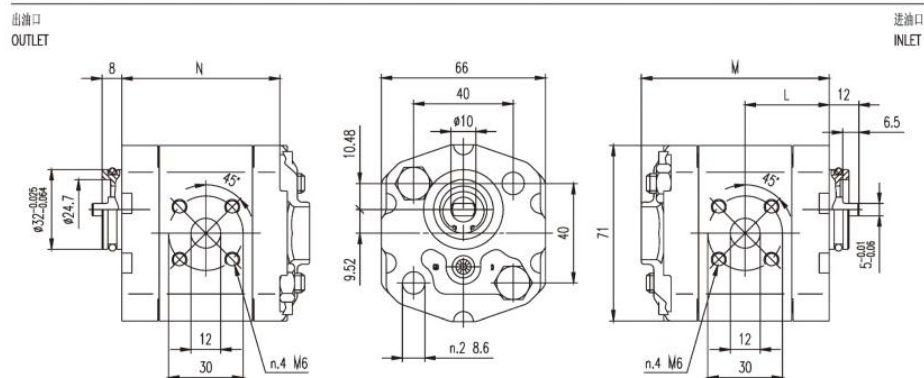
1PUA*Q1系列

1PUA*Q1 Series

M6 螺纹深 12.

安装泵时, n.2 M8 螺钉扭矩设定为
27±3 Nm.

M6 threads depth 12.

To mount the pump, n.2 M8 screws,
with a torque wrench setting fixed
at 27±3 Nm.

主要技术参数 Main Specification

规格 Type	排量 Displacement	最大压力 Max pressure			最高转速 Max. speed	最低转速 Min. speed	尺寸 Dimensions		
		P1	P2	P3			M	N	L
	(cm³/rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm	mm
1PUA-0.8-D*Q1	0.8	230	250	270	6000	1000	73.5	61.5	32.8
1PUA-1.1-D*Q1	1.1	230	250	270	6000	1000	74	62	33
1PUA-1.3-D*Q1	1.3	230	250	270	6000	1000	75	63	33.5
1PUA-1.6-D*Q1	1.6	230	250	270	6000	1000	76	64	34
1PUA-1.8-D*Q1	1.8	230	250	270	6000	1000	77	65	34.5
1PUA-2.1-D*Q1	2.1	230	250	270	6000	1000	78	66	35
1PUA-2.7-D*Q1	2.7	230	250	270	6000	800	80	68	36
1PUA-3.2-D*Q1	3.2	210	230	250	5000	800	82	70	37
1PUA-3.7-D*Q1	3.7	210	230	250	4500	800	84	72	38
1PUA-4.2-D*Q1	4.2	210	230	250	4000	800	86	74	39
1PUA-4.8-D*Q1	4.8	190	210	230	3500	600	88	76	40
1PUA-5.8-D*Q1	5.8	190	210	230	3000	600	92	80	42
1PUA-7.0-D*Q1	7.0	160	180	200	2500	600	96	84	44
1PUA-8.0-D*Q1	8.0	160	180	200	2100	600	100	88	46

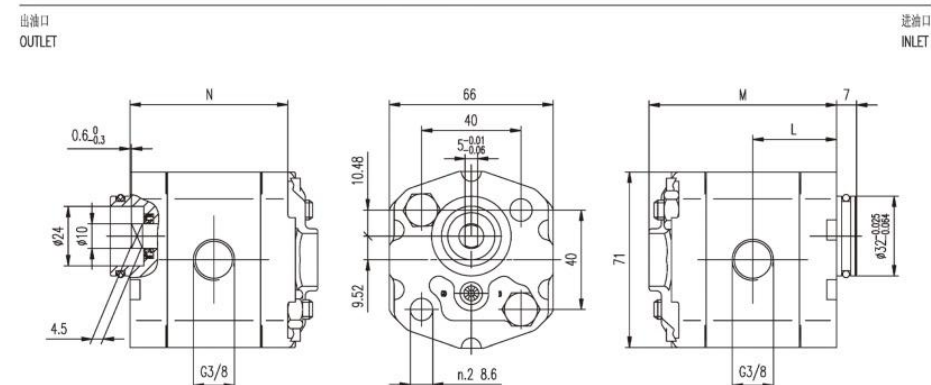
1PUA*Q2系列

1PUA*Q2 Series

G3/8 螺纹深 12.

安装泵时, n.2 M8 螺钉扭矩设定为
27±3 Nm.

G3/8 thread depth 12.

To mount the pump, n.2 M8 screws,
with a torque wrench setting fixed
at 27±3 Nm.

主要技术参数 Main Specification

规格 Type	排量 Displacement	最大压力 Max pressure			最高转速 Max. speed	最低转速 Min. speed	尺寸 Dimensions		
		P1	P2	P3			M	N	L
	(cm³/rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm	mm
1PUA-0.8-D*Q2	0.8	230	250	270	6000	1000	73.5	61.5	32.8
1PUA-1.1-D*Q2	1.1	230	250	270	6000	1000	74	62	33
1PUA-1.3-D*Q2	1.3	230	250	270	6000	1000	75	63	33.5
1PUA-1.6-D*Q2	1.6	230	250	270	6000	1000	76	64	34
1PUA-1.8-D*Q2	1.8	230	250	270	6000	1000	77	65	34.5
1PUA-2.1-D*Q2	2.1	230	250	270	6000	1000	78	66	35
1PUA-2.7-D*Q2	2.7	230	250	270	6000	800	80	68	36
1PUA-3.2-D*Q2	3.2	210	230	250	5000	800	82	70	37
1PUA-3.7-D*Q2	3.7	210	230	250	4500	800	84	72	38
1PUA-4.2-D*Q2	4.2	210	230	250	4000	800	86	74	39
1PUA-4.8-D*Q2	4.8	190	210	230	3500	600	88	76	40
1PUA-5.8-D*Q2	5.8	190	210	230	3000	600	92	80	42
1PUA-7.0-D*Q2	7.0	160	180	200	2500	600	96	84	44
1PUA-8.0-D*Q2	8.0	160	180	200	2100	600	100	88	46

1PUA*B0系列

1PUA*B0 Series

M6 螺纹深 12.

安装泵时, n.4 M8 螺钉扭矩设定为
27±3 Nm.

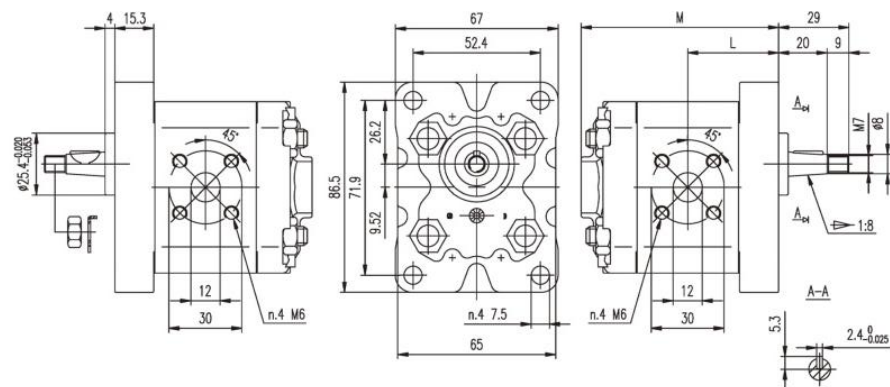
拉伸 M7 螺母扭矩设定为 8 Nm.

M6 thread depth 12.

To mount the pump, n.4 M8 screws, with a torque wrench setting fixed at 27 ± 3 Nm.

Shaft M7 nut, with a torque wrench setting fixed at 8 Nm.

出油口
OUTLET

进油口
INLET

主要技术参数 Main Specification

规格 Type	排量 Displacement	最大压力 Max pressure			最高转速 Max. speed	最低转速 Min. speed	尺寸 Dimensions	
		P1	P2	P3			M	L
	(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm
1PUA-0.8-D*80	0.8	230	250	270	6000	1000	73.5	32.8
1PUA-1.1-D*80	1.1	230	250	270	6000	1000	74	33
1PUA-1.3-D*80	1.3	230	250	270	6000	1000	75	33.5
1PUA-1.6-D*80	1.6	230	250	270	6000	1000	76	34
1PUA-1.8-D*80	1.8	230	250	270	6000	1000	77	34.5
1PUA-2.1-D*80	2.1	230	250	270	6000	1000	78	35
1PUA-2.7-D*80	2.7	230	250	270	6000	800	80	36
1PUA-3.2-D*80	3.2	210	230	250	5000	800	82	37
1PUA-3.7-D*80	3.7	210	230	250	4500	800	84	38
1PUA-4.2-D*80	4.2	210	230	250	4000	800	86	39
1PUA-4.8-D*80	4.8	190	210	230	3500	600	88	40
1PUA-5.8-D*80	5.8	190	210	230	3000	600	92	42
1PUA-7.0-D*80	7.0	160	180	200	2500	600	96	44
1PUA-8.0-D*80	8.0	160	180	200	2100	600	100	46

1PUA*BO-Y系列

1PUA*BO-Y Series

M6 螺纹深 12.

安装泵时, n.4 M8 螺钉扭矩设定为
27±3 Nm

轴伸 M7 螺母扭矩设定为 8 Nm.

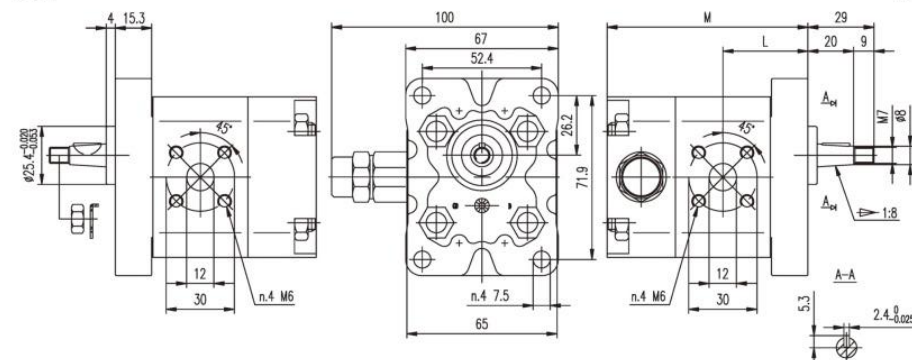


M6 thread depth 12.

To mount the pump, n.4 M8 screws, with a torque wrench setting fixed at 27 ± 3 Nm.

Shaft M7 nut, with a torque wrench setting fixed at 8 Nm.

出油口
OUTLET

进油口
INLET

主要技术参数 Main Specification

规格 Type	排量 Displacement	最大压力 Max pressure			最高转速 Max. speed	最低转速 Min. speed	尺寸 Dimensions	
		P1	P2	P3			M	L
	(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm
1PUA-0.8-D*90-Y	0.8	230	250	270	6000	1000	82.5	32.8
1PUA-1.1-D*90-Y	1.1	230	250	270	6000	1000	83	33
1PUA-1.3-D*90-Y	1.3	230	250	270	6000	1000	84	33.5
1PUA-1.6-D*90-Y	1.6	230	250	270	6000	1000	85	34
1PUA-1.8-D*90-Y	1.8	230	250	270	6000	1000	86	34.5
1PUA-2.1-D*90-Y	2.1	230	250	270	6000	1000	87	35
1PUA-2.7-D*90-Y	2.7	230	250	270	6000	800	89	36
1PUA-3.2-D*90-Y	3.2	210	230	250	5000	800	91	37
1PUA-3.7-D*90-Y	3.7	210	230	250	4500	800	93	38
1PUA-4.2-D*90-Y	4.2	210	230	250	4000	800	95	39
1PUA-4.8-D*90-Y	4.8	190	210	230	3500	600	97	40
1PUA-5.8-D*90-Y	5.8	190	210	230	3000	600	101	42
1PUA-7.0-D*90-Y	7.0	160	180	200	2500	600	105	44
1PUA-8.0-D*90-Y	8.0	160	180	200	2100	600	109	46

1PULA系列

1PULA Series

高低压多联泵

1PULA高低压液压齿轮泵适合应用于系统液压驱动器在低负载时能快速前进或返回,而当液压驱动器在高负载时能低速运动的液压系统,特别是该结构具有对电机功率要求低的优势。

1PULA高低压齿轮泵是一款带特殊集成阀的双联齿轮泵(见如下图表),它广泛应用于垃圾压缩机、劈木机、卡紧机械、折边机和金属成形机等。

HIGH-LOW MULTIPLE PUMPS

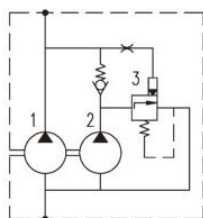
1PULA High-Low hydraulic gear pumps is the very ideal pump for applications which require a quick approach and/or return of the actuator at low loads and slow motion of the actuator at high loads. In particular this model offers the advantage of requiring lower power of the motor.

1PULA High-Low hydraulic gear pumps is a special double stage pump with special integrated valves (as shown in the hydraulic diagram) has been specially designed for applications such as trash compactors, log splitters, clamping mechanisms, crimping machines, metal forming machines etc.

技术特征

Technica features

前泵小排量高压 First stage Low displacement high pressure	排量从1.1cm ³ /rev到3.2cm ³ /rev-P1=230 bar From 1.1cm ³ /rev to 3.2cm ³ /rev-P1=230 bar
后泵大排量低压 Second stage High displacement low pressure	排量从3.7cm ³ /rev到9.8cm ³ /rev-(压力由卸荷阀设定) From 3.7cm ³ /rev to 9.8cm ³ /rev-(Pressure set by unloading valve)
卸荷阀 Unloading valve	标准设定压力 35 bar Standard setting 35 bar
转速范围 RPM pump range	从1000转到3500转 From 1000 rpm to 3500 rpm
前盖和轴伸 Flanges and shafts	见1PUA目录 Ref. 1PUA catalogue
油口 Ports	侧进侧出, 油口代号为L5 Common inlet. Common outlet. Side ports code L5



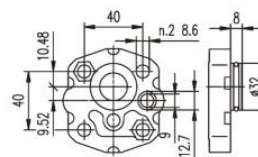
1. First stage high pressure
2. Second stage low pressure
3. Unloading valve

1PUA系列

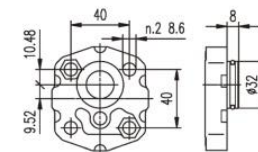
1PUA Series

前盖/FRONT COVER

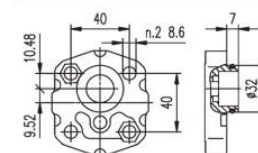
轴伸/SHAFTS



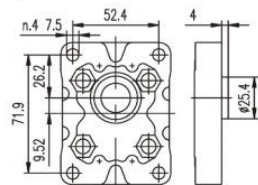
Q0



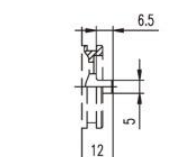
Q1



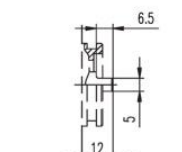
Q2



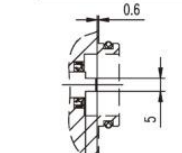
B0



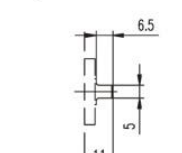
G0

最大扭矩
Max.Torque 20 Nm

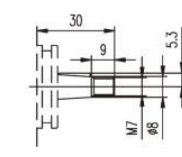
G0

最大扭矩
Max.Torque 20 Nm

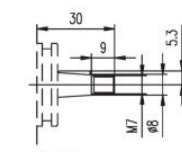
G1

最大扭矩
Max.Torque 20 Nm

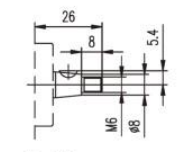
G0

最大扭矩
Max.Torque 20 Nm

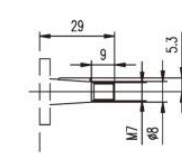
T0

最大扭矩
Max.Torque 25 Nm

T0

最大扭矩
Max.Torque 25 Nm

T1

最大扭矩
Max.Torque 23 Nm

T0

最大扭矩
Max.Torque 25 Nm

1PUA系列

1PUA Series

油口/PORTS



L0

规格 TYPE	进油口 INLET	出油口 OUTLET
1PUA...0.8 ÷ 1PUA...8.0	A G1/4	a ø9



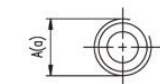
L1

规格 TYPE	进油口 INLET	出油口 OUTLET
1PUA...0.8 ÷ 1PUA...8.0	A G3/8	a ø9



N0

规格 TYPE	进油口 INLET	出油口 OUTLET
1PUA...0.8 ÷ 1PUA...8.0	A 3/8 NPT	a ø9



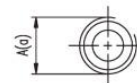
L2

规格 TYPE	进油口 INLET	出油口 OUTLET
1PUA...0.8 ÷ 1PUA...8.0	A G3/8	a G1/4

1PUA系列

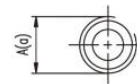
1PUA Series

油口/PORTS



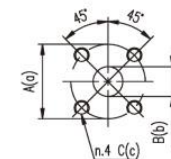
L3

规格 TYPE	进油口 INLET	出油口 OUTLET
1PUA...0.8 ÷ 1PUA...8.0	A G3/8	a G3/8



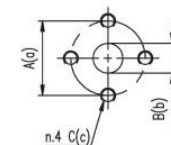
Z0

规格 TYPE	进油口 INLET	出油口 OUTLET
1PUA...0.8 ÷ 1PUA...8.0	A M18x1.5	a M14x1.5



F0

规格 TYPE	进油口 INLET			出油口 OUTLET		
	A	B	C	a	b	c
1PUA...0.8 ÷ 1PUA...8.0	30	12	M6	30	12	M6



E0

规格 TYPE	进油口 INLET			出油口 OUTLET		
	A	B	C	a	b	c
1PUA...0.8 ÷ 1PUA...8.0	30	12	M6	30	12	M6

1PLA[1MHA]系列

1PLA[1MHA] Series

如何订购 How to order

1	P	LA/HA	规格 Size	旋向 Rotation	轴伸 Shaft	前盖 Front cover	油口 Ports	油口位置 Ports position	油封 Seals	可选项 Options
组别 Group	P-齿轮泵 Pump M-齿轮马达 Motor	系列号 Series LA-前、后盖 材料为铝合金 LA-Front and end cover material aluminum HA-前、后盖材料 为铸铁, 压力比HA 系列高 30bar. BH-Front and end cover material cast iron, pressure than BA series high 30 bar.	1.4 2.1 2.8 3.5 4.1 5.2 6.2 7.6 9.3 11.0 13.8	D 顺时针转 Clockwise S 逆时针转 Counter clockwise R 可正反转 Reversible		B0 A0 Q0				可选项 / Options 排油管 / Drain Q0-内部排油 / internal drain Q1-外部排油 / external drain G1/4 Q2-外部排油 / external drain 7/16-20 UNF Q3-外部排油 / external drain 9/16-18 UNF

油口位置

省略-侧进侧出
A-前进前出
B-后进前出
C-后进侧出
D-侧进前出
R-后进后出

Ports position

Omit-Side inlet and side outlet
A-Front inlet and front outlet
B-Back inlet and front outlet
C-Back inlet and side outlet
D-Side inlet and front outlet
R-Back inlet and back outlet

油封

省略-温度范围在-10°C~+80°C, 进油口最高绝对压力为3bar.
V-适用于高温介质, 温度范围在-10°C~+120°C.
H-适用于低温介质, 温度范围在-40°C~+80°C.
T-适用于进油口最大绝对压力3~6bar.
N-适用于进油口最大绝对压力3~10bar.

Seals

Omit-Range between -10°C and +80°C, inlet pressure up to max. 3 bar absolute.
V-Version suitable for fluid at hi-temperatures, range between -10°C and +120°C.
H-Version suitable for fluid at low-temperatures, range between -40°C and +80°C.
T-Version suitable for inlet pressure up to max. 3 and 6 bar absolute.
N-Version suitable for inlet pressure up to max. 3 and 10 bar absolute.

范例/ Examples

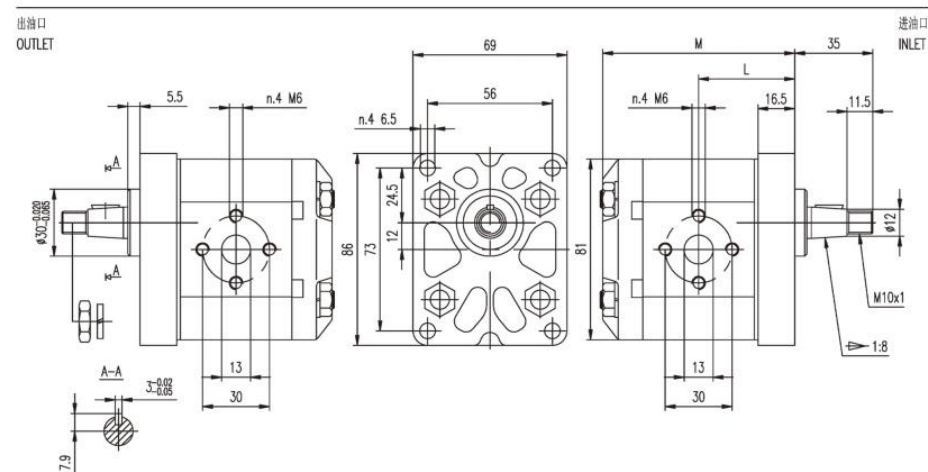
1PLA-1.4-D-T0-B0-E0 = 顺时针转, 排量 1.4 cc/rev, B0 前盖, T0 1:8锥形轴伸, E0 安装油口, 标准油封
clockwise rotation, 1.4 cc/rev, B0 front cover, 1:8 tapered shaft(T0), setting ports E0 type, standard seals
1PLA-1.4-D-A0-C0-R0 = 顺时针转, 排量 1.4 cc/rev, A0 前盖, C0 圆柱轴伸, R0 安装油口, 标准油封
clockwise rotation, 1.4 cc/rev, A0 front cover, C0 parallel shaft, setting ports R0 type, standard seals
1PLA-1.4-D-C2-Q0-U0-N = 顺时针转, 排量 1.4 cc/rev, Q0 前盖, C2 圆柱轴伸, U0 安装油口, 高压油封(N)
clockwise rotation, 1.4 cc/rev, Q0 front cover, C2 parallel shaft, setting ports U0 type, high pressure seals(N)

1PLA*B0系列

1PLA*B0 Series

M6 螺纹深 13.
安装泵时, n.4 M8 螺钉扭矩设定为
27±3 Nm.
轴伸 M10 螺母扭矩设定为 40 Nm.

M6 thread depth 13.
To mount the pump, n.4 M8 screws,
with a torque wrench setting fixed
at 27±3 Nm.
Shaft M10 nut, with a torque wrench
setting fixed at 40 Nm.



主要技术参数 Main Specification

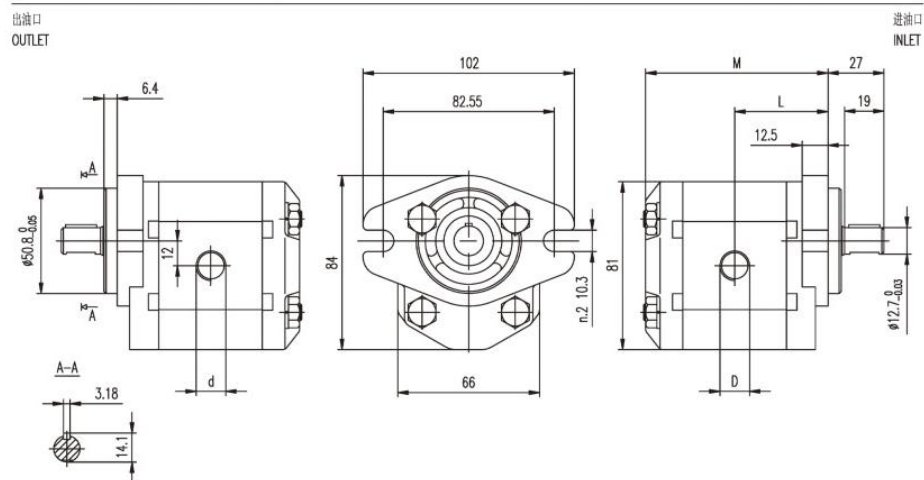
规格 Type	排量 Displacement	最大压力 Max pressure			最高转速 Max. speed	最低转速 Min. speed	尺寸 Dimensions	
	(cm³/rev)	P1	P2	P3	(r/min)	(r/min)	M	L
		bar	bar	bar			mm	mm
1PLA-1.4-D*B0	1.4	250	270	290	6000	800	80.5	40
1PLA-2.1-D*B0	2.1	250	270	290	6000	800	82.5	41
1PLA-2.8-D*B0	2.8	250	270	290	5000	800	84.5	42
1PLA-3.5-D*B0	3.5	250	270	290	5000	800	86.5	43
1PLA-4.1-D*B0	4.1	250	270	290	4000	800	88.5	44
1PLA-5.2-D*B0	5.2	230	245	260	4000	800	91.5	45.5
1PLA-6.2-D*B0	6.2	230	245	260	3800	800	94.5	47
1PLA-7.6-D*B0	7.6	200	215	230	3200	600	98.5	49
1PLA-9.3-D*B0	9.3	180	195	210	2600	600	103.5	51.5
1PLA-11.0-D*B0	11.0	170	185	200	2200	600	108.5	54
1PLA-13.8-D*B0	13.8	150	165	180	1800	600	116.5	58

1PLA*A2系列

1PLA*A2 Series

"D"和"d"油口有螺纹加工, 用O形圈密封, 旁侧削平的SAE J1926/1 (ISO J1926-1)。
安装泵时, n.4 M8 螺钉扭矩设定为 27 ± 3 Nm.

"D" and "d" ports are machined in compliance with threaded port with O-ring seal in truncated housing SAE J1926/1 (ISO J1926-1).
To mount the pump, n.4 M8 screws, with a torque wrench setting fixed at 27 ± 3 Nm.



主要技术参数 Main Specification

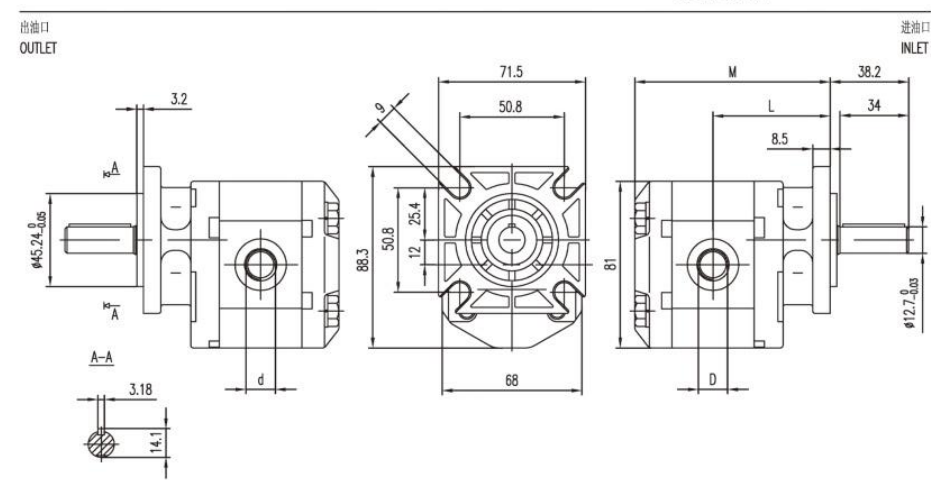
规格 Type	排量 Displacement	最大压力 Max pressure			最高转速 Max. speed	最低转速 Min. speed	尺寸 Dimensions			
		P1	P2	P3			M	L	D	d
	(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm		
1PLA-1.4-D*AO	1.4	250	270	290	6000	800	82.5	42	PT1/2	PT3/8
1PLA-2.1-D*AO	2.1	250	270	290	6000	800	84.5	43	PT1/2	PT3/8
1PLA-2.8-D*AO	2.8	250	270	290	5000	800	86.5	44	PT1/2	PT3/8
1PLA-3.5-D*AO	3.5	250	270	290	5000	800	88.5	45	PT1/2	PT3/8
1PLA-4.1-D*AO	4.1	250	270	290	4000	800	90.5	46	PT1/2	PT3/8
1PLA-5.2-D*AO	5.2	230	245	260	4000	800	93.5	47.5	PT1/2	PT3/8
1PLA-6.2-D*AO	6.2	230	245	260	3500	800	96.5	49	PT1/2	PT3/8
1PLA-7.6-D*AO	7.6	200	215	230	3000	600	100.5	51	PT3/4	PT1/2
1PLA-9.3-D*AO	9.3	180	195	210	2500	600	105.5	53.5	PT3/4	PT1/2
1PLA-11.0-D*AO	11.0	170	185	200	2500	600	110.5	56	PT3/4	PT1/2
1PLA-13.8-D*AO	13.8	150	165	180	2000	600	118.5	60	PT3/4	PT1/2

1PLA*Q0系列

1PLA*Q0 Series

"D"和"d"油口有螺纹加工, 用O形圈密封, 旁侧削平的SAE J1926/1 (ISO J1926-1)。
安装泵时, n.4 M8 螺钉扭矩设定为 27 ± 3 Nm.

"D" and "d" ports are machined in compliance with threaded port with O-ring seal in truncated housing SAE J1926/1 (ISO J1926-1).
To mount the pump, n.4 M8 screws, with a torque wrench setting fixed at 27 ± 3 Nm.



主要技术参数 Main Specification

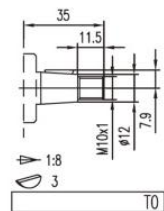
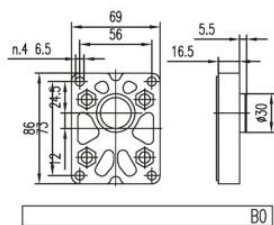
规格 Type	排量 Displacement	最大压力 Max pressure			最高转速 Max. speed	最低转速 Min. speed	尺寸 Dimensions			
		P1	P2	P3			M	L	D	d
	(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm		
1PLA-1.4-D*Q0	1.4	250	270	290	6000	800	98	59	3/4-16UNF	9/16-18UNF
1PLA-2.1-D*Q0	2.1	250	270	290	6000	800	100	60	3/4-16UNF	9/16-18UNF
1PLA-2.8-D*Q0	2.8	250	270	290	5000	800	102	61	3/4-16UNF	9/16-18UNF
1PLA-3.5-D*Q0	3.5	250	270	290	5000	800	104	62	3/4-16UNF	9/16-18UNF
1PLA-4.1-D*Q0	4.1	250	270	290	4000	800	106	63	3/4-16UNF	9/16-18UNF
1PLA-5.2-D*Q0	5.2	230	245	260	4000	800	109	64.5	3/4-16UNF	9/16-18UNF
1PLA-6.2-D*Q0	6.2	230	245	260	3500	800	112	66	3/4-16UNF	9/16-18UNF
1PLA-7.6-D*Q0	7.6	200	215	230	3000	600	116	68	7/8-14UNF	3/4-16UNF
1PLA-9.3-D*Q0	9.3	180	195	210	2500	600	121	70.5	7/8-14UNF	3/4-16UNF
1PLA-11.0-D*Q0	11.0	170	185	200	2500	600	126	73	7/8-14UNF	3/4-16UNF
1PLA-13.8-D*Q0	13.8	150	165	180	2000	600	134	77	7/8-14UNF	3/4-16UNF

1PLA[1PHA]系列

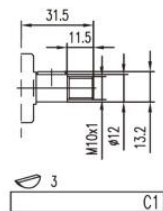
1PLA[1PHA] Series

前盖/Front cover

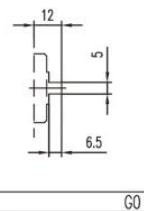
轴伸/SHAFTS



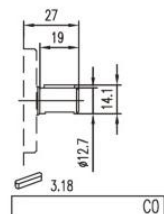
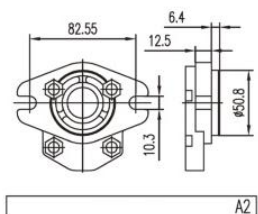
最大扭矩	100 Nm
Max.Torque	



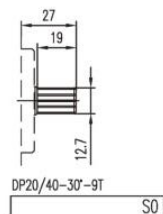
最大扭矩 Max.Torque	55 Nm
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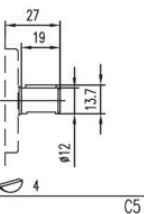
最大扭矩 Max.Torque	45 Nm
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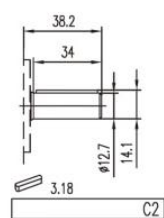
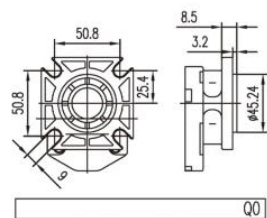
最大扭矩	60 Nm
Max.Torque	



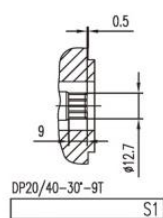
最大扭矩	100 Nm
Max.Torque	



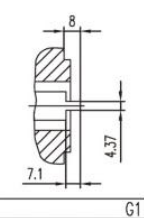
最大扭矩	70 Nm
Max.Torque	



最大扭矩 Max.Torque	100 Nm
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最大扭矩 Max.Torque	95 Nm
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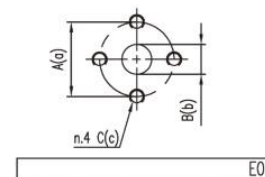


最大扭矩	45 Nm
Max.Torque	

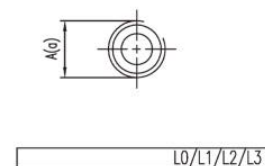
1PLA[1PHA]系列

1PLA[1PHA] Series

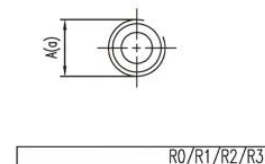
油口/PORTS



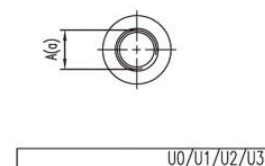
规格 TYPE	进口口 INLET			出口口 OUTLET		
	A	B	C	a	b	c
1PLA...1.4 ÷ 1PLA...13.8	30	13	M6	30	13	M6



规格 TYPE	油口代号 PORTS CODE	进油口 INLET	出油口 OUTLET
		A	a
1PIA...1.4 ÷ 1PIA...3.5	L0	G1/2	G3/8
1PIA...4.1 ÷ 1PIA...13.8	L1	G1/2	G1/2
1PIA...1.4 ÷ 1PIA...3.5	L2	G3/8	G3/8
1PIA...4.1 ÷ 1PIA...13.8	L3	G3/4	G1/2



规格 TYPE	油口代号 PORTS CODE	进油口 INLET	出油口 OUTLET
		A	a
1PLA...1.4 ÷ 1PLA...6.2	R0	PT1/2	PT3/8
1PLA...7.6 ÷ 1PLA...13.8	R1	PT3/4	PT1/2
1PLA...1.4 ÷ 1PLA...13.8	R2	PT1/2	PT1/2
1PLA...1.4 ÷ 1PLA...6.2	R3	PT3/8	PT3/8



规格 TYPE	油口代号 PORTS CODE	进油口 INLET	出油口 OUTLET
		A	a
1PLA...1.4 ÷ 1PLA...6.2	U0	3/4-16UNF	9/16-18UNF
1PLA...7.6 ÷ 1PLA...13.8	U1	7/8-14UNF	3/4-16UNF
1MHA...1.4 ÷ 1MHA...6.2	U2	3/4-16UNF	3/4-16UNF
1MHA...7.6 ÷ 1MHA...13.8	U3	7/8-14UNF	7/8-14UNF

1.5PLA SERIES

1.5PLA 系列 >



1.5PLA系列

1.5PLA Series

如何订购 How to order

1.5	P	LA	规格 Size	旋向 Rotation	轴伸 Shaft	前盖 Front cover	油口 Ports	油口位置 Ports position	油封 Seals	可选项 Options
组别 Group	P-齿轮泵 Pump	系列号 Series	2 3 4 5 6 8 9 11 12	D 顺时针 Clockwise S 逆时针 Counter clockwise R 可正反转 Reversible		Q0				

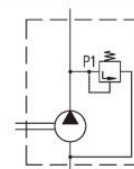
油封

Seals

省略-温度范围在-10°C~+80°C, 进油口最高绝对压力为3bar。
V-适用于高温介质, 温度范围在-10°C~+120°C。
H-适用于低温介质, 温度范围在-40°C~+80°C。
T-适用于进油口最大绝对压力~6bar。
N-适用于进油口最大绝对压力3~10bar。

Omit-Range between -10°C and +80°C, inlet pressure up to max. 3 bar absolute.
V-Version suitable for fluid at hi-temperatures, range between -10°C and +120°C.
H-Version suitable for fluid at low-temperatures, range between -40°C and +80°C.
T-Version suitable for inlet pressure up to max. 3 and 6 bar absolute.
N-Version suitable for inlet pressure up to max. 3 and 10 bar absolute.

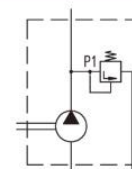
可选项/Options



溢流阀。
卸压流量回到吸油口。
控制压力 P1=5...250bar。
Pressure relief valve.
Discharge returned to suction.
P1= 5...250 bar.

订货号/Ordering code

Y 180xx



溢流阀。
卸压流量外泄。
控制压力 P1=5...250bar。
Pressure relief valve.
Discharge returned to externally.
P1= 5...250 bar.

P 120xx

范例/ Examples

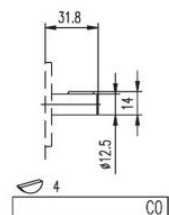
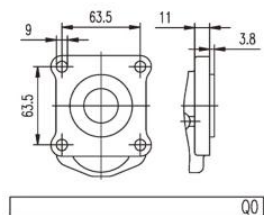
1.5PLA-2-D-C0-Q0-E0 = 顺时针, 排量 2 cc/rev, Q0 前盖, C0 圆柱轴伸, E0 安装油口, 标准油封
clockwise rotation, 2 cc/rev, Q0 front cover, C0 parallel shaft, setting ports E0 type, standard seals
1.5PLA-2-D-C0-Q0-E0-N= 顺时针, 排量 2 cc/rev, Q0 前盖, C0 圆柱轴伸, E0 安装油口, 高压油封(N)
clockwise rotation, 2 cc/rev, Q0 front cover, C0 parallel shaft, setting ports E0 type, high pressure seals(N)

1.5PLA系列

1.5PLA Series

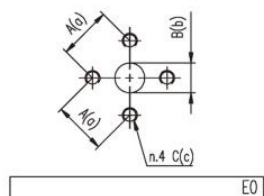
前盖/FRONT COVER

轴伸/SHAFTS



最大扭矩
Max.Torque 60 Nm

油口/PORTS



规格 TYPE	进油口 INLET			出油口 OUTLET		
	A	B	C	a	b	c
1.5PLA...2 ÷ 1.5PLA...12	25.2	14.5	M6	25.2	14.5	M6

KYDAC

2PLA SERIES

2PLA 系列 >



2PLA[2MHA]系列

2PLA[2MHA] Series

如何订购 How to order

2	P	LA/HA	规格 Size	转向 Rotation	轴伸 Shaft	前盖 Front cover	油口 Ports	油口位置 Ports position	油封 Seals	可选项 Options
组别 Group	P-齿轮泵 Motor	系列号 Series	3 4 6 8 10 12 14 16 18 20 22 25 28 30	D 顺时针 Clockwise S 逆时针 Counter clockwise R 可正反转 Reversible		A0 B0 B1 B2 Q0 Q1 Q2		油口位置 / Ports position		
		LA-前、后盖 材料为铝合金 LA-Front and end cover material aluminum						省略-侧进侧出 B-后进前出 C-后进侧出 D-侧进前出 R-后进后出		
		HA-前、后盖材料 为铸钢, 压力比"LA" 系列高 30bar. HA-Front and end cover material cast iron, pressure than "BA" series high 30 bar.						排油管 / Drain		
								Q0-内部排油 / internal drain Q1-外部排油 / external drain G1/4 Q2-外部排油 / external drain 9/16-18 UNF Q3-外部排油 / external drain 7/16-20 UNF Q4-外部排油 / external drain M12x1.5		

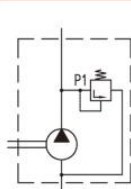
油封

省略-温度范围在-10°C~+80°C, 进出口最高绝对压力为3bar.
V-适用于高温介质, 温度范围在-10°C~+120°C.
H-适用于低温介质, 温度范围在-40°C~+80°C.
T-适用于进油口最大绝对压力3~6bar.
N-适用于进油口最大绝对压力3~10bar.

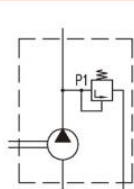
Seals

Omit-Range between -10°C and +80°C, inlet pressure up to max. 3 bar absolute.
V-Version suitable for fluid at hi-temperatures, range between -10°C and +120°C.
H-Version suitable for fluid at low-temperatures, range between -40°C and +80°C.
T-Version suitable for inlet pressure up to max. 3 and 6 bar absolute.
N-Version suitable for inlet pressure up to max. 3 and 10 bar absolute.

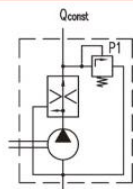
可选项/Options



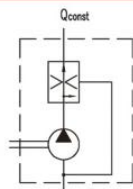
溢流阀。
卸压流量回到吸油口。
控制压力 P1=5...250bar.
Pressure relief valve.
Discharge returned to suction.
P1= 5...250 bar.



溢流阀。
卸压流量外溢。
控制压力 P1=5...250bar.
Pressure relief valve.
Discharge returned to externally.
P1= 5...250 bar.



三通流量阀带安全阀。
剩余流量接泵吸油口。
控制压力 P1=100...180bar.
Pressure relief valve.
控制流量 Qconst=2...30L/min.
3-way flow control valve
with pressure relief valve.
Excess flow returned to suction.
P1= 100...180 bar.
Qconst= 2...30 L/min.



三通流量阀。
剩余流量接泵吸油口。
控制流量 Qconst=2...30L/min.
3-way flow control valve.
Excess flow returned to suction.
Qconst= 2...30 L/min.

订货号/Ordering code

Y 180xx

P 120xx

F 15015

Q xxx15

范例/ Examples

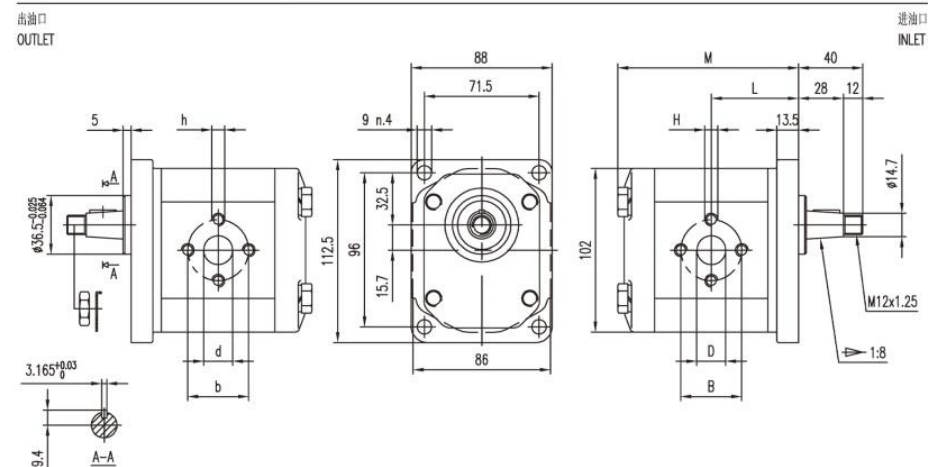
2PHA-3-D-T0-B0-E0 = 顺时针转, 排量 3 cc/rev, B0 前盖, T0 1:8锥形轴伸, E0 安装油口, 标准油封
clockwise rotation, 3 cc/rev, B0 front cover, 1:8 tapered shaft(T0), setting ports E0 type, standard seals
2PLA-3-D-C0-A0-U0 = 顺时针转, 排量 3 cc/rev, A0 前盖, C0 圆柱轴伸, U0 安装油口, 标准油封
clockwise rotation, 3 cc/rev, A0 front cover, C0 parallel shaft, setting ports U0 type, standard seals
2PHA-3-D-T1-Q0-F0-N = 顺时针转, 排量 3 cc/rev, Q0 前盖, T0 1:8锥形轴伸, F0 安装油口, 高压油封(N)
clockwise rotation, 3 cc/rev, Q0 front cover, 1:8 tapered shaft(T0), setting ports F0 type, high pressure seals(N)

2PHA*B0系列

2PHA*B0 Series

M6 螺纹深 13, M8 螺纹深 17.
安装泵时, n.4 M10 螺钉扭矩设定为
70...75 Nm.
轴伸 M12x1.25 螺母扭矩设定为 50 Nm.

M6 thread depth 13, M8 thread depth 17.
To mount the pump, n.4 M10 screws,
with a torque wrench setting fixed
at 70...75 Nm.
Shaft M12x1.25 nut, with a torque
wrench setting fixed at 50 Nm.



主要技术参数 Main Specification

规格 Type	排量 Displacement (cm ³ /rev)	最大压力 Max pressure			最高转速 Max. speed (r/min)	最低转速 Min. speed (r/min)	尺寸 Dimensions							
		P1	P2	P3			M	L	B	D	H	b	d	h
2PHA-3-D*B0	3	270	285	300	4000	800	91.1	43.6	30	13	M6	30	13	M6
2PHA-4-D*B0	4	270	285	300	4000	600	92.7	44.4	30	13	M6	30	13	M6
2PHA-6-D*B0	6	270	285	300	4000	600	96	46	30	13	M6	30	13	M6
2PHA-8-D*B0	8	270	285	300	3500	500	99.3	47.7	30	13	M6	30	13	M6
2PHA-10-D*B0	10	270	285	300	3000	500	102.6	49.3	40	20	M8	30	13	M6
2PHA-12-D*B0	12	270	285	300	3000	500	105.9	51	40	20	M8	30	13	M6
2PHA-14-D*B0	14	250	265	280	4000	500	109.3	52.7	40	20	M8	30	13	M6
2PHA-16-D*B0	16	250	265	280	4000	500	112.7	54.4	40	20	M8	30	13	M6
2PHA-18-D*B0	18	250	265	280	3600	400	116	56	40	20	M8	30	13	M6
2PHA-20-D*B0	20	220	235	250	3200	400	119.3	57.7	40	20	M8	30	13	M6
2PHA-22-D*B0	22	220	235	250	3000	400	122.6	59.3	40	20	M8	30	13	M6
2PHA-25-D*B0	25	200	215	230	3000	400	127.6	61.8	40	22	M8	30	13	M6
2PHA-28-D*B0	28	180	190	200	2500	400	132.6	64.3	40	22	M8	30	13	M6
2PHA-30-D*B0	30	160	170	180	2500	400	135.9	66	40	22	M8	30	13	M6

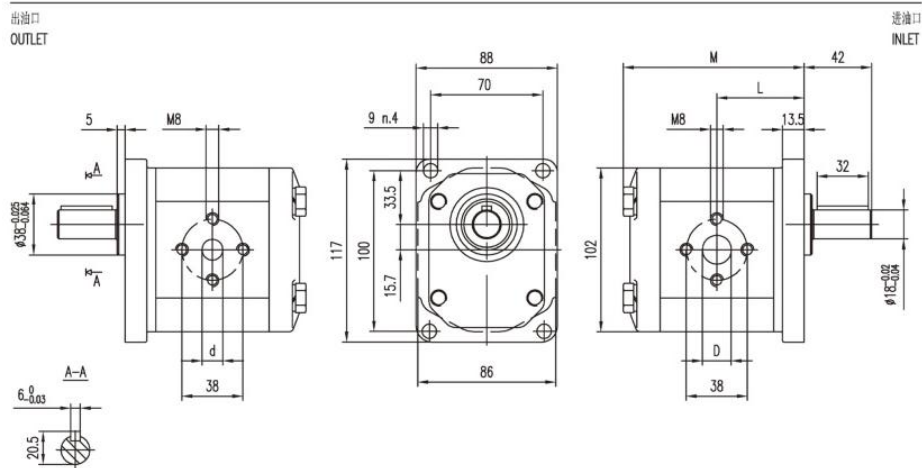
2PHA*B1系列

2PHA*B1 Series

M8 螺纹深 16.

安装泵时, n.4 M10 螺钉扭矩设定为
70...75 Nm.

M8 thread depth 16.

To mount the pump, n.4 M10 screws,
with a torque wrench setting fixed
at 70...75 Nm.

主要技术参数 Main Specification

规格 Type	排量 Displacement	最大压力 Max pressure			最高转速 Max. speed	最低转速 Min. speed	尺寸 Dimensions			
		P1	P2	P3			M	L	D	d
	(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm	mm	mm
2PHA-3-D*B1	3	270	285	300	4000	800	91.1	43.6	14	10
2PHA-4-D*B1	4	270	285	300	4000	600	92.7	44.4	14	10
2PHA-6-D*B1	6	270	285	300	4000	600	96	46	14	10
2PHA-8-D*B1	8	270	285	300	3500	500	99.3	47.7	14	10
2PHA-10-D*B1	10	270	285	300	3000	500	102.6	49.3	18	15
2PHA-12-D*B1	12	270	285	300	3000	500	105.9	51	18	15
2PHA-14-D*B1	14	250	265	280	4000	500	109.3	52.7	18	15
2PHA-16-D*B1	16	250	265	280	4000	500	112.7	54.4	18	15
2PHA-18-D*B1	18	250	265	280	3600	400	116	56	18	15
2PHA-20-D*B1	20	220	235	250	3200	400	119.3	57.7	18	15
2PHA-22-D*B1	22	220	235	250	3000	400	122.6	59.3	18	15
2PHA-25-D*B1	25	200	215	230	3000	400	127.6	61.8	20	15
2PHA-28-D*B1	28	180	190	200	2500	400	132.6	64.3	20	15
2PHA-30-D*B1	30	160	170	180	2500	400	135.9	66	20	15

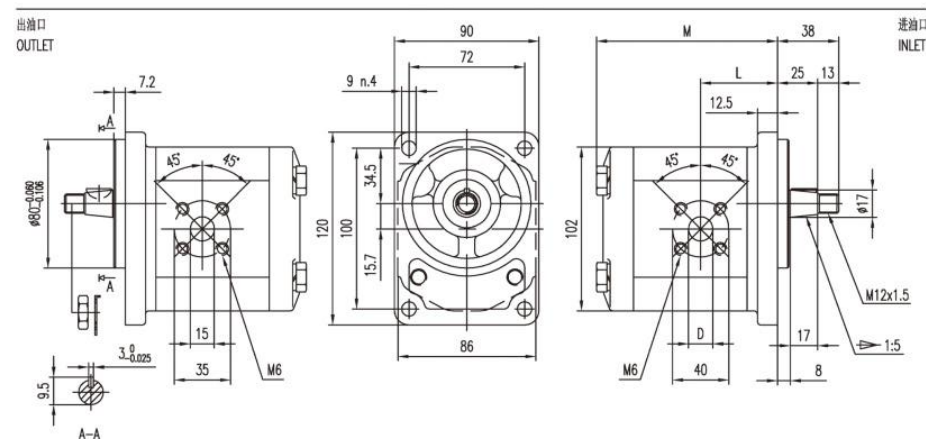
2PHA*B2系列

2PHA*B2 Series

M6 螺纹深 13.

安装泵时, n.4 M10 螺钉扭矩设定为
70...75 Nm.
轴伸 M12x1.5 螺母扭矩设定为 50 Nm.

M6 thread depth 13.

To mount the pump, n.4 M10 screws,
with a torque wrench setting fixed
at 70...75 Nm.
Shaft M12x1.5 nut, with a torque
wrench setting fixed at 50 Nm.

主要技术参数 Main Specification

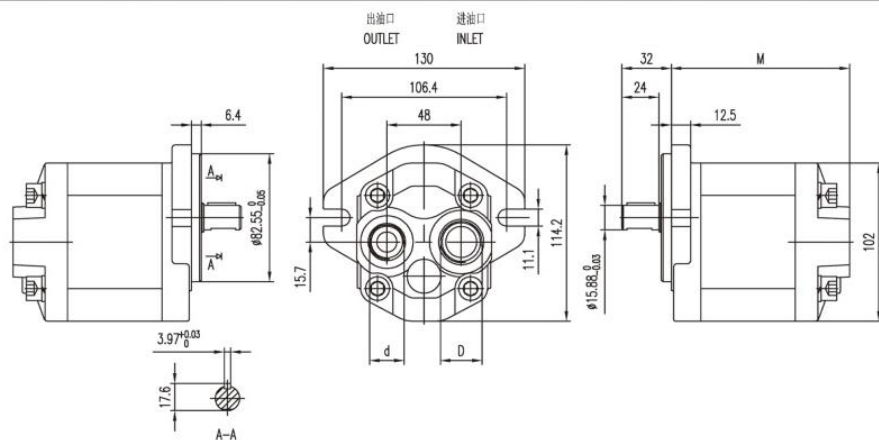
规格 Type	排量 Displacement	最大压力 Max pressure			最高转速 Max. speed	最低转速 Min. speed	尺寸 Dimensions			
		P1	P2	P3			M	L	D	
	(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm	mm	
2PHA-3-D*B2	3	270	285	300	4000	800	91.1	39.9	15	
2PHA-4-D*B2	4	270	285	300	4000	600	92.7	39.9	15	
2PHA-6-D*B2	6	270	285	300	4000	600	96	41.1	15	
2PHA-8-D*B2	8	270	285	300	3500	500	99.3	43.2	15	
2PHA-10-D*B2	10	270	285	300	3000	500	102.6	43.7	20	
2PHA-12-D*B2	12	270	285	300	3000	500	105.9	47.5	20	
2PHA-14-D*B2	14	250	265	280	4000	500	109.3	47.5	20	
2PHA-16-D*B2	16	250	265	280	4000	500	112.7	47.5	20	
2PHA-18-D*B2	18	250	265	280	3600	400	116	47.5	20	
2PHA-20-D*B2	20	220	235	250	3200	400	119.3	47.5	20	
2PHA-22-D*B2	22	220	235	250	3000	400	122.6	55.1	20	
2PHA-25-D*B2	25	200	215	230	3000	400	127.6	61.8	20	
2PHA-28-D*B2	28	180	190	200	2500	400	132.6	64.3	20	
2PHA-30-D*B2	30	160	170	180	2500	400	135.9	66	20	

2PHA*A0-R系列

2PHA*A0-R Series

"D"和"d"油口有螺纹加工, 用O形圈密封, 旁侧削平的SAE J1926/1 (ISO J1926-1)。
安装泵时, n.4 M10 螺钉扭矩设定为 70...75 Nm.

"D" and "d" ports are machined in compliance with threaded port with O-ring seal in truncated housing SAE J1926/1 (ISO J1926-1).
To mount the pump, n.4 M10 screws, with a torque wrench setting fixed at 70...75 Nm.



主要技术参数 Main Specification

规格 Type	排量 Displacement	最大压力 Max pressure			最高转速 Max. speed	最低转速 Min. speed	尺寸 Dimensions		
		P1	P2	P3			M	D	d
	(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	mm		
2PHA-3-D*AO-R	3	270	285	300	4000	800	103.1	1 1/16-12UNF	7/8-14UNF
2PHA-4-D*AO-R	4	270	285	300	4000	600	104.7	1 1/16-12UNF	7/8-14UNF
2PHA-6-D*AO-R	6	270	285	300	4000	600	108	1 1/16-12UNF	7/8-14UNF
2PHA-8-D*AO-R	8	270	285	300	3500	500	111.3	1 1/16-12UNF	7/8-14UNF
2PHA-10-D*AO-R	10	270	285	300	3000	500	114.6	1 1/16-12UNF	7/8-14UNF
2PHA-12-D*AO-R	12	270	285	300	3000	500	117.9	1 1/16-12UNF	7/8-14UNF
2PHA-14-D*AO-R	14	250	265	280	4000	500	121.3	1 1/16-12UNF	7/8-14UNF
2PHA-16-D*AO-R	16	250	265	280	4000	500	124.7	1 1/16-12UNF	7/8-14UNF
2PHA-18-D*AO-R	18	250	265	280	3600	400	128	1 1/16-12UNF	7/8-14UNF
2PHA-20-D*AO-R	20	220	235	250	3200	400	131.3	1 1/16-12UNF	7/8-14UNF
2PHA-22-D*AO-R	22	220	235	250	3000	400	134.6	1 1/16-12UNF	7/8-14UNF
2PHA-25-D*AO-R	25	200	215	230	3000	400	139.6	1 1/16-12UNF	7/8-14UNF
2PHA-28-D*AO-R	28	180	190	200	2500	400	144.6	1 1/16-12UNF	7/8-14UNF
2PHA-30-D*AO-R	30	160	170	180	2500	400	147.9	1 1/16-12UNF	7/8-14UNF

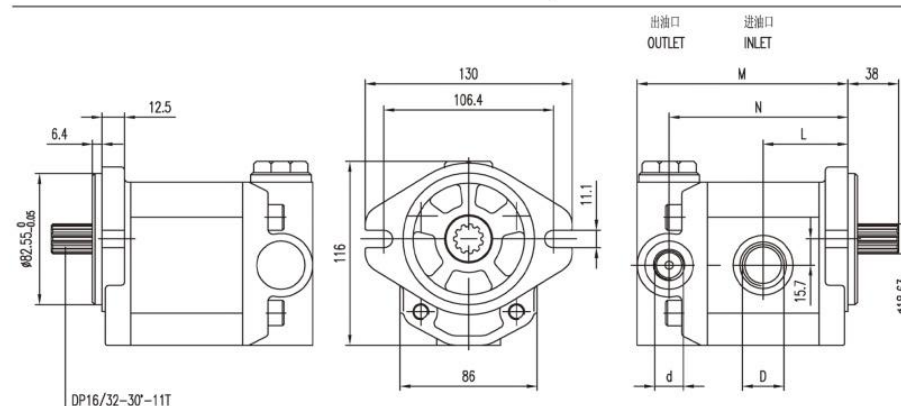
2PHA*A0-Fx系列

2PHA*A0-Fx Series

"D"和"d"油口有螺纹加工, 用O形圈密封, 旁侧削平的SAE J1926/1 (ISO J1926-1)。
安装泵时, n.4 M10 螺钉扭矩设定为 70...75 Nm.



"D" and "d" ports are machined in compliance with threaded port with O-ring seal in truncated housing SAE J1926/1 (ISO J1926-1).
To mount the pump, n.4 M10 screws, with a torque wrench setting fixed at 70...75 Nm.



主要技术参数 Main Specification

规格 Type	排量 Displacement	控制压力 Control pressure	控制流量 Control flow	最高转速 Max. speed	最低转速 Min. speed	尺寸 Dimensions				
						M	L	N	D	d
	(cm ³ /rev)	bar	L/min	(r/min)	(r/min)	mm	mm	mm		
2PHA-3-D*AO-Fx	3	100...180	2...30	4000	800	112.1	43.6	92.1	1 1/16-12UNF	7/8-14UNF
2PHA-4-D*AO-Fx	4			4000	600	113.7	44.4	93.7	1 1/16-12UNF	7/8-14UNF
2PHA-6-D*AO-Fx	6			4000	600	117	46	97	1 1/16-12UNF	7/8-14UNF
2PHA-8-D*AO-Fx	8			3500	500	120.3	47.7	100.3	1 1/16-12UNF	7/8-14UNF
2PHA-10-D*AO-Fx	10			3000	500	123.6	49.3	103.6	1 1/16-12UNF	7/8-14UNF
2PHA-12-D*AO-Fx	12			3000	500	126.9	51	106.9	1 1/16-12UNF	7/8-14UNF
2PHA-14-D*AO-Fx	14			4000	500	130.3	52.7	110.3	1 1/16-12UNF	7/8-14UNF
2PHA-16-D*AO-Fx	16			4000	500	133.7	54.4	113.7	1 1/16-12UNF	7/8-14UNF
2PHA-18-D*AO-Fx	18			3600	400	137	56	117	1 1/16-12UNF	7/8-14UNF
2PHA-20-D*AO-Fx	20			3200	400	140.3	57.7	120.3	1 1/16-12UNF	7/8-14UNF
2PHA-22-D*AO-Fx	22			3000	400	143.6	59.3	123.6	1 1/16-12UNF	7/8-14UNF
2PHA-25-D*AO-Fx	25			3000	400	148.6	61.8	128.6	1 1/16-12UNF	7/8-14UNF
2PHA-28-D*AO-Fx	28			2500	400	153.6	64.3	133.6	1 1/16-12UNF	7/8-14UNF
2PHA-30-D*AO-Fx	30			2500	400	156.9	66	136.9	1 1/16-12UNF	7/8-14UNF

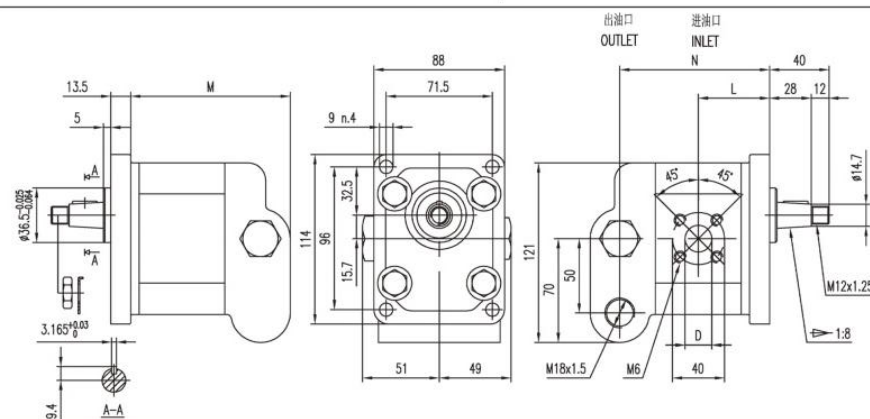
2PHA*B0-FAx系列

2PHA*B0-FAx Series

M6 螺纹深 13, M18x1.5 螺纹深 14.
安装泵时, n.4 M10 螺钉扭矩设定为
70...75 Nm.
轴伸 M12x1.25 螺母扭矩设定为 50Nm.



M6 thread depth 13, M18x1.5 thread depth 14.
To mount the pump, n.4 M10 screws,
with a torque wrench setting fixed
at 70...75 Nm.
Shaft M12x1.25 nut, with a torque
wrench setting fixed at 50 Nm.



主要技术参数 Main Specification

规格 Type	排量 Displacement	控制压力 Control pressure	控制流量 Control flow	最高转速 Max. speed	最低转速 Min. speed	尺寸 Dimensions			
		P1	Q _{const}			M	L	N	D
	(cm ³ /rev)	bar	L/min	(r/min)	(r/min)	mm	mm	mm	mm
2PHA-3-D*B0-FAx	3	100...180	2...30	4000	800	112.1	43.6	96.1	15
2PHA-4-D*B0-FAx	4			4000	600	113.7	44.4	97.7	15
2PHA-6-D*B0-FAx	6			4000	600	117	46	101	15
2PHA-8-D*B0-FAx	8			3500	500	120.3	47.7	104.3	15
2PHA-10-D*B0-FAx	10			3000	500	123.6	49.3	107.6	20
2PHA-12-D*B0-FAx	12			3000	500	126.9	51	110.9	20
2PHA-14-D*B0-FAx	14			4000	500	130.3	52.7	114.3	20
2PHA-16-D*B0-FAx	16			4000	500	133.7	54.4	117.7	20
2PHA-18-D*B0-FAx	18			3600	400	137	56	121	20
2PHA-20-D*B0-FAx	20			3200	400	140.3	57.7	124.3	20
2PHA-22-D*B0-FAx	22			3000	400	143.6	59.3	127.6	20
2PHA-25-D*B0-FAx	25			3000	400	148.6	61.8	132.6	20
2PHA-28-D*B0-FAx	28			2500	400	153.6	64.3	137.6	20
2PHA-30-D*B0-FAx	30			2500	400	156.9	66	140.9	20

2PLA*B3系列

2PLA*B3 Series

带轴承式泵, 能承受
径向和轴向载荷。

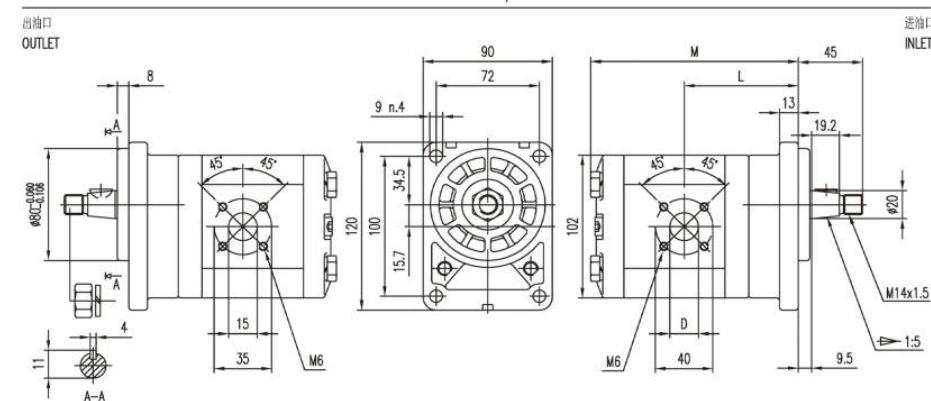
M6 螺纹深 13.

安装泵时, n.4 M10 螺钉扭矩设定为
70...75 Nm.

轴伸 M14x1.5 螺母扭矩设定为 70 Nm.



Pump with bearing. This option allows
radial and/or axial loads on the pump shaft.
M6 thread depth 13.
To mount the pump, n.4 M10 screws,
with a torque wrench setting fixed
at 70...75 Nm.
Shaft M14x1.5 nut, with a torque
wrench setting fixed at 70 Nm.



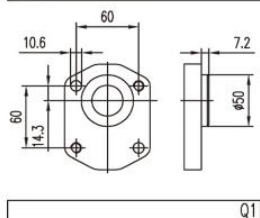
主要技术参数 Main Specification

规格 Type	排量 Displacement	最大压力 Max pressure			最高转速 Max. speed	最低转速 Min. speed	尺寸 Dimensions		
		P1	P2	P3			M	L	D
	(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm	mm
2PHA-3-D*B3	3	270	285	300	4000	800	123.1	71.9	15
2PHA-4-D*B3	4	270	285	300	4000	600	124.7	71.9	15
2PHA-6-D*B3	6	270	285	300	4000	600	128.0	73.1	15
2PHA-8-D*B3	8	270	285	300	3500	500	131.3	75.2	15
2PHA-10-D*B3	10	270	285	300	3000	500	134.6	75.7	20
2PHA-12-D*B3	12	270	285	300	3000	500	137.9	79.5	20
2PHA-14-D*B3	14	250	265	280	4000	500	141.3	79.5	20
2PHA-16-D*B3	16	250	265	280	4000	500	144.7	79.5	20
2PHA-18-D*B3	18	250	265	280	3600	400	148.0	79.5	20
2PHA-20-D*B3	20	220	235	250	3200	400	151.3	79.5	20
2PHA-22-D*B3	22	220	235	250	3000	400	154.6	87.1	20
2PHA-25-D*B3	25	200	215	230	3000	400	159.6	93.8	20
2PHA-28-D*B3	28	180	190	200	2500	400	164.6	96.3	20
2PHA-30-D*B3	30	160	170	180	2500	400	167.9	98.0	20

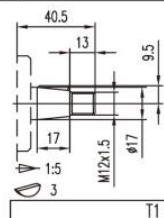
2PLA[2PHA]系列

2PLA[2PHA] Series

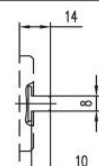
前盖/FRONT COVER



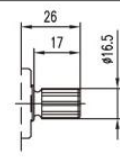
轴伸/SHAFTS



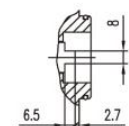
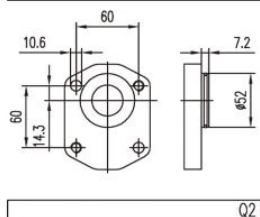
最大扭矩
Max.Torque 180 Nm



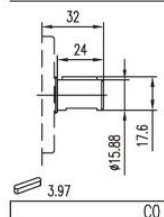
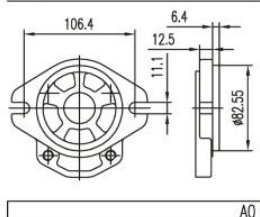
最大扭矩
Max.Torque 100 Nm



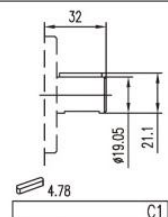
DIN5482 B17X14
最大扭矩
Max.Torque 150 Nm



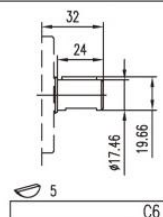
最大扭矩
Max.Torque 100 Nm



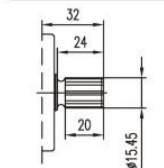
最大扭矩
Max.Torque 140 Nm



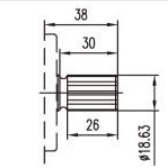
最大扭矩
Max.Torque 160 Nm



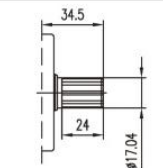
最大扭矩
Max.Torque 180 Nm



DP16/32-30'-9T
最大扭矩
Max.Torque 185 Nm



DP16/32-30'-11T
最大扭矩
Max.Torque 200 Nm

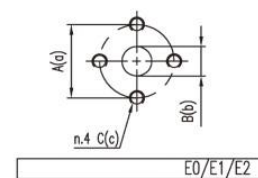


DP16/32-30'-10T
最大扭矩
Max.Torque 190 Nm

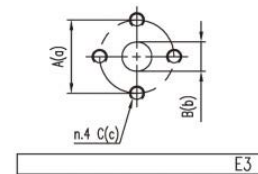
2PLA[2PHA]系列

2PLA[2PHA] Series

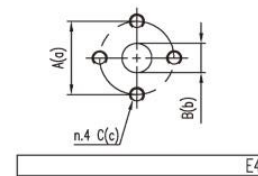
油口/PORTS



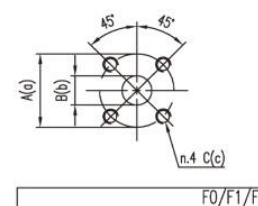
规格 TYPE	油口代号 PORTS CODE	进油口 INLET			出油口 OUTLET		
		A	B	C	a	b	c
2PL(H)A...3 ÷ 2PL(H)A...8	E0	30	13	M6	30	13	M6
2PL(H)A...10 ÷ 2PL(H)A...22	E1	40	20	M8	30	13	M6
2PL(H)A...25 ÷ 2PL(H)A...30	E2	40	22	M8	30	13	M6



规格 TYPE	进油口 INLET			出油口 OUTLET		
	A	B	C	a	b	c
2PL(H)A...3 ÷ 2PL(H)A...8	38	14	M8	38	10	M8
2PL(H)A...10 ÷ 2PL(H)A...22	38	18	M8	38	15	M8
2PL(H)A...25 ÷ 2PL(H)A...30	38	20	M8	38	15	M8



规格 TYPE	进油口 INLET			出油口 OUTLET		
	A	B	C	a	b	c
2PL(H)A...8 ÷ 2PL(H)A...10	40	13	M8	40	13	M8
2PL(H)A...12 ÷ 2PL(H)A...20	40	19	M8	40	13	M8
2PL(H)A...22 ÷ 2PL(H)A...28	40	19	M8	40	19	M8
2PL(H)A...30	40	21	M8	40	19	M8

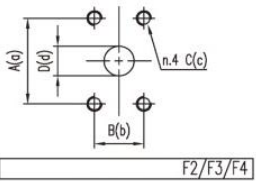


规格 TYPE	油口代号 PORTS CODE	进油口 INLET			出油口 OUTLET		
		A	B	C	a	b	c
2PL(H)A...3 ÷ 2PL(H)A...8	F0	40	15	M6	35	15	M6
2PL(H)A...10 ÷ 2PL(H)A...30	F1	40	20	M6	35	15	M6
2PL(H)A...16 ÷ 2PL(H)A...30	F5	55	26	M8	55	18	M8

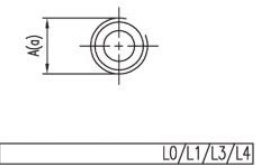
2PLA[2PHA]系列

2PLA[2PHA] Series

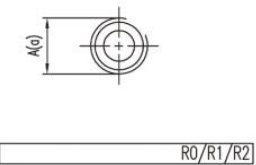
油口/PORTS



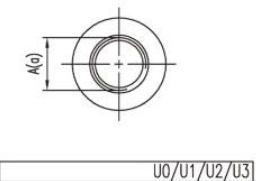
规格 TYPE	油口代号 PORTS CODE	进油口 INLET				出油口 OUTLET			
		A	B	C	D	a	b	c	d
2PL(H)A...3 ÷ 2PL(H)A...16	F2	38.1	17.48	5/16-18UNC	13	38.1	17.48	5/16-18UNC	13
2PL(H)A...18 ÷ 2PL(H)A...20	F3	47.63	22.23	3/8-16UNC	20	38.1	17.48	5/16-18UNC	13
2PL(H)A...22 ÷ 2PL(H)A...30	F4	47.63	22.23	3/8-16UNC	20	47.63	22.23	3/8-16UNC	20



规格 TYPE	油口代号 PORTS CODE	进油口 INLET	出油口 OUTLET
2PL(H)A...3 ÷ 2PL(H)A...6	L0	G1/2	G1/2
2PL(H)A...8 ÷ 2PL(H)A...30	L1	G3/4	G1/2
2PL(H)A...16 ÷ 2PL(H)A...30	L3	G 1	G3/4
2PL(H)A...8 ÷ 2PL(H)A...30	L4	G3/4	G3/4



规格 TYPE	油口代号 PORTS CODE	进油口 INLET	出油口 OUTLET
2PL(H)A...3 ÷ 2PL(H)A...12	R0	PT1/2	PT1/2
2PL(H)A...14 ÷ 2PL(H)A...25	R1	PT3/4	PT1/2
2PL(H)A...28 ÷ 2PL(H)A...30	R2	PT 1	PT3/4



规格 TYPE	油口代号 PORTS CODE	进油口 INLET	出油口 OUTLET
2PL(H)A...3 ÷ 2PL(H)A...28	U0	1 1/16-12 UNF	7/8-14 UNF
2PL(H)A...30	U1	1 5/16-12 UNF	7/8-14 UNF
2PL(H)A...3 ÷ 2PL(H)A...28	U2	7/8-14 UNF	3/4-16 UNF
2PL(H)A...8 ÷ 2PL(H)A...30	U3	1 5/16-12 UNF	1 1/16-12 UNF

KYDAC

2.5PHA SERIES

2.5PHA 系列 >



2.5PHA系列

2.5PHA Series

如何订购 How to order

2.5	P	LA/HA	规格 Size	转向 Rotation	轴伸 Shaft	前盖 Front cover	油口 Ports	油口位置 Ports position	油封 Seals	可选项 Options
组别 Group	P-齿轮泵 Pump	系列号 Series	6 8 10 12 14 16 19	D 顺时针转 Clockwise S 逆时针转 Counter clockwise R 可正反转 Reversible		B0 A1 A2				
		LA-前、后盖材料为铝合金 LA-Front and end cover material aluminum HA-前、后盖材料为铸铁, 压力比"LA"系列高 30bar. HA-Front and end cover material cast iron, pressure than "BA" series high 30 bar.	22 25 28 30 32 36 38 40 44							

油口位置

省略-侧进侧出
A-前进前出
B-后进前出
C-后进侧出
D-侧进前出
R-后进后出

Ports position

Omit-Side inlet and side outlet
A-Front inlet and front outlet
B-Back inlet and front outlet
C-Back inlet and side outlet
D-Side inlet and front outlet
R-Back inlet and back outlet

油封

省略-温度范围在-10°C~+80°C, 进油口最高绝对压力为3bar.
V-适用于高温介质, 温度范围在-10°C~+120°C.
H-适用于低温介质, 温度范围在-40°C~+80°C.
T-适用于进油口最大绝对压力3~6bar.
N-适用于进油口最大绝对压力3~10bar.

Seals

Omit-Range between -10°C and +80°C, inlet pressure up to max. 3 bar absolute.
V-Version suitable for fluid at hi-temperatures, range between -10°C and +120°C.
H-Version suitable for fluid at low-temperatures, range between -40°C and +80°C.
T-Version suitable for inlet pressure up to max. 3 and 6 bar absolute.
N-Version suitable for inlet pressure up to max. 3 and 10 bar absolute.

范例/ Examples

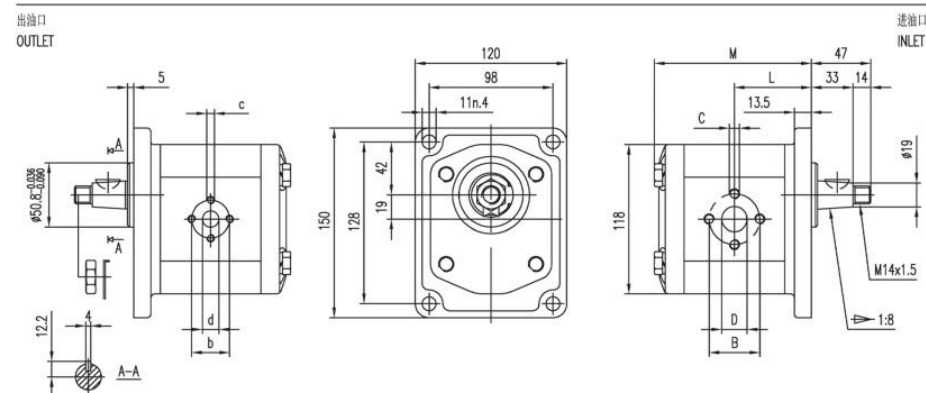
2.5PHA-10-D-T0-B0-E1 = 顺时针转, 排量 10 cc/rev, B0 前盖, T0 1:8锥度轴伸, E1 安装油口, 标准油封
clockwise rotation, 10 cc/rev, B0 front cover, 1:8 tapered shaft(T0), setting ports E1 type, standard seals
2.5PHA-10-D-C1-A1-F0 = 顺时针转, 排量 10 cc/rev, A1 前盖, C1 圆柱轴伸, F0 安装油口, 标准油封
clockwise rotation, 10 cc/rev, A1 front cover, C1 parallel shaft, setting ports F0 type, standard seals
2.5PHA-10-D-S3-A2-U0-N = 顺时针转, 排量 10 cc/rev, A2 前盖, S3 SAE B 13齿轴伸, U0 安装油口, 高压油封(N)
clockwise rotation, 10 cc/rev, A2 front cover, SAE B splined 13T shaft(S3), setting ports U0 type, high pressure seals(N)

2.5PHA*B0系列

2.5PHA*B0 Series

安装泵时, n.4 M12 螺钉扭矩设定为
130...135 Nm.
轴伸 M14x1.5 螺母扭矩设定为 75 Nm.

To mount the pump, n.4 M10 screws,
with a torque wrench setting fixed
at 130...135 Nm.
Shaft M14x1.5 nut, with a torque
wrench setting fixed at 75 Nm.



主要技术参数 Main Specification

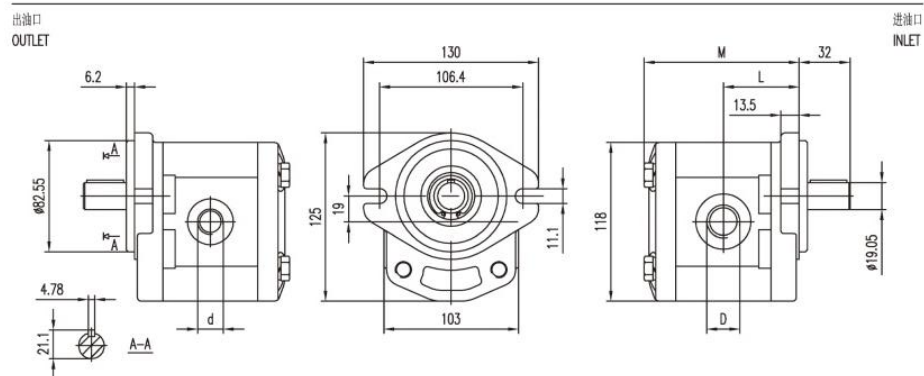
规格 Type	排量 Displacement (cm ³ /rev)	最大压力 Max pressure			最高转速 Max. speed (r/min)	最低转速 Min. speed (r/min)	尺寸 Dimensions							
		P1	P2	P3			M	L	B	D	C	b	d	c
2.5PHA-6-D*B0	6	250	280	300	4000	800	103	49.3	30	13	M6	30	13	M6
2.5PHA-8-D*B0	8	250	280	300	4000	800	105	50.3	30	13	M6	30	13	M6
2.5PHA-10-D*B0	10	250	280	300	4000	700	107	51.3	40	20	M8	30	13	M6
2.5PHA-12-D*B0	12	250	280	300	3500	700	110	52.5	40	20	M8	30	13	M6
2.5PHA-14-D*B0	14	250	280	300	3500	600	111	53.3	40	20	M8	30	13	M6
2.5PHA-16-D*B0	16	250	280	300	3500	600	114	54.5	40	20	M8	30	13	M6
2.5PHA-19-D*B0	19	250	280	300	3000	500	117	56.3	40	20	M8	30	13	M6
2.5PHA-22-D*B0	22	250	280	300	3000	500	121	58.0	51	25	M10	40	18	M8
2.5PHA-25-D*B0	25	250	280	300	3000	500	123	59.3	51	25	M10	40	18	M8
2.5PHA-28-D*B0	28	250	280	300	3000	500	126	60.8	51	25	M10	40	18	M8
2.5PHA-30-D*B0	30	230	250	260	3000	500	129	62.0	51	25	M10	40	18	M8
2.5PHA-32-D*B0	32	230	250	260	3000	400	131	63.3	51	25	M10	40	18	M8
2.5PHA-36-D*B0	36	200	230	250	2750	400	135	65.3	51	25	M10	40	18	M8
2.5PHA-38-D*B0	38	200	230	250	2750	400	137	66.3	51	25	M10	40	18	M8
2.5PHA-40-D*B0	40	170	190	210	2500	400	139	67.3	51	25	M10	40	18	M8
2.5PHA-44-D*B0	44	170	190	210	2500	400	144	69.5	51	25	M10	40	18	M8

2.5PHA*A1系列

2.5PHA*A1 Series

G 1 螺纹深 19,
G 3/4 螺纹深 16,
G 1/2 螺纹深 15,
安装泵时, n.4 M12 螺钉扭矩设定为
130...135 Nm.

G 1 thread depth 19,
G 3/4 thread depth 16,
G 1/2 thread depth 15,
To mount the pump, n.4 M12 screws,
with a torque wrench setting fixed
at 130...135 Nm.



主要技术参数 Main Specification

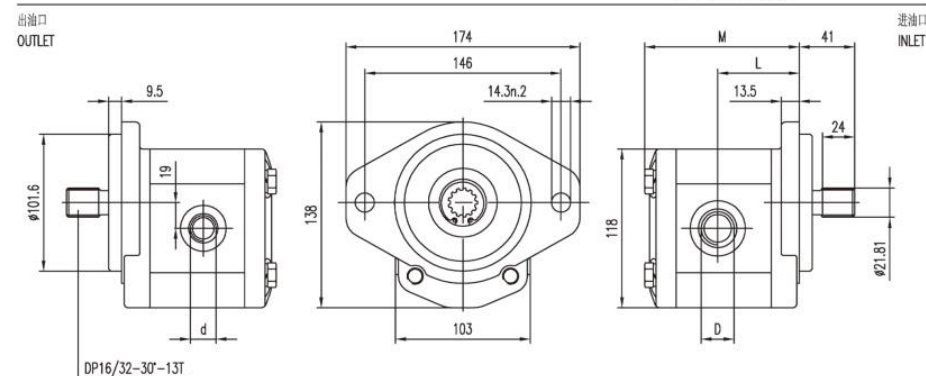
规格 Type	排量 Displacement	最大压力 Max pressure			最高转速 Max. speed	最低转速 Min. speed	尺寸 Dimensions			
		P1	P2	P3			M	L	D	d
	(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm		
2.5PHA-6-D*A1	6	250	280	300	4000	800	103	49.3	G 3/4	G 1/2
2.5PHA-8-D*A1	8	250	280	300	4000	800	105	50.3	G 3/4	G 1/2
2.5PHA-10-D*A1	10	250	280	300	4000	700	107	51.3	G 3/4	G 1/2
2.5PHA-12-D*A1	12	250	280	300	3500	700	110	52.5	G 3/4	G 1/2
2.5PHA-14-D*A1	14	250	280	300	3500	600	111	53.3	G 3/4	G 1/2
2.5PHA-16-D*A1	16	250	280	300	3500	600	114	54.5	G 3/4	G 1/2
2.5PHA-19-D*A1	19	250	280	300	3000	500	117	56.3	G 3/4	G 1/2
2.5PHA-22-D*A1	22	250	280	300	3000	500	121	58.0	G 3/4	G 1/2
2.5PHA-25-D*A1	25	250	280	300	3000	500	123	59.3	G 1	G 3/4
2.5PHA-28-D*A1	28	250	280	300	3000	500	126	60.8	G 1	G 3/4
2.5PHA-30-D*A1	30	230	250	260	3000	500	129	62.0	G 1	G 3/4
2.5PHA-32-D*A1	32	230	250	260	3000	400	131	63.3	G 1	G 3/4
2.5PHA-36-D*A1	36	200	230	250	2750	400	135	65.3	G 1	G 3/4
2.5PHA-38-D*A1	38	200	230	250	2750	400	137	66.3	G 1	G 3/4
2.5PHA-40-D*A1	40	170	190	210	2500	400	139	67.3	G 1	G 3/4
2.5PHA-44-D*A1	44	170	190	210	2500	400	144	69.5	G 1	G 3/4

2.5PHA*A2系列

2.5PHA*A2 Series

"D"和"d"油口有螺纹加工, 用O形圈密封, 旁侧削平的SAE J1926/1 (ISO J1926-1).
安装泵时, n.4 M12 螺钉扭矩设定为
130...135 Nm.

"D" and "d" ports are machined in compliance with threaded port with O-ring seal in truncated housing SAE J1926/1 (ISO J1926-1).
To mount the pump, n.4 M12 screws, with a torque wrench setting fixed at 130...135 Nm.



主要技术参数 Main Specification

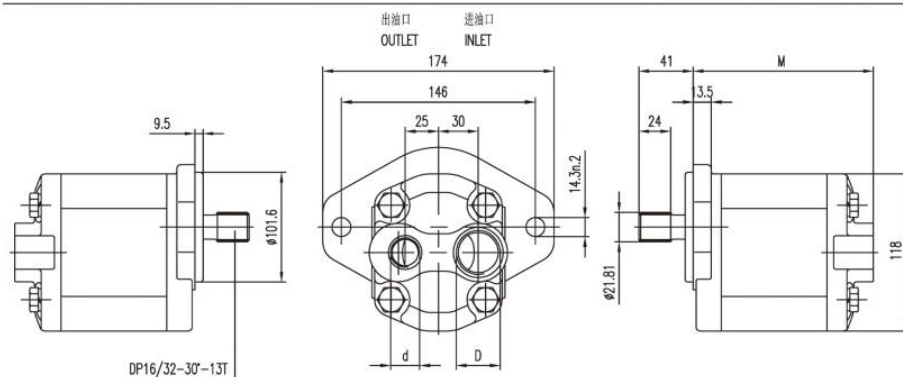
规格 Type	排量 Displacement	最大压力 Max pressure			最高转速 Max. speed	最低转速 Min. speed	尺寸 Dimensions			
		P1	P2	P3			M	L	D	d
	(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm		
2.5PHA-6-D*A2	6	250	280	300	4000	800	103	49.3	1 1/16-12UNF	7/8-14UNF
2.5PHA-8-D*A2	8	250	280	300	4000	800	105	50.3	1 1/16-12UNF	7/8-14UNF
2.5PHA-10-D*A2	10	250	280	300	4000	700	107	51.3	1 1/16-12UNF	7/8-14UNF
2.5PHA-12-D*A2	12	250	280	300	3500	700	110	52.5	1 1/16-12UNF	7/8-14UNF
2.5PHA-14-D*A2	14	250	280	300	3500	600	111	53.3	1 1/16-12UNF	7/8-14UNF
2.5PHA-16-D*A2	16	250	280	300	3500	600	114	54.5	1 1/16-12UNF	7/8-14UNF
2.5PHA-19-D*A2	19	250	280	300	3000	500	117	56.3	1 1/16-12UNF	7/8-14UNF
2.5PHA-22-D*A2	22	250	280	300	3000	500	121	58.0	1 1/16-12UNF	7/8-14UNF
2.5PHA-25-D*A2	25	250	280	300	3000	500	123	59.3	1 5/16-12UNF	1 1/16-12UNF
2.5PHA-28-D*A2	28	250	280	300	3000	500	126	60.8	1 5/16-12UNF	1 1/16-12UNF
2.5PHA-30-D*A2	30	230	250	260	3000	500	129	62.0	1 5/16-12UNF	1 1/16-12UNF
2.5PHA-32-D*A2	32	230	250	260	3000	400	131	63.3	1 5/16-12UNF	1 1/16-12UNF
2.5PHA-36-D*A2	36	200	230	250	2750	400	135	65.3	1 5/16-12UNF	1 1/16-12UNF
2.5PHA-38-D*A2	38	200	230	250	2750	400	137	66.3	1 5/16-12UNF	1 1/16-12UNF
2.5PHA-40-D*A2	40	170	190	210	2500	400	139	67.3	1 5/16-12UNF	1 1/16-12UNF
2.5PHA-44-D*A2	44	170	190	210	2500	400	144	69.5	1 5/16-12UNF	1 1/16-12UNF

2.5PHA*A2-R系列

2.5PHA*A2-R Series

"D"和"d"油口有螺纹加工, 用O形圈密封, 旁侧削平的SAE J1926/1 (ISO J1926-1)。
安装泵时, n.4 M12 螺钉扭矩设定为 130...135 Nm.

"D" and "d" ports are machined in compliance with threaded port with O-ring seal in truncated housing SAE J1926/1 (ISO J1926-1).
To mount the pump, n.4 M12 screws, with a torque wrench setting fixed at 130...135 Nm.



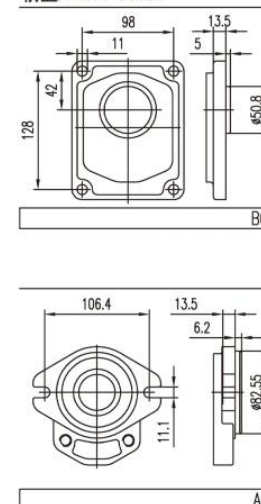
主要技术参数 Main Specification

规格 Type	排量 Displacement	最大压力 Max pressure			最高转速 Max. speed	最低转速 Min. speed	尺寸 Dimensions		
		P1	P2	P3			M	D	d
	(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	mm		
2.5PHA-6-D*A2-R	6	250	280	300	4000	800	118	1 1/16-12UNF	7/8-14UNF
2.5PHA-8-D*A2-R	8	250	280	300	4000	800	120	1 1/16-12UNF	7/8-14UNF
2.5PHA-10-D*A2-R	10	250	280	300	4000	700	122	1 1/16-12UNF	7/8-14UNF
2.5PHA-12-D*A2-R	12	250	280	300	3500	700	125	1 1/16-12UNF	7/8-14UNF
2.5PHA-14-D*A2-R	14	250	280	300	3500	600	126	1 1/16-12UNF	7/8-14UNF
2.5PHA-16-D*A2-R	16	250	280	300	3500	600	129	1 1/16-12UNF	7/8-14UNF
2.5PHA-19-D*A2-R	19	250	280	300	3000	500	132	1 1/16-12UNF	7/8-14UNF
2.5PHA-22-D*A2-R	22	250	280	300	3000	500	136	1 1/16-12UNF	7/8-14UNF
2.5PHA-25-D*A2-R	25	250	280	300	3000	500	138	1 1/16-12UNF	7/8-14UNF
2.5PHA-28-D*A2-R	28	250	280	300	3000	500	141	1 1/16-12UNF	7/8-14UNF
2.5PHA-30-D*A2-R	30	230	250	260	3000	500	144	1 1/16-12UNF	7/8-14UNF
2.5PHA-32-D*A2-R	32	230	250	260	3000	400	146	1 1/16-12UNF	7/8-14UNF
2.5PHA-36-D*A2-R	36	200	230	250	2750	400	150	1 1/16-12UNF	7/8-14UNF
2.5PHA-38-D*A2-R	38	200	230	250	2750	400	152	1 1/16-12UNF	7/8-14UNF
2.5PHA-40-D*A2-R	40	170	190	210	2500	400	154	1 1/16-12UNF	7/8-14UNF
2.5PHA-44-D*A2-R	44	170	190	210	2500	400	159	1 1/16-12UNF	7/8-14UNF

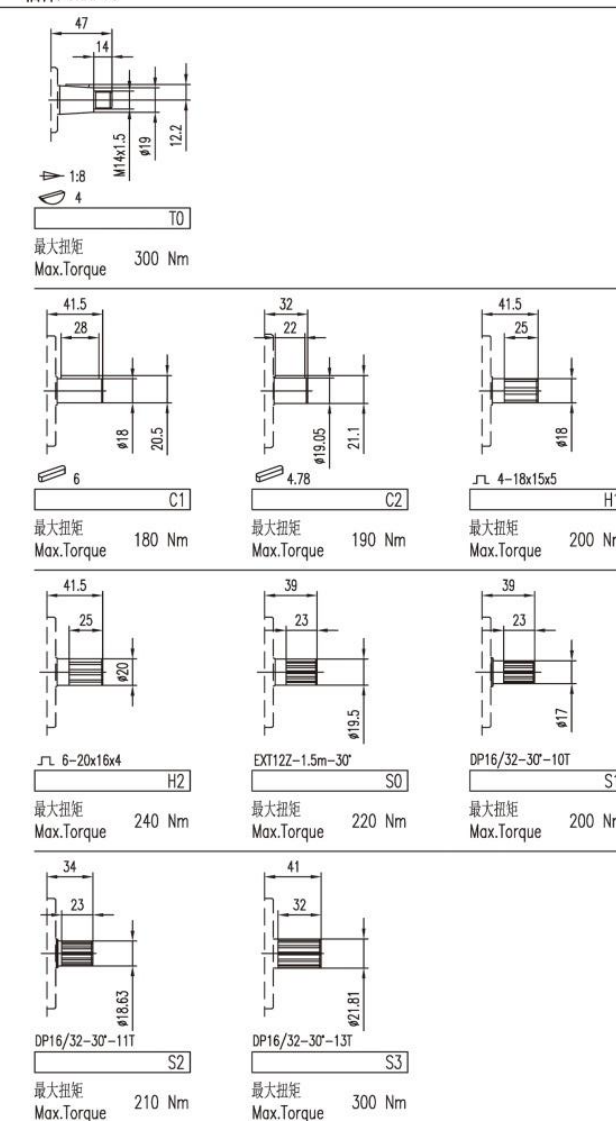
2.5PHA系列

2.5PHA Series

前盖/FRONT COVER

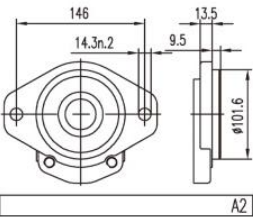


轴伸/SHAFTS

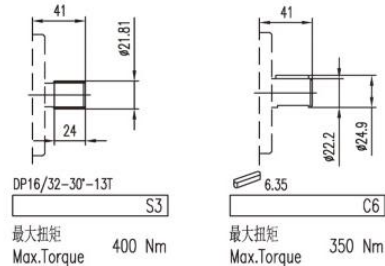


2.5PHA系列
2.5PHA Series

前盖/FRONT COVER

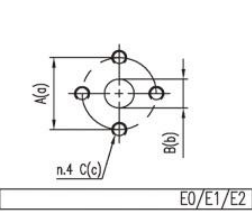


轴伸/SHAFTS

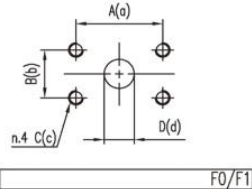


2.5PHA系列
2.5PHA Series

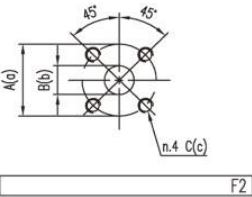
油口/PORTS



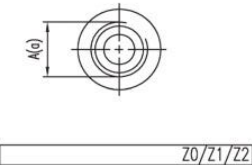
规格 TYPE	油口代号 PORTS CODE	进油口 INLET			出油口 OUTLET		
		A	B	C	a	b	c
2.5PHA...6 ÷ 2.5PHA...8	E0	30	13	M6	30	13	M6
2.5PHA...10 ÷ 2.5PHA...19	E1	40	20	M8	30	13	M6
2.5PHA...22 ÷ 2.5PHA...44	E2	51	25	M10	40	18	M8



规格 TYPE	油口代号 PORTS CODE	进油口 INLET				出油口 OUTLET			
		A	B	C	D	a	b	c	d
BHP2.5...6 ÷ 2.5PHA...16	F0	47.6	22.2	M10x1.5	20	47.6	22.2	M10x1.5	13
2.5PHA...19 ÷ 2.5PHA...44	F1	52.4	26.2	M10x1.5	25	47.6	22.2	M10x1.5	20



规格 TYPE	进油口 INLET			出油口 OUTLET		
	A	B	C	a	b	c
2.5PHA...6 ÷ 2.5PHA...16	55	20	M8	55	13	M8
2.5PHA...19 ÷ 2.5PHA...44	55	25	M8	55	20	M8

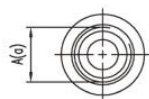


规格 TYPE	油口代号 PORTS CODE	进油口 INLET		出油口 OUTLET	
		A	a	b	c
2.5PHA...6 ÷ 2.5PHA...14	Z0	M22x1.5	M18x1.5		
2.5PHA...16 ÷ 2.5PHA...19	Z1	M27x2	M22x1.5		
2.5PHA...22 ÷ 2.5PHA...44	Z2	M33x2	M27x2		

2.5PHA系列

2.5PHA Series

油口/PORTS



U0/U1

规格 TYPE	油口代号 PORTS CODE	进油口 INLET	出油口 OUTLET
		A	a
2.5PHA...6 ÷ 2.5PHA...22	U0	1 1/16-12 UNF	7/8-14 UNF
2.5PHA...25 ÷ 2.5PHA...44	U1	1 5/16-12 UNF	1 1/16-12 UNF



L0/L1

规格 TYPE	油口代号 PORTS CODE	进油口 INLET	出油口 OUTLET
		A	a
2.5PHA...6 ÷ 2.5PHA...22	L0	G3/4	G1/2
2.5PHA...25 ÷ 2.5PHA...44	L1	G 1	G3/4



R0/R1

规格 TYPE	油口代号 PORTS CODE	进油口 INLET	出油口 OUTLET
		A	a
2.5PHA...10 ÷ 2.5PHA...22	R0	PT3/4	PT1/2
2.5PHA...25 ÷ 2.5PHA...44	R1	PT 1	PT3/4

2.5PLD系列

2.5PLD Series

如何订购 How to order

2.5	P	LD	规格 Size	旋向 Rotation	轴伸 Shaft	前盖 Front cover	油口 Ports	油口位置 Ports position	油封 Seals	可选项 Options
组别 Group	P-齿轮泵 Pump	系列号 Series	23 25 26.5 28 30 32 36 40	D 顺时针 Clockwise S 逆时针 Counter clockwise R 可正反转 Reversible		A0				

油口位置

省略-侧进侧出
A-前进前出
B-后进前出
C-后进侧出
D-侧进前出
R-后进后出

Ports position

Omit-Side inlet and side outlet
A-Front inlet and front outlet
B-Back inlet and front outlet
C-Back inlet and side outlet
D-Side inlet and front outlet
R-Back inlet and back outlet

油封

省略-温度范围在-10°C~+80°C, 进油口最高绝对压力为3bar。
V-适用于高温介质, 温度范围在-10°C~+120°C。
H-适用于低温介质, 温度范围在-40°C~+80°C。
T-适用于进油口最大绝对压力3~6bar。
N-适用于进油口最大绝对压力3~10bar。

Seals

Omit-Range between -10°C and +80°C, inlet pressure up to max. 3 bar absolute.
V-Version suitable for fluid at hi-temperatures, range between -10°C and +120°C.
H-Version suitable for fluid at low-temperatures, range between -40°C and +80°C.
T-Version suitable for inlet pressure up to max. 3 and 6 bar absolute.
N-Version suitable for inlet pressure up to max. 3 and 10 bar absolute.

范例/ Examples

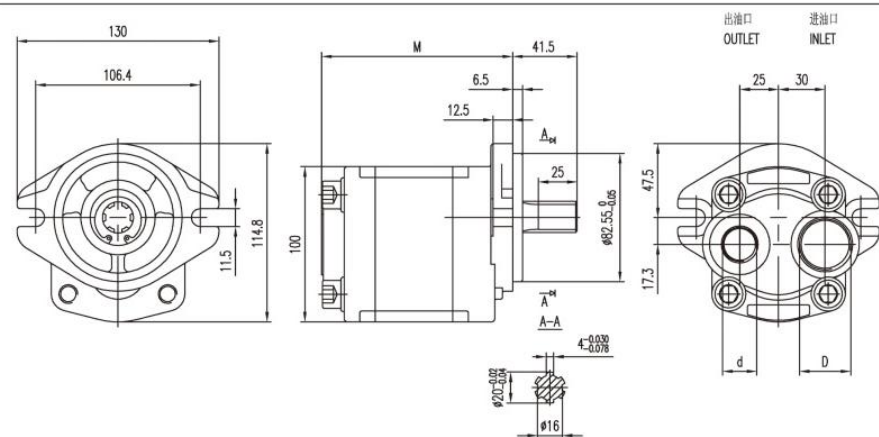
2.5PLD-23-D-C0-A0-Z0-R = 顺时针, 排量 23 cc/rev, A0 前盖, C0 圆柱轴伸, Z0 安装油口, 油口位置 R, 标准油封
clockwise rotation, 23 cc/rev, A0 front cover, C0 parallel shaft, setting ports Z0 type, Ports position (R), standard seals
2.5PLD-23-D-H1-A0-L0-R = 顺时针, 排量 23 cc/rev, A0 前盖, H1 矩形花键轴伸, L0 安装油口, 油口位置 R, 标准油封
clockwise rotation, 23 cc/rev, A0 front cover, H1 rectangle splined shaft, setting ports L0 type, Ports position (R), standard seals
2.5PLD-23-D-S3-A0-F0-N = 顺时针, 排量 23 cc/rev, A0 前盖, S3 SAE B 13轴伸, F0 安装油口, 高压油封(N)
clockwise rotation, 23 cc/rev, A0 front cover, SAE B splined 13T shaft(S3), setting ports F0 type, high pressure seals(N)

2.5PLD*A0-R系列

2.5PLD*A0-R Series

G 1 螺纹深 21,
G 1/2 螺纹深 16,
安装泵时, n.4 M12 螺钉扭矩设定为
75...80 Nm.

G 1 thread depth 21,
G 1/2 thread depth 16,
To mount the pump, n.4 M12 screws,
with a torque wrench setting fixed
at 75...80 Nm.



主要技术参数 Main Specification

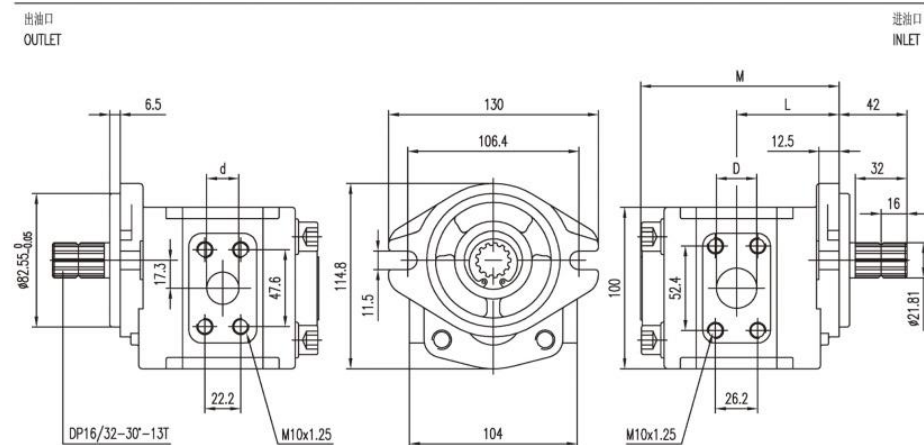
规格 Type	排量 Displacement	最大压力 Max pressure			最高转速 Max. speed	最低转速 Min. speed	尺寸 Dimensions		
		P1	P2	P3			M	D	d
	(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	mm		
2.5PLD-23-D*A0-R	23	230	250	260	3500	600	118	G 1	G 1/2
2.5PLD-25-D*A0-R	25	230	250	260	3500	600	120	G 1	G 1/2
2.5PLD-26.5-D*A0-R	26.5	230	250	260	3500	600	122	G 1	G 1/2
2.5PLD-28-D*A0-R	28	230	250	260	3500	600	124	G 1	G 1/2
2.5PLD-30-D*A0-R	30	230	250	260	3000	600	126	G 1	G 1/2
2.5PLD-32-D*A0-R	32	200	230	250	3000	600	129	G 1	G 1/2
2.5PLD-36-D*A0-R	36	200	230	250	2750	500	133	G 1	G 1/2
2.5PLD-40-D*A0-R	40	160	180	200	2500	500	138	G 1	G 1/2

2.5PLD*A0系列

2.5PLD*A0 Series

M10x1.25 螺纹深 15,
安装泵时, n.4 M12 螺钉扭矩设定为
75...80 Nm.

M10x1.25 thread depth 15,
To mount the pump, n.4 M12 screws,
with a torque wrench setting fixed
at 75...80 Nm.



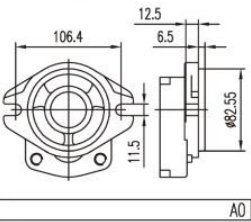
主要技术参数 Main Specification

规格 Type	排量 Displacement	最大压力 Max pressure			最高转速 Max. speed	最低转速 Min. speed	尺寸 Dimensions			
		P1	P2	P3			M	L	D	d
	(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm		
2.5PLD-23-D*A0	23	230	250	260	3500	600	118	60.5	25	20
2.5PLD-25-D*A0	25	230	250	260	3500	600	120	61.8	25	20
2.5PLD-26.5-D*A0	26.5	230	250	260	3500	600	122	62.8	25	20
2.5PLD-28-D*A0	28	230	250	260	3500	600	124	63.8	25	20
2.5PLD-30-D*A0	30	230	250	260	3000	600	126	64.8	25	20
2.5PLD-32-D*A0	32	200	230	250	3000	600	129	66.3	25	20
2.5PLD-36-D*A0	36	200	230	250	2750	500	133	68.3	25	20
2.5PLD-40-D*A0	40	160	180	200	2500	500	138	70.8	28	20

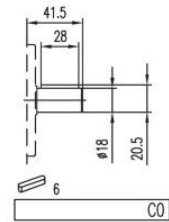
2.5PLD系列

2.5PLD Series

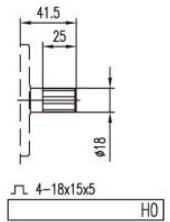
前盖/FRONT COVER



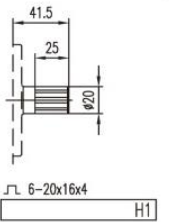
轴伸/SHAFTS



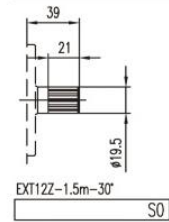
最大扭矩
Max.Torque 180 Nm



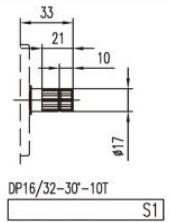
最大扭矩
Max.Torque 200 Nm



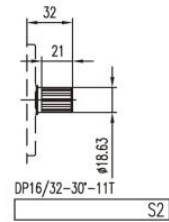
最大扭矩
Max.Torque 240 Nm



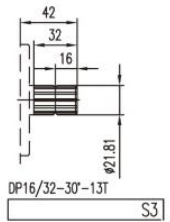
最大扭矩
Max.Torque 220 Nm



最大扭矩
Max.Torque 200 Nm



最大扭矩
Max.Torque 210 Nm

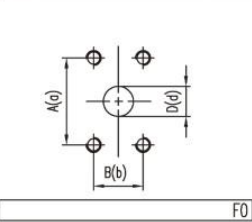


最大扭矩
Max.Torque 300 Nm

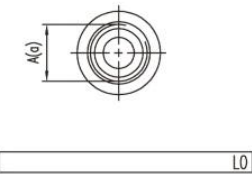
2.5PLD系列

2.5PLD Series

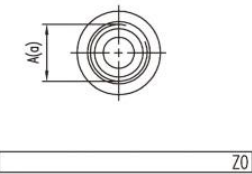
油口/PORTS



规格 TYPE	进油口 INLET				出油口 OUTLET			
	A	B	C	D	a	b	c	d
2.5PLD...23 ÷ 2.5PLD...36	52.4	26.2	M10x1.25	25	47.6	22.2	M10x1.25	20
2.5PLD...40	52.4	26.2	M10x1.25	28	47.6	22.2	M10x1.25	20



规格 TYPE	进油口 INLET	出油口 OUTLET
	A	a
2.5PLD...23 ÷ 2.5PLD...40	G 1	G 1/2



规格 TYPE	进油口 INLET	出油口 OUTLET
	A	a
2.5PLD...23 ÷ 2.5PLD...40	M33x2	M22x1.5

KYDAC

3PHA SERIES

< 3PHA 系列



KYDAC 上海上甲智控液压有限公司

0P/1P/1.5P/2P/2.5P/3P/多联泵系列

3PHA[3MHA]系列

3PHA[3MHA] Series

如何订购 How to order

3	P	HA	规格 Size	旋向 Rotation	轴伸 Shaft	前盖 Front cover	油口 Ports	油口位置 Ports position	油封 Seals	可选项 Options
组别 Group	P-齿轮泵 Pump M-齿轮马达 Motor	系列号 Series	20 22 26 33 39 46 50 52 55 63 71	D 顺时针 Clockwise S 逆时针 Counter clockwise R 可正反转 Reversible		B0 B1 A0 A1				

可选项 / Options

排油管 / Drain

Q0-内部排油 / internal drain
Q1-外部排油 / external drain G3/8
Q2-外部排油 / external drain 3/4-16 UNF
Q3-外部排油 / external drain G1/4
Q4-外部排油 / external drain 9/16-18 UNF

油口位置

省略-侧进侧出
A-前进前出
B-后进前出
C-后进侧出
D-侧进前出
R-后进后出

Ports position

Omit-Side inlet and side outlet
A-Front inlet and front outlet
B-Back inlet and front outlet
C-Back inlet and side outlet
D-Side inlet and front outlet
R-Back inlet and back outlet

油封

省略-温度范围在-10°C~+80°C, 进油口最高绝对压力为3bar。
V-适用于高温介质, 温度范围在-10°C~+120°C。
H-适用于低温介质, 温度范围在-40°C~+80°C。
T-适用于进油口最大绝对压力3~6bar。
N-适用于进油口最大绝对压力3~10bar。

Seals

Omit-Range between -10°C and +80°C; inlet pressure up to max. 3 bar absolute.
V-Version suitable for fluid at hi-temperatures, range between -10°C and +120°C.
H-Version suitable for fluid at low-temperatures, range between -40°C and +80°C.
T-Version suitable for inlet pressure up to max. 3 and 6 bar absolute.
N-Version suitable for inlet pressure up to max. 3 and 10 bar absolute.

范例/ Examples

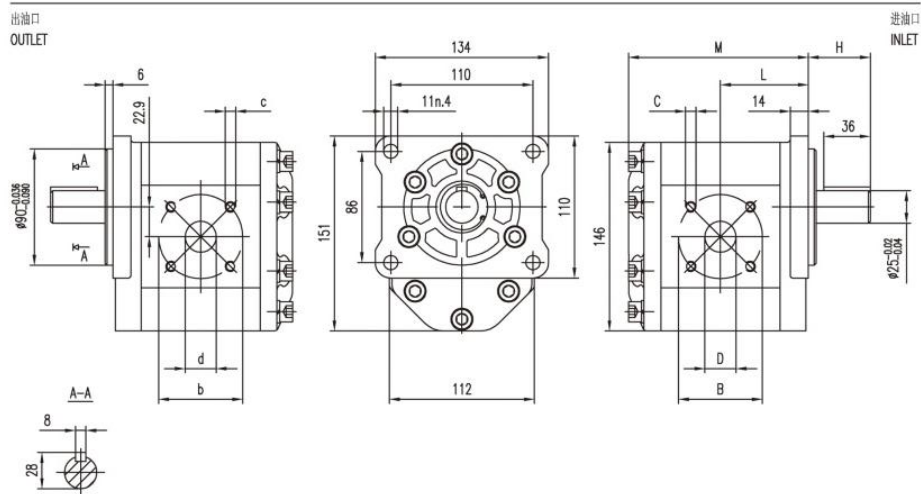
3PHA-20-D-C0-B0-F0 = 顺时针, 排量 20 cc/rev, B0 前盖, C0 圆柱轴伸, F0 安装油口, 标准油封
clockwise rotation, 20 cc/rev, B0 front cover, C0 parallel shaft, setting ports F0 type, standard seals
3PHA-20-D-T0-B1-E0 = 顺时针, 排量 20 cc/rev, B1 前盖, T0 1:8锥形轴伸, E0 安装油口, 标准油封
clockwise rotation, 20 cc/rev, B1 front cover, 1:8 tapered shaft(T0), setting ports E0 type, standard seals
3PHA-20-D-C2-A0-F4-N = 顺时针, 排量 20 cc/rev, A0 前盖, C2 圆柱轴伸, F4 安装油口, 高压油封(N)
clockwise rotation, 20 cc/rev, A0 front cover, C2 parallel shaft, setting ports F4 type, high pressure seals(N)

3PHA*B0系列

3PHA*B0 Series

M10 螺纹深 18.
M8 螺纹深 16.
安装泵时, n.8 M10 螺钉扭矩
设定为 47 ± 3 Nm.

M10 thread depth 18.
M8 thread depth 16.
To mount the pump, n.8 M10 screws,
with a torque wrench setting fixed
at 47 ± 3 Nm.



主要技术参数 Main Specification

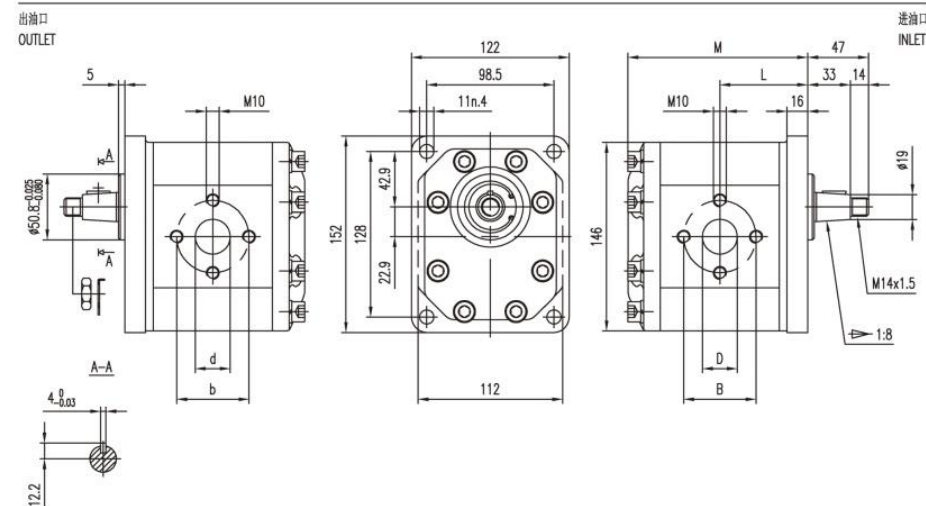
规格 Type	排量 Displacement	最大压力 Max pressure			最高转速 Max. speed	最低转速 Min. speed	尺寸 Dimensions									
		P1	P2	P3			M	L	H	B	D	C	b	d	c	
	(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm	mm	mm	mm	mm	mm	mm	mm	
3PHA-20-D*B0	20	250	265	280	3500	600	128	63	48	50	20	M8	50	16.5	M8	
3PHA-22-D*B0	22	250	265	280	3500	600	130	64	48	50	20	M8	50	16.5	M8	
3PHA-26-D*B0	26	250	265	280	3000	600	133	65	48	50	20	M8	50	20	M8	
3PHA-33-D*B0	33	230	250	270	3000	500	139	68	48	65	25	M8	65	20	M8	
3PHA-39-D*B0	39	230	250	270	3000	500	146	72	48	65	25	M8	65	20	M8	
3PHA-46-D*B0	46	230	250	270	3000	500	152	75	48	65	25	M8	65	20	M8	
3PHA-50-D*B0	50	220	240	260	3000	500	156	77	51	76	33	M10	76	25	M10	
3PHA-52-D*B0	52	220	240	260	3000	500	158	78	51	76	33	M10	76	25	M10	
3PHA-55-D*B0	55	200	230	250	2800	400	160	79	51	76	33	M10	76	25	M10	
3PHA-63-D*B0	63	200	230	250	2800	400	168	83	51	76	33	M10	76	25	M10	
3PHA-71-D*B0	71	180	200	220	2500	400	175	86	51	76	33	M10	76	25	M10	

3PHA*B1系列

3PHA*B1 Series

M10 螺纹深 18,
安装泵时, n.8 M10 螺钉扭矩设定为
 47 ± 3 Nm.
轴伸 M14x1.5 螺母扭矩设定为 80 Nm.

M10 thread depth 18,
To mount the pump, n.8 M10 screws,
with a torque wrench setting fixed
at 47 ± 3 Nm.
Shaft M14x1.5 nut, with a torque
wrench setting fixed at 80 Nm.



主要技术参数 Main Specification

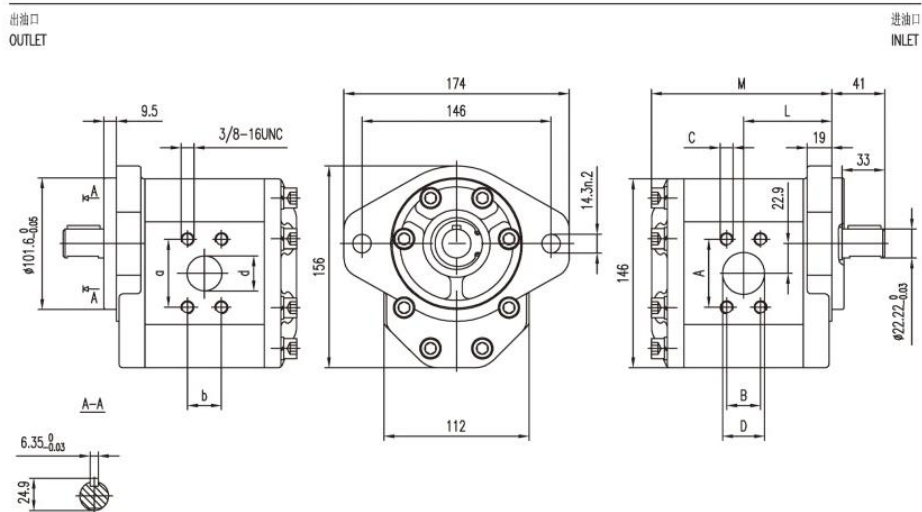
规格 Type	排量 Displacement	最大压力 Max pressure			最高转速 Max. speed	最低转速 Min. speed	尺寸 Dimensions									
		P1	P2	P3			M	L	H	B	D	C	b	d	c	
	(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm	mm	mm	mm	mm	mm	mm	mm	
3PHA-20-D*B1	20	250	265	280	3500	600	128	63	56	27	56	19				
3PHA-22-D*B1	22	250	265	280	3500	600	130	64	56	27	56	19				
3PHA-26-D*B1	26	250	265	280	3000	600	133	65	56	27	56	19				
3PHA-33-D*B1	33	230	250	270	3000	500	139	68	56	27	56	19				
3PHA-39-D*B1	39	230	250	270	3000	500	146	72	56	27	56	19				
3PHA-46-D*B1	46	230	250	270	3000	500	152	75	51	27	51	27				
3PHA-50-D*B1	50	220	240	260	3000	500	156	77	56	27	56	27				
3PHA-52-D*B1	52	220	240	260	3000	500	158	78	56	27	56	27				
3PHA-55-D*B1	55	200	230	250	2800	400	160	79	62	33	51	27				
3PHA-63-D*B1	63	200	230	250	2800	400	168	83	62	33	51	27				
3PHA-71-D*B1	71	180	200	220	2500	400	175	86	62	33	51	27				

3PHA*A0系列

3PHA*A0 Series

3/8-16 UNC 螺纹深 19.
7/16-14UNC 螺纹深 19.
安装泵时, n.8 M10 螺钉扭矩
设定为 47 ± 3 Nm.

3/8-16 UNC thread depth 19.
7/16-14 UNC thread depth 19.
To mount the pump, n.8 M10 screws,
with a torque wrench setting fixed
at 47 ± 3 Nm.



主要技术参数 Main Specification

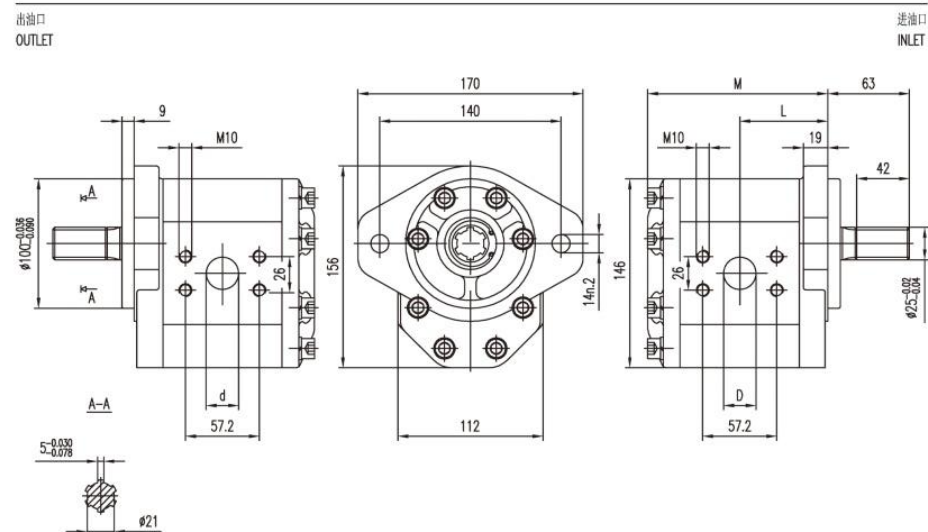
规格 Type	排量 Displacement	最大压力 Max pressure			最高转速 Max. speed	最低转速 Min. speed	尺寸 Dimensions									
		P1	P2	P3			M	L	A	B	C	D	a	b	d	
	(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm	mm	mm	UNC	mm	mm	mm	mm	
3PHA-20-D*A0	20	250	265	280	3500	600	128	63	52.4	26.2	3/8	27	47.6	22.2	19	
3PHA-22-D*A0	22	250	265	280	3500	600	130	64	52.4	26.2	3/8	27	47.6	22.2	19	
3PHA-26-D*A0	26	250	265	280	3000	600	133	65	52.4	26.2	3/8	27	47.6	22.2	19	
3PHA-33-D*A0	33	230	250	270	3000	500	139	68	52.4	26.2	3/8	27	47.6	22.2	19	
3PHA-39-D*A0	39	230	250	270	3000	500	146	72	52.4	26.2	3/8	27	47.6	22.2	19	
3PHA-46-D*A0	46	230	250	270	3000	500	152	75	52.4	26.2	3/8	27	47.6	22.2	19	
3PHA-50-D*A0	50	220	240	260	3000	500	156	77	52.4	26.2	3/8	27	47.6	22.2	19	
3PHA-52-D*A0	52	220	240	260	3000	500	158	78	52.4	26.2	3/8	27	47.6	22.2	19	
3PHA-55-D*A0	55	200	230	250	2800	400	160	79	58.7	30.2	7/16	33	52.4	26.2	27	
3PHA-63-D*A0	63	200	230	250	2800	400	168	83	58.7	30.2	7/16	33	52.4	26.2	27	
3PHA-71-D*A0	71	180	200	220	2500	400	175	86	58.7	30.2	7/16	33	52.4	26.2	27	

3PHA*A1系列

3PHA*A1 Series

M10 螺纹深 16.
安装泵时, n.8 M10 螺钉扭矩
设定为 47 ± 3 Nm.

M10 thread depth 16.
To mount the pump, n.8 M10 screws,
with a torque wrench setting fixed
at 47 ± 3 Nm.



主要技术参数 Main Specification

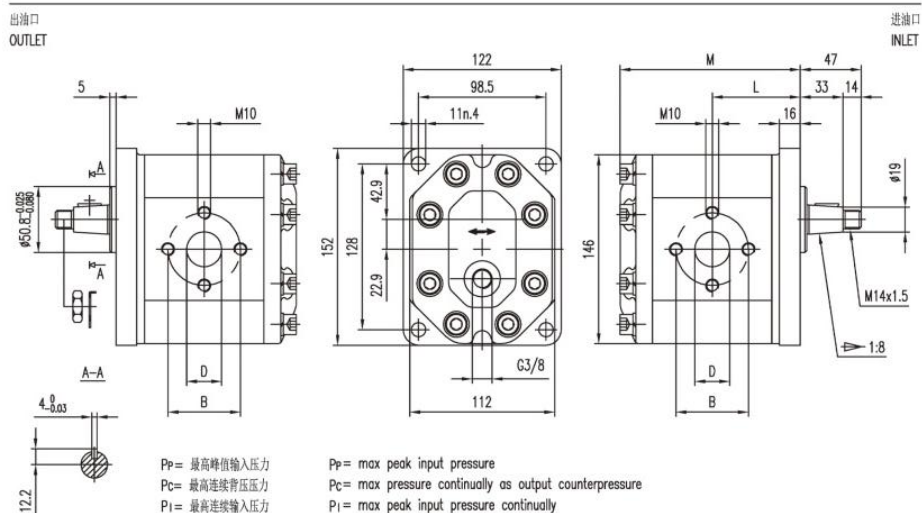
规格 Type	排量 Displacement	最大压力 Max pressure			最高转速 Max. speed	最低转速 Min. speed	尺寸 Dimensions			
		P1	P2	P3			M	L	D	d
	(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	mm	mm	mm	mm
3PHA-20-D*A1	20	250	265	280	3500	600	128	63	25	20
3PHA-25-D*A1	25	250	265	280	3000	600	133	65	25	20
3PHA-32-D*A1	32	230	250	270	3000	500	139	68	30	20
3PHA-40-D*A1	40	230	250	270	3000	500	146	72	35	20
3PHA-50-D*A1	50	220	240	260	3000	500	156	77	35	25
3PHA-63-D*A1	63	200	230	250	2800	400	168	83	35	25

3MHA*B1系列

3MHA*B1 Series

M10 螺纹深 18,
安装泵时, n.8 M10 螺钉扭矩设定为
47±3 Nm.
轴伸 M14x1.5 螺母扭矩设定为 80 Nm.

M10 thread depth 18,
To mount the pump, n.8 M10 screws,
with a torque wrench setting fixed
at 47±3 Nm.
Shaft M14x1.5 nut, with a torque
wrench setting fixed at 80 Nm.



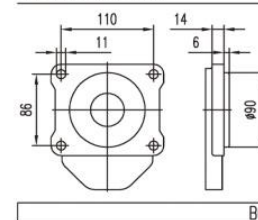
主要技术参数 Main Specification

规格 Type	排量 Displacement	最大压力 Max pressure				最高转速 Max. speed	最低转速 Min. speed	尺寸 Dimensions			
		Pi	Pc	Pp				M	L	B	D
	(cm ³ /rev)	bar	bar	bar		(r/min)	(r/min)	mm	mm	mm	mm
3MHA-20-R*B1	20	280	265	290		3500	600	128	63	56	27
3MHA-22-R*B1	22	280	265	290		3500	600	130	64	56	27
3MHA-26-R*B1	26	280	265	290		3000	600	133	65	56	27
3MHA-33-R*B1	33	270	250	280		3000	500	139	68	56	27
3MHA-39-R*B1	39	270	250	280		3000	500	146	72	56	27
3MHA-46-R*B1	46	270	250	280		3000	500	152	75	51	27
3MHA-50-R*B1	50	260	240	270		3000	500	156	77	56	27
3MHA-52-R*B1	52	260	240	270		3000	500	158	78	56	27
3MHA-55-R*B1	55	250	230	260		2800	400	160	79	62	33
3MHA-63-R*B1	63	250	230	260		2800	400	168	83	62	33
3MHA-71-R*B1	71	220	200	230		2500	400	175	86	62	33

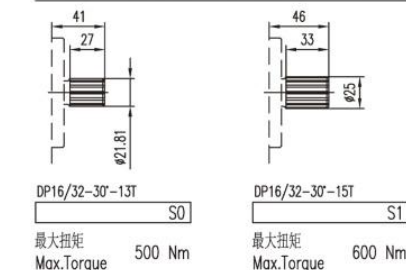
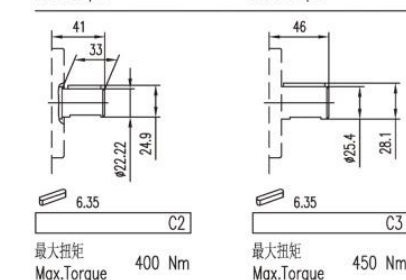
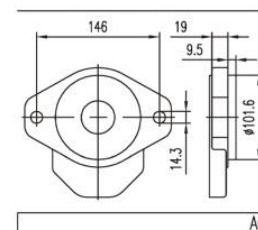
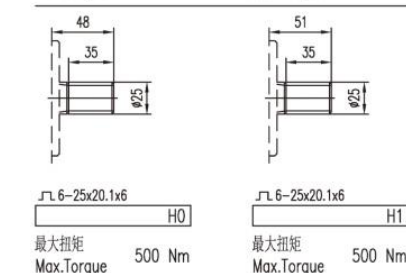
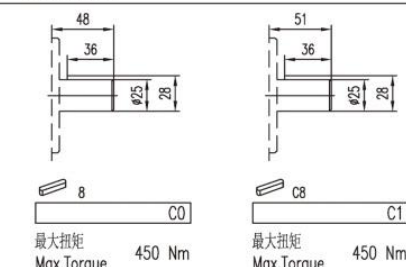
3PHA系列

3PHA Series

前盖/Front COVER



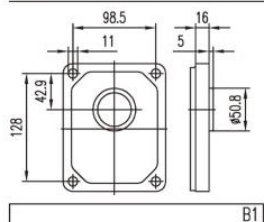
轴伸/SHAFTS



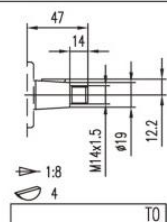
3PHA系列

3PHA Series

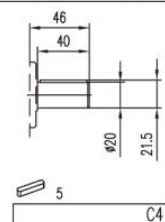
前盖/FRONT COVER



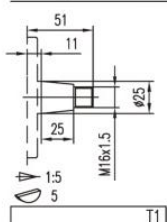
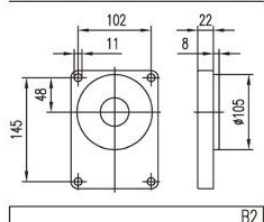
轴伸/SHAFTS



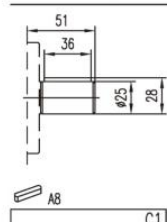
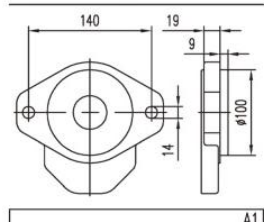
最大扭矩
Max.Torque 300 Nm



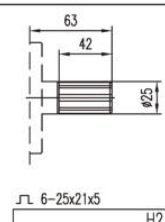
最大扭矩
Max.Torque 350 Nm



最大扭矩
Max.Torque 350 Nm



最大扭矩
Max.Torque 450 Nm

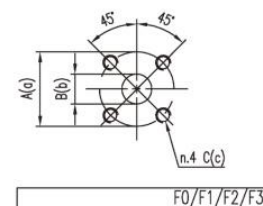


最大扭矩
Max.Torque 500 Nm

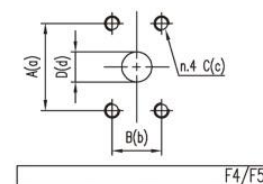
3PHA系列

3PHA Series

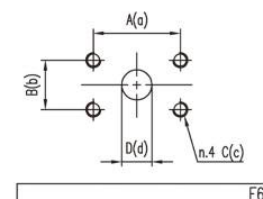
油口/PORTS



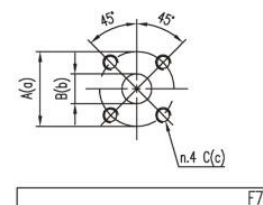
规格 TYPE	油口代号 PORTS CODE	进油口 INLET			出油口 OUTLET		
		A	B	C	a	b	c
3PHA...20 ÷ 3PHA...26	F0	50	20	M8	50	20	M8
3PHA...33 ÷ 3PHA...46	F1	65	25	M8	65	20	M8
3PHA...50 ÷ 3PHA...71	F2	76	33	M10	76	25	M10
3PHA...50 ÷ 3PHA...63	F3	76	33	M8	76	25	M8



规格 TYPE	油口代号 PORTS CODE	进油口 INLET				出油口 OUTLET			
		A	B	C	D	a	b	c	d
3PHA...20 ÷ 3PHA...52	F4	52.4	26.2	3/8-16UNC	27	47.6	22.2	3/8-16UNC	19
3PHA...55 ÷ 3PHA...71	F5	58.7	30.2	7/16-14UNC	33	52.4	26.2	3/8-16UNC	27



规格 TYPE	进油口 INLET				出油口 OUTLET			
	A	B	C	D	a	b	c	d
3PHA...20 ÷ 3PHA...25	57.2	26	M10	25	57.2	26	M10	20
3PHA...32	57.2	26	M10	30	57.2	26	M10	20
3PHA...40	57.2	26	M10	35	57.2	26	M10	20
3PHA...50 ÷ 3PHA...63	57.2	26	M10	35	57.2	26	M10	25

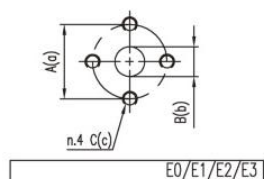


规格 TYPE	进油口 INLET			出油口 OUTLET		
	A	B	C	a	b	c
3PHA...20 ÷ 3PHA...71	55	27	M8	55	19	M8

3PHA系列

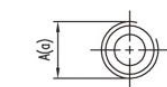
3PHA Series

油口/PORTS



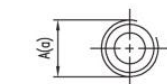
E0/E1/E2/E3

规格 TYPE	油口代号 PORTS CODE	进油口 INLET			出油口 OUTLET		
		A	B	C	a	b	c
3PHA...20 ÷ 3PHA...39	E0	56	27	M10	56	19	M10
3PHA...46	E1	51	27	M10	51	27	M10
3PHA...50 ÷ 3PHA...52	E2	56	27	M10	56	27	M10
3PHA...55 ÷ 3PHA...71	E3	62	33	M10	51	27	M10



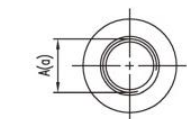
L0/L1/L2/L3

规格 TYPE	油口代号 PORTS CODE	进油口 INLET	出油口 OUTLET
		A	a
3PHA...20 ÷ 3PHA...22	L0	G3/4	G3/4
3PHA...26 ÷ 3PHA...39	L1	G 1	G3/4
3PHA...46 ÷ 3PHA...63	L2	G1 1/4	G 1
3PHA...71	L3	G1 1/2	G1 1/4



R0/R1/R2/R3

规格 TYPE	油口代号 PORTS CODE	进油口 INLET	出油口 OUTLET
		A	a
3PHA...20 ÷ 3PHA...22	R0	PT3/4	PT3/4
3PHA...26 ÷ 3PHA...39	R1	PT 1	PT3/4
3PHA...46 ÷ 3PHA...63	R2	PT1 1/4	PT 1
3PHA...71	R3	PT1 1/2	PT1 1/4



U0/U1/U2

规格 TYPE	油口代号 PORTS CODE	进油口 INLET	出油口 OUTLET
		A	a
3PHA...20 ÷ 3PHA...33	U0	1 5/16-12UNF	1 1/16-12UNF
3PHA...39 ÷ 3PHA...52	U1	1 5/8-12UNF	1 1/16-12UNF
3PHA...55 ÷ 3PHA...71	U2	1 7/8-12UNF	1 5/16-12UNF

KYDAC

MULTI-LINK PUMP SERIES

< 多联泵系列



多联泵系列

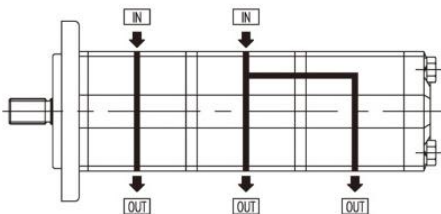
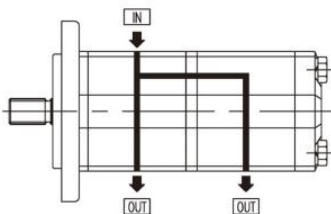
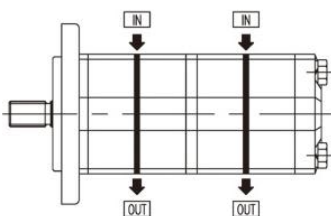
Multiple pumps Series

如何订购 How to order



油口位置 Ports position

省略-侧进侧出 Omit-Side inlet and side outlet
 B-后进前出 B-Back inlet and front outlet
 C-后进侧出 C-Back inlet and side outlet
 D-侧进前出 D-Side inlet and front outlet
 R-后进后出 R-Back inlet and back outlet

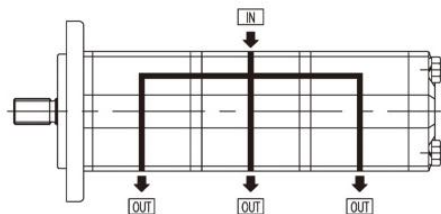
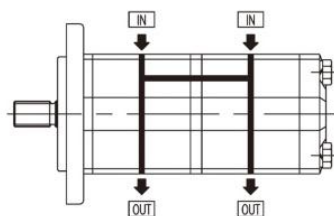
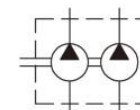
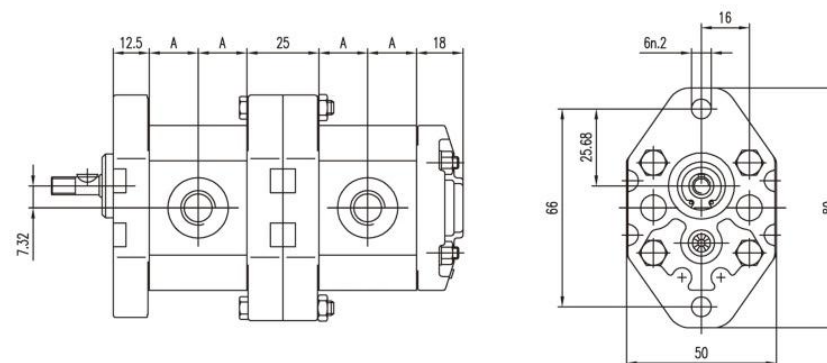


多联泵概述 MULTIPLE PUMPS COMBTNATION

Reduced inlets provide overall systems savings by reducing the cost of redundant inlet hose and fittings.
 For other combinations please consult our sales department

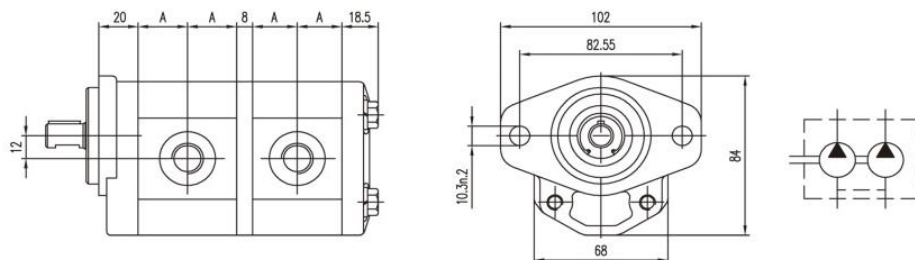
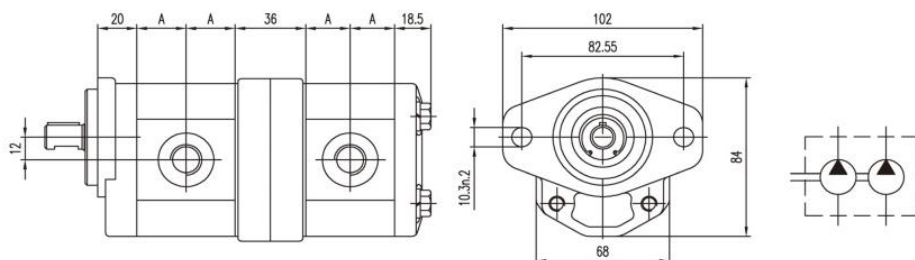
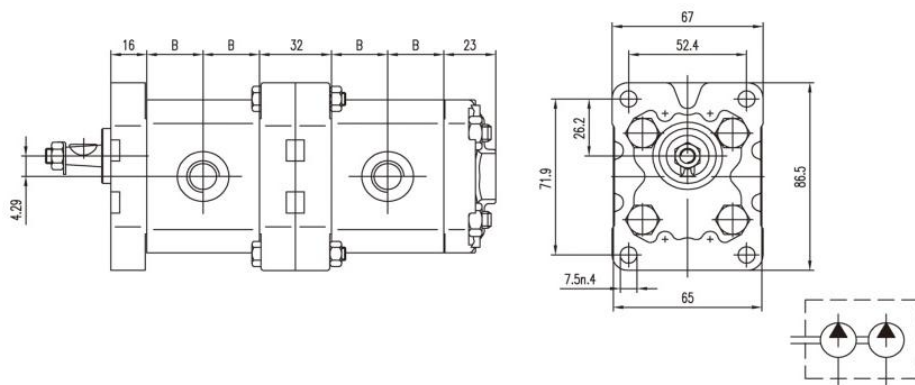
油口形式 STANDARD VERSION

E-二进二出(不通油型) E-two inlet and two outlet(separated type)
 F-二进二出(通油型) F-two inlet and two outlet(common type)
 G-一进二出 G-one inlet and two outlet
 J-一进三出 J-one inlet and three outlet
 K-二进三出 K-two inlet and three outlet

0PUA+0PUA
0PUA+0PUA-E

0PUA

排量 Displacement	最大压力 Max pressure			最高转速 Max. speed	最低转速 Min. speed	尺寸 Dimensions
	P1	P2	P3			
(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	mm
0.19	200	230	250	7000	1000	14.8
0.26	200	230	250	7000	1000	15
0.38	200	230	250	7000	1000	15.5
0.50	200	230	250	7000	1000	16
0.65	200	230	250	7000	1000	16.5
0.75	200	230	250	7000	1000	17
0.88	200	230	250	7000	1000	17.5
1.00	200	230	250	6000	850	18
1.25	200	230	250	5000	700	19
1.50	200	230	250	4000	600	20
1.75	180	210	230	4000	600	21
2.00	160	190	210	3000	500	22

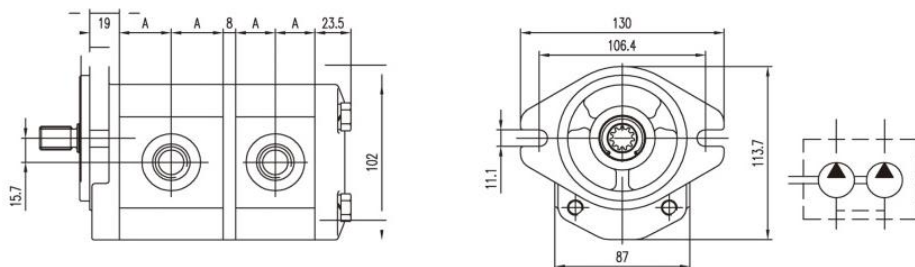
1PHA+1PHA 1PUA+1PUA**1PHA+1PHA-F****1PHA+1PHA-E****1PUA+1PUA-E****1PHA**

排量 Displacement	最大压力 Max pressure			最高转速 Max. speed	最低转速 Min. speed	尺寸 Dimensions
	P1	P2	P3			
(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	mm
1.4	250	270	290	6000	800	22
2.1	250	270	290	6000	800	23
2.8	250	270	290	5000	800	24
3.5	250	270	290	5000	800	25
4.1	250	270	290	4000	800	26
5.2	230	245	260	4000	800	27.5
6.2	230	245	260	3500	800	29
7.6	200	215	230	3000	600	31
9.3	180	195	210	2500	600	33.5
11.0	170	185	200	2500	600	36
13.8	150	165	180	2000	600	40

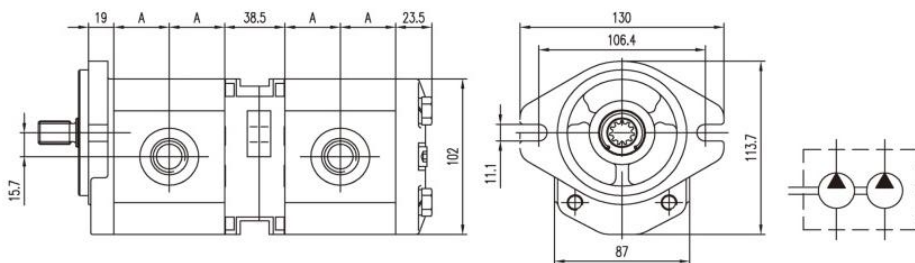
1PUA

排量 Displacement	最大压力 Max pressure			最高转速 Max. speed	最低转速 Min. speed	尺寸 Dimensions
	P1	P2	P3			
(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	mm
0.8	230	250	270	6000	1000	17.8
1.1	230	250	270	6000	1000	18
1.3	230	250	270	6000	1000	18.5
1.6	230	250	270	6000	1000	19
1.8	230	250	270	6000	1000	19.5
2.1	230	250	270	6000	1000	20
2.7	230	250	270	6000	800	21
3.2	210	230	250	5000	800	22
3.7	210	230	250	4500	800	23
4.2	210	230	250	4000	800	24
4.8	190	210	230	3500	600	25
5.8	190	210	230	3000	600	27
7.0	160	180	200	2500	600	29
8.0	160	180	200	2100	600	31

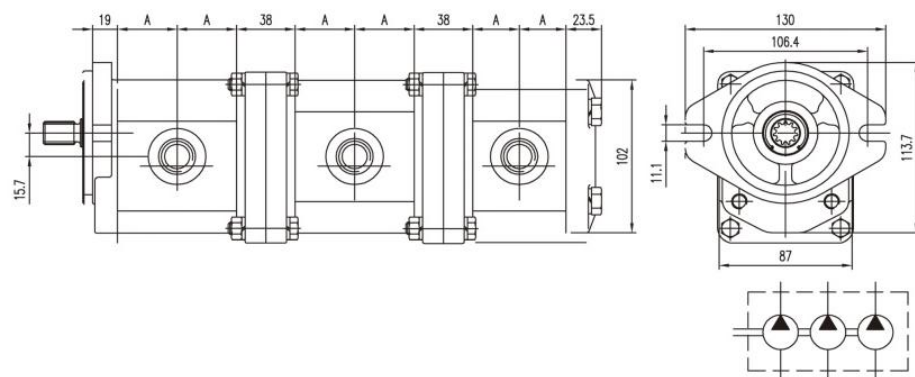
2PHA+2PHA+2PHA 2PHA+2PHA 2PHA+1PUA 2PHA+0PUA 2PHA+2PHA-F



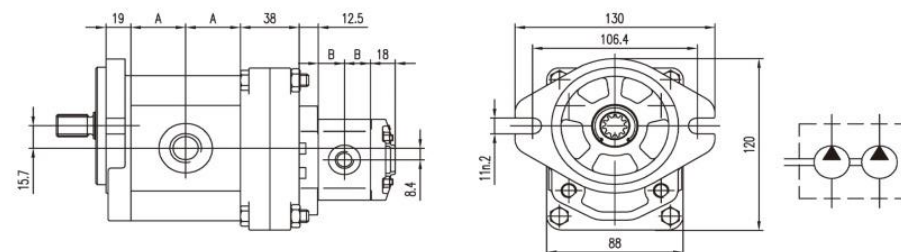
2PHA+2PHA-E



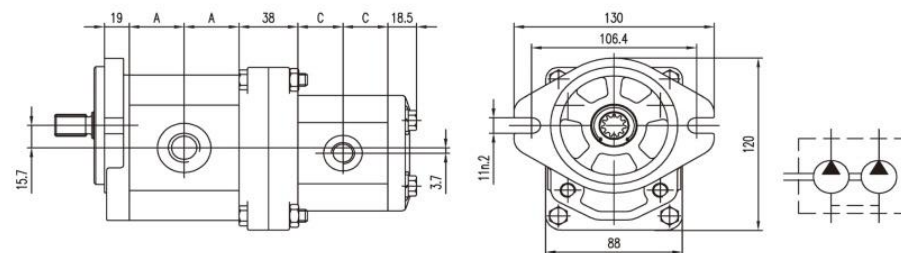
2PHA+2PHA+2PHA-E



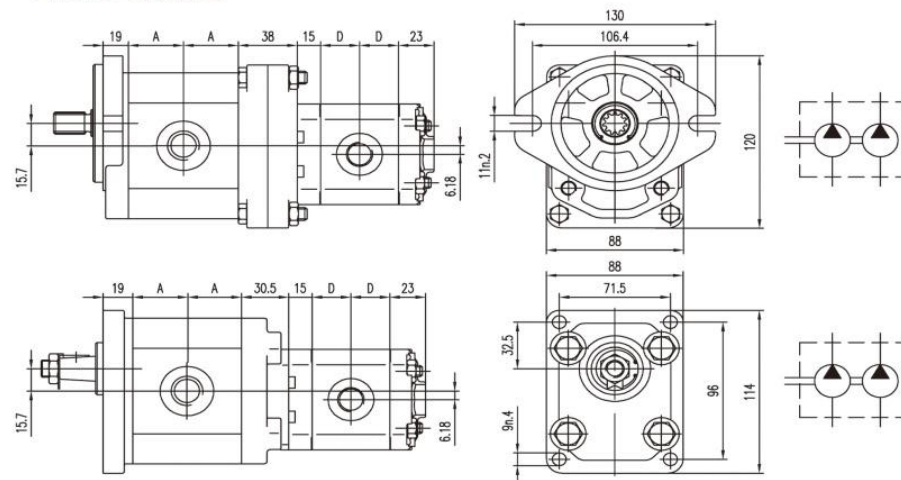
2PHA+0PUA-E



2PHA+1PLA-F



2PHA+1PUA-E



2PHA

排量 Displacement	最大压力 Max pressure			最高转速 Max. speed	最低转速 Min. speed	尺寸 Dimensions A
	P1	P2	P3			
(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	mm
3	270	285	300	4000	800	24.5
4	270	285	300	4000	600	25.3
6	270	285	300	4000	600	27
8	270	285	300	3500	500	28.6
10	270	285	300	3000	500	30.3
12	270	285	300	3000	500	32
14	250	265	280	4000	500	33.6
16	250	265	280	4000	500	35.3
18	250	265	280	3600	400	37
20	220	235	250	3200	400	38.6
22	220	235	250	3000	400	40.3
25	200	215	230	3000	400	42.8
28	180	190	200	2500	400	45.3
30	160	170	180	2500	400	47

0PUA

排量 Displacement	最大压力 Max pressure			最高转速 Max. speed	最低转速 Min. speed	尺寸 Dimensions B
	P1	P2	P3			
(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	mm
0.19	200	230	250	7000	1000	14.8
0.26	200	230	250	7000	1000	15
0.38	200	230	250	7000	1000	15.5
0.50	200	230	250	7000	1000	16
0.65	200	230	250	7000	1000	16.5
0.75	200	230	250	7000	1000	17
0.88	200	230	250	7000	1000	17.5
1.00	200	230	250	6000	850	18
1.25	200	230	250	5000	700	19
1.50	200	230	250	4000	600	20
1.75	180	210	230	4000	600	21
2.00	160	190	210	3000	500	22

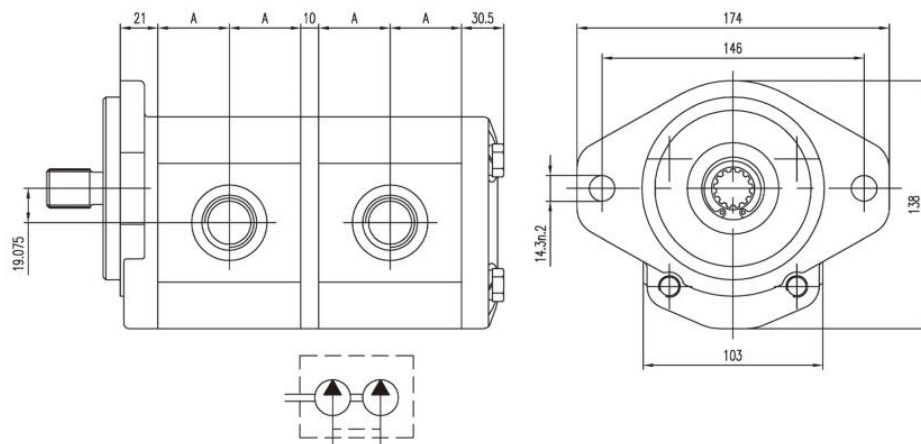
1PLA

排量 Displacement	最大压力 Max pressure			最高转速 Max. speed	最低转速 Min. speed	尺寸 Dimensions C
	P1	P2	P3			
(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	mm
1.4	250	270	290	6000	800	22
2.1	250	270	290	6000	800	23
2.8	250	270	290	5000	800	24
3.5	250	270	290	5000	800	25
4.1	250	270	290	4000	800	26
5.2	230	245	260	4000	800	27.5
6.2	230	245	260	3500	800	29
7.6	200	215	230	3000	600	31
9.3	180	195	210	2500	600	33.5
11.0	170	185	200	2500	600	36
13.8	150	165	180	2000	600	40

1PUA

排量 Displacement	最大压力 Max pressure			最高转速 Max. speed	最低转速 Min. speed	尺寸 Dimensions D
	P1	P2	P3			
(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	mm
0.8	230	250	270	6000	1000	17.8
1.1	230	250	270	6000	1000	18
1.3	230	250	270	6000	1000	18.5
1.6	230	250	270	6000	1000	19
1.8	230	250	270	6000	1000	19.5
2.1	230	250	270	6000	1000	20
2.7	230	250	270	6000	800	21
3.2	210	230	250	5000	800	22
3.7	210	230	250	4500	800	23
4.2	210	230	250	4000	800	24
4.8	190	210	230	3500	600	25
5.8	190	210	230	3000	600	27
7.0	160	180	200	2500	600	29
8.0	160	180	200	2100	600	31

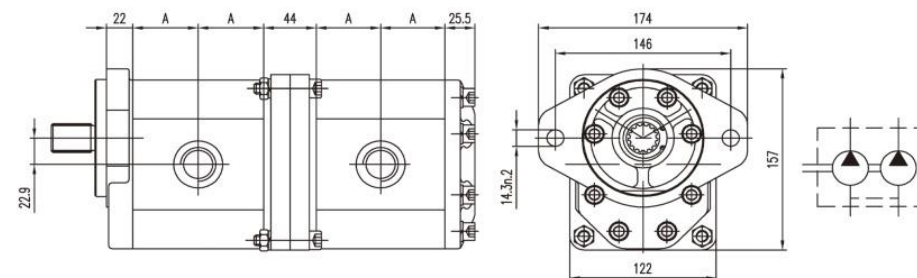
2.5PHA+2.5PHA 2.5PHA+2.5PHA-F



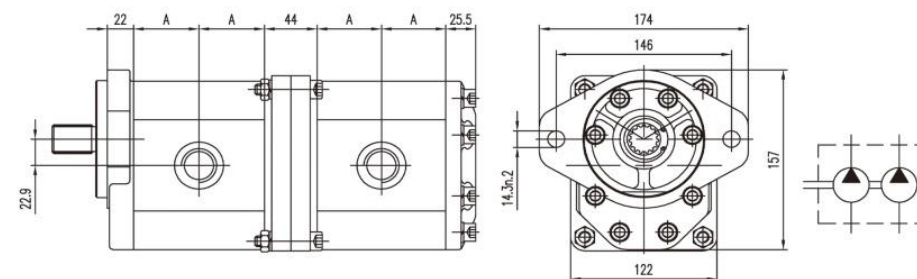
2.5PHA

排量 Displacement	最大压力 Max pressure			最高转速 Max. speed	最低转速 Min. speed	尺寸 Dimensions
	P1	P2	P3			
(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	mm
6	250	280	300	4000	800	28.3
8	250	280	300	4000	800	29.3
10	250	280	300	4000	700	30.3
12	250	280	300	3500	700	31.5
14	250	280	300	3500	600	32.3
16	250	280	300	3500	600	33.5
19	250	280	300	3000	500	35.3
22	250	280	300	3000	500	37
25	250	280	300	3000	500	38.3
28	250	280	300	3000	500	39.8
30	230	250	260	3000	500	41
32	230	250	260	3000	400	42.3
36	200	230	250	2750	400	44.3
38	200	230	250	2750	400	45.3
40	170	190	210	2500	400	46.3
44	170	190	210	2500	400	48.5

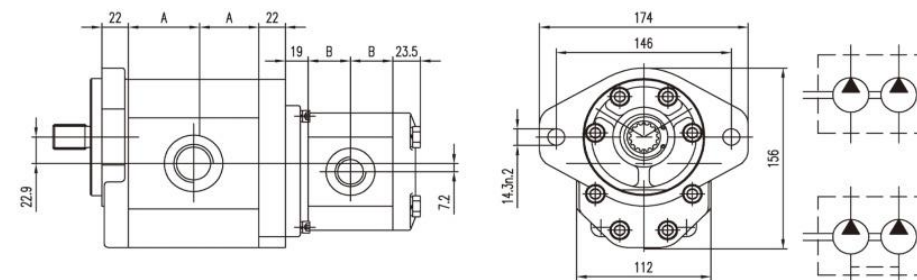
3PHA+2PHA 3PHA+1PUA 3PHA+3PHA 3PHA+0PUA 3PHA+3PHA-F



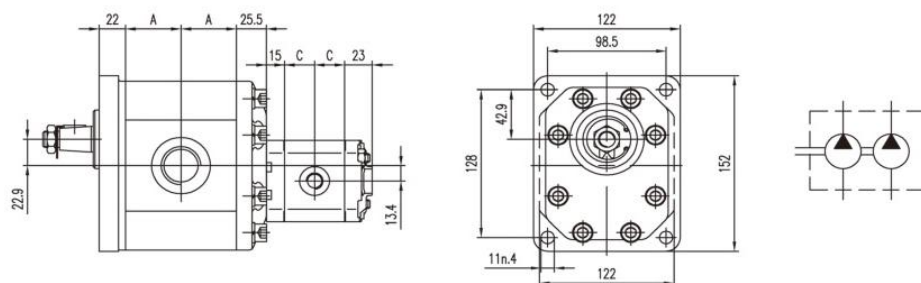
3PHA+3PHA-E



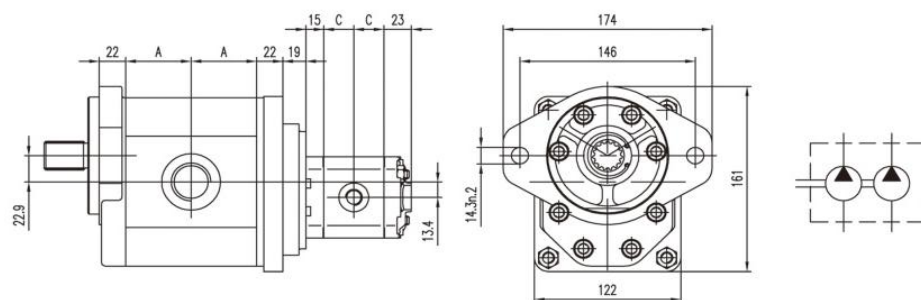
3PHA+2PHA-E 3PHA+2PHA-F



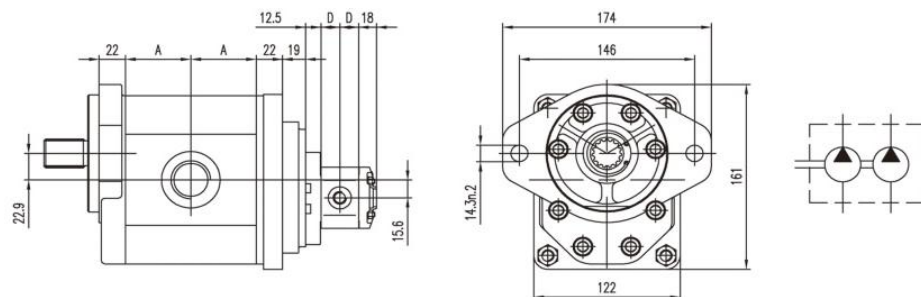
3PHA+1PUA-E



3PHA+1PUA-E



3PHA+0PUA-E



3PHA

排量 Displacement	最大压力 Max pressure			最高转速 Max. speed	最低转速 Min. speed	尺寸 Dimensions
	P1	P2	P3			
(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	mm
20	250	265	280	3500	600	40.5
22	250	265	280	3500	600	41.5
26	250	265	280	3000	600	43
33	230	250	270	3000	500	46
39	230	250	270	3000	500	49.5
46	230	250	270	3000	500	52.5
50	220	240	260	3000	500	54.5
52	220	240	260	3000	500	55.5
55	200	230	250	2800	400	56.5
63	200	230	250	2800	400	60.5
71	180	200	220	2500	400	64

2PHA

排量 Displacement	最大压力 Max pressure			最高转速 Max. speed	最低转速 Min. speed	尺寸 Dimensions
	P1	P2	P3			
(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	mm
3	270	285	300	4000	800	24.5
4	270	285	300	4000	600	25.3
6	270	285	300	4000	600	27
8	270	285	300	3500	500	28.6
10	270	285	300	3000	500	30.3
12	270	285	300	3000	500	32
14	250	265	280	4000	500	33.6
16	250	265	280	4000	500	35.3
18	250	265	280	3600	400	37
20	220	235	250	3200	400	38.6
22	220	235	250	3000	400	40.3
25	200	215	230	3000	400	42.8
28	180	190	200	2500	400	45.3
30	160	170	180	2500	400	47

1PUA

排量 Displacement	最大压力 Max pressure			最高转速 Max. speed	最低转速 Min. speed	尺寸 Dimensions C
	P1	P2	P3			
(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	mm
0.8	230	250	270	6000	1000	17.8
1.1	230	250	270	6000	1000	18
1.3	230	250	270	6000	1000	18.5
1.6	230	250	270	6000	1000	19
1.8	230	250	270	6000	1000	19.5
2.1	230	250	270	6000	1000	20
2.7	230	250	270	6000	800	21
3.2	210	230	250	5000	800	22
3.7	210	230	250	4500	800	23
4.2	210	230	250	4000	800	24
4.8	190	210	230	3500	600	25
5.8	190	210	230	3000	600	27
7.0	160	180	200	2500	600	29
8.0	160	180	200	2100	600	31

0PUA

排量 Displacement	最大压力 Max pressure			最高转速 Max. speed	最低转速 Min. speed	尺寸 Dimensions D
	P1	P2	P3			
(cm ³ /rev)	bar	bar	bar	(r/min)	(r/min)	mm
0.19	200	230	250	7000	1000	14.8
0.26	200	230	250	7000	1000	15
0.38	200	230	250	7000	1000	15.5
0.50	200	230	250	7000	1000	16
0.65	200	230	250	7000	1000	16.5
0.75	200	230	250	7000	1000	17
0.88	200	230	250	7000	1000	17.5
1.00	200	230	250	6000	850	18
1.25	200	230	250	5000	700	19
1.50	200	230	250	4000	600	20
1.75	180	210	230	4000	600	21
2.00	160	190	210	3000	500	22