# 技术资料 TECHNICAL INFORMATION

超静音螺旋齿轮泵的特点

1.低噪音水平：超静音螺旋齿轮泵产生的噪音非常低，这使得它特别适用于那些通常使用螺杆泵、叶片泵或内齿轮泵的应用场合。

2.简单结构：超静音螺旋齿轮泵的结构简单，这有助于降低制造成本和维护难度。

3.小尺寸：超静音螺旋齿轮泵体积小巧，便于安装和运输。

4.高性能：尽管尺寸小、结构简单，但超静音螺旋齿轮泵仍能提供出色的性能。

5.噪音比较

在相同压力（200 bar）下，超静音螺旋齿轮泵与其他几种泵的噪音水平进行了比较。这些泵包括：

标准外齿轮泵

双侧齿轮泵

内齿轮泵

叶片泵

超静音螺旋齿轮泵在这些泵中噪音水平最低。

6.脉动和振动

由于超静音螺旋齿轮泵的低脉动特性，它能够减少机器中诱导的振动。此外，超静音螺旋齿轮泵产生的较低频率声音更加悦耳。

7.压力脉动比较

在相同压力（200 bar）和转速（1500 rpm）下，超静音螺旋齿轮泵与标准外齿轮泵和双侧齿轮泵的压力脉动进行了比较。超静音螺旋齿轮泵在这方面的表现也优于其他两种泵。

Features of the Super silent helical gear pump:

1.Low Noise Level: The Super silent helical gear pump generates very low noise, making it particularly suitable for applications where screw pumps, vane pumps, or internal gear pumps are commonly used.

2.Simple Structure: The structure of the Super silent helical gear pump is simple, which helps to reduce manufacturing costs and maintenance difficulty.

3.Compact Size: The Super silent helical gear pump has a small volume, which is convenient for installation and transportation.

4.High Performance: Despite its small size and simple structure, the Super silent helical gear pump still provides excellent performance.

5.Noise Comparison

At the same pressure (200 bar), the noise level of the Super silent helical gear pump was compared with other types of pumps, including:

- Standard gear pump
- Dual Flank gear pump
- Internal gear pump
- Vane pump

The Super silent helical gear pump has the lowest noise level among these pumps.

6.Pulsation and Vibration

Due to the low pulsation characteristic of the Super silent helical gear pump, it can reduce the induced vibration in the machine. In addition, the lower frequency sound produced by the Super silent helical gear pump is more pleasant to the ear.

7.Pressure Pulsation Comparison

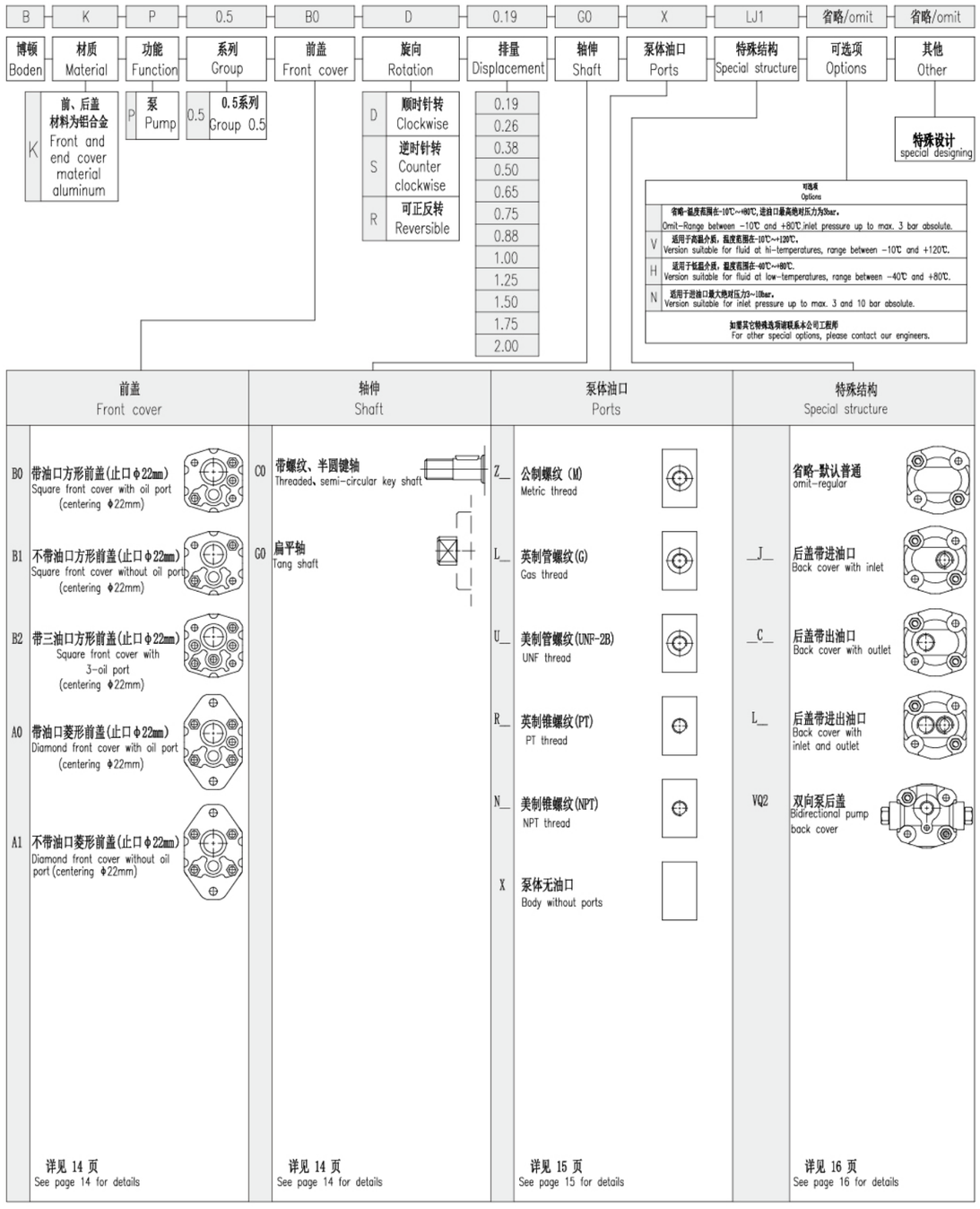
At the same pressure (200 bar) and speed (1500 rpm), the pressure pulsation of the Super silent helical gear pump was compared with the standard external gear pump and the Dual Flank gear pump. The Super silent helical gear pump performs better in this respect than the other two types of pumps.





# 0.5系列/Group 0.5

0.5系列选型规则/Group 0.5 Ordering Code Rules

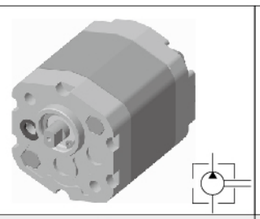
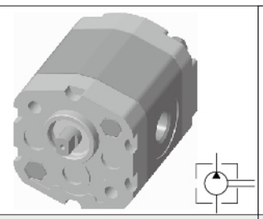
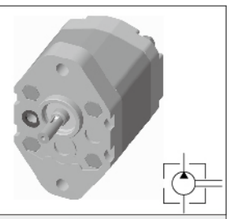


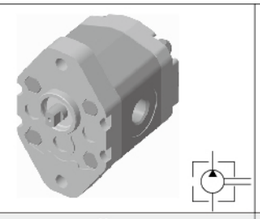
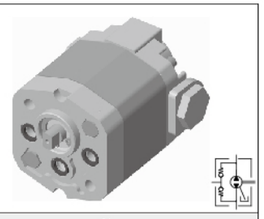

如需其它型号请见详情页或联系本公司工程师

If you need other models, please see the details page or contact our engineers.

# 0.5系列/Group 0.5

## 0.5系列标准型产品概览/Group 0.5 Standard Product Overview

| 型式 type | | | |
|---|---|---|---|
| |  |  |  |
| 页码 page | 17 | 18 | 19 |

| 型式 type | | |
|---|---|---|
| |  |  |
| 页码 page | 20 | 21 |

## 0.5系列排量参数表/Group 0.5 Displacement parameter table

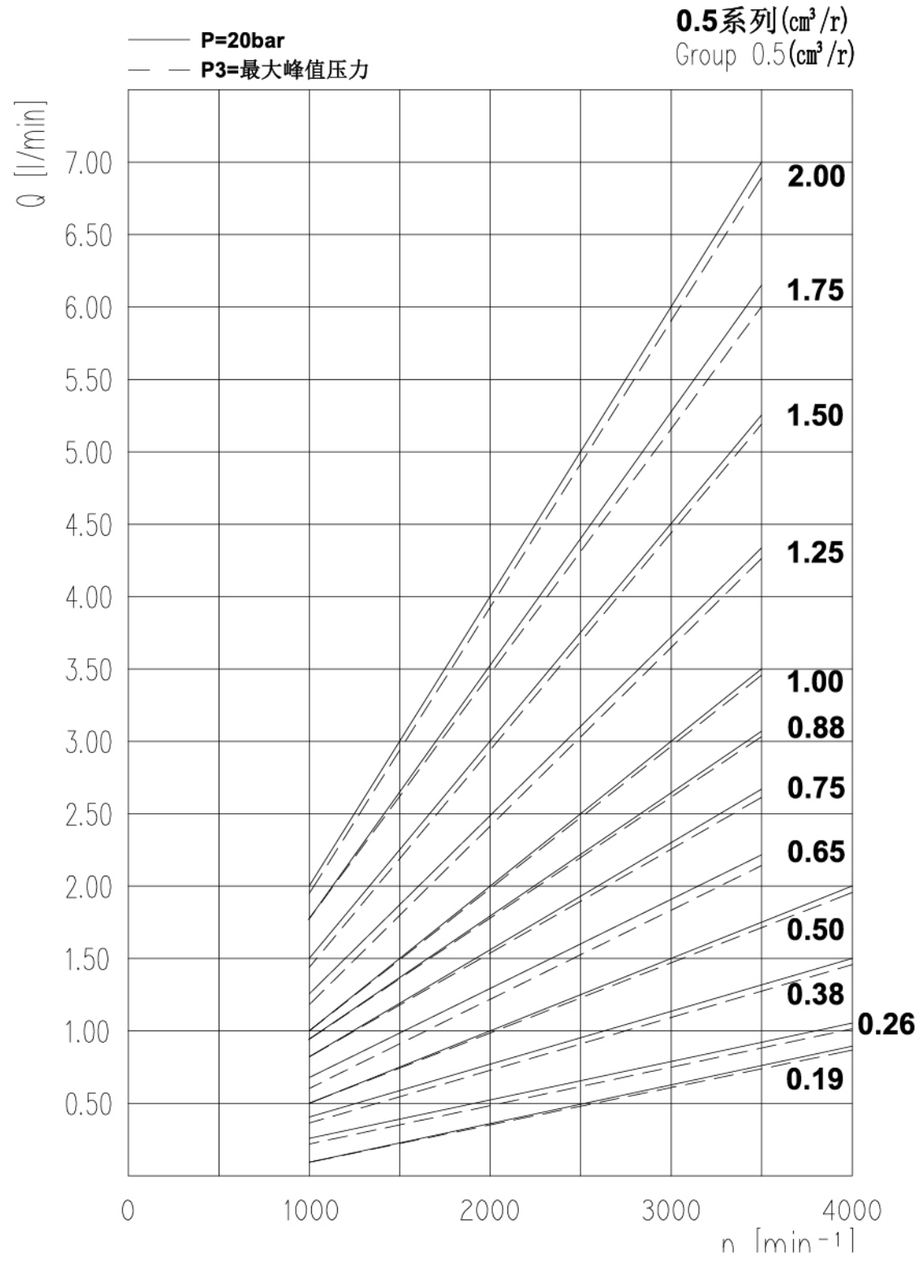
| 排量 Displacement | V | $cm^3$/rev | 0.19 | 0.26 | 0.38 | 0.50 | 0.65 | 0.75 | 0.88 | 1.00 | 1.25 | 1.50 | 1.75 | 2.00 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 吸油绝对压力 Suction absolute pressure | Pe | bar | 0.7...3 | | | | | | | | | | | |
| 最高连续压力 Max. continuous pressure | P1 | bar | 200 | | | | | | | | | | 180 | 160 |
| 最高间歇压力 Max. intermittent pressure | P2 | bar | 230 | | | | | | | | | | 210 | 190 |
| 最高峰值压力 Max. peak pressure | P3 | bar | 250 | | | | | | | | | | 230 | 210 |
| 最低转速 Min. speed | $n_{Min}$ | r/min | 1000 | | | | | | | 850 | 700 | 600 | | 500 |
| 最高转速 Max. speed | $n_{Max}$ | r/min | 7000 | | | | | | | 6000 | 5000 | 4000 | | 3000 |
| 容积效率 Volumetric efficiency | $\eta_v$ | % | ≥90 | | | | ≥91 | | | ≥92 | | | | |



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HIGH PRESSURE GEAR PUMP

0.5系列/Group 0.5

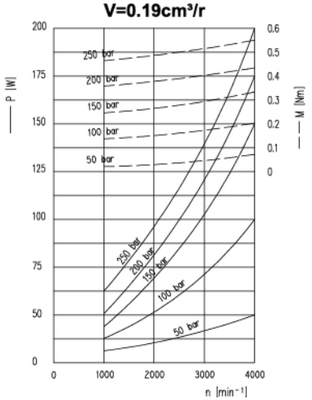
## 0.5系列流量性能曲线表/Group 0.5 Flow Performance Curve Table



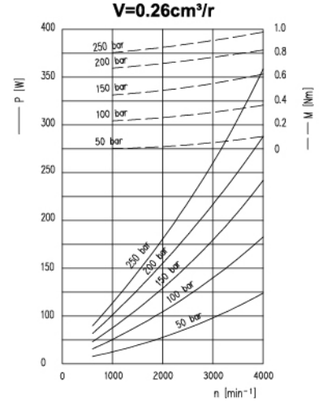
# 0.5系列/Group 0.5

## 0.5系列功率性能曲线表/Group 0.5 Power Performance Curve Table

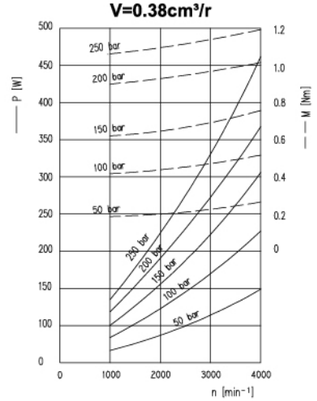
### V=0.19cm³/r



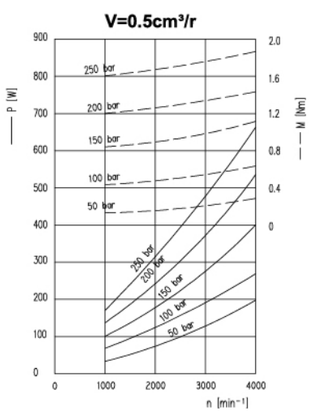

### V=0.26cm³/r



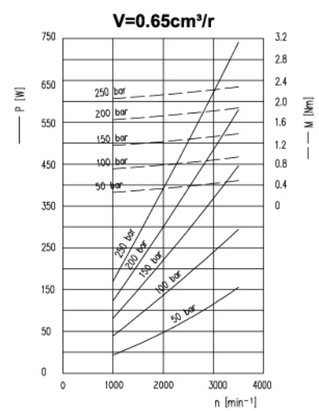

### V=0.38cm³/r



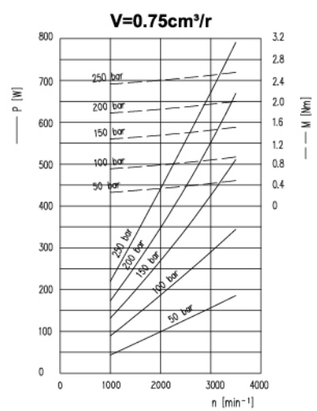

### V=0.5cm³/r



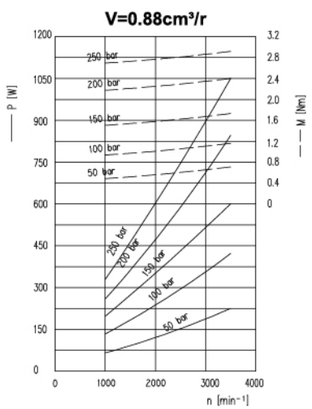

### V=0.65cm³/r



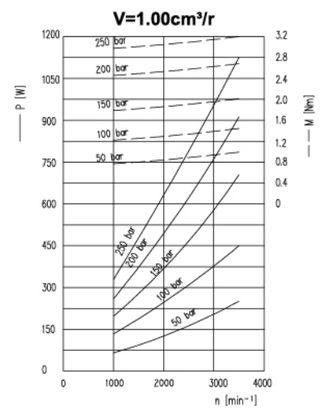

### V=0.75cm³/r



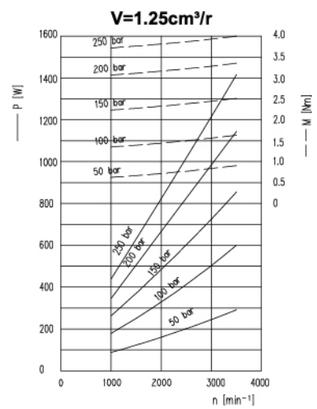

### V=0.88cm³/r




### V=1.00cm³/r




### V=1.25cm³/r



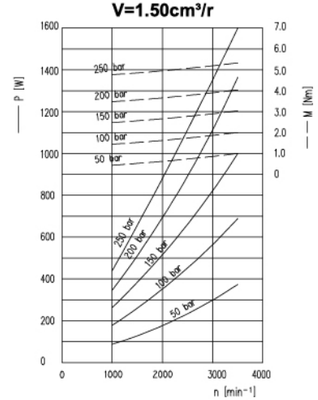



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HIGH PRESSURE GEAR PUMP

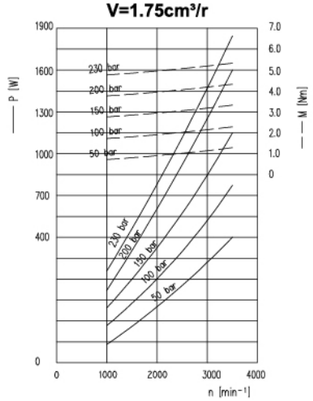
# 0.5系列/Group 0.5

## 0.5系列功率性能曲线表/Group 0.5 Power Performance Curve Table

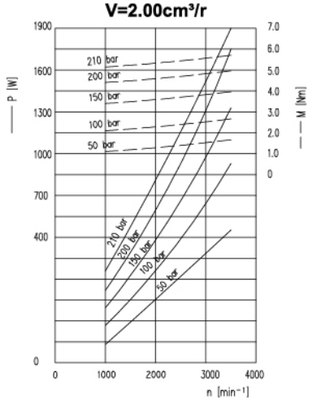
### V=1.50cm³/r




### V=1.75cm³/r




### V=2.00cm³/r



# 0.5系列/Group 0.5

0.5系列噪音曲线表/Group 0.5 Noise Curve Table

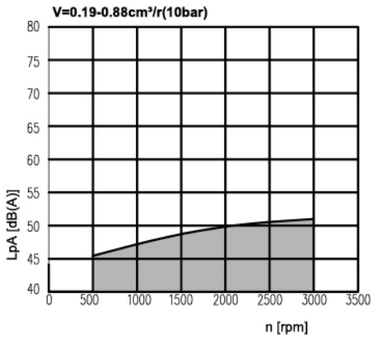
## 噪音曲线

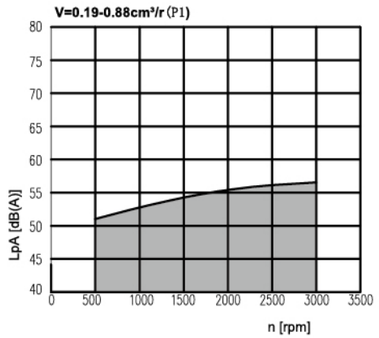
噪音等级取决于转速和压力范围；这个压力范围介于10 bar和压力值 P1之间。
The noise level depends on the speed and pressure range;This pressure range is between 10 bar and pressure value P1.

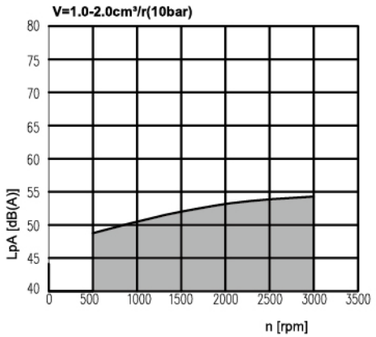
油液数据: ν = 32 mm²/s, ϑ= 50℃.
Oil data: V=32mm²/s,ϑ=50℃.

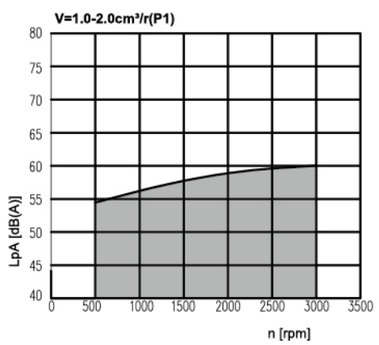
对于从吸声测量室测得的噪音值进行计算而得到的声音压力等级，符合 DIN 45635 第 26 章的要求。
The sound pressure level obtained by calculating the noise value measured from the sound absorption measuring room meets the requirements of Chapter 26 of DIN 45635.

测量传感器与液压泵之间的距离：1 米。
Distance between measuring sensor and hydraulic pump: 1m.



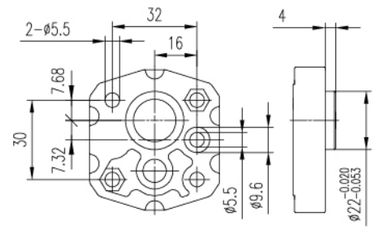





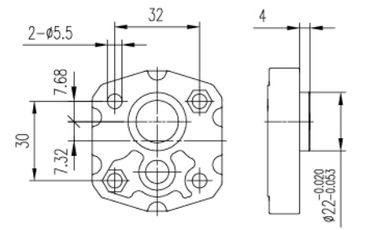

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HIGH PRESSURE GEAR PUMP

0.5系列/Group 0.5

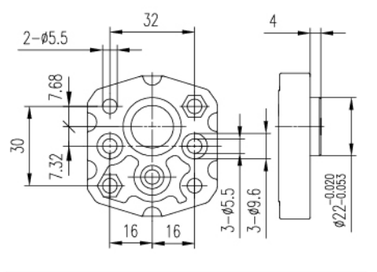
## 前盖/FRONT COVER



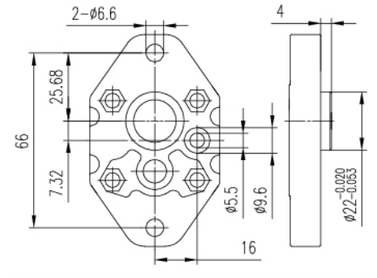

B0



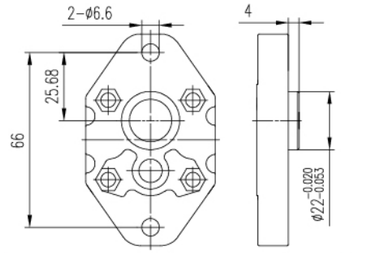

B1




B2

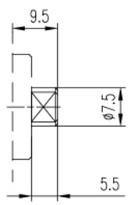



A0



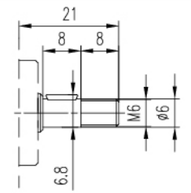

A1

## 轴伸/SHAFTS




G0

最大扭矩
Max.Torque 10 Nm

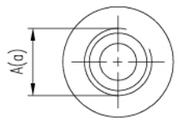



C0

最大扭矩
Max.Torque 8 Nm

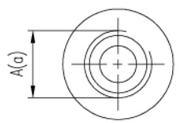
# 0.5系列/Group 0.5

## 泵体油口/PORTS




L2/L3

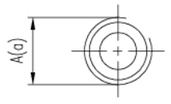
| 油口代号 PORTS CODE | 排量 Displacement | 进油口 INLET | 出油口 OUTLET |
|---|---|---|---|
| | ($cm^3$/rev) | A | a |
| L2 | 0.19...1.0 | G1/4 | G1/4 |
| L3 | 1.25...2.0 | G3/8 | G3/8 |




O型圈密封
O-ring

U0

| 油口代号 PORTS CODE | 排量 Displacement | 进油口 INLET | 出油口 OUTLET |
|---|---|---|---|
| | ($cm^3$/rev) | A | a |
| U0 | 0.19...2.0 | 9/16-18UNF | 9/16-18UNF |




Z0/Z2

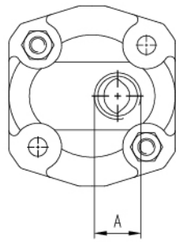
| 油口代号 PORTS CODE | 排量 Displacement | 进油口 INLET | 出油口 OUTLET |
|---|---|---|---|
| | ($cm^3$/rev) | A | a |
| Z0 | 0.19...1.0 | M10X1 | M10X1 |
| Z2 | 1.25...2.0 | M14X1.5 | M12X1 |



Boden博顿液压
HIGH PRESSURE GEAR PUMP

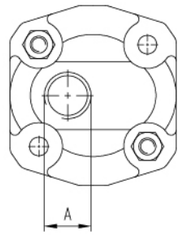
# 0.5系列/Group 0.5

## 特殊结构/SPECIAL STRUCTRE



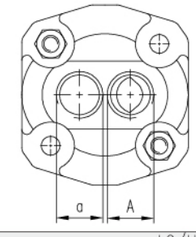

_J_

| 代号 CODE | 进油口 INLET |
|---|---|
| | A |
| LJ0 | G1/4 |
| MJ0 | M14X1.5 |
| UJ1 | 9/16-18UNF |



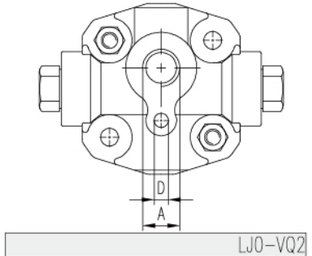

_C_

| 代号 CODE | 出油口 OUTLET |
|---|---|
| | A |
| LC0 | G1/4 |
| MC0 | M14X1.5 |
| UC1 | 9/16-18UNF |




L2/U0/Z0

| 代号 CODE | 进油口 INLET | 出油口 OUTLET |
|---|---|---|
| | A | a |
| L2 | G1/4 | G1/4 |
| U0 | 9/16-18UNF | 9/16-18UNF |
| Z0 | M10X1 | M10X1 |



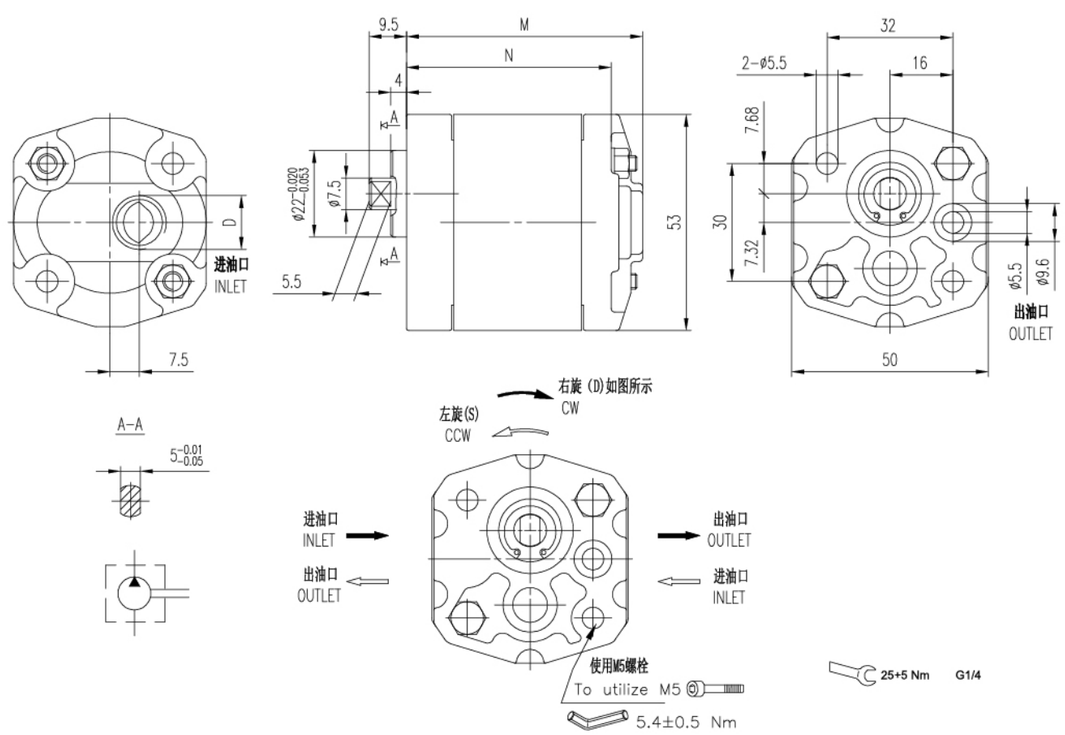

LJ0-VQ2

| 代号 CODE | 进油口 INLET | 漏油口 Oil drain |
|---|---|---|
| | A | D |
| LJ0-VQ2 | G1/4 | ø5 |

# 0.5系列/Group 0.5

## 0.5系列标准型产品尺寸/Group 0.5 Standard Product Dimensions

BKP0.5-B0-[D]-[0.19]-G0-X-[LJ0]




| 排量 Displacement | 最大压力 Max pressure | | | 最高转速 Max. speed | 最低转速 Min. speed | 重量 Weight | 尺寸 Dimensions | | 油口代码 Oil port code | 进油口 INLET |
|---|---|---|---|---|---|---|---|---|---|---|
| | P1 | P2 | P3 | | | | M | N | | D |
| ($cm^3$/rev) | bar | bar | bar | (r/min) | (r/min) | Kg | mm | mm | | |
| 0.19 | 200 | 230 | 250 | 7000 | 1000 | 0.36 | 60 | 51 | LJ0 | G1/4 |
| 0.26 | 200 | 230 | 250 | 7000 | 1000 | 0.364 | 60.5 | 51.5 | LJ0 | G1/4 |
| 0.38 | 200 | 230 | 250 | 7000 | 1000 | 0.372 | 61.5 | 52.5 | LJ0 | G1/4 |
| 0.50 | 200 | 230 | 250 | 7000 | 1000 | 0.38 | 62.5 | 53.5 | LJ0 | G1/4 |
| 0.65 | 200 | 230 | 250 | 7000 | 1000 | 0.40 | 63.5 | 54.5 | LJ0 | G1/4 |
| 0.75 | 200 | 230 | 250 | 7000 | 1000 | 0.408 | 64.5 | 55.5 | LJ0 | G1/4 |
| 0.88 | 200 | 230 | 250 | 7000 | 1000 | 0.416 | 65.5 | 56.5 | LJ0 | G1/4 |
| 1.00 | 200 | 230 | 250 | 6000 | 850 | 0.42 | 66.5 | 57.5 | LJ0 | G1/4 |
| 1.25 | 200 | 230 | 250 | 5000 | 700 | 0.436 | 68.5 | 59.5 | LJ0 | G1/4 |
| 1.50 | 200 | 230 | 250 | 4000 | 600 | 0.452 | 70.5 | 61.5 | LJ0 | G1/4 |
| 1.75 | 180 | 210 | 230 | 4000 | 600 | 0.468 | 72.5 | 63.5 | LJ0 | G1/4 |
| 2.00 | 160 | 190 | 210 | 3000 | 500 | 0.484 | 74.5 | 65.5 | LJ0 | G1/4 |

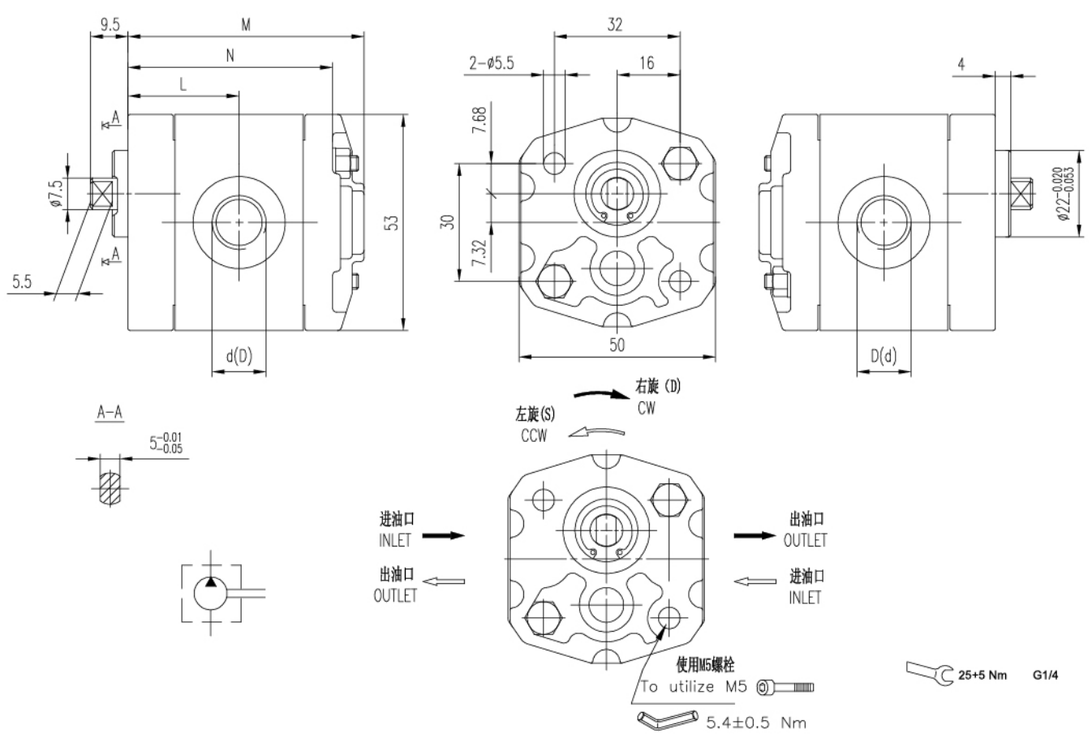




# 0.5系列/Group 0.5

## 0.5系列标准型产品尺寸/Group 0.5 Standard Product Dimensions

BKP0.5-B1-[D]-[0.19]-G0-[L2]

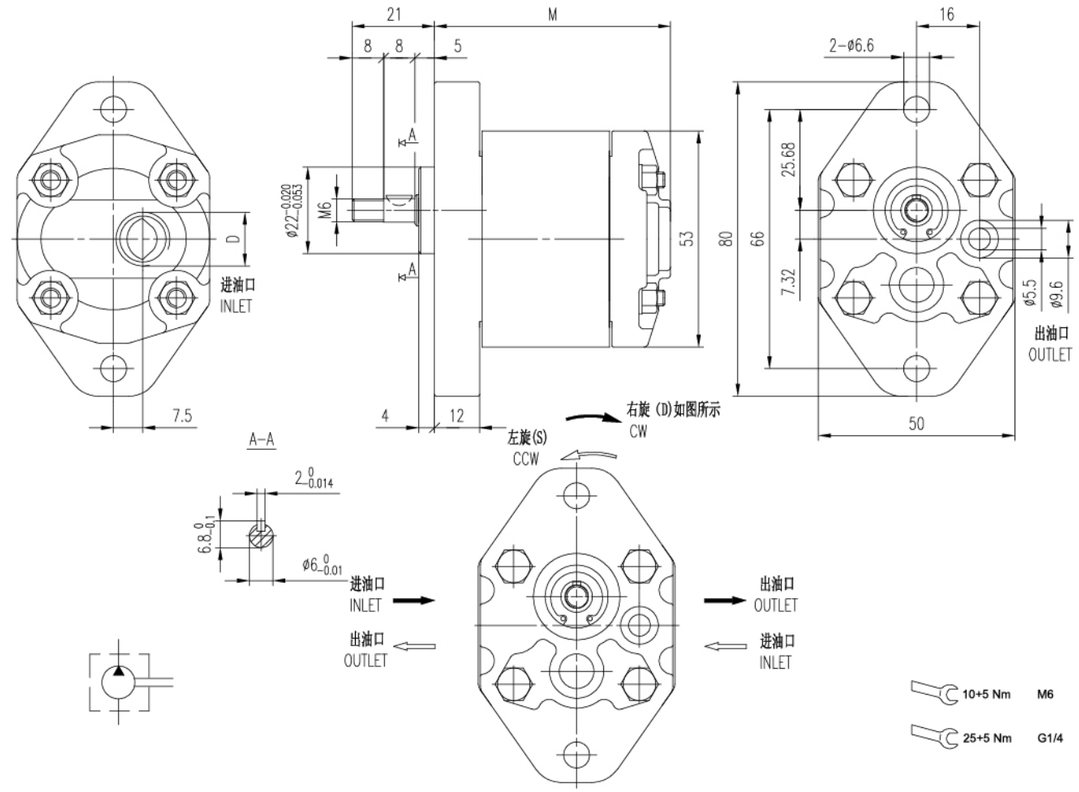



| 排量 Displacement | 最大压力 Max pressure | | | 最高转速 Max. speed | 最低转速 Min. speed | 重量 Weight | 尺寸 Dimensions | | | 油口代码 Oil port code | 进油口 INLET | 出油口 OUTLET |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | P1 | P2 | P3 | | | | M | N | L | | D | d |
| ($cm^3$/rev) | bar | bar | bar | (r/min) | (r/min) | Kg | mm | mm | mm | | | |
| 0.19 | 200 | 230 | 250 | 7000 | 1000 | 0.36 | 60 | 51 | 27.2 | L2 | G1/4 | G1/4 |
| 0.26 | 200 | 230 | 250 | 7000 | 1000 | 0.364 | 60.5 | 51.5 | 27.5 | L2 | G1/4 | G1/4 |
| 0.38 | 200 | 230 | 250 | 7000 | 1000 | 0.372 | 61.5 | 52.5 | 28 | L2 | G1/4 | G1/4 |
| 0.50 | 200 | 230 | 250 | 7000 | 1000 | 0.38 | 62.5 | 53.5 | 28.5 | L2 | G1/4 | G1/4 |
| 0.65 | 200 | 230 | 250 | 7000 | 1000 | 0.40 | 63.5 | 54.5 | 29 | L2 | G1/4 | G1/4 |
| 0.75 | 200 | 230 | 250 | 7000 | 1000 | 0.408 | 64.5 | 55.5 | 29.5 | L2 | G1/4 | G1/4 |
| 0.88 | 200 | 230 | 250 | 7000 | 1000 | 0.416 | 65.5 | 56.5 | 30 | L2 | G1/4 | G1/4 |
| 1.00 | 200 | 230 | 250 | 6000 | 850 | 0.42 | 66.5 | 57.5 | 30.5 | L2 | G1/4 | G1/4 |
| 1.25 | 200 | 230 | 250 | 5000 | 700 | 0.436 | 68.5 | 59.5 | 31.5 | L2 | G1/4 | G1/4 |
| 1.50 | 200 | 230 | 250 | 4000 | 600 | 0.452 | 70.5 | 61.5 | 32.5 | L2 | G1/4 | G1/4 |
| 1.75 | 180 | 210 | 230 | 4000 | 600 | 0.468 | 72.5 | 63.5 | 33.5 | L2 | G1/4 | G1/4 |
| 2.00 | 160 | 190 | 210 | 3000 | 500 | 0.484 | 74.5 | 65.5 | 34.5 | L2 | G1/4 | G1/4 |

# 0.5系列/Group 0.5

## 0.5系列标准型产品尺寸/Group 0.5 Standard Product Dimensions

BKP0.5-A0-[D]-[0.19]-C0-X-[LJ0]




| 排量 Displacement | 最大压力 Max pressure | | | 最高转速 Max. speed | 最低转速 Min. speed | 重量 Weight | 尺寸 Dimensions | 油口代码 Oil port code | 进油口 INLET |
|---|---|---|---|---|---|---|---|---|---|
| | P1 | P2 | P3 | | | | M | | D |
| ($cm^3$/rev) | bar | bar | bar | (r/min) | (r/min) | Kg | mm | | |
| 0.19 | 200 | 230 | 250 | 7000 | 1000 | 0.395 | 60 | LJ0 | G1/4 |
| 0.26 | 200 | 230 | 250 | 7000 | 1000 | 0.40 | 60.5 | LJ0 | G1/4 |
| 0.38 | 200 | 230 | 250 | 7000 | 1000 | 0.41 | 61.5 | LJ0 | G1/4 |
| 0.50 | 200 | 230 | 250 | 7000 | 1000 | 0.42 | 62.5 | LJ0 | G1/4 |
| 0.65 | 200 | 230 | 250 | 7000 | 1000 | 0.43 | 63.5 | LJ0 | G1/4 |
| 0.75 | 200 | 230 | 250 | 7000 | 1000 | 0.44 | 64.5 | LJ0 | G1/4 |
| 0.88 | 200 | 230 | 250 | 7000 | 1000 | 0.45 | 65.5 | LJ0 | G1/4 |
| 1.00 | 200 | 230 | 250 | 6000 | 850 | 0.46 | 66.5 | LJ0 | G1/4 |
| 1.25 | 200 | 230 | 250 | 5000 | 700 | 0.48 | 68.5 | LJ0 | G1/4 |
| 1.50 | 200 | 230 | 250 | 4000 | 600 | 0.50 | 70.5 | LJ0 | G1/4 |
| 1.75 | 180 | 210 | 230 | 4000 | 600 | 0.51 | 72.5 | LJ0 | G1/4 |
| 2.00 | 160 | 190 | 210 | 3000 | 500 | 0.52 | 74.5 | LJ0 | G1/4 |

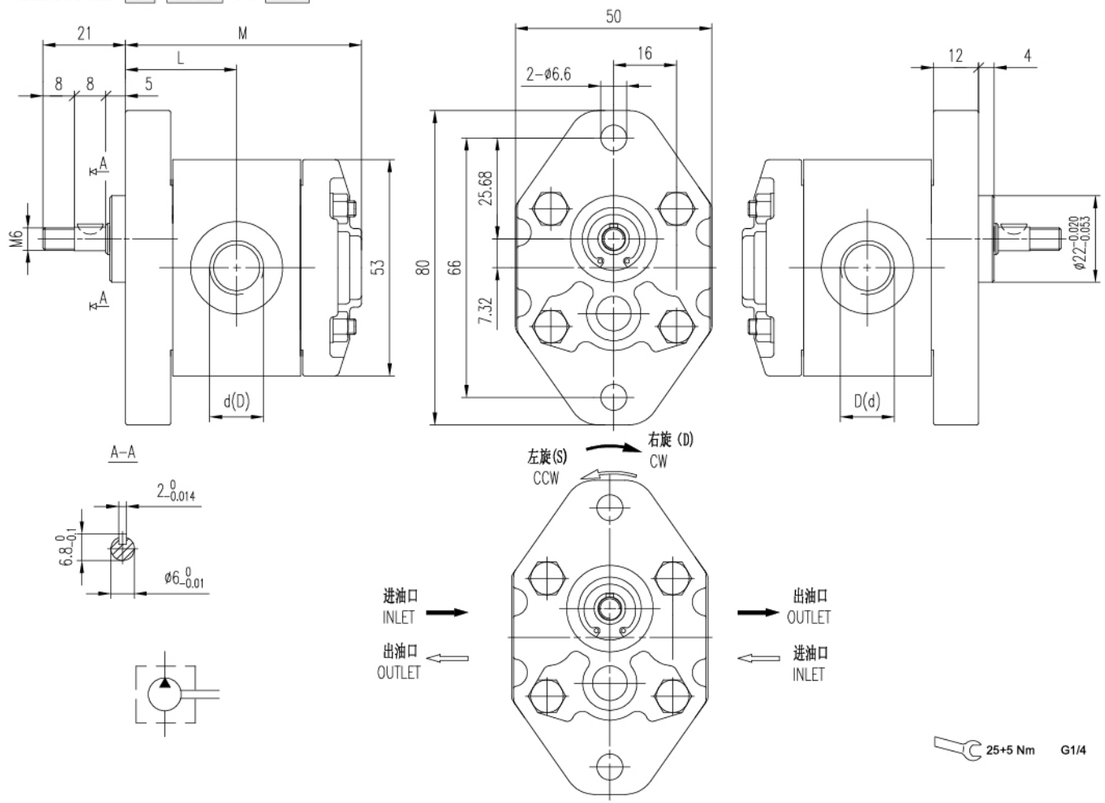




# 0.5系列/Group 0.5

## 0.5系列标准型产品尺寸/Group 0.5 Standard Product Dimensions

BKP0.5-A1-[D]-[0.19]-C0-[L2]

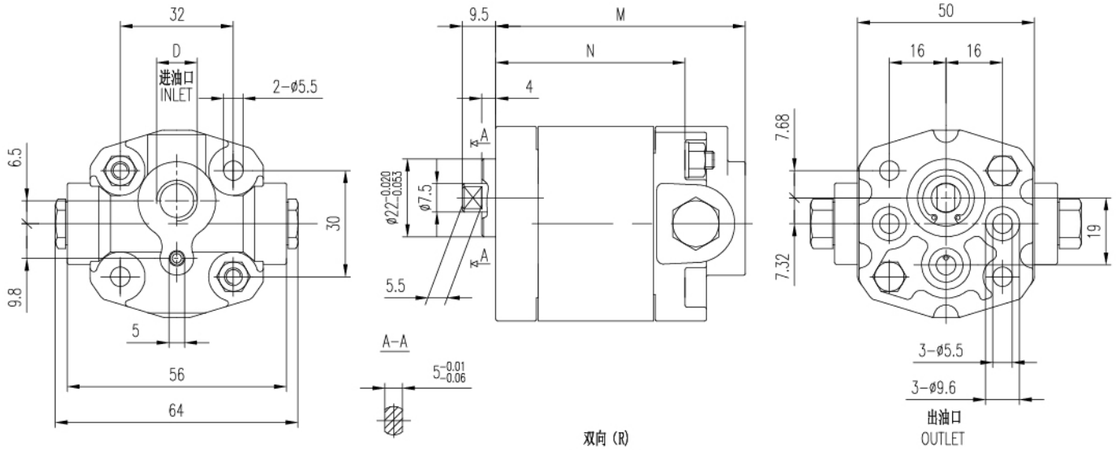


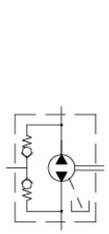

| 排量 Displacement | 最大压力 Max pressure | | | 最高转速 Max. speed | 最低转速 Min. speed | 重量 Weight | 尺寸 Dimensions | | 油口代码 Oil port code | 进油口 INLET | 出油口 OUTLET |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | P1 | P2 | P3 | | | | M | L | | D | d |
| ($cm^3$/rev) | bar | bar | bar | (r/min) | (r/min) | Kg | mm | mm | | | |
| 0.19 | 200 | 230 | 250 | 7000 | 1000 | 0.395 | 60 | 27.2 | L2 | G1/4 | G1/4 |
| 0.26 | 200 | 230 | 250 | 7000 | 1000 | 0.40 | 60.5 | 27.5 | L2 | G1/4 | G1/4 |
| 0.38 | 200 | 230 | 250 | 7000 | 1000 | 0.41 | 61.5 | 28 | L2 | G1/4 | G1/4 |
| 0.50 | 200 | 230 | 250 | 7000 | 1000 | 0.42 | 62.5 | 28.5 | L2 | G1/4 | G1/4 |
| 0.65 | 200 | 230 | 250 | 7000 | 1000 | 0.43 | 63.5 | 29 | L2 | G1/4 | G1/4 |
| 0.75 | 200 | 230 | 250 | 7000 | 1000 | 0.44 | 64.5 | 29.5 | L2 | G1/4 | G1/4 |
| 0.88 | 200 | 230 | 250 | 7000 | 1000 | 0.45 | 65.5 | 30 | L2 | G1/4 | G1/4 |
| 1.00 | 200 | 230 | 250 | 6000 | 850 | 0.46 | 66.5 | 30.5 | L2 | G1/4 | G1/4 |
| 1.25 | 200 | 230 | 250 | 5000 | 700 | 0.48 | 68.5 | 31.5 | L2 | G1/4 | G1/4 |
| 1.50 | 200 | 230 | 250 | 4000 | 600 | 0.50 | 70.5 | 32.5 | L2 | G1/4 | G1/4 |
| 1.75 | 180 | 210 | 230 | 4000 | 600 | 0.51 | 72.5 | 33.5 | L2 | G1/4 | G1/4 |
| 2.00 | 160 | 190 | 210 | 3000 | 500 | 0.52 | 74.5 | 34.5 | L2 | G1/4 | G1/4 |

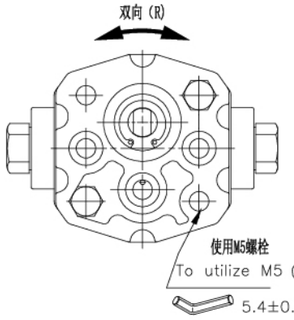
# 0.5系列/Group 0.5

## 0.5系列标准型产品尺寸/Group 0.5 Standard Product Dimensions

BKP0.5-B2-R-[0.19]-G0-X-[LJ0]-VQ2






| 排量 Displacement | 最大压力 Max pressure | | | 最高转速 Max. speed | 最低转速 Min. speed | 重量 Weight | 尺寸 Dimensions | | 油口代码 Oil port code | 进油口 INLET |
|---|---|---|---|---|---|---|---|---|---|---|
| | P1 | P2 | P3 | | | | M | L | | D |
| ($cm^3$/rev) | bar | bar | bar | (r/min) | (r/min) | Kg | mm | mm | | |
| 0.19 | 150 | 170 | 190 | 7000 | 1000 | 0.40 | 68 | 51 | LJ0 | G1/4 |
| 0.26 | 150 | 170 | 190 | 7000 | 1000 | 0.41 | 68.5 | 51.5 | LJ0 | G1/4 |
| 0.38 | 150 | 170 | 190 | 7000 | 1000 | 0.42 | 69.5 | 52.5 | LJ0 | G1/4 |
| 0.50 | 150 | 170 | 190 | 7000 | 1000 | 0.43 | 70.5 | 53.5 | LJ0 | G1/4 |
| 0.65 | 150 | 170 | 190 | 7000 | 1000 | 0.44 | 71.5 | 54.5 | LJ0 | G1/4 |
| 0.75 | 150 | 170 | 190 | 7000 | 1000 | 0.45 | 72.5 | 55.5 | LJ0 | G1/4 |
| 0.88 | 150 | 170 | 190 | 7000 | 1000 | 0.46 | 73.5 | 56.5 | LJ0 | G1/4 |
| 1.00 | 150 | 170 | 190 | 6000 | 850 | 0.47 | 74.5 | 57.5 | LJ0 | G1/4 |
| 1.25 | 150 | 170 | 190 | 5000 | 700 | 0.49 | 76.5 | 59.5 | LJ0 | G1/4 |
| 1.50 | 150 | 170 | 190 | 4000 | 600 | 0.51 | 78.5 | 61.5 | LJ0 | G1/4 |
| 1.75 | 150 | 170 | 190 | 4000 | 600 | 0.52 | 80.5 | 63.5 | LJ0 | G1/4 |
| 2.00 | 150 | 170 | 190 | 3000 | 500 | 0.53 | 82.5 | 65.5 | LJ0 | G1/4 |





# 1系列/Group 1

## 1系列选型规则/Group 1 Ordering Code Rules

| B | K | P | 1 | Q0 | D | 0.8 | G0 | X | LJ1 | 省略/omit | 省略/omit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 博顿 Boden | 材质 Material | 功能 Function | 系列 Group | 前盖 Front cover | 旋向 Rotation | 排量 Displacement | 轴伸 Shaft | 泵体油口 Ports | 特殊结构 Special structure | 可选项 Options | 其他 Other |

K 前、后盖材料为铝合金 Front and end cover material aluminum

P 泵 Pump

1 1系列 Group 1

1E 1系列斜齿 Group 1 helical tooth

D 顺时针转 Clockwise

S 逆时针转 Counter clockwise

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

特殊设计 special designing

可选项 Options

省略-温度范围在-10℃~+80℃,进油口最高绝对压力为3bar。
Omit-Range between -10℃ and +80℃,inlet pressure up to max. 3 bar absolute.

V 适用于高温介质，温度范围在-10℃~+120℃。
Version suitable for fluid at hi-temperatures, range between -10℃ and +120℃.

H 适用于低温介质，温度范围在-40℃~+80℃。
Version suitable for fluid at low-temperatures, range between -40℃ and +80℃.

N 适用于进油口最大绝对压力3~10bar。
Version suitable for inlet pressure up to max. 3 and 10 bar absolute.

如需其它特殊选项请联系本公司工程师
For other special options, please contact our engineers.

### 前盖 Front cover

Q0 带油口方形前盖(止口ϕ32mm)
Square front cover with oil port (centering ϕ32mm)

Q1 不带油口方形前盖(止口ϕ32mm)
Square front cover without oil port (centering ϕ32mm)

B0 不带油口方形前盖(止口ϕ32mm)
Square front cover without oil port (centering ϕ25.4mm)

详见 28 页
See page 28 for details

### 轴伸 Shaft

T0 锥形键槽轴 1:8
Taper shaft 1:8

G0 扁平轴
Tang shaft

G1 扁平轴
Tang shaft

详见 28 页
See page 28 for details

### 泵体油口 Ports

E_ 矩形法兰
Rectangular flange

F_ 矩形法兰
Rectangular flange

Z_ 公制螺纹 (M)
Metric thread

L_ 英制管螺纹(G)
Gas thread

U_ 美制管螺纹(UNF-2B)
UNF thread

R_ 英制锥螺纹(PT)
PT thread

N_ 美制锥螺纹(NPT)
NPT thread

X 泵体无油口
Body without ports

详见 29-30 页
See page 29-30 for details

### 特殊结构 Special structure

省略-默认普通
omit-regular

_J_ 后盖带进油口
Back cover with inlet

_C_ 后盖带出油口
Back cover with outlet

L_ 后盖带进出油口
Back cover with inlet and outlet

YF1 后盖带溢流阀
Back cover with relief valve

详见 31 页
See page 31 for details

如需其它型号请见详情页或联系本公司工程师
If you need other models, please see the details page or contact our engineers.