

T6系列单泵 T6 Series - Single Pumps

产品外观及简介

适用于塑胶机械、压铸机械、冶金机械、炼油机械、压力机械、工程机械及船舶机械等的高压高性能柱销式叶片泵。

其主要特点：

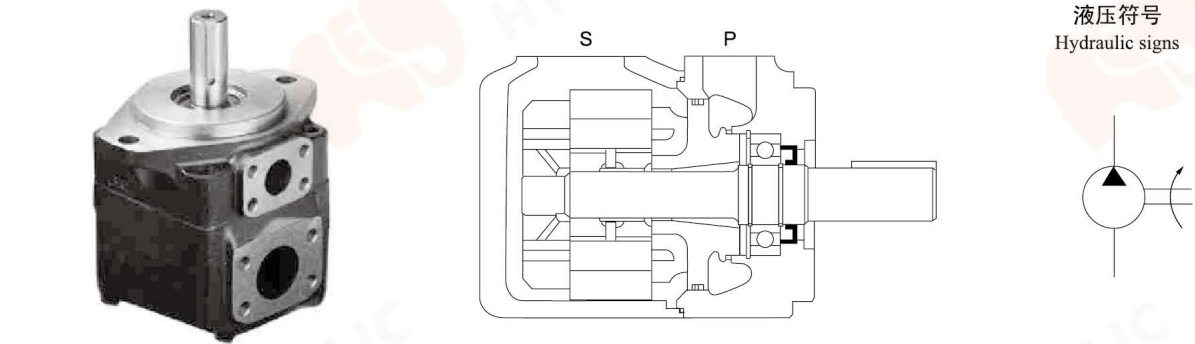
- 1、采用柱销式叶片的结构，其工作压力更高、噪声更低、寿命更长。
- 2、适应液压介质的粘度范围大，能在低温下启动和高温下运行。
- 3、采用双唇结构的叶片，抗污染能力强，转速范围宽。

Shape and introduction

High pressure and high performance dowel pin type vane pumps are widely used for plastic machinery, casting machinery, metallurgy machinery, pressing machinery, refining machinery, construction machinery, marine-Machinery.

The main features are:

- 1.With dowel pin vane structure, it can work in high pressure, low noise and long lifetime.
- 2.This vane pump can fit wide viscosity hydraulic medium and be started at low temperature and work at high temperature.
- 3.As the vane pump adopts bilabial structure vane, it has high oil polution resistance and wide speed scope.



型号说明 Model descriptions:

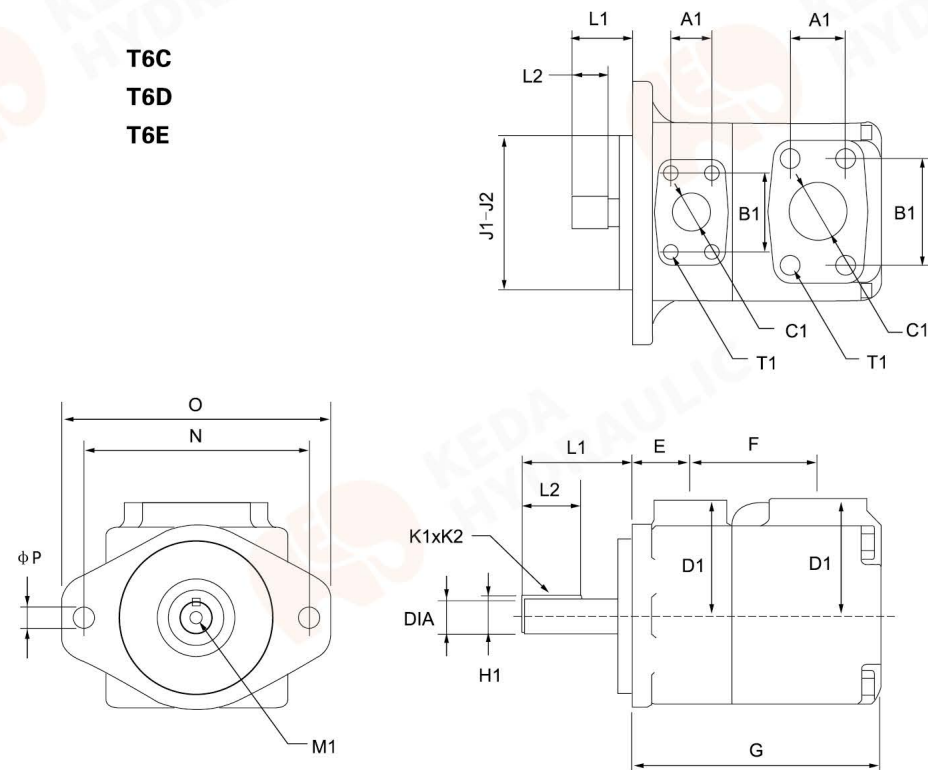
| T6C                      | -17                                    | -1                    | R                                                                                                                                             | 00                                                                                                                                                                          | -A                      | 1                                                                |
|--------------------------|----------------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------------------------------------------------|
| 系列号<br>Code<br>of series | 排量代号<br>Flow code                      | 轴伸形式<br>Shaft type    | 旋转方向<br>Direction of<br>rotation                                                                                                              | 出油口位置<br>Outlet Positions                                                                                                                                                   | 设计号<br>Designing<br>No. | 密封等级<br>Sealing Level                                            |
| T6C                      | 03、05、06、08、10、12、14、17、20、22、25、28、31 | 见轴伸尺寸<br>See of shaft | (从泵的轴端看)<br>(viewed from<br>shaft end of pump)<br>R-顺时针旋转<br>R-right hand for<br>clockwise<br>L-逆时针旋转<br>L-left hand for<br>counter clockwise | (从泵的轴端看)<br>(viewed from<br>shaft end of pump)<br>00-进油口对面<br>01-进油口同侧<br>01-Inline with inlet<br>02-从进油口逆时针90°<br>90° CCW from inlet<br>03-从进油口顺时针90°<br>90° CW from inlet | A                       | 1-S1, 丁腈橡胶<br>NBR<br>Nitrile rubber<br>5-S5, 氟橡胶<br>Fluororubber |
| T6D                      | 14、17、20、24、28、31、35、38、42、45、50、61    |                       |                                                                                                                                               |                                                                                                                                                                             |                         |                                                                  |
| T6E                      | 42、45、50、52、57、62、66、72、85             |                       |                                                                                                                                               |                                                                                                                                                                             |                         |                                                                  |

T6系列单泵 T6 Series - Single Pumps

技术参数 Technical parameters

| 系列号<br>series | 排量代号<br>Flow<br>code<br>(USgpm) | 理论排量<br>Geometric<br>displace-<br>ment<br>mL/r | 最高压力<br>Max. pressure Mpa          |                  |                                                                    |                  |                                                                    |                  | 最高转速<br>Max. speed r/min                                                          |                                                                                                               | 最低<br>转速<br>Min<br>speed<br>r/min |
|---------------|---------------------------------|------------------------------------------------|------------------------------------|------------------|--------------------------------------------------------------------|------------------|--------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-----------------------------------|
|               |                                 |                                                | 抗磨液压油<br>Antiwear hydraulic<br>oil |                  | 普通液压油和磷酸脂液<br>General hydraulic<br>oil or phosphate<br>eater fluid |                  | 水乙二醇和<br>油包水乳化液<br>Water glycol fluid<br>or water-oil<br>emulsions |                  | 普通液压油<br>和抗磨液压油<br>General<br>hydraulic<br>oil or<br>antiwear<br>hydraulic<br>oil | 水乙二醇、磷<br>酸脂液和油包<br>水乳化液<br>Water glycol<br>fluid or<br>phosphate<br>eater fluid<br>or water-oil<br>emulsions |                                   |
|               |                                 |                                                | 间歇<br>Instant                      | 连续<br>Continuous | 间歇<br>Instant                                                      | 连续<br>Continuous | 间歇<br>Instant                                                      | 连续<br>Continuous |                                                                                   |                                                                                                               |                                   |
| T6C           | 03                              | 10. 8                                          | 28                                 | 24. 5            | 21                                                                 | 17. 5            | 17. 5                                                              | 14               | 2800                                                                              | 1800                                                                                                          | 600                               |
|               | 05                              | 17. 2                                          |                                    |                  |                                                                    |                  |                                                                    |                  |                                                                                   |                                                                                                               |                                   |
|               | 06                              | 21. 3                                          |                                    |                  |                                                                    |                  |                                                                    |                  |                                                                                   |                                                                                                               |                                   |
|               | 08                              | 26. 4                                          |                                    |                  |                                                                    |                  |                                                                    |                  |                                                                                   |                                                                                                               |                                   |
|               | 10                              | 34. 1                                          |                                    |                  |                                                                    |                  |                                                                    |                  |                                                                                   |                                                                                                               |                                   |
|               | 12                              | 37. 1                                          |                                    |                  |                                                                    |                  |                                                                    |                  |                                                                                   |                                                                                                               |                                   |
|               | 14                              | 46. 0                                          |                                    |                  |                                                                    |                  |                                                                    |                  |                                                                                   |                                                                                                               |                                   |
|               | 17                              | 58. 3                                          |                                    |                  |                                                                    |                  |                                                                    |                  |                                                                                   |                                                                                                               |                                   |
|               | 20                              | 63. 8                                          |                                    |                  |                                                                    |                  |                                                                    |                  |                                                                                   |                                                                                                               |                                   |
|               | 22                              | 70. 3                                          |                                    |                  |                                                                    |                  |                                                                    |                  |                                                                                   |                                                                                                               |                                   |
|               | 25                              | 79. 3                                          |                                    |                  |                                                                    |                  |                                                                    |                  |                                                                                   |                                                                                                               |                                   |
|               | 28                              | 88. 8                                          | 21                                 | 16               | 16                                                                 | 2500             |                                                                    |                  |                                                                                   |                                                                                                               |                                   |
| 31            | 100. 0                          |                                                |                                    |                  |                                                                    |                  |                                                                    |                  |                                                                                   |                                                                                                               |                                   |
| T6D           | 14                              | 47. 6                                          | 24. 5                              | 21               | 21                                                                 | 17. 5            | 17. 5                                                              | 14               | 2500                                                                              | 1800                                                                                                          | 600                               |
|               | 17                              | 58. 2                                          |                                    |                  |                                                                    |                  |                                                                    |                  |                                                                                   |                                                                                                               |                                   |
|               | 20                              | 66. 0                                          |                                    |                  |                                                                    |                  |                                                                    |                  |                                                                                   |                                                                                                               |                                   |
|               | 24                              | 79. 5                                          |                                    |                  |                                                                    |                  |                                                                    |                  |                                                                                   |                                                                                                               |                                   |
|               | 28                              | 89. 7                                          |                                    |                  |                                                                    |                  |                                                                    |                  |                                                                                   |                                                                                                               |                                   |
|               | 31                              | 98. 3                                          |                                    |                  |                                                                    |                  |                                                                    |                  |                                                                                   |                                                                                                               |                                   |
|               | 35                              | 111. 0                                         |                                    |                  |                                                                    |                  |                                                                    |                  |                                                                                   |                                                                                                               |                                   |
|               | 38                              | 120. 3                                         |                                    |                  |                                                                    |                  |                                                                    |                  |                                                                                   |                                                                                                               |                                   |
|               | 42                              | 136. 0                                         |                                    |                  |                                                                    |                  |                                                                    |                  |                                                                                   |                                                                                                               |                                   |
|               | 45                              | 145. 7                                         |                                    |                  |                                                                    |                  |                                                                    |                  |                                                                                   |                                                                                                               |                                   |
|               | 50                              | 158. 0                                         | 21                                 | 16               | 16                                                                 | 2200             |                                                                    |                  |                                                                                   |                                                                                                               |                                   |
|               | 61                              | 190. 5                                         |                                    |                  |                                                                    |                  | 12                                                                 | 8                | 8                                                                                 | 8                                                                                                             |                                   |
| T6E           | 42                              | 132. 3                                         | 24. 5                              | 21               | 21                                                                 | 17. 5            | 17. 5                                                              | 14               | 2200                                                                              | 1800                                                                                                          | 600                               |
|               | 45                              | 142. 4                                         |                                    |                  |                                                                    |                  |                                                                    |                  |                                                                                   |                                                                                                               |                                   |
|               | 50                              | 158. 5                                         |                                    |                  |                                                                    |                  |                                                                    |                  |                                                                                   |                                                                                                               |                                   |
|               | 52                              | 164. 8                                         |                                    |                  |                                                                    |                  |                                                                    |                  |                                                                                   |                                                                                                               |                                   |
|               | 57                              | 179. 8                                         |                                    |                  |                                                                    |                  |                                                                    |                  |                                                                                   |                                                                                                               |                                   |
|               | 62                              | 196. 7                                         |                                    |                  |                                                                    |                  |                                                                    |                  |                                                                                   |                                                                                                               |                                   |
|               | 66                              | 213. 3                                         |                                    |                  |                                                                    |                  |                                                                    |                  |                                                                                   |                                                                                                               |                                   |
|               | 72                              | 227. 1                                         |                                    |                  |                                                                    |                  |                                                                    |                  |                                                                                   |                                                                                                               |                                   |
|               | 85                              | 269. 0                                         | 9                                  | 7. 5             | 7. 5                                                               | 7. 5             | 7. 5                                                               | 7. 5             | 2000                                                                              |                                                                                                               |                                   |

## 安装连接尺寸 Installation Dimensions



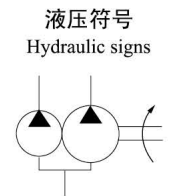
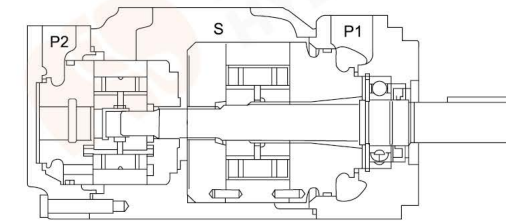
| T6C     |        |        |
|---------|--------|--------|
| E       | 38.1   |        |
| F       | 82.3   |        |
| G       | 161.6  |        |
| J1      | 101.60 |        |
| J2      | 101.55 |        |
| N       | 146.1  |        |
| O       | 174.5  |        |
| ϕP      | 14.3   |        |
| T6D T6E |        |        |
| E       | 38.1   | 52.3   |
| F       | 87.4   | 110.0  |
| G       | 184.9  | 225.3  |
| J1      | 127.00 | 127.00 |
| J2      | 126.95 | 126.95 |
| N       | 181.0  | 181.0  |
| O       | 212.4  | 213.0  |
| ϕP      | 17.5   | 17.5   |

| 型号<br>Model | 轴伸代号<br>Shaft code | 最大扭矩<br>Max torque<br>(N. m) | L1   | L2   | DIA                         | K1xK2     | H1    | M1     |
|-------------|--------------------|------------------------------|------|------|-----------------------------|-----------|-------|--------|
| T6C         | 1                  | 275                          | 71.4 | 38.1 | 22.225/22.200               | 6.35x6.30 | 24.95 | M8x16  |
|             | 2                  | 238                          | 58.2 | 31.7 | 22.225/22.200               | 4.76x4.71 | 24.53 | —      |
|             | 3                  | 343                          | 40.7 | 24.5 | SAE J498b 1级, 径节 16/32, 13牙 |           |       | —      |
|             | 4                  | ●                            | 45.5 | 24.5 | SAE J498b 1级, 径节 16/32, 15牙 |           |       | —      |
| T6D         | 1                  | ●                            | 83.6 | 49.3 | 31.750-31.700               | 7.94x7.89 | 35.27 | M10x20 |
|             | 2                  | 577                          | 73.2 | 38.1 | 31.750-31.700               | 7.94x7.89 | 35.27 | —      |
|             | 3                  | ●                            | 55.2 | 38.0 | SAE J498b 1级, 径节 12/24, 14牙 |           |       | —      |
|             | 4                  | ●                            | 77.7 | 48.0 | SAE J498b 1级, 径节 12/24, 14牙 |           |       | —      |
| T6E         | 1                  | ●                            | 90.9 | 50.8 | 38.100-38.050               | 9.52x9.47 | 42.36 | M10x20 |
|             | 2                  | 577                          | 61.9 | 38.1 | 31.750-31.700               | 7.94x7.89 | 35.27 | —      |
|             | 3                  | ●                            | 55.2 | 38.0 | SAE J498b 1级, 径节 12/24, 14牙 |           |       | —      |
|             | 4                  | ●                            | 62.2 | 31.5 | SAE J498b 1级, 径节 12/24, 17牙 |           |       | —      |

●能在最大流量, 最高压力下工作。 ●work at maximum flow and pressure.

| 油口/oil port |   |        | 法兰<br>Flange | 安装尺寸/Install Dimensions (mm) |       |      |      |                  |
|-------------|---|--------|--------------|------------------------------|-------|------|------|------------------|
|             |   |        |              | A1                           | B1    | ϕC1  | D1   | T1口螺纹 Thread     |
| T6C         | P | 1"     | F08          | 26.2                         | 52.4  | 25.4 | 76.2 | 3/8"-16UNCx19.0  |
|             | S | 1-1/2" | F12          | 35.8                         | 70.0  | 38.1 | 76.2 | 1/2"-13UNCx22.4  |
| T6D         | P | 1-1/4" | F10          | 30.2                         | 58.7  | 31.8 | 82.6 | 7/16"-14UNCx22.3 |
|             | S | 2"     | F16          | 42.9                         | 77.8  | 50.8 | 82.6 | 1/2"-13UNCx23.9  |
| T6E         | P | 1-1/2" | F12          | 35.7                         | 69.8  | 37.1 | 98.6 | 1/2"-13UNCx23.4  |
|             | S | 3"     | F24          | 61.9                         | 103.4 | 75.0 | 98.6 | 5/8"-11UNCx24.0  |

## T6系列双联泵 T6 Series - Double Pumps



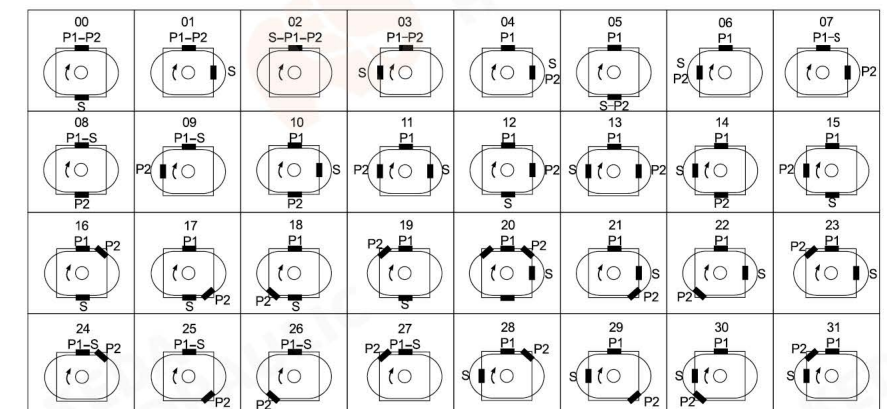
### 型号说明 Model descriptions:

| T6CC          | -25                                            | -17                                            | -1                    | R                                                                                                                                                | 02                                 | -C                      | 1                                                                    | 10                                                        |
|---------------|------------------------------------------------|------------------------------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-------------------------|----------------------------------------------------------------------|-----------------------------------------------------------|
| 系列号<br>Series | 轴端泵排量代号<br>Flow-shaft and<br>Pump              | 盖端泵排量代号<br>Flow-cover end<br>Pump              | 轴伸形式<br>Shaft type    | 旋转方向<br>Rotation                                                                                                                                 | 油口位置<br>port<br>Positions          | 设计号<br>Design<br>number | 密封等级<br>Sealing Level                                                | 油口尺寸<br>Port dimensions                                   |
| T6CC          | 03、05、06、08、<br>10、12、14、17、<br>20、22、25、28、31 | 03、05、06、08、<br>10、12、14、17、<br>20、22、25、28、31 | 见轴伸尺寸<br>See of shaft | (从泵的轴端看)<br>(viewed from<br>shaft end of<br>pump)<br>R-顺时针旋转<br>right hand<br>for clockwise<br>L-逆时针旋转<br>left hand for<br>counter-<br>clockwise | 见下图<br><br>see<br>picturs<br>below | C                       | 1-S1, 丁腈橡胶<br>NBR<br>Nitrile rubber<br><br>5-S5, 氟橡胶<br>Fluororubber | 00、01、10、11,<br>见安装连接尺寸<br>See installation<br>dimensions |
| T6DC          | 14、17、20、24、<br>28、31、35、38、<br>42、45、50、61    | 03、05、06、08、<br>10、12、14、17、<br>20、22、25、28、31 |                       | 无此选项<br>no options                                                                                                                               |                                    |                         |                                                                      |                                                           |
| T6EC          | 42、45、50、52、<br>57、62、66、72、85                 | 03、05、06、08、<br>10、12、14、17、<br>20、22、25、28、31 |                       |                                                                                                                                                  |                                    |                         |                                                                      |                                                           |
| T6ED          | 42、45、50、52、<br>57、62、66、72、85                 | 14、17、20、24、<br>28、31、35、38、<br>42、45、50、61    |                       |                                                                                                                                                  |                                    |                         |                                                                      |                                                           |

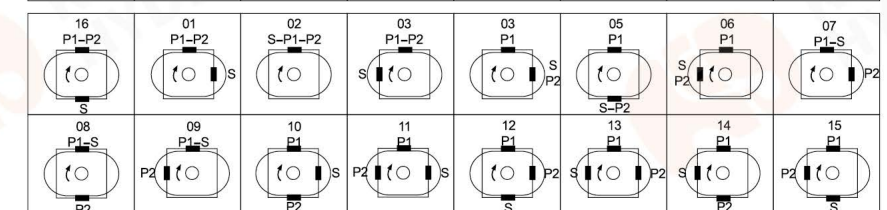
与相同规格的单泵性能参数一致, 详见T6单泵的性能参数。  
Specification is as the same as similar single purmp, please refer to Page T6 single pump specification.

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

#### T6CC、T6DC、T6EC



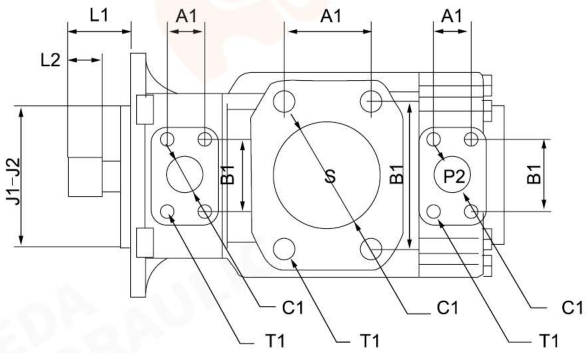
#### T6ED





安装连接尺寸 Installation Dimensions

T6CC  
T6DC  
T6EC  
T6ED

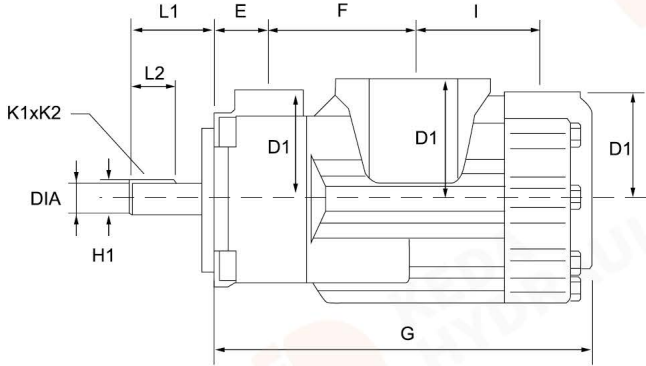
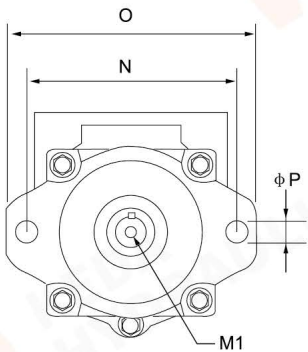


| T6CC |        |
|------|--------|
| E    | 38.1   |
| F    | 101.6  |
| G    | 265.6  |
| 1    | 88.2   |
| J1   | 101.60 |
| J2   | 101.55 |
| N    | 148.0  |
| O    | 174.5  |
| φP   | 14.3   |

| T6DC |        |
|------|--------|
| E    | 38.1   |
| F    | 114.3  |
| G    | 286.0  |
| 1    | 109.5  |
| J1   | 127.00 |
| J2   | 126.95 |
| N    | 181.0  |
| O    | 215.4  |
| φP   | 17.5   |

| T6EC |        |
|------|--------|
| E    | 52.3   |
| F    | 118.5  |
| G    | 331.6  |
| 1    | 136.7  |
| J1   | 127.00 |
| J2   | 126.95 |
| N    | 161.0  |
| O    | 213.0  |
| φP   | 17.5   |

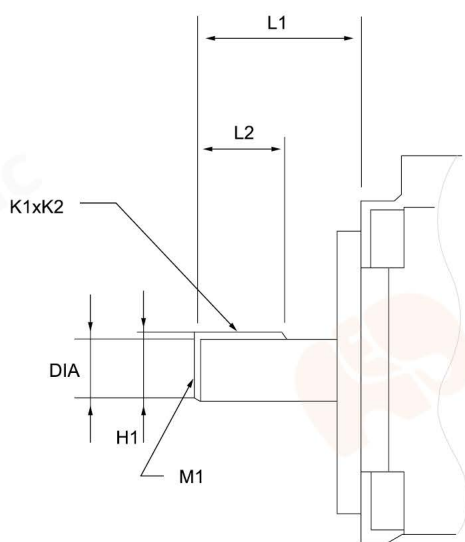
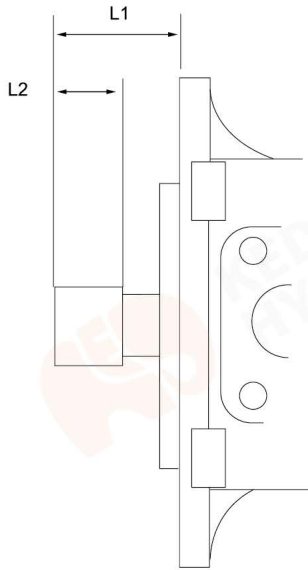
| T6ED |        |
|------|--------|
| E    | 52.3   |
| F    | 133.5  |
| G    | 361.0  |
| 1    | 148.0  |
| J1   | 127.00 |
| J2   | 126.95 |
| N    | 181.0  |
| O    | 213.0  |
| φP   | 17.5   |



| 油口/oil port |    |                        | 法兰<br>Flange | 尺寸/Dimensions (mm) |       |       |       |                      |
|-------------|----|------------------------|--------------|--------------------|-------|-------|-------|----------------------|
|             |    |                        |              | A1                 | B1    | φC1   | D1    | T1 口螺纹 Thread<br>UNC |
| T6CC        | P1 | 1"                     | F08          | 26.2               | 52.4  | 25.4  | 76.2  | 3/8"-16UNCx19.0      |
|             | P2 | 01-11:3/4"<br>00-10:1" | F06          | 22.2               | 47.7  | 19.0  | 76.2  | 3/8"-16UNCx19.0      |
|             | S  | 10-11:2-1/2"           | F20          | 50.8               | 88.9  | 63.5  | 84.1  | 1/2"-13UNCx23.9      |
|             |    | 00-01:3"               | F24          | 61.9               | 106.4 | 76.2  |       | 5/8"-11UNCx28.4      |
| T6DC        | P1 | 1-1/4"                 | F10          | 30.2               | 58.7  | 31.8  | 82.6  | 7/16"-14UNCx22.3     |
|             | P2 | 1"                     | F08          | 26.2               | 52.4  | 25.0  | 74.7  | 3/8"-16UNCx19.0      |
|             | S  | 3"                     | F24          | 62.0               | 106.4 | 76.0  | 88.9  | 5/8"-11UNCx28.4      |
| T6EC        | P1 | 1-1/2"                 | F12          | 35.7               | 69.8  | 37.1  | 98.4  | 1/2"-13UNCx23.4      |
|             | P2 | 1"                     | F08          | 26.2               | 52.4  | 25.0  | 74.7  | 3/8"-16UNCx19.0      |
|             | S  | 3-1/2"                 | F28          | 69.9               | 120.6 | 88.9  | 102.4 | 5/8"-11UNCx28.4      |
| T6ED        | P1 | 1-1/2"                 | F12          | 35.7               | 69.8  | 37.1  | 98.4  | 1/2"-13UNCx23.4      |
|             | P2 | 1-1/4"                 | F10          | 30.2               | 58.7  | 29.5  | 101.6 | 7/16"-14UNCx24.0     |
|             | S  | 4"                     | F32          | 77.8               | 130.2 | 101.6 | 102.4 | 5/8"-11UNCx30.0      |

安装连接尺寸 Installation Dimensions

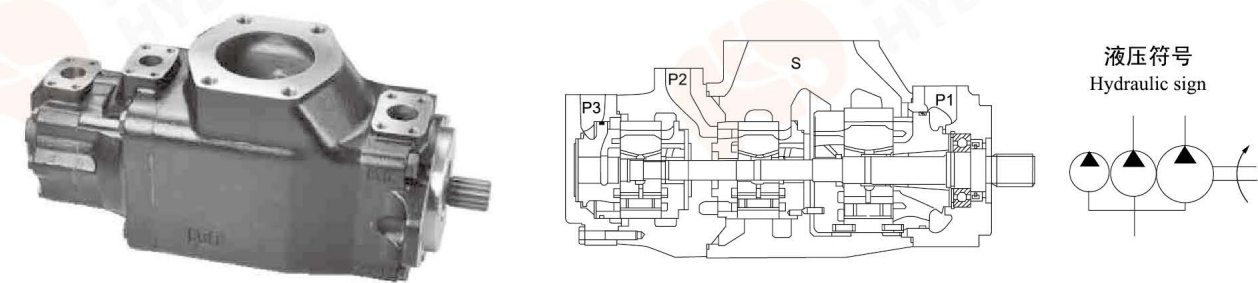
T6CC、T6DC、T6EC、T6ED



| 型号<br>Model | 轴伸代号<br>Shaft code | 最大扭矩<br>Max torque<br>(N. m) | L1   | L2   | DIA                         | K1xK2     | H1    | M1     |
|-------------|--------------------|------------------------------|------|------|-----------------------------|-----------|-------|--------|
| T6CC        | 1                  | 238                          | 58.2 | 31.7 | 22.225/22.200               | 4.76x4.71 | 24.53 | —      |
|             | 2                  | 357                          | 71.4 | 38.1 | 25.4/25.370                 | 6.35x6.30 | 28.22 | M8x16  |
|             | 3                  | 545                          | 45.5 | 25.5 | SAE J498b 1级, 径节 16/32, 15牙 |           |       | —      |
|             | 4                  | 343                          | 40.7 | 24.5 | SAE J498b 1级, 径节 16/32, 13牙 |           |       | —      |
| T6DC        | 1                  | 721                          | 83.6 | 49.3 | 31.750-31.700               | 7.94x7.89 | 35.27 | M10x20 |
|             | 2                  | 577                          | 73.2 | 38.1 | 31.750-31.700               | 7.94x7.89 | 35.27 | —      |
|             | 3                  | ●                            | 55.7 | 38.0 | SAE J498b 1级, 径节 12/24, 14牙 |           |       | —      |
|             | 4                  | ●                            | 77.7 | 48.0 | SAE J498b 1级, 径节 12/24, 14牙 |           |       | —      |
| T6EC、T6ED   | 1                  | ●                            | 90.9 | 50.8 | 38.100-38.050               | 9.52x9.47 | 42.36 | M10x20 |
|             | 2                  | 577                          | 61.9 | 38.1 | 31.750-31.700               | 7.94x7.89 | 35.27 | —      |
|             | 3                  | ●                            | 55.7 | 38.0 | SAE J498b 1级, 径节 12/24, 14牙 |           |       | —      |
|             | 4                  | ●                            | 62.2 | 31.5 | SAE J498b 1级, 径节 12/24, 17牙 |           |       | —      |

●能在最大流量, 最高压力下工作。 ●work at maximum flow and pressure.

T6系列三联泵 T6 Series - Treble Pumps

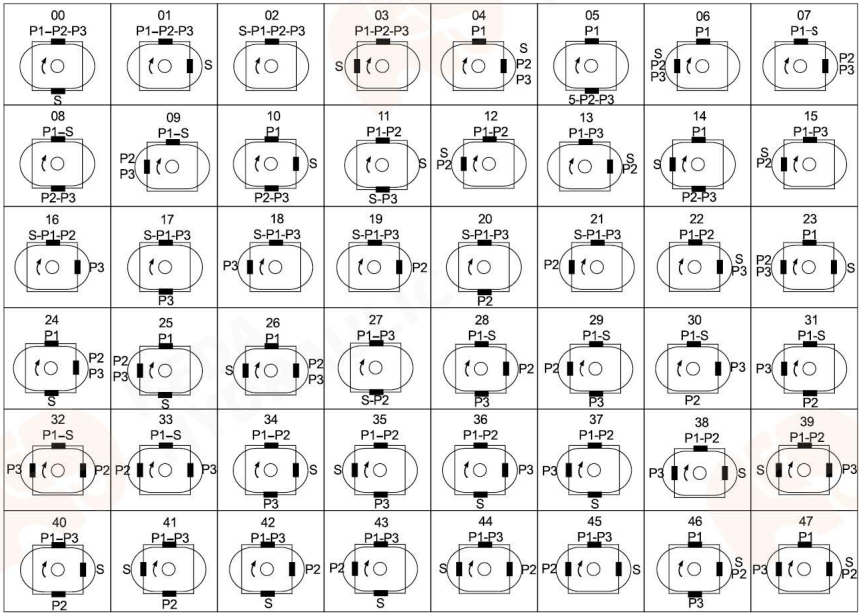


型号说明 Model descriptions:

| T6DCC           | -42                                         | -17                                                | -10                                                | -1                        | R                                                                                                                                | 02                        | -A                    | 1                                                                          | 01                                                   |
|-----------------|---------------------------------------------|----------------------------------------------------|----------------------------------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------------------|----------------------------------------------------------------------------|------------------------------------------------------|
| 系列号<br>Series   | 轴端泵排量代号<br>Flow-shaft and Pump              | 中间泵排量代号<br>Flow-middle Pump                        | 盖端泵排量代号<br>Flow-cover end Pump                     | 轴伸形式<br>Shaft type        | 旋转方向<br>Rotation                                                                                                                 | 油口位置<br>port Positions    | 设计号<br>Design unumber | 密封等级<br>Sealing Level                                                      | 油口尺寸<br>Port dimensions                              |
| T6DCC           | 14、17、20、24、<br>28、31、35、38、<br>42、45、50、61 | 03、05、06、<br>08、10、12、<br>14、17、20、<br>22、25、28、31 | 03、05、06、08、<br>10、12、14、17、<br>20、22、25、28、<br>31 | 见轴伸<br>尺寸<br>See of shaft | (从泵的轴端看)<br>(viewed from shaft end of pump)<br>R-顺时针旋转<br>right hand for clockwise<br>L-逆时针旋转<br>left hand for counter-clockwise | 见下图<br>see pictures below | A                     | 1-S1,<br>丁腈橡胶<br>NBR<br>Nitrile rubber<br><br>5-S5,<br>氟橡胶<br>Fluororubber | 00、01,<br>见安装连接<br>尺寸<br>See installation dimensions |
| T6DDCS          | 14、17、20、24、<br>28、31、35、38、<br>42、45、50、61 | 14、17、20、<br>24、28、31、<br>35、38、42<br>45、50、61     | 03、05、06、08、<br>10、12、14、17、<br>20、22、25、28、<br>31 |                           |                                                                                                                                  |                           |                       |                                                                            |                                                      |
| T6EDC<br>T6EDCS | 42、45、50、52、<br>57、62、66、72、<br>85          | 14、17、20、<br>24、28、31、<br>35、38、42<br>45、50、61     | 03、05、06、08、<br>10、12、14、17、<br>20、22、25、28、<br>31 |                           |                                                                                                                                  |                           |                       |                                                                            |                                                      |

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

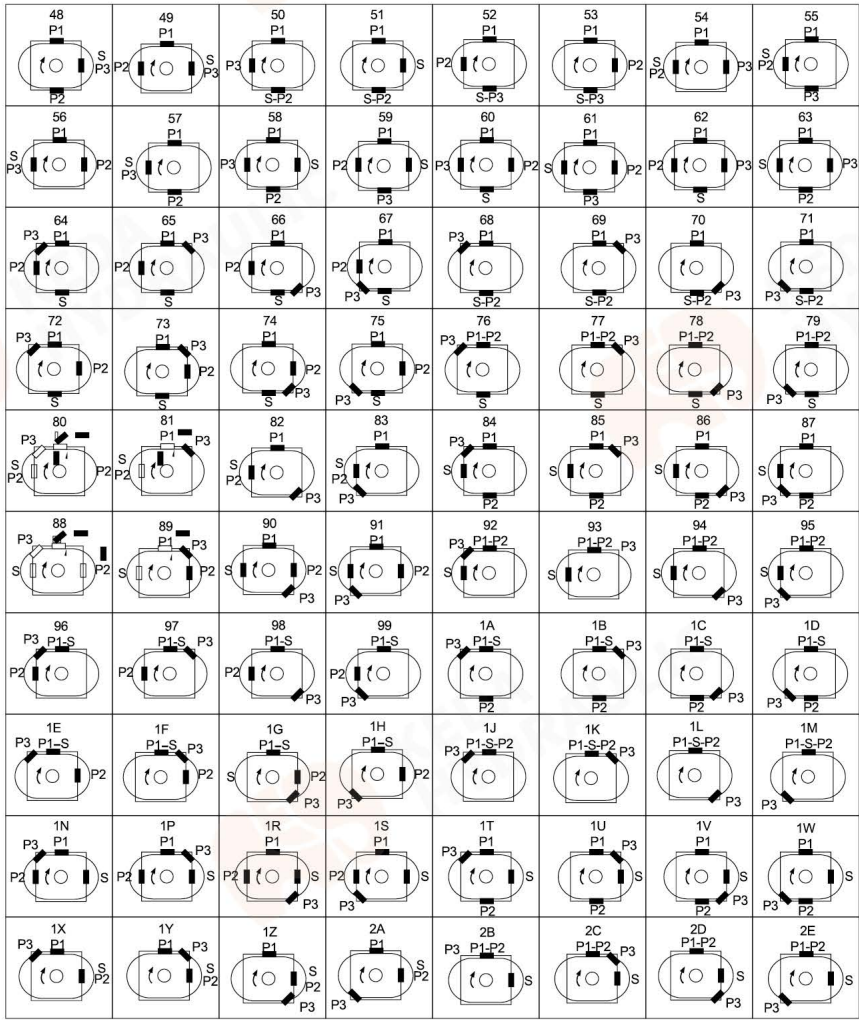
T6DCC、T6DDCS、  
T6EDC、T6EDCS



T6系列三联泵 T6 Series - Treble Pumps

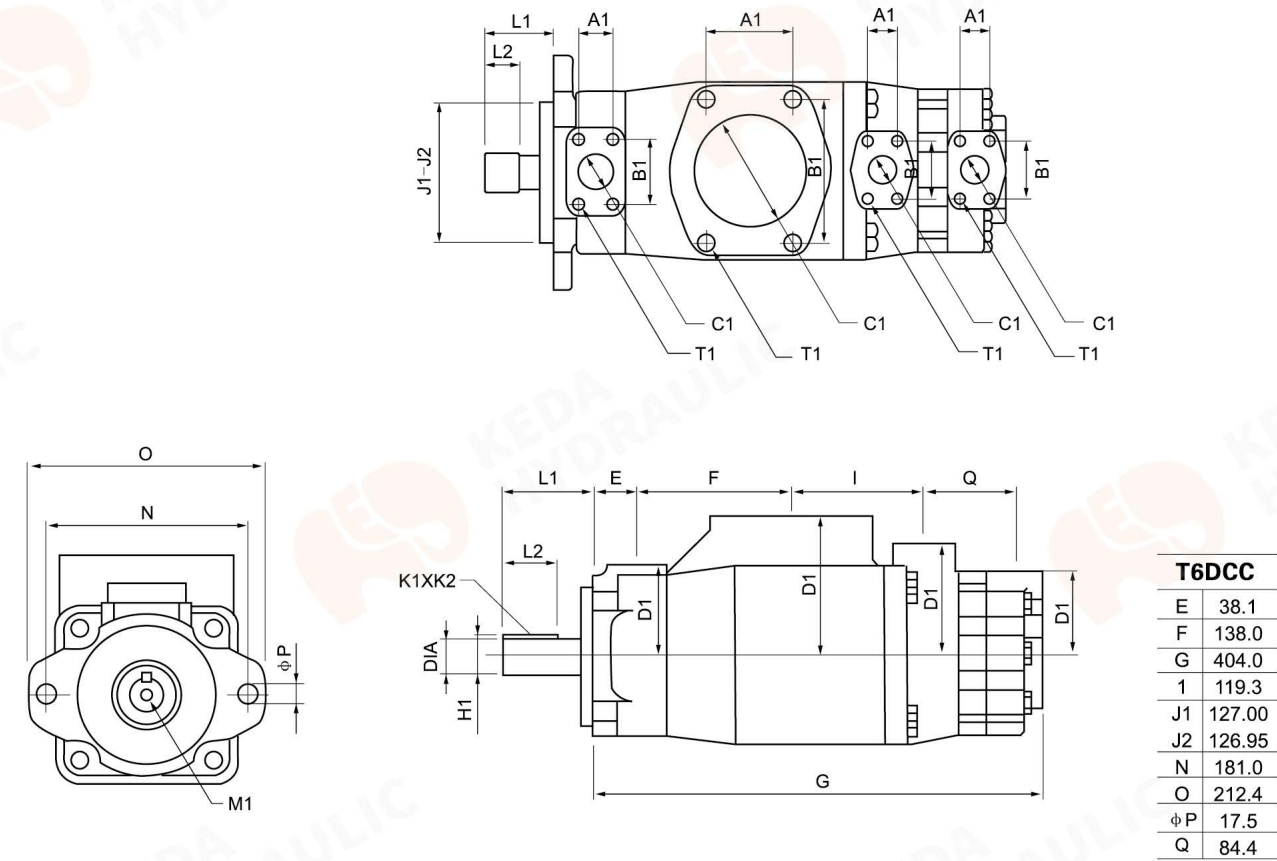
油口位置（从泵的轴端看） Port positions(Viewes from shaft end of pump)

T6DCC、T6DDCS、  
T6EDC、T6EDCS





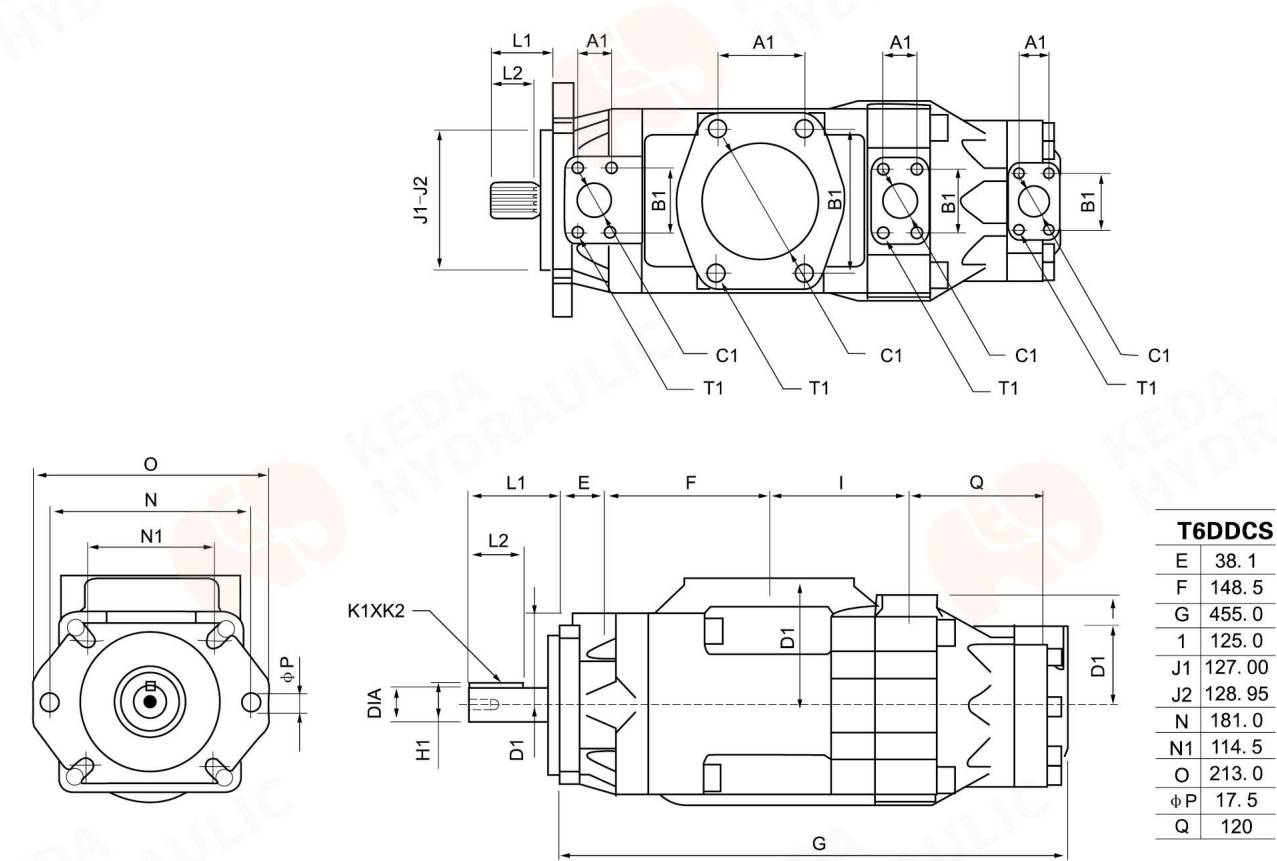
安装连接尺寸 Installation Dimensions



| 轴伸<br>Shaft code  | 最大扭矩<br>Max torque (N. m) | 尺寸/Dimensions (mm) |      |      |                             |           |      |
|-------------------|---------------------------|--------------------|------|------|-----------------------------|-----------|------|
|                   |                           | T6DCC              | L1   | L2   | DIA                         | K1xK2     | M1   |
| 1 平键:No SAE (ϕ31) | 721                       |                    | 83.6 | 49.3 | 31.750-31.700               | 6.35x6.30 | 34.6 |
| 2 平键:SAE CC (ϕ38) | 1108                      |                    | 89.7 | 50.8 | 38.100-38.075               | 9.52x9.47 | 42.4 |
| 3 花键:SAE C        | ●                         |                    | 55.2 | 38.0 | SAE J498b 1级, 径节 12/24, 14牙 |           |      |
| 4 花键:SAE C        | ●                         |                    | 61.0 | 31.5 | SAE J498b 1级, 径节 12/24, 17牙 |           |      |
| 6 花键:No SAE       | ●                         |                    | 76.0 | 48.0 | SAE J498b 1级, 径节 12/24, 14牙 |           |      |

| 油口/oil port |    |                  | 尺寸/Dimensions (mm) |              |              |       |                   |
|-------------|----|------------------|--------------------|--------------|--------------|-------|-------------------|
|             |    |                  | A1                 | B1           | ϕC1          | D1    | T1 口螺纹 Thread UNC |
| T6DCC       | P1 | 1-1/4"           | 30.2               | 58.7         | 31.8         | 82.6  | 7/16"-14UNCx22.3  |
|             | P2 | 1"               | 26.2               | 52.4         | 25.0         | 101.6 | 3/8"-16UNCx19.0   |
|             | P3 | 01:3/4"<br>00:1" | 22.2<br>26.2       | 47.7<br>52.4 | 19.2<br>25.4 | 74.7  | 3/8"-16UNCx19.0   |
|             | S  | 4"               | 77.8               | 130.2        | 101.6        | 127.0 | 5/8"-11UNCx30.0   |

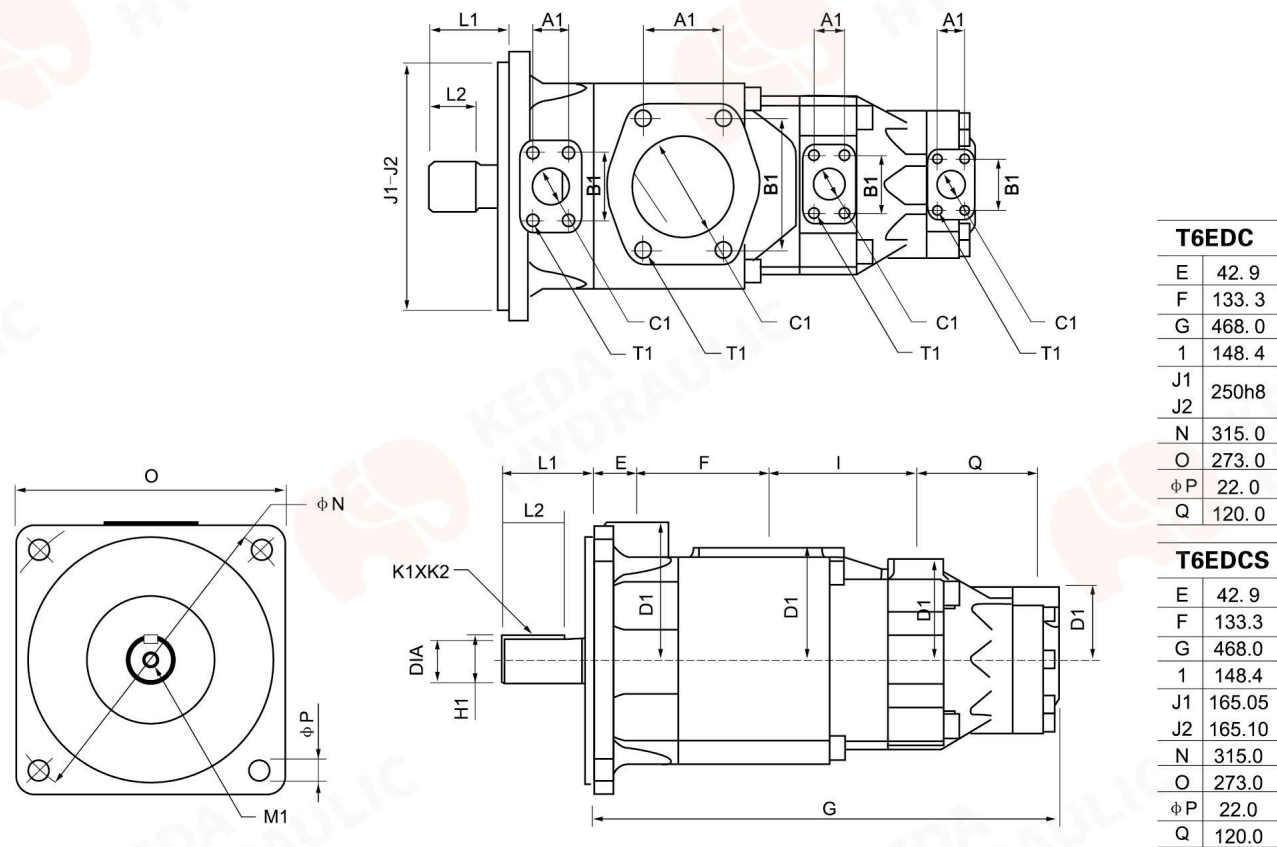
安装连接尺寸 Installation Dimensions



| 轴伸<br>Shaft code | 最大扭矩<br>Max torque (N. m) | 尺寸/Dimensions (mm) |      |      |                             |           |       |
|------------------|---------------------------|--------------------|------|------|-----------------------------|-----------|-------|
|                  |                           | T6DDCS             | L1   | L2   | DIA                         | K1xK2     | M1    |
| 1 平键:SAE-C       | 686                       |                    | 84.0 | 49.3 | 31.750-31.700               | 7.94x7.89 | 35.27 |
| 2 平键:SAE-CC      | 1148                      |                    | 91.0 | 50.8 | 38.100-38.075               | 9.52x9.47 | 42.36 |
| 3 花键:非SAE        | 883                       |                    | 84.0 | 60.0 | 34.900-34.850               | 7.94x7.89 | 38.42 |
| 4 花键:SAE-C       | 971                       |                    | 56.0 | 38.0 | SAE J498b 1级, 径节 12/24, 14牙 |           |       |
| 6 花键:SAE-CC      | ●                         |                    | 46.0 | 31.5 | SAE J498b 1级, 径节 12/24, 17牙 |           |       |

| 油口/oil port |    |                  | 尺寸/Dimensions (mm) |              |              |       |                   |
|-------------|----|------------------|--------------------|--------------|--------------|-------|-------------------|
|             |    |                  | A1                 | B1           | ϕC1          | D1    | T1 口螺纹 Thread UNC |
| T6DDCS      | P1 | 1-1/4"           | 30.2               | 58.7         | 31.8         | 82.6  | 7/16"-14UNCx22.3  |
|             | P2 | 1-1/4"           | 30.2               | 58.7         | 31.8         | 101.6 | 3/8"-14UNCx24.0   |
|             | P3 | 01:3/4"<br>00:1" | 22.2<br>26.2       | 47.7<br>52.4 | 19.0<br>25.4 | 74.7  | 3/8"-16UNCx19.0   |
|             | S  | 4"               | 77.8               | 130.2        | 101.6        | 115.0 | 5/8"-11UNCx30.0   |

安装连接尺寸 Installation Dimenslons



| 轴伸<br>Shaft code |                 | 最大扭矩<br>Max torque (N. m) |        | 尺寸/Dimensions (mm) |      |                             |             |      |              |
|------------------|-----------------|---------------------------|--------|--------------------|------|-----------------------------|-------------|------|--------------|
|                  |                 | T6EDC                     | T6EDCS | L1                 | L2   | DLA                         | K1xK2       | H1   | M1           |
| 1                | 平键:No SAE (Φ31) | ●                         | ●      | 92.0               | 63.0 | 45h7                        | 45h7        | 48.5 | M12x24.0     |
| 2                | 平键:SAE CC (Φ38) |                           | ●      | 100.0              | 63.5 | 44.450—44.400               | 11.11x11.06 | 49.3 | 1/2″UNCx24.0 |
| 3                | 花键:SAE C        |                           | ●      | 75.0               | 75.0 | SAE J498b 1级, 径节 12/24, 14牙 |             |      |              |

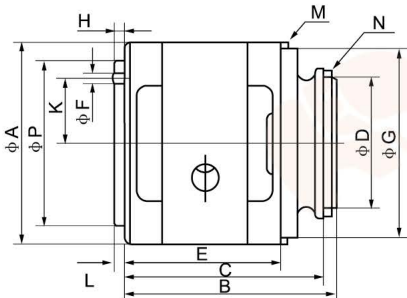
| 油口/oil port     |    |         | 尺寸/Dimensions (mm) |       |       |       |                  |
|-----------------|----|---------|--------------------|-------|-------|-------|------------------|
|                 |    |         | A1                 | B1    | ΦC1   | D1    | T1 口螺纹 Thread    |
| T6EDS<br>T6EDCS | P1 | 1-1/2"  | 35.7               | 69.8  | 37.1  | 139.7 | 1/2"-13UNCx30.0  |
|                 | P2 | 1/4"    | 30.2               | 58.7  | 31.8  | 101.6 | 7/16"-14UNCx24.0 |
|                 | P3 | 01:3/4" | 22.2               | 47.7  | 19.0  | 74.7  | 3/8"-16UNCx19.0  |
|                 |    | 00:1"   | 26.2               | 52.4  | 25.4  |       |                  |
|                 | S  | 4"      | 77.8               | 130.2 | 101.8 | 115.0 | 5/8"-11UNCx30.0  |

T6系列泵芯 T6 Series - cartridge

型号说明 Model Descriptions:

| 前泵芯<br>泵芯名称<br>Cartridge name                                                                                                                                                                                                                   | T6DC<br>系列号<br>Series                             | -45<br>排量代号<br>Flow code                       | R<br>旋转方向<br>Rototion                                                                                                                | 1<br>密封等级<br>Sealing Level                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| 单泵芯/Cartridge kit of single pump<br>前泵芯 (双联泵或三联泵轴端泵芯)<br>Cartridge kit of double pump treble pump shaft end<br>中泵芯 (三联泵中间轴泵芯)<br>Medium cartridge kit of treble pump<br>后泵芯 (双联泵或三联泵盖端泵芯)<br>Cartridge Kit of double pump treble pump cover end | T6C、T6CC、T6DC、<br>T6EC、T6DCC、<br>T6DDCS、T6EDC (S) | 03、05、06、08、10、<br>12、14、17、20、22、<br>25、28、31 | (从泵的轴端看)<br>(viewed from<br>shaft end of<br>pump)<br>R-顺时针旋转 right<br>hand for clockwise<br>L-逆时针旋转left hand<br>for counterclockwise | 1-S1, 丁腈橡胶<br>NBR<br>Nitrile rubber<br>5-S5, 氟橡胶<br>Fluororubber |
|                                                                                                                                                                                                                                                 | T6D、T6DC、T6ED、<br>T6DCC、T6DDCS、<br>T6EDC          | 14、17、20、24、28、<br>31、35、38、42、45、<br>50、61    |                                                                                                                                      |                                                                  |
|                                                                                                                                                                                                                                                 | T6E、T6EC、<br>T6ED、T6EDC (S)                       | 42、45、50、52、57、<br>62、66、72、85                 |                                                                                                                                      |                                                                  |

与相应系列、规格的单泵性能参数一致, 详见T6单泵的性能参数。  
The data of relevant series, model are unanimous, please refer to Page T6 single pump specification.



| 泵芯名称<br>Cartridge name             | 滑动轴承内径<br>Sliding bearing<br>diameter | ΦA     | B     | C     | ΦD   | E     | ΦF  | ΦG    | H   | K    | M (橡胶平垫圈<br>Rubber washer) | N (橡胶平垫圈<br>Rubber washer) | ΦP              | L   |
|------------------------------------|---------------------------------------|--------|-------|-------|------|-------|-----|-------|-----|------|----------------------------|----------------------------|-----------------|-----|
| 单泵芯T6C                             | Φ 15.9                                | 95.25  | 99.4  | 93.9  | 61.9 | 72.1  | 4.8 | 89.1  | 4.8 | 43.7 | 88.5x3.53                  | 60x3.53                    | 77.7            | 5.5 |
| 前泵芯T6CC                            | 无滑动轴承<br>No sliding bearing           |        |       |       |      |       |     |       |     |      |                            |                            |                 |     |
| 后泵芯T6CC、T6DCC、<br>T6DDCS、T6EDC (S) | Φ 19.05                               |        |       |       |      |       |     |       |     |      |                            |                            |                 |     |
| 后泵芯T6DC、T6EC                       | Φ 22.225                              | 95.25  | 83.4  | 77.3  | 52.6 | \     | 4.8 | \     | 4.8 | 43.7 | 89x2.4                     | 52x2.4                     | 77.7            | 5.5 |
| 中泵芯T6DCC                           | 无滑动轴承<br>No sliding bearing           |        |       |       |      |       |     |       |     |      |                            |                            |                 |     |
| 单泵芯T6D、前泵芯T6DCC                    | Φ 22.225                              |        |       |       |      |       |     |       |     |      |                            |                            |                 |     |
| 前泵芯T6DC、T6DDCS                     | 无滑动轴承<br>No sliding bearing           | 123.0  | 132.4 | 125.8 | 71.9 | 102.2 | 6.4 | 108.1 | 8.0 | 41.2 | 107.5x3.53                 | 69.5x3.53                  | 无此台阶<br>No step |     |
| 后泵芯T6ED、中泵芯T6EDC (S)               | Φ 28.6                                |        |       |       |      |       |     |       |     |      |                            |                            |                 |     |
| 中泵芯T6DDCS                          | Φ 22.225                              |        |       |       |      |       |     |       |     |      |                            |                            |                 |     |
| 单泵芯T6E                             | Φ 28.6                                | 143.08 | 150.3 | 142.5 | 88.0 | 113.0 | 8.0 | 137.0 | 8.0 | 49.2 | 136.1x3.53                 | 85.3x3.53                  |                 |     |
| 前泵芯T6EC、T6ED、T6EDC (S)             | 无滑动轴承<br>No sliding bearing           |        |       |       |      |       |     |       |     |      |                            |                            |                 |     |

| 泵芯名称<br>Cartridge name                              | 转子内花键齿廓参数 Inside spline tooth outline parameter of rotor |             |                       |                      |                      |
|-----------------------------------------------------|----------------------------------------------------------|-------------|-----------------------|----------------------|----------------------|
|                                                     | 齿数<br>No. of teeth                                       | 径节<br>Pitch | 压力角<br>Standard angle | 大径<br>Major diameter | 小径<br>Minor diameter |
| 前泵芯T6CC、中泵芯T6DCC                                    | 32                                                       | 40/80       | 45°                   | 21.41                | 19.9                 |
| 单泵芯T6C、后泵芯T6CC、T6DC、T6EC、<br>T6DCC、T6DDCS、T6EDC (S) | 28                                                       | 40/80       | 45°                   | 18.87                | 17.4                 |
| 单泵芯T6D、前泵芯T6DC、T6DCC<br>T6DDCS、中泵芯T6EDC (S)、后泵芯T6ED | 25                                                       | 24/48       | 45°                   | 28.19                | 25.8                 |
| 中泵芯T6DDCS                                           | 20                                                       | 24/48       | 45°                   | 22.89                | 20.5                 |
| 单泵芯T6E、前泵芯T6EC、T6ED、T6EDC (S)                       | 34                                                       | 24/48       | 45°                   | 37.72                | 35.4                 |



V系列单泵 V series single pumps

产品外观及简介

本系列是工业应用而开发的高性能子母叶片泵。适用于注塑机械、橡胶机械、压铸机械、机床等各种液压系统中。

其主要特点:

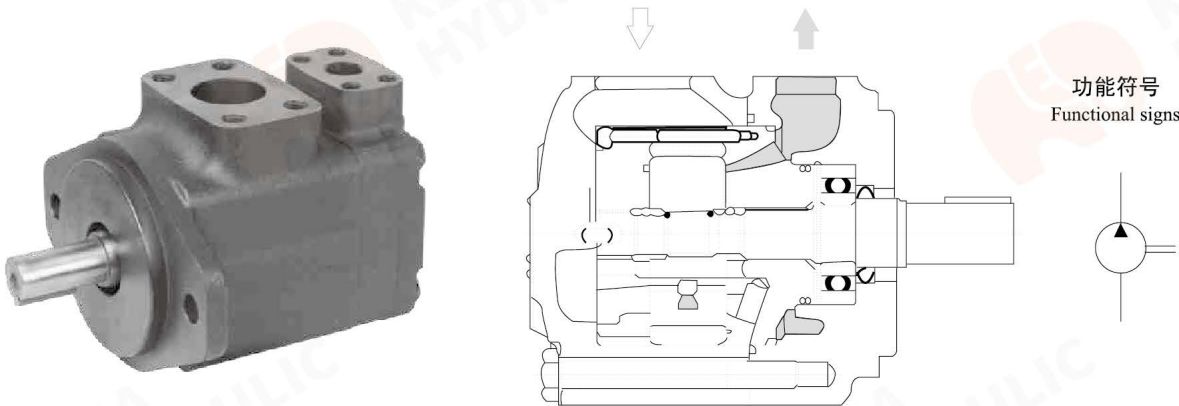
- 1、子母叶片的结构设计，减少了叶片对定子的冲击，在较高的工作压力和高转速下，性能更稳定，寿命更长。
- 2、子母叶片结构本身具有低噪音的特性。12叶片的设计、流量脉动很小，噪音更低。
- 3、多排量的选择，以及泵芯的插装式结构、使用户使用更灵活，维修更方便。

Shape and introduction

These series of composition vane pumps in high performance are developed for industrial application. They can be applied properly in the hydraulic system of plastic injection machinery, rubber machinery, casting machinery, machine tool industry, etc.

The main features are:

- 1.The designing structure of composition vanes reduces its impact on the stator, so the pumps will have further stability and longer lifetime while working with high pressure and high speed.
- 2.The designing structure of composition vanes itself reduces the noise. The design of 12 vanes makes smaller flow pulsation and lower noise.
- 3.Multi-displacement option and the cartridge structure of pump core make flexible application and easy maintenance.



型号说明 Model descriptions:

| (F3-)                                                                                              | **V                   | **                              | A                                    | (F)                                         | -*                                                                                                                                  | *                                                                                                                                                                                                                                                                   | 22                   | *                                                                                                                                      |
|----------------------------------------------------------------------------------------------------|-----------------------|---------------------------------|--------------------------------------|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 前注<br>Front marks                                                                                  | 系列号<br>Code of series | ▲排量代号<br>▲Displacement codes    | 油口连接<br>Pump port connection         | 安装型式<br>Mounting type                       | 轴伸形式<br>Shaft extension                                                                                                             | 出油口位置<br>Outlet position                                                                                                                                                                                                                                            | 设计号<br>Designing No. | 旋转方向<br>Direction of rotation                                                                                                          |
| 无标记:<br>石油系油<br>乳化液<br>水-乙<br>二醇<br>No mark:<br>water-in oil<br>emulsion of<br>petroleum<br>series | 20V                   | 2,3,4,5,6,7,8,9,<br>10,11,12,14 | A-SAE<br>4螺栓法兰<br>4 Bolted<br>flange | 无标记-<br>法兰安装型<br>No mark-flange<br>mounting | 1-带键直轴<br>1-straight<br>shaft with key<br>151-花键轴<br>151-spline<br>shaft                                                            | (从泵的盖端看)<br>(viewed from the cover<br>end of the pump)<br>A-进油口对侧<br>A: the opposite of inlet<br>B-从进油口逆时针90°<br>B:counterclockwise 90°<br>of pump port<br>C-进油口同侧<br>C:the same side of<br>pump inlet port<br>D-从进油口顺时针90°<br>D:clockwise 90°of<br>pump inlet port | 22                   | (从泵的轴端看)<br>(viewed from the<br>shaft end of the pump)<br>L-逆时针旋转<br>L-counterclockwise<br>rotation<br>R-顺时针旋转<br>R-clockwise rotation |
| F3:<br>磷酸酯液<br>F3:<br>Sul phosuccinic<br>ester fatty<br>of acid                                    | 25V                   | 10,12,14,15,17,<br>19,21        |                                      | F-<br>脚座安装型<br>F-<br>foot<br>mounting       | 1-带键直轴<br>1-straight shaft<br>with key<br>86-重型带<br>键直轴<br>86-heavy-duty<br>straight shaft<br>with key<br>11-花键轴<br>11-spline shaft |                                                                                                                                                                                                                                                                     |                      |                                                                                                                                        |
|                                                                                                    | 35V                   | 21,25,30,32,<br>35,38,45        |                                      |                                             |                                                                                                                                     |                                                                                                                                                                                                                                                                     |                      |                                                                                                                                        |
|                                                                                                    | 45V                   | 42,45,50,57,<br>60,66,75        |                                      |                                             |                                                                                                                                     |                                                                                                                                                                                                                                                                     |                      |                                                                                                                                        |

▲在1200r/min和0.69MPa（100psi）下的额定排量USgpm

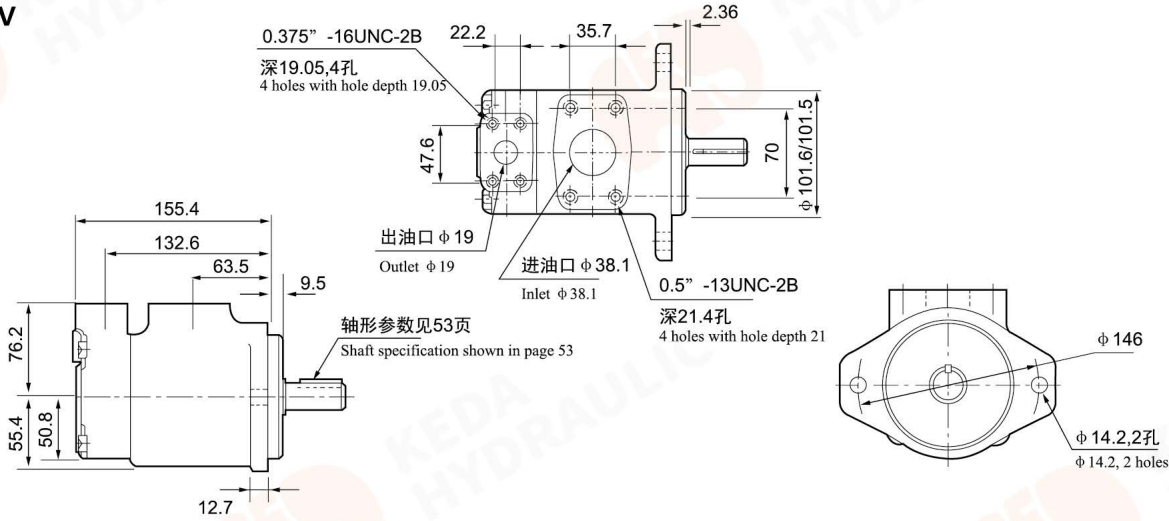
▲The rated displacement (USgpm) is under the conditions of 1200r/min and 0.69Mpa(100psi).

工作参数 Operating parameters

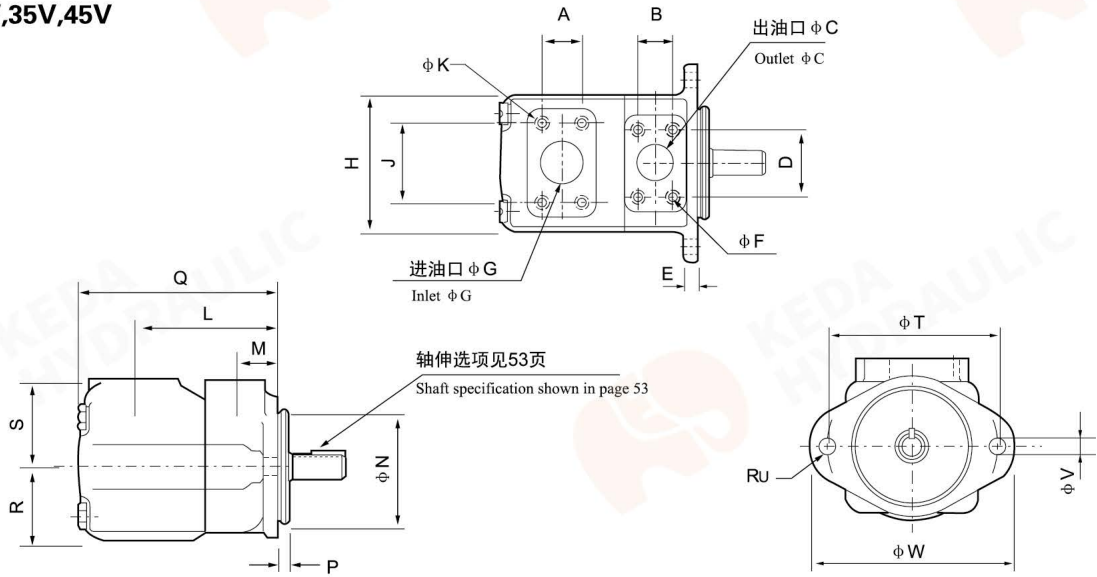
| 型号<br>Models | 排量代号<br>Displacement<br>code | 几何排量<br>Geometric<br>displacement<br>(mL/r) | 使用抗磨液压油或磷酸酯液<br>Anti-wear hydraulic oil<br>or phospholipid |                              | 使用水乙二醇液<br>Water glycol fluid |                              | 使用油包水乳化液<br>Water-in-oil emulsion |                              | 最低转速<br>Mini speed<br>(r/min) |      |     |      |     |
|--------------|------------------------------|---------------------------------------------|------------------------------------------------------------|------------------------------|-------------------------------|------------------------------|-----------------------------------|------------------------------|-------------------------------|------|-----|------|-----|
|              |                              |                                             | 最高压力<br>Max pressure<br>(Mpa)                              | 最高转速<br>Max speed<br>(r/min) | 最高压力<br>Max pressure<br>(Mpa) | 最高转速<br>Max speed<br>(r/min) | 最高压力<br>Max pressure<br>(Mpa)     | 最高转速<br>Max speed<br>(r/min) |                               |      |     |      |     |
| 20V          | 2                            | 7.5                                         | 13.8                                                       | 1800                         | 13.8                          | 1500                         | 6.9                               | 1200                         | 600                           |      |     |      |     |
|              | 3                            | 10                                          |                                                            |                              |                               |                              |                                   |                              |                               |      |     |      |     |
|              | 4                            | 13                                          |                                                            |                              |                               |                              |                                   |                              |                               |      |     |      |     |
|              | 5                            | 17                                          | 20.7                                                       |                              | 15.9                          |                              |                                   |                              |                               | 1500 | 6.9 | 1200 | 600 |
|              | 6                            | 19                                          |                                                            |                              |                               |                              |                                   |                              |                               |      |     |      |     |
|              | 7                            | 23                                          |                                                            |                              |                               |                              |                                   |                              |                               |      |     |      |     |
|              | 8                            | 27                                          |                                                            |                              |                               |                              |                                   |                              |                               |      |     |      |     |
|              | 9                            | 30                                          |                                                            |                              |                               |                              |                                   |                              |                               |      |     |      |     |
|              | 10                           | 32.5                                        |                                                            |                              |                               |                              |                                   |                              |                               |      |     |      |     |
|              | 11                           | 36                                          |                                                            |                              |                               |                              |                                   |                              |                               |      |     |      |     |
|              | 12                           | 40                                          | 15.9                                                       |                              | 13.8                          |                              |                                   |                              |                               | 1500 | 6.9 | 1200 | 600 |
|              | 14                           | 45                                          | 13.8                                                       |                              |                               |                              |                                   |                              |                               |      |     |      |     |
| 25V          | 10                           | 32.5                                        | 17.2                                                       | 1800                         | 15.9                          | 1500                         | 6.9                               | 1200                         | 600                           |      |     |      |     |
|              | 12                           | 40                                          |                                                            |                              |                               |                              |                                   |                              |                               |      |     |      |     |
|              | 14                           | 43                                          |                                                            |                              |                               |                              |                                   |                              |                               |      |     |      |     |
|              | 15                           | 45                                          |                                                            |                              |                               |                              |                                   |                              |                               |      |     |      |     |
|              | 17                           | 55                                          |                                                            |                              |                               |                              |                                   |                              |                               |      |     |      |     |
|              | 19                           | 59                                          |                                                            |                              |                               |                              |                                   |                              |                               |      |     |      |     |
|              | 21                           | 67                                          |                                                            |                              |                               |                              |                                   |                              |                               |      |     |      |     |
| 35V          | 21                           | 67                                          | 17.2                                                       | 1800                         | 15.9                          | 1500                         | 6.9                               | 1200                         | 600                           |      |     |      |     |
|              | 25                           | 81                                          |                                                            |                              |                               |                              |                                   |                              |                               |      |     |      |     |
|              | 30                           | 97                                          |                                                            |                              |                               |                              |                                   |                              |                               |      |     |      |     |
|              | 32                           | 100                                         |                                                            |                              |                               |                              |                                   |                              |                               |      |     |      |     |
|              | 35                           | 112                                         |                                                            |                              |                               |                              |                                   |                              |                               |      |     |      |     |
|              | 38                           | 121                                         |                                                            |                              |                               |                              |                                   |                              |                               |      |     |      |     |
|              | 45                           | 142                                         |                                                            |                              |                               |                              |                                   |                              |                               |      |     |      |     |
| 45V          | 42                           | 138                                         | 17.2                                                       | 1800                         | 15.9                          | 1500                         | 6.9                               | 1200                         | 600                           |      |     |      |     |
|              | 45                           | 142                                         |                                                            |                              |                               |                              |                                   |                              |                               |      |     |      |     |
|              | 50                           | 162                                         |                                                            |                              |                               |                              |                                   |                              |                               |      |     |      |     |
|              | 57                           | 183                                         |                                                            |                              |                               |                              |                                   |                              |                               |      |     |      |     |
|              | 60                           | 193                                         |                                                            |                              |                               |                              |                                   |                              |                               |      |     |      |     |
|              | 66                           | 212                                         |                                                            |                              |                               |                              |                                   |                              |                               |      |     |      |     |
|              | 75                           | 237                                         | 13.8                                                       |                              | 13.8                          |                              |                                   |                              |                               | 1500 | 6.9 | 1200 | 600 |

安装连接尺寸 Installation sizes

20V



25V,35V,45V



| 型号<br>Models | A    | B    | C    | D    | E    | G    | H   | J     | L     | M    | N           | P    | Q     | R    |
|--------------|------|------|------|------|------|------|-----|-------|-------|------|-------------|------|-------|------|
| 25V          | 35.7 | 26.2 | 25.4 | 52.4 | 12.7 | 38.1 | 118 | 69.9  | 121   | 38.1 | 101.6/101.5 | 9.53 | 162.1 | 63.5 |
| 35V          | 42.9 | 30.2 | 31.8 | 58.7 | 16   | 50.8 | 140 | 77.8  | 125.5 | 38.1 | 127.0/126.9 | 9.53 | 185   | 69.9 |
| 45V          | 61.9 | 35.7 | 38.1 | 69.9 | 16   | 76.2 | 159 | 106.4 | 153   | 43   | 127.0/126.9 | 12.7 | 216   | 82.6 |

| 型号<br>Models | S    | T   | U  | V    | W   | F x 全部螺纹深, 4孔<br>F× all depth of screw, 4 holes     | K x 全部螺纹深, 4孔<br>K× all depth of screw, 4 holes   |
|--------------|------|-----|----|------|-----|-----------------------------------------------------|---------------------------------------------------|
| 25V          | 76.2 | 146 | 14 | 14.2 | 175 | 3/8-16UNC-2B x 19.1深<br>3/8-16UNC-2B x 19.1 depth   | 1/2-13UNC-2B x 23.8深<br>1/2-13UNC-2B x 23.8 depth |
| 35V          | 82.6 | 181 | 16 | 17.5 | 213 | 7/16-14UNC-2B x 22.3深<br>7/16-14UNC-2B x 22.3 depth | 1/2-13UNC-2B x 22.3深<br>1/2-13UNC-2B x 22.3 depth |
| 45V          | 93.7 | 181 | 16 | 17.5 | 213 | 1/2-13UNC-2B x 23.8深<br>1/2-13UNC-2B x 23.8 depth   | 5/8-11UNC-2B x 30深<br>5/8-11UNC-2B x 30 depth     |

V系列双联泵 V Series double pumps

产品外观及简介

本系列是工业应用而开发的高性能子母叶片泵。适用于注塑机械、橡胶机械、压铸机械、机床等各种液压系统中。

其主要特点:

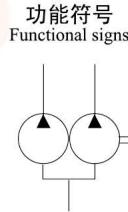
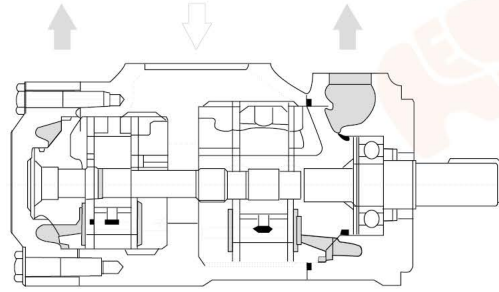
- 1、子母叶片的结构设计，减少了叶片对定子的冲击，在较高的工作压力和高转速下，性能更稳定，寿命更长。
- 2、子母叶片结构本身具有低噪音的特性。12叶片的设计、流量脉动很小，噪音更低。
- 3、多排量的选择，以及泵芯的插装式结构、使用户使用更灵活，维修更方便。

Shape and introduction

These series of composition vane pumps in high performance are developed for industrial application. They can be applied properly in the hydraulic system of plastic injection machinery, rubber machinery, casting machinery, machine tool industry, etc.

The main features are:

- 1.The designing structure of composition vanes reduces its impact on the stator, so the pumps will have further stability and longer lifetime while working with high pressure and high speed.
- 2.The designing structure of composition vanes itself reduces the noise. The design of 12 vanes makes smaller flow pulsation and lower noise.
- 3.Multi-displacement option and the cartridge structure of pump core make flexible application and easy maintenance.



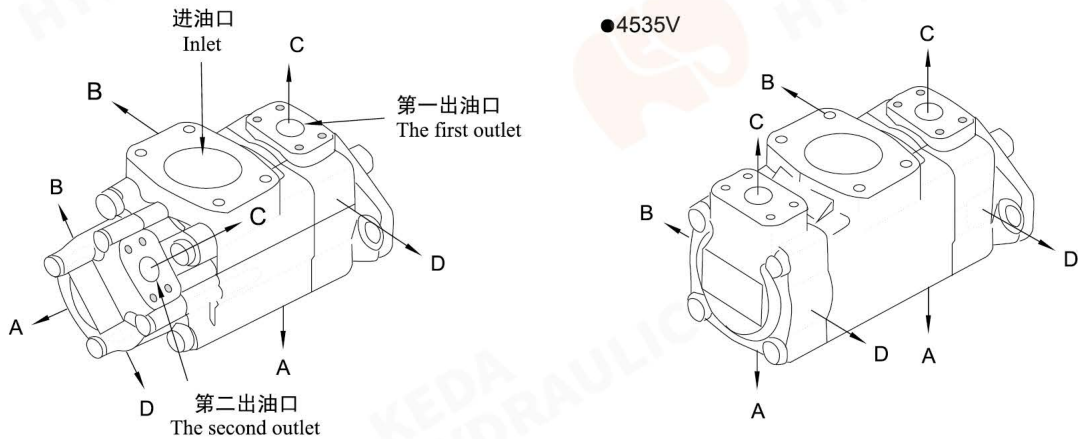
型号说明 Model descriptions:

| (F3-)                                                                                                                                                      | ****V                                              | **                                                                                                                                           | A                                     | **                                                                                                                                                                | (F)                                                                                  | -**                                                                                                                                 | *                                       | 22                   | *                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| 前注<br>Front marks                                                                                                                                          | 系列号<br>Code of series                              | ▲排量代号轴端泵<br>Displacement code shaft end pump                                                                                                 | 油口连接<br>Pump port connection          | ▲排量代号盖端泵<br>Displacement code cover end pump                                                                                                                      | 安装型式<br>Mounting type                                                                | 轴伸形式<br>Shaft extension                                                                                                             | 油口位置<br>Pump position                   | 设计号<br>Designing No. | 旋转方向<br>Direction of rotation                                                                                                           |
| 无标记:<br>石油系油乳<br>化液水-乙<br>二醇<br>No mark:<br>water-in oil<br>emulsion of<br>petroleum<br>series<br>F3:磷酸酯液<br>F3: Sul phosuccinic<br>ester fatty<br>of acid | 2520V<br>3520V<br>3525V<br>4520V<br>4525V<br>4535V | 10,12,14,15,17,19,21<br>21,25,30,32,35,38,45<br>21,25,30,32,35,38,45<br>42,45,50,57,60,66,75<br>42,45,50,57,60,66,75<br>42,45,50,57,60,66,75 | A-SAE<br>4-螺栓法兰<br>4 Bolted<br>flange | 2,3,4,5,6,7,8,9,10,11,12,14<br>2,3,4,5,6,7,8,9,10,11,12,14<br>10,12,14,15,17,19,21<br>2,3,4,5,6,7,8,9,10,11,12,14<br>10,12,14,15,17,19,21<br>21,25,30,32,35,38,45 | 无标记-<br>法兰安装型<br>No mark-flange<br>mounting<br>F-<br>脚座安装型<br>F-<br>foot<br>mounting | 1-带键直轴<br>1-straight shaft<br>with key<br>86-重型带<br>键直轴<br>86-heavy-duty<br>straight shaft<br>with key<br>11-花键轴<br>11-spline shaft | 见下表<br>See as the<br>following<br>table | 22                   | (从泵的轴端看)<br>(viewed from the<br>shaft end of the pump)<br>L-逆时针旋转<br>L-counter-clockwise<br>rotation<br>R-顺时针旋转<br>R-clockwise rotation |

▲在1200r/min和0.69MPa（100psi）下的额定排量USgpm  
▲The rated displacement (USgpm) is under the conditions of 1200r/min and 0.69Mpa(100psi).



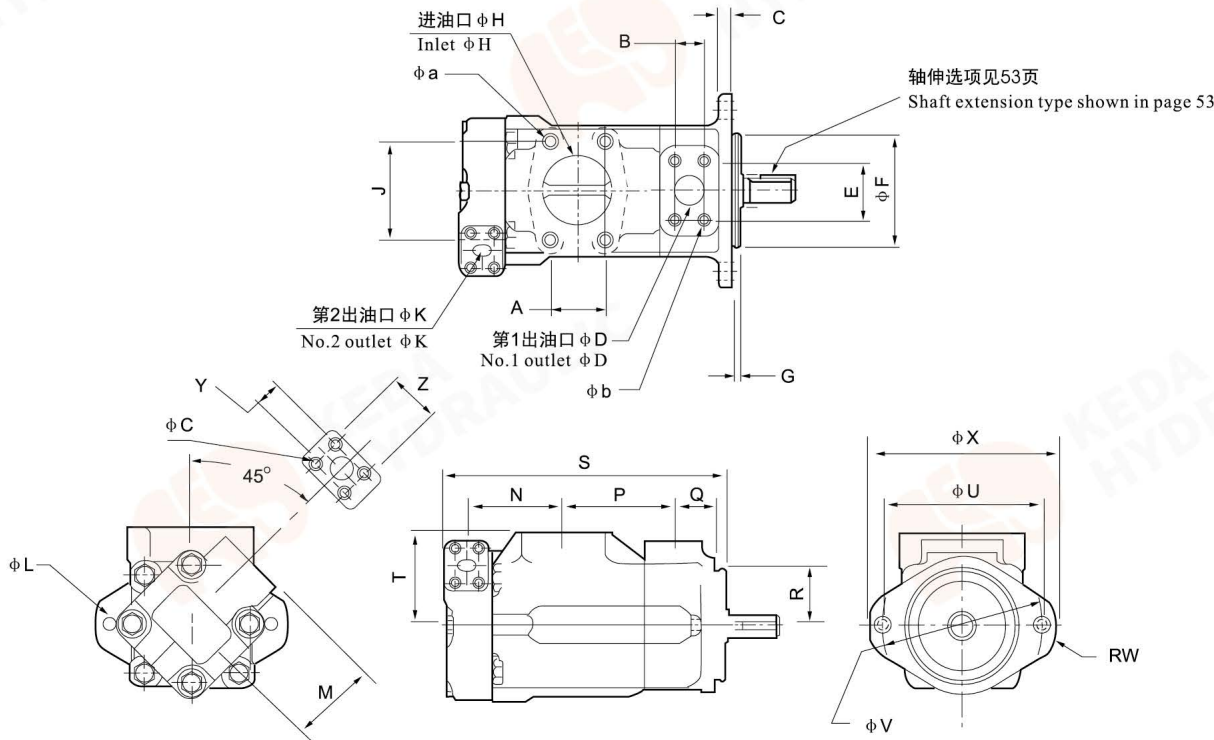
油口位置表（从泵的盖端看） Pump oil port position (viewed from cover end pump)



| 油口位置<br>Pump position                                                                                   |    | 所有系列（除4535V外）<br>All series (except for 4535 V)                                           | 4535V                                                                                   |
|---------------------------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 第一出油口<br>在进油口对侧<br>The first outlet is<br>the opposition<br>side of inlet.                              | AA | 第二出油口在进油口逆时针转135°<br>The second outlet is to counterclockwise rotation of 135° from inlet | 第二出油口在进油口对侧<br>The second outlet is the opposition side of inlet.                       |
|                                                                                                         | AB | 第二出油口在进油口逆时针转45°<br>The second outlet is to counterclockwise rotation of 45° from inlet   | 第二出油口在进油口逆时针转90°<br>The second outlet is to counterclockwise rotation of 90° from inlet |
|                                                                                                         | AC | 第二出油口在进油口顺时针转45°<br>The second outlet is to clockwise rotation of 45° from inlet          | 第二出油口在进油口同侧<br>The second outlet is the same side of inlet.                             |
|                                                                                                         | AD | 第二出油口在进油口顺时针转135°<br>The second outlet is to clockwise rotation of 135° from inlet        | 第二出油口在进油口顺时针转90°<br>The second outlet is to clockwise rotation of 90° from inlet        |
| 第一出油口<br>从进油口逆<br>时针转90°<br>The first outlet is<br>to counterclockwise<br>rotation of 90°<br>from inlet | BA | 第二出油口在进油口逆时针转135°<br>The second outlet is to counterclockwise rotation of 135° from inlet | 第二出油口在进油口对侧<br>The second outlet is the opposition side of inlet.                       |
|                                                                                                         | BB | 第二出油口在进油口逆时针转45°<br>The second outlet is to counterclockwise rotation of 45° from inlet   | 第二出油口在进油口逆时针转90°<br>The second outlet is to counterclockwise rotation of 90° from inlet |
|                                                                                                         | BC | 第二出油口在进油口顺时针转45°<br>The second outlet is to clockwise rotation of 45° from inlet          | 第二出油口在进油口同侧<br>The second outlet is the same side of inlet.                             |
|                                                                                                         | BD | 第二出油口在进油口顺时针转135°<br>The second outlet is to clockwise rotation of 135° from inlet        | 第二出油口在进油口顺时针转90°<br>The second outlet is to clockwise rotation of 90° from inlet        |
| 第一出油口<br>在进油口同侧<br>The first outlet is<br>the same side<br>of inlet.                                    | CA | 第二出油口在进油口逆时针转135°<br>The second outlet is to counterclockwise rotation of 135° from inlet | 第二出油口在进油口对侧<br>The second outlet is the opposition side of inlet.                       |
|                                                                                                         | CB | 第二出油口在进油口逆时针转45°<br>The second outlet is to counterclockwise rotation of 45° from inlet   | 第二出油口在进油口逆时针转90°<br>The second outlet is to counterclockwise rotation of 90° from inlet |
|                                                                                                         | CC | 第二出油口在进油口顺时针转45°<br>The second outlet is to clockwise rotation of 45° from inlet          | 第二出油口在进油口同侧<br>The second outlet is the same side of inlet.                             |
|                                                                                                         | CD | 第二出油口在进油口顺时针转135°<br>The second outlet is to clockwise rotation of 135° from inlet        | 第二出油口在进油口顺时针转90°<br>The second outlet is to clockwise rotation of 90° from inlet        |
| 第一出油口<br>从进油口顺<br>时针转90°<br>The first outlet is<br>to clockwise<br>rotation of 90°<br>from inlet        | DA | 第二出油口在进油口逆时针转135°<br>The second outlet is to counterclockwise rotation of 135° from inlet | 第二出油口在进油口对侧<br>The second outlet is the opposition side of inlet.                       |
|                                                                                                         | DB | 第二出油口在进油口逆时针转45°<br>The second outlet is to counterclockwise rotation of 45° from inlet   | 第二出油口在进油口逆时针转90°<br>The second outlet is to counterclockwise rotation of 90° from inlet |
|                                                                                                         | DC | 第二出油口在进油口顺时针转45°<br>The second outlet is to clockwise rotation of 45° from inlet          | 第二出油口在进油口同侧<br>The second outlet is the same side of inlet.                             |
|                                                                                                         | DD | 第二出油口在进油口顺时针转135°<br>The second outlet is to counterclockwise rotation of 135° from inlet | 第二出油口在进油口顺时针转90°<br>The second outlet is to clockwise rotation of 90° from inlet        |

安装连接尺寸 Installation sizes

2520V,35\*\*V和452\*V



| 型号<br>Models | φ a x 全部螺纹深, 4孔<br>φ a × all screw holes, 4 holes | φ b x 全部螺纹深, 4孔<br>φ b × all screw holes, 4 holes   | φ c x 全部螺纹深, 4孔<br>φ c × all screw holes, 4 holes |
|--------------|---------------------------------------------------|-----------------------------------------------------|---------------------------------------------------|
| 2520V        | 1/2-13UNC-2B x 23.8深<br>1/2-13UNC-2B x 23.8 depth | 3/8-16UNC-2B x 20.1深<br>3/8-16UNC-2B x 20.1 depth   | 3/8-15UNC-2B x 20.1深<br>3/8-15UNC-2B x 20.1 depth |
| 3520V        | 5/8-11UNC-2B x 25.4深<br>5/8-11UNC-2B x 25.4 depth | 7/16-14UNC-2B x 21.0深<br>7/16-14UNC-2B x 21.0 depth | 3/8-15UNC-2B x 20.1深<br>3/8-15UNC-2B x 20.1 depth |
| 3525V        | 5/8-11UNC-2B x 25.4深<br>5/8-11UNC-2B x 25.4 depth | 7/16-14UNC-2B x 21.0深<br>7/16-14UNC-2B x 21.0 depth | 3/8-15UNC-2B x 20.1深<br>3/8-15UNC-2B x 20.1 depth |
| 4520V        | 5/8-11UNC-2B x 25.4深<br>5/8-11UNC-2B x 25.4 depth | 1/2-13UNC-2B x 23.8深<br>1/2-13UNC-2B x 23.8 depth   | 3/8-15UNC-2B x 20.1深<br>3/8-15UNC-2B x 20.1 depth |
| 4525V        | 5/8-11UNC-2B x 25.4深<br>5/8-11UNC-2B x 25.4 depth | 1/2-13UNC-2B x 23.8深<br>1/2-13UNC-2B x 23.8 depth   | 3/8-15UNC-2B x 20.1深<br>3/8-15UNC-2B x 20.1 depth |

| 型号 Models | A    | B    | C    | D    | E    | F           | G    | H    | J     | K    | L    | M    | N     | P     | Q    |
|-----------|------|------|------|------|------|-------------|------|------|-------|------|------|------|-------|-------|------|
| 2520V     | 50.8 | 26.2 | 12.7 | 25.4 | 52.4 | 101-6/101.5 | 9.53 | 63.5 | 88.9  | 19.1 | 14.2 | 75.2 | 88.1  | 101.6 | 38.1 |
| 3520V     | 62   | 30.1 | 15.9 | 31.7 | 58.7 | 127/126.9   | 9.53 | 76.2 | 106.3 | 19.1 | 17.5 | 75.2 | 99.6  | 114.3 | 38.1 |
| 3525V     | 62   | 30.1 | 15.9 | 31.7 | 58.7 | 127/126.9   | 9.53 | 76.2 | 106.3 | 25.4 | 17.5 | 74.7 | 109.5 | 114.3 | 38.1 |
| 4520V     | 69.9 | 35.7 | 15.9 | 38.1 | 69.9 | 127/126.9   | 12.7 | 88.9 | 120.6 | 19.1 | 17.5 | 75.2 | 120   | 119.4 | 42.9 |
| 4525V     | 69.9 | 35.7 | 15.9 | 38.1 | 69.9 | 127/126.9   | 12.7 | 88.9 | 120.6 | 25.4 | 17.5 | 74.7 | 136   | 119.4 | 42.9 |

| 型号 Models | R    | S     | T     | U     | V   | W  | X     | Y    | Z    |
|-----------|------|-------|-------|-------|-----|----|-------|------|------|
| 2520V     | 76.2 | 250   | 85.3  | 146.1 | 120 | 14 | 174.7 | 22.2 | 47.6 |
| 3520V     | 82.6 | 273.3 | 88.9  | 181   | 148 | 16 | 213   | 22.2 | 47.6 |
| 3525V     | 82.6 | 287.3 | 88.9  | 181   | 148 | 16 | 213   | 26.2 | 52.4 |
| 4520V     | 93.7 | 303.5 | 102.4 | 181   | 148 | 16 | 213   | 22.2 | 47.6 |
| 4525V     | 93.7 | 325   | 102.4 | 181   | 148 | 16 | 213   | 26.2 | 52.4 |



科达液压 020



VQ 系列单泵 VQ series single pumps

适合行走机械的高性能子母叶片泵  
High performance composition vane pumps for walking machinery

产品外观及简介 Shape and introduction

本系列是专为工程机械开发的高压高性能子母叶片泵，适用于工程机械，尤其行走机械的场合。其主要特点：

The series high pressure resistant composition vane pumps with high performance are developed for engineering machinery application, especially for walking machinery. The main features are as follows:

1、采用液压平衡的子母叶片结构设计，压力更高，最高达到21 Mpa:

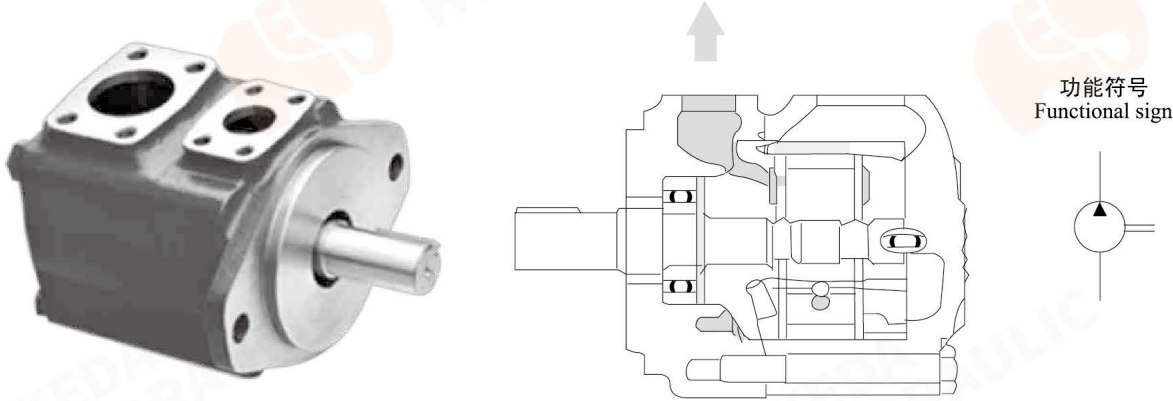
2、采用浮动侧板结构，可以自动补偿间隙，达到压力平衡，实现高转速高压力的优越性能:

3、侧板采用双金属挠性材料，极大提高抗咬合性能，使泵的效果更高，寿命更长。

1. Adopt the structure of hydraulic balancing composition vanes, making the resistant pressure higher to maximum 21 Mpa.

2. Adopt the structure of floating side plate supporting with its function of automatic tolerance compensation, which helps to get pressure balance and high performance under high rotation speed and high pressure.

3. Adopt bimetal flexible material for side plates, which dramatically improves the engagement performance of the gears and thus makes the pump working better and longer.



型号说明 Model descriptions:

| (F3-)                                                                                                                                                             | 25VQ                  | 21                             | A                                 | (F)                                                                      | -1                                                                                                                                   | A                                                                                                                                                                                                                         | 20                   | L                                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------|-----------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------|
| 前注<br>Front marks                                                                                                                                                 | 系列号<br>Code of series | ▲排量代号<br>Displacement codes    | 油口连接<br>Pump port connection      | 安装型式<br>Mounting type                                                    | 轴伸形式<br>Shaft extension                                                                                                              | 出油口位置<br>Outlet port position                                                                                                                                                                                             | 设计号<br>Designing No. | 旋转方向<br>Direction of rotation                                                                                            |
| 无标记:<br>石油系油乳<br>化液水—乙<br>二醇<br><br>No mark:<br>water-in oil<br>emulsion of<br>petroleum<br>series<br>F3:磷酸酯液<br>F3:<br>Sul phosuccinic<br>ester fatty<br>of acid | 20VQ                  | 2,3,4,5,6,7,8,9<br>10,11,12,14 | A-SAE<br>4螺栓法兰<br>4-bolted Flange | 无标记:<br>法兰安装型<br>Flange<br>mounting<br>F-<br>脚座安装型<br>F-Foot<br>mounting | 1-带键直轴<br>1- straight shaft<br>with key<br>151-花键轴<br>151-spline shaft                                                               | (从泵的盖端看)<br>(from cover end pump)<br>A-进口油对侧<br>A- Opposition of inlet<br>B-从进口油逆时针90°<br>B- counterclockwise 90°<br>from inlet<br>C-进口油同侧<br>C- the same side of inlet<br>D-从进口油顺时针90°<br>D- Clockwise 90°<br>from inlet | 30                   | (从泵的轴端看)<br>(from shaft end<br>pump)<br>L-逆时针旋转<br>L-counterclockwise<br>rotation<br>无标记:<br>顺时针旋转<br>Clockwise rotation |
|                                                                                                                                                                   | 25VQ                  | 10,12,14,15,17,<br>19,21       |                                   |                                                                          | 1-带键直轴<br>1- straight shaft<br>with key<br>86-重型带<br>键直轴<br>86-heavy-duty<br>straight shaft<br>with key<br>11-花键轴<br>11-spline shaft |                                                                                                                                                                                                                           | 20                   |                                                                                                                          |
|                                                                                                                                                                   | 35VQ                  | 21,25,30,32,35,<br>38,45       |                                   |                                                                          |                                                                                                                                      |                                                                                                                                                                                                                           |                      |                                                                                                                          |
|                                                                                                                                                                   | 45VQ                  | 42,45,50,57,60<br>66,75        |                                   |                                                                          |                                                                                                                                      |                                                                                                                                                                                                                           |                      |                                                                                                                          |

▲在1200r/min和0.69MPa(100psi)下的额定排量USgpm。  
The rated displacement (USgpm) is under the conditions of 1200r/min and 0.69 Mpa(100psi).

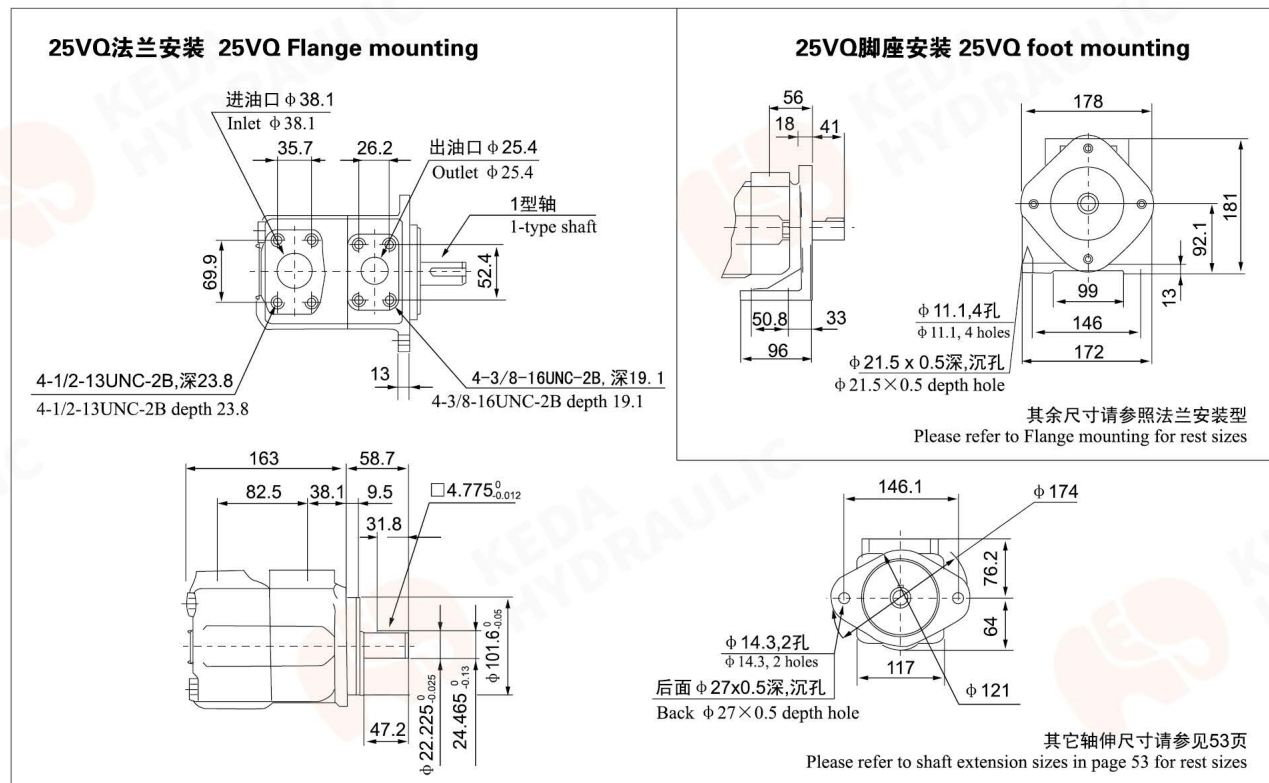
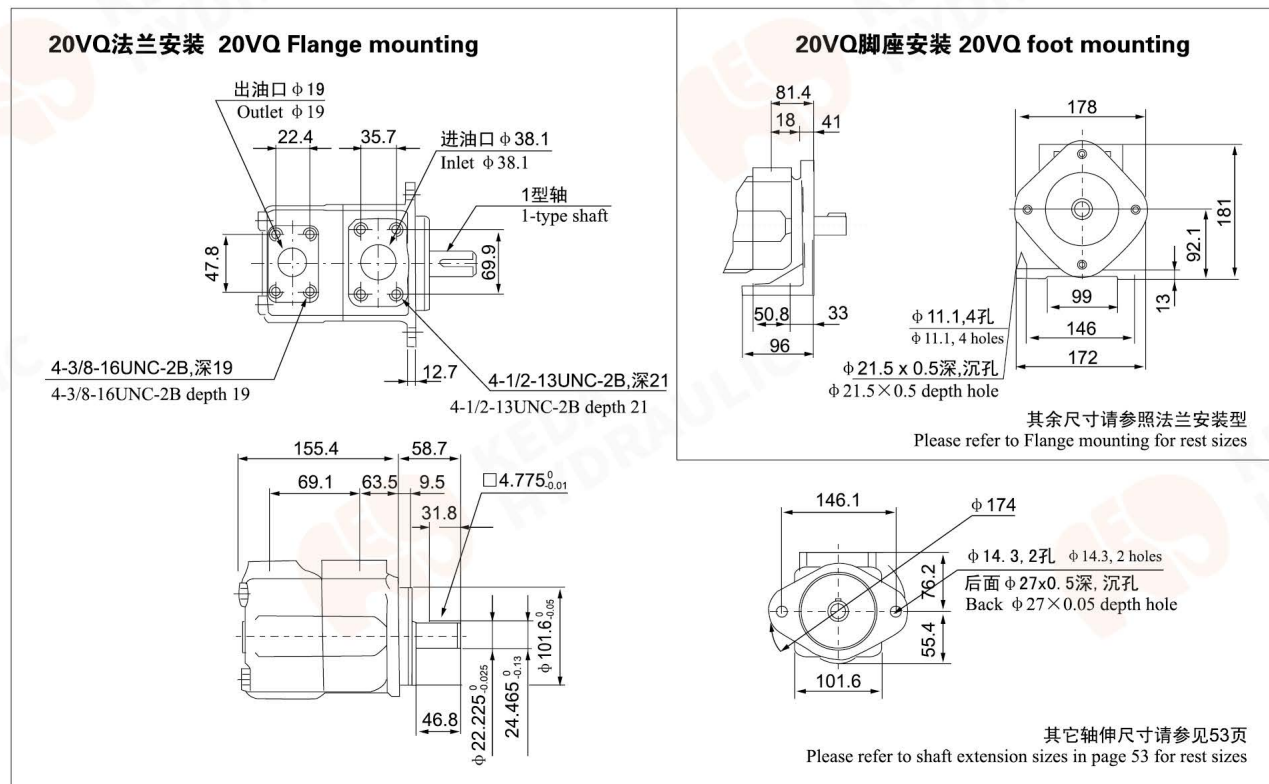
VQ 系列单泵 VQ series single pumps

工作参数 Operating parameters

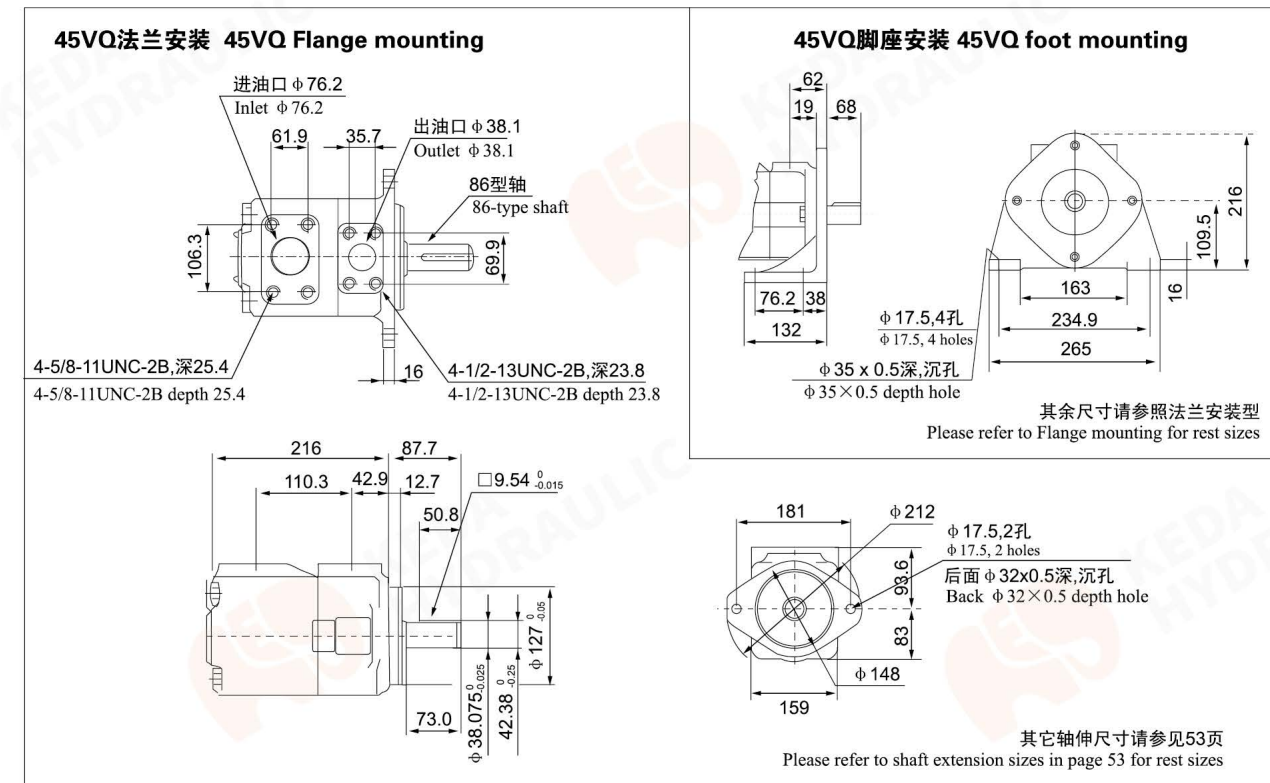
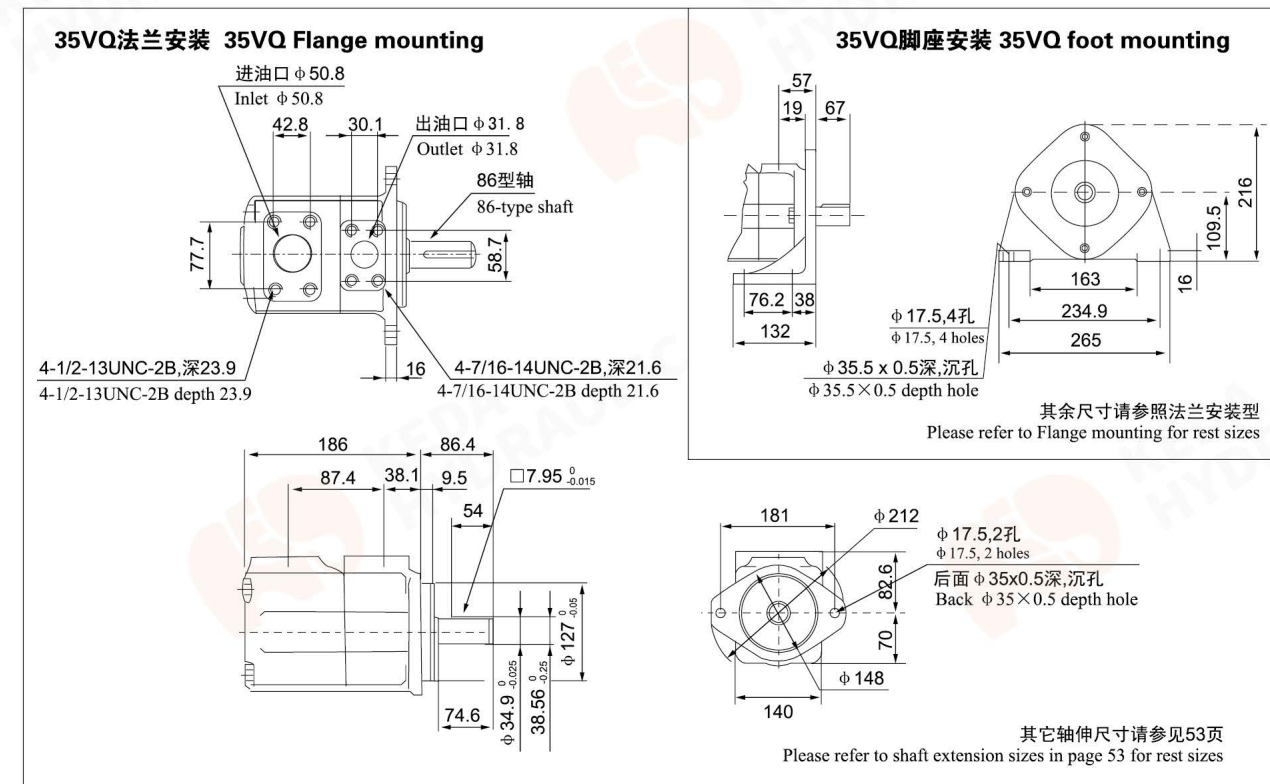
| 型号<br>Models | 排量代号<br>Displacement<br>code | 几何排量<br>Geometric<br>displacement<br>(ml/r) | 最高转速<br>Max speed<br>(r/min) | 最高压力<br>Max pressure<br>(Mpa) | 典型输出流量<br>Typical outlet flow<br>(L/min)<br>最高转速及最高压力<br>under Max speed and<br>Max pressure | 典型输出功率<br>Typical outlet power<br>(KW)<br>最高转速及最高压力<br>under Max speed and<br>Max pressure | 重量<br>Weight |
|--------------|------------------------------|---------------------------------------------|------------------------------|-------------------------------|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------|
| 20VQ         | 2                            | 7                                           | 2700                         | 21                            | 16.4                                                                                         | 7.2                                                                                        | 11.8         |
|              | 3                            | 11.7                                        | 2700                         | 21                            | 24.4                                                                                         | 10.8                                                                                       |              |
|              | 4                            | 15                                          | 2700                         | 21                            | 32.7                                                                                         | 14.4                                                                                       |              |
|              | 5                            | 18                                          | 2700                         | 21                            | 42.3                                                                                         | 17.9                                                                                       |              |
|              | 6                            | 19                                          | 2700                         | 21                            | 50.6                                                                                         | 21.5                                                                                       |              |
|              | 7                            | 22                                          | 2700                         | 21                            | 58.8                                                                                         | 23.7                                                                                       |              |
|              | 8                            | 27                                          | 2700                         | 21                            | 56.4                                                                                         | 25.1                                                                                       |              |
|              | 9                            | 30                                          | 2700                         | 21                            | 73.4                                                                                         | 26.0                                                                                       |              |
|              | 10                           | 31.5                                        | 2700                         | 21                            | 81.7                                                                                         | 26.8                                                                                       |              |
|              | 11                           | 36                                          | 2700                         | 21                            | 88.5                                                                                         | 27.7                                                                                       |              |
|              | 12                           | 40                                          | 2700                         | 16                            | 96.5                                                                                         | 28.4                                                                                       |              |
|              | 14                           | 45                                          | 2700                         | 14                            | 115.4                                                                                        | 29.1                                                                                       |              |
| 25VQ         | 10                           | 32.5                                        | 2700                         | 21                            | 81.4                                                                                         | 35.2                                                                                       | 14.5         |
|              | 12                           | 38.3                                        | 2700                         | 21                            | 88.5                                                                                         | 41.0                                                                                       |              |
|              | 14                           | 43.3                                        | 2700                         | 21                            | 103.8                                                                                        | 46.6                                                                                       |              |
|              | 15                           | 47.3                                        | 2500                         | 21                            | 109.4                                                                                        | 48.1                                                                                       |              |
|              | 17                           | 52.5                                        | 2500                         | 21                            | 119.2                                                                                        | 51.8                                                                                       |              |
|              | 19                           | 60                                          | 2500                         | 21                            | 133.5                                                                                        | 55.2                                                                                       |              |
|              | 21                           | 65.0                                        | 2500                         | 21                            | 146.2                                                                                        | 61.9                                                                                       |              |
| 35VQ         | 21                           | 64.0                                        | 2500                         | 21                            | 145.5                                                                                        | 63.7                                                                                       | 22.7         |
|              | 25                           | 79.2                                        | 2500                         | 21                            | 173.1                                                                                        | 75.3                                                                                       |              |
|              | 30                           | 95.0                                        | 2500                         | 21                            | 211.5                                                                                        | 87.7                                                                                       |              |
|              | 32                           | 101                                         | 2500                         | 21                            | 220.2                                                                                        | 92.2                                                                                       |              |
|              | 35                           | 109                                         | 2400                         | 21                            | 230.8                                                                                        | 98.5                                                                                       |              |
|              | 38                           | 118                                         | 2400                         | 21                            | 250                                                                                          | 104.4                                                                                      |              |
| 45VQ         | 45                           | 147                                         | 2400                         | 21                            | 271.2                                                                                        | 99.8                                                                                       | 34.1         |
|              | 42                           | 134                                         | 2400                         | 17.5                          | 255.8                                                                                        | 91.4                                                                                       |              |
|              | 45                           | 147                                         | 2200                         | 17.5                          | 271.2                                                                                        | 99.8                                                                                       |              |
|              | 50                           | 156                                         | 2200                         | 17.5                          | 303.8                                                                                        | 105.2                                                                                      |              |
|              | 57                           | 180                                         | 2200                         | 17.5                          | 343.7                                                                                        | 120.2                                                                                      |              |
|              | 60                           | 189                                         | 2200                         | 17.5                          | 369.2                                                                                        | 126.8                                                                                      |              |
|              | 66                           | 208                                         | 2200                         | 17.5                          | 408.7                                                                                        | 142.4                                                                                      |              |
|              | 75                           | 237                                         | 2200                         | 14                            | 460                                                                                          | 120.2                                                                                      |              |

性能参数: SAE 10W油液▲82℃(180°F), 泵进口▲0 PSIG ( 14.7/Psia ) 注: 出口必须始终高于进口压力。  
Performance parameters: SAE 10W hydraulic fluid ▲82℃ ( 180° F), pump inlet ▲0 PSIG ( 14.71/Psia ) Notes:The pressure of outlet port must be higher than the one of inlet port.

## 安装连接尺寸 Installation sizes



## 安装连接尺寸 Installation sizes





VQ系列双联泵 VQ series double pumps

适合行走机械的高性能子母叶片泵  
High performance composition vane pumps for walking machinery

产品外观及简介 Shape and introduction

本系列是专为工程机械开发的高压高性能子母叶片泵，适用于工程机械，尤其行走机械的场合。其主要特点：

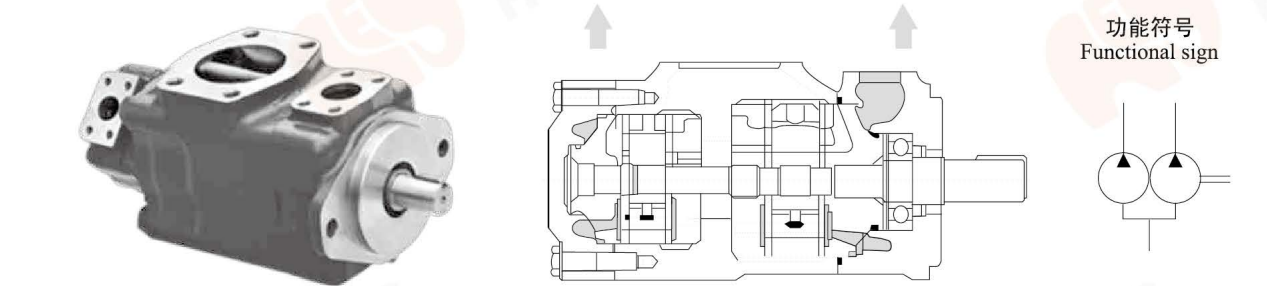
The series high pressure resistant composition vane pumps with high performance are developed for engineering machinery application, especially for walking machinery. The main features are as follows:

- 1、采用液压平衡的子母叶片结构设计，压力更高，最高达到21 Mpa:
- 2、采用浮动侧板结构，可以自动补偿间隙，达到压力平衡，实现高转速高压力的优越性能:
- 3、侧板采用双金属挠性材料，极大提高抗咬合性能，使泵的效果更高，寿命更长。

1. Adopt the structure of hydraulic balancing composition vanes, making the resistant pressure higher to maximum 21 Mpa.

2. Adopt the structure of floating side plate supporting with its function of automatic tolerance compensation, which helps to get pressure balance and high performance under high rotation speed and high pressure.

3. Adopt bimetal flexible material for side plates, which dramatically improves the engagement performance of the gears and thus makes the pump working better and longer.

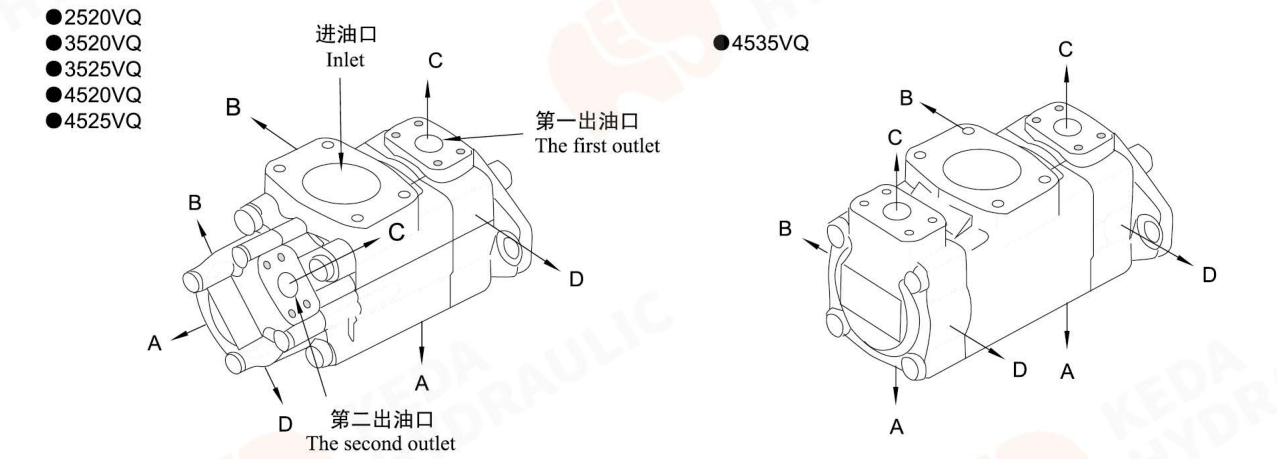


型号说明 Model descriptions:

| (F3-)                                                                                                                                                             | ****VQ                | **                          | A                                 | **                                           | (F)                                           | -*                                                                                                                      | *                                 | 20                   | *                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------|-----------------------------------|----------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| 前注<br>Front marks                                                                                                                                                 | 系列号<br>Code of series | ▲排量代号<br>Displacement codes | 油口连接<br>Pump port connection      | ▲排量代号盖端泵<br>Displacement code cover end pump | 安装型式<br>Mounting type                         | 轴伸形式<br>Shaft extension                                                                                                 | 油口位置<br>Pump position             | 设计号<br>Designing No. | 旋转方向<br>Direction of rotation                                                                                                       |
| 无标记:<br>石油系油乳<br>化液水—乙<br>二醇<br><br>No mark:<br>water-in oil<br>emulsion of<br>petroleum<br>series<br>F3:磷酸酯液<br>F3:<br>Sul phosuccinic<br>ester fatty<br>of acid | 2520VQ                | 10,12,14,15,17,19,21        | A-SAE<br>4螺栓法兰<br>4-bolted Flange | 2,3,4,5,6,7,8,9,10,11,12,14                  | 无标记:<br>No marks:<br>法兰安装型<br>Flange mounting | 1-带键直轴<br>1- straight shaft with key<br>86-重型带键直轴<br>86-heavy-duty straight shaft with key<br>11-花键轴<br>11-spline shaft | 见下表<br>See as the following table | 20                   | (从泵的轴端看)<br>(from shaft end pump)<br>无标记:<br>No marks:<br>顺时针旋转<br>Clockwise rotation<br><br>L-逆时针旋转<br>L-counterclockwise rotation |
|                                                                                                                                                                   | 3520VQ                | 21,25,30,32,35,38,45        |                                   | 2,3,4,5,6,7,8,9,10,11,12,14                  |                                               |                                                                                                                         |                                   |                      |                                                                                                                                     |
|                                                                                                                                                                   | 3525VQ                | 21,25,30,32,35,38,45        |                                   | 10,12,14,15,17,19,21                         | F-脚座安装型<br>F-Foot mounting                    |                                                                                                                         |                                   |                      |                                                                                                                                     |
|                                                                                                                                                                   | 4520VQ                | 42,45,50,57,60,66,75        |                                   | 2,3,4,5,6,7,8,9,10,11,12,14                  |                                               |                                                                                                                         |                                   |                      |                                                                                                                                     |
|                                                                                                                                                                   | 4525VQ                | 42,45,50,57,60,66,75        |                                   | 10,12,14,15,17,19,21                         |                                               |                                                                                                                         |                                   |                      |                                                                                                                                     |
|                                                                                                                                                                   | 4535VQ                | 42,45,50,57,60,66,75        |                                   | 21,25,30,32,35,38,45                         |                                               |                                                                                                                         |                                   |                      |                                                                                                                                     |

▲在1200r/min和0.69MPa(100psi)下的额定排量USgpm。  
The rated displacement (USgpm) is under the conditions of 1200r/min and 0.69 Mpa(100psi).

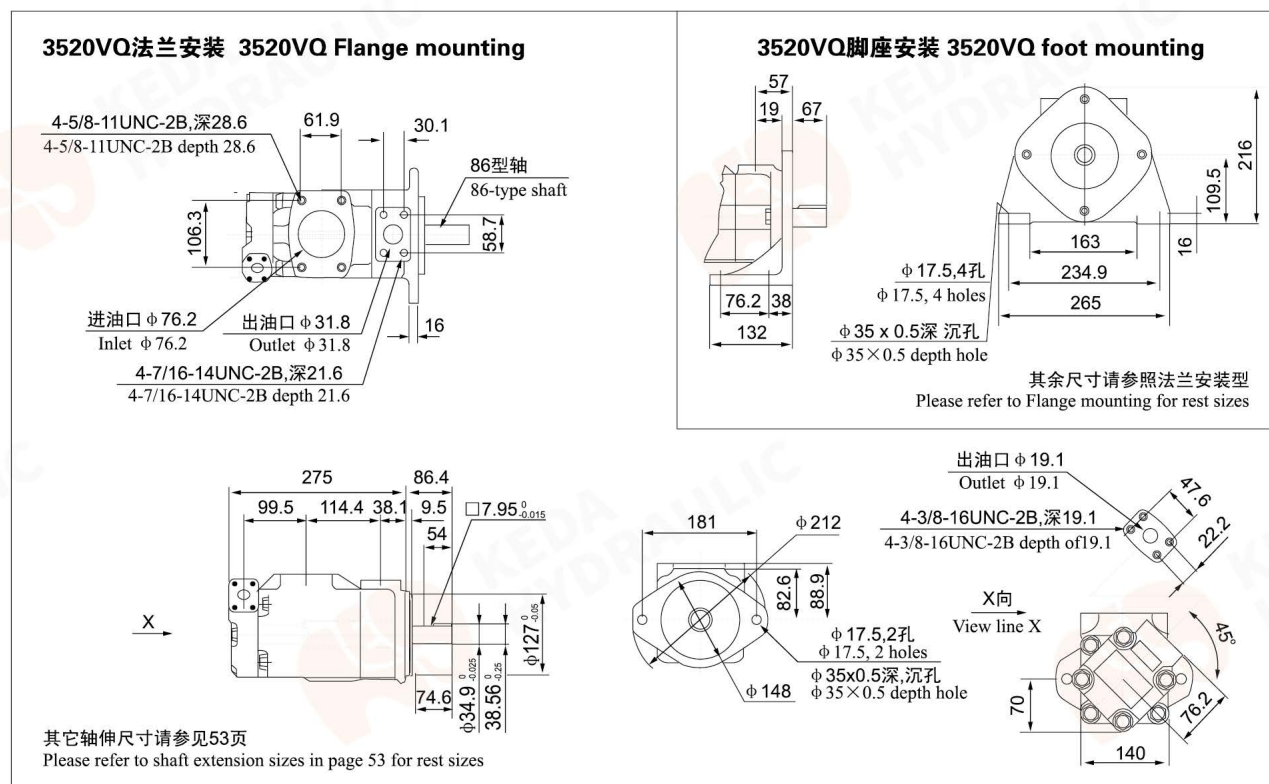
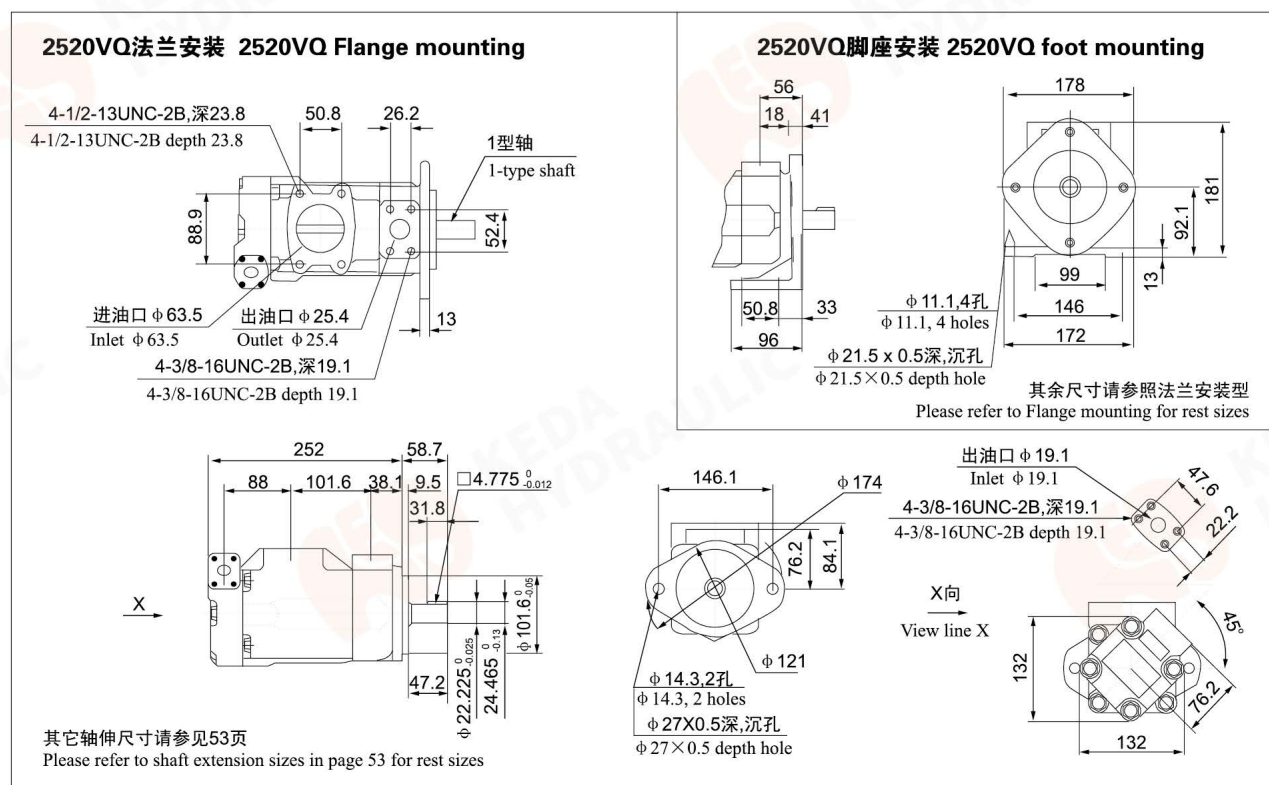
油口位置表（从泵的盖端看） Pump oil port position(viewed from cover end pump)



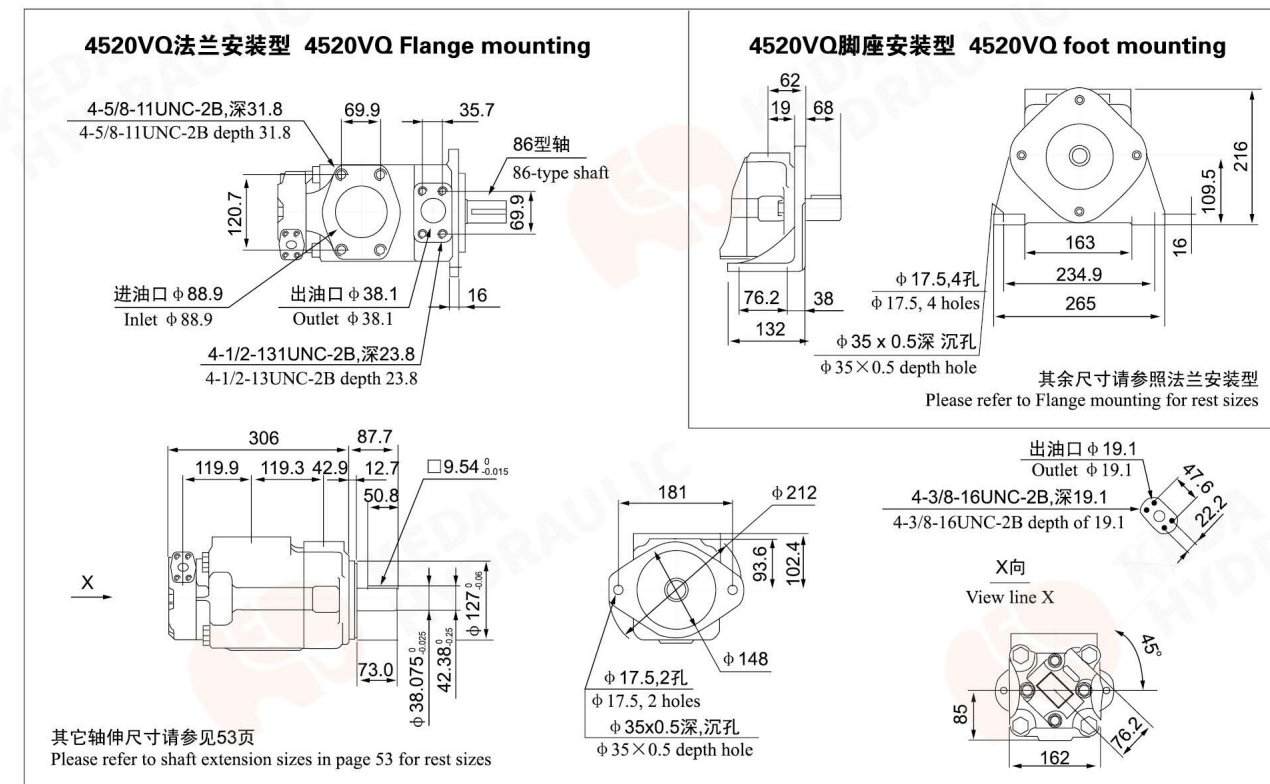
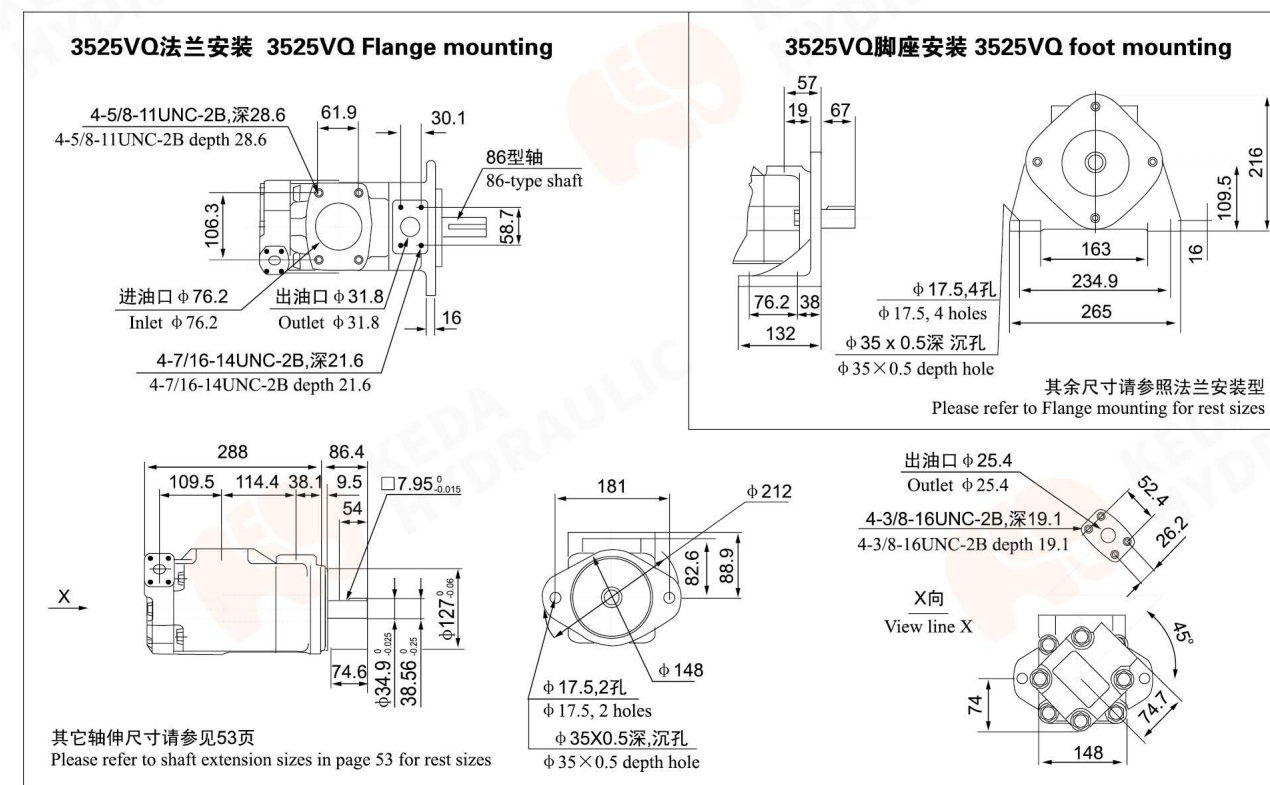
| 油口位置<br>Pump position                                                                                        |    | 所有系列（除4535VQ外）<br>All series (except for 4535VQ)                                          | 4535VQ                                                                                  |
|--------------------------------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 第一出油口<br>在进油口对侧<br><br>The first outlet is<br>the opposition<br>side of inlet.                               | AA | 第二出油口在进油口逆时针转135°<br>The second outlet is to counterclockwise rotation of 135° from inlet | 第二出油口在进油口对侧<br>The second outlet is the opposition side of inlet.                       |
|                                                                                                              | AB | 第二出油口在进油口逆时针转45°<br>The second outlet is to counterclockwise rotation of 45° from inlet   | 第二出油口在进油口逆时针转90°<br>The second outlet is to counterclockwise rotation of 90° from inlet |
|                                                                                                              | AC | 第二出油口在进油口顺时针转45°<br>The second outlet is to clockwise rotation of 45° from inlet          | 第二出油口在进油口同侧<br>The second outlet is the same side of inlet.                             |
|                                                                                                              | AD | 第二出油口在进油口顺时针转135°<br>The second outlet is to clockwise rotation of 135° from inlet        | 第二出油口在进油口顺时针转90°<br>The second outlet is to clockwise rotation of 90° from inlet        |
| 第一出油口<br>从进油口逆<br>时针转90°C<br><br>The first outlet is<br>to counterclockwise<br>rotation of 90°<br>from inlet | BA | 第二出油口在进油口逆时针转135°<br>The second outlet is to counterclockwise rotation of 135° from inlet | 第二出油口在进油口对侧<br>The second outlet is the opposition side of inlet.                       |
|                                                                                                              | BB | 第二出油口在进油口逆时针转45°<br>The second outlet is to counterclockwise rotation of 45° from inlet   | 第二出油口在进油口逆时针转90°<br>The second outlet is to counterclockwise rotation of 90° from inlet |
|                                                                                                              | BC | 第二出油口在进油口顺时针转45°<br>The second outlet is to clockwise rotation of 45° from inlet          | 第二出油口在进油口同侧<br>The second outlet is the same side of inlet.                             |
|                                                                                                              | BD | 第二出油口在进油口顺时针转135°<br>The second outlet is to clockwise rotation of 135° from inlet        | 第二出油口在进油口顺时针转90°<br>The second outlet is to clockwise rotation of 90° from inlet        |
| 第一出油口<br>在进油口同侧<br><br>The first outlet is<br>the same side<br>of inlet.                                     | CA | 第二出油口在进油口逆时针转135°<br>The second outlet is to counterclockwise rotation of 135° from inlet | 第二出油口在进油口对侧<br>The second outlet is the opposition side of inlet.                       |
|                                                                                                              | CB | 第二出油口在进油口逆时针转45°<br>The second outlet is to counterclockwise rotation of 45° from inlet   | 第二出油口在进油口逆时针转90°<br>The second outlet is to counterclockwise rotation of 90° from inlet |
|                                                                                                              | CC | 第二出油口在进油口顺时针转45°<br>The second outlet is to clockwise rotation of 45° from inlet          | 第二出油口在进油口同侧<br>The second outlet is the same side of inlet.                             |
|                                                                                                              | CD | 第二出油口在进油口顺时针转135°<br>The second outlet is to clockwise rotation of 135° from inlet        | 第二出油口在进油口顺时针转90°<br>The second outlet is to clockwise rotation of 90° from inlet        |
| 第一出油口<br>从进油口顺<br>时针转90°C<br><br>The first outlet is<br>to clockwise<br>rotation of 90°<br>from inlet        | DA | 第二出油口在进油口逆时针转135°<br>The second outlet is to clockwise rotation of 135° from inlet        | 第二出油口在进油口对侧<br>The second outlet is the opposition side of inlet.                       |
|                                                                                                              | DB | 第二出油口在进油口逆时针转45°<br>The second outlet is to counterclockwise rotation of 45° from inlet   | 第二出油口在进油口逆时针转90°<br>The second outlet is to counterclockwise rotation of 90° from inlet |
|                                                                                                              | DC | 第二出油口在进油口顺时针转45°<br>The second outlet is to clockwise rotation of 45° from inlet          | 第二出油口在进油口同侧<br>The second outlet is the same side of inlet.                             |
|                                                                                                              | DD | 第二出油口在进油口顺时针转135°<br>The second outlet is to counterclockwise rotation of 135° from inlet | 第二出油口在进油口顺时针转90°<br>The second outlet is to clockwise rotation of 90° from inlet        |



## 安装连接尺寸 Installation sizes

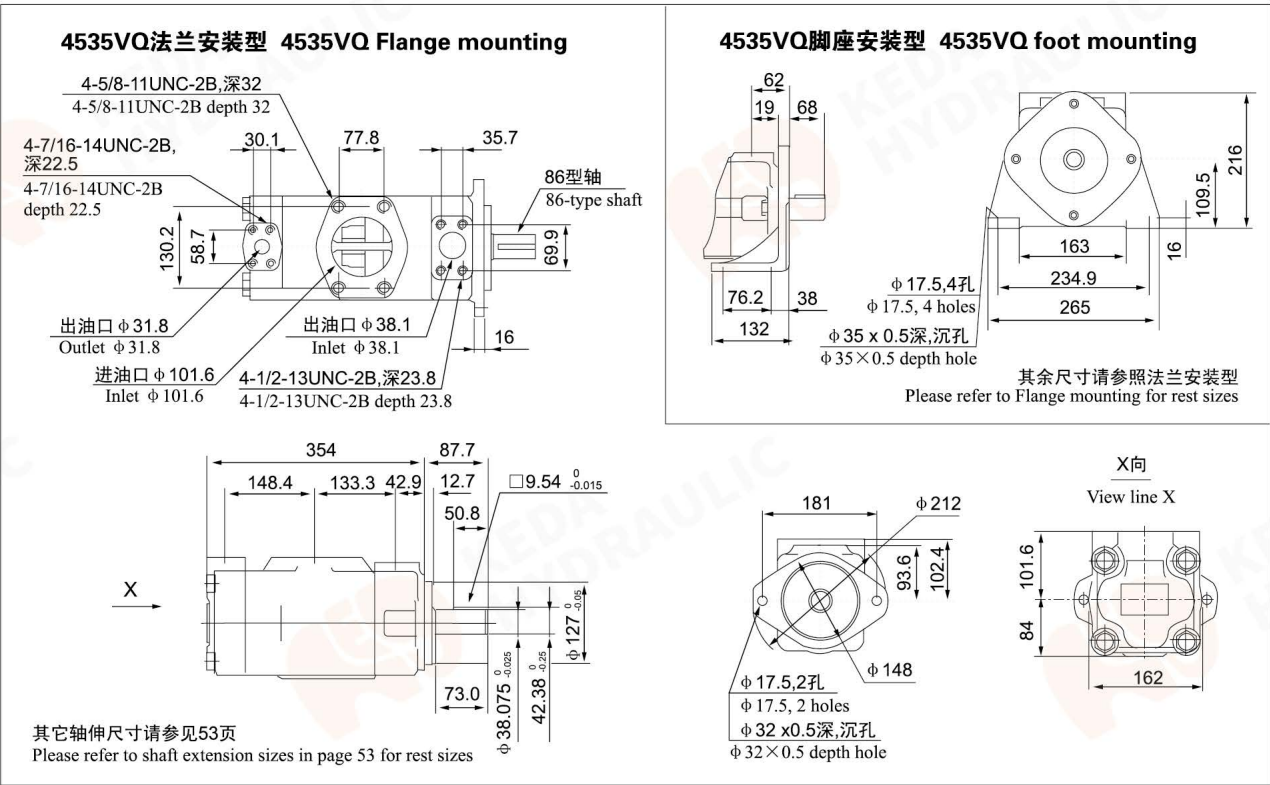
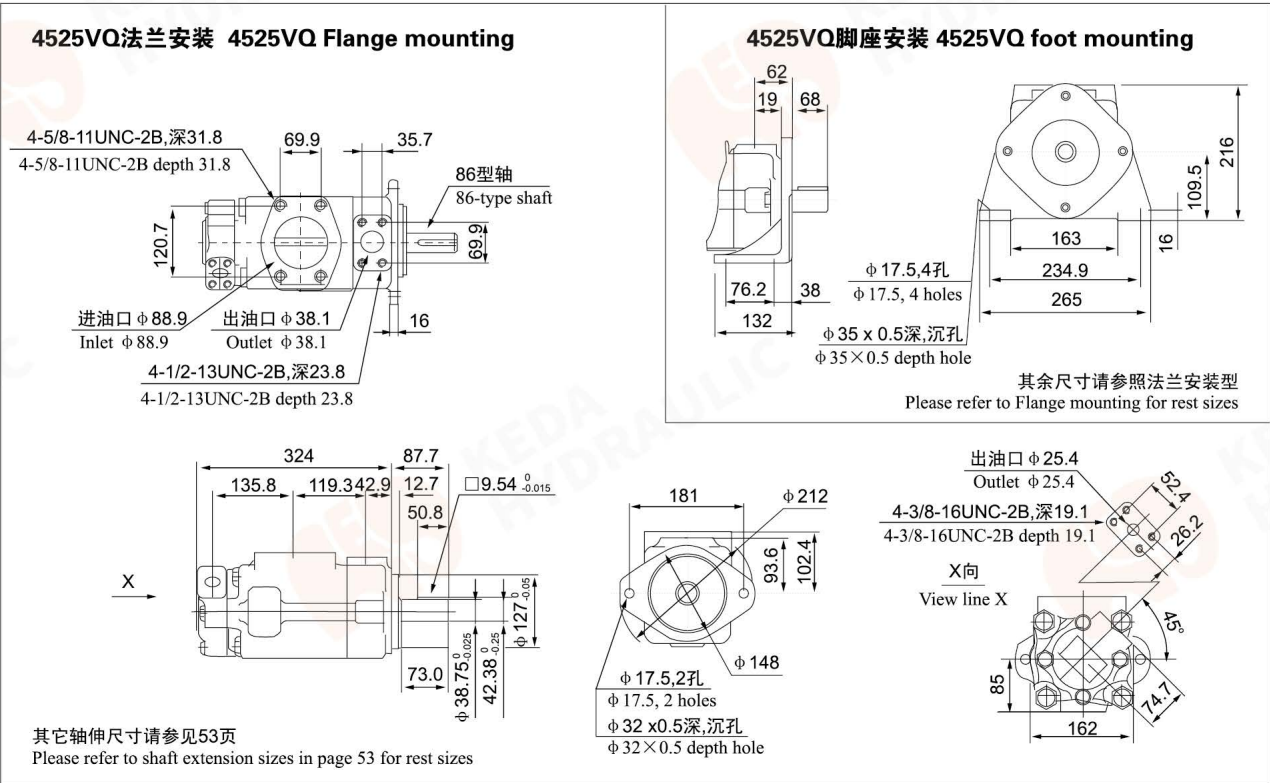


## 安装连接尺寸 Installation sizes





安装连接尺寸 Installation sizes



VQ系列泵芯 VQ series pump core

型号说明 Model Descriptions:

| (F3-)                                                                                                                                            | PC-                                                                                                                                              | 20VQ                         | -5                                                                                                  | -R                                                                                                             | -10                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------|
| 前注<br>Front marks                                                                                                                                | 泵芯标记<br>Pump core marks                                                                                                                          | 系列号<br>Models                | ▲排量代号<br>Displacement code                                                                          | 旋转方向<br>Direction of rotation                                                                                  | 设计号<br>Designing No. |
| 无标记:<br>石油系油乳化液<br>水-乙二醇<br>No mark:<br>water-in oil<br>emulsion of<br>petroleum<br>series<br>F:磷酸酯液<br>F:Sul phosuccinic<br>ester fatty of acid | PC-单泵泵芯<br>PC-single pump core<br>双联泵轴端泵芯<br>Shaft end core of double<br>vane pumps<br>PCT-双联泵盖端泵芯<br>PCT-cover end core of<br>double vane pumps | 20VQ<br>25VQ<br>35VQ<br>45VQ | 2,3,4,5,6,7,8,9,10,11,12,14<br>10,12,14,15,17,19,21<br>21,25,30,32,35,38,45<br>42,45,50,57,60,66,75 | (从泵的轴端看)<br>(from shaft end pump)<br>L-逆时针旋转<br>L-counterclockwise rotation<br>R-顺时针旋转<br>R-clockwise rotation | 10                   |

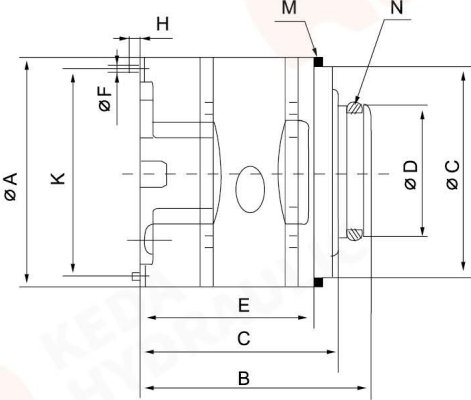
▲在1200r/min和0.69Mpa (100psi) 下的额定排量Usqpm。

The rated displacement USqpm is under the conditions of 1200r/min and 0.69 Mpa(100psi).

性能参数: 与相应系列, 规格的油泵性能参数一致, 详见VQ系列单泵的性能参数。

The specifications of double vane pumps are the same with relative series of single vane pumps. Please check details on the operating parameter sheets shown in VQ series of single vane pumps.

安装连接尺寸 Installation sizes

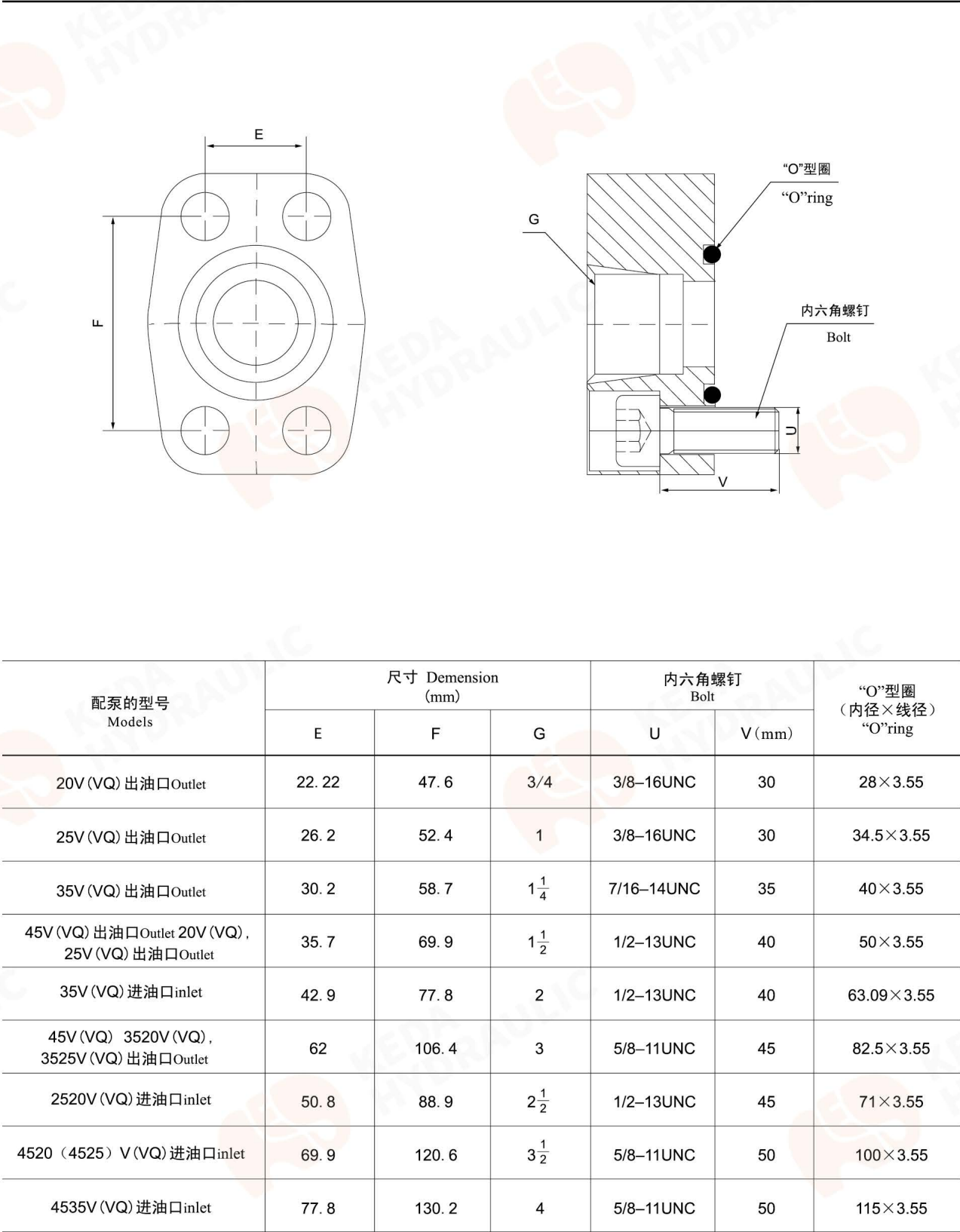


| 系列号<br>Models | A      | B     | C     | D    | E     | F   | G    | H  | K      | M (挡圈)<br>M (ring) | N(O型圈) (内径×线径)<br>N (O type ring)<br>(Inner diameter×lead wire diameter) |
|---------------|--------|-------|-------|------|-------|-----|------|----|--------|--------------------|--------------------------------------------------------------------------|
| 20VQ          | 82.5   | 81.5  | 70.1  | 47   | 61.5  | 4.8 | 76.2 | 6  | 73.6   | 82.76×76.26×3.5    | 40×3.5                                                                   |
| 25VQ          | 96.8   | 98.8  | 87    | 52.2 | 71.2  | 4.8 | 90.5 | 5  | 88.19  | 97×91×3.5          | 44×3.53                                                                  |
| 35VQ          | 114.3  | 117.7 | 105   | 72.2 | 90.3  | 6.4 | 108  | 6  | 103.94 | 114.5×108.5×3.5    | 63.09×3.53                                                               |
| 45VQ          | 133.35 | 141.1 | 129.6 | 80.2 | 105.5 | 6.4 | 127  | 10 | 133.35 | 133.6×127.6×3.5    | 71×3.55                                                                  |

| 系列号<br>Models | 转子内花键齿廓参数 Spline teeth No. in rotor |                    |                         |                      |                      |
|---------------|-------------------------------------|--------------------|-------------------------|----------------------|----------------------|
|               | 模数<br>Modulus                       | 齿数<br>No. of teeth | 标准压力角<br>Standard angle | 大径<br>Major diameter | 小径<br>Minor diameter |
| 20VQ          | 48/96                               | 30                 | 45°                     | 16.617               | 15.56                |
| 25VQ          | 48/96                               | 40                 | 45°                     | 21.9                 | 20.86                |
| 35VQ          | 40/80                               | 37                 | 45°                     | 24.38                | 23.1                 |
| 45VQ          | 12/24                               | 14                 | 30°                     | 32.59                | 27.60                |

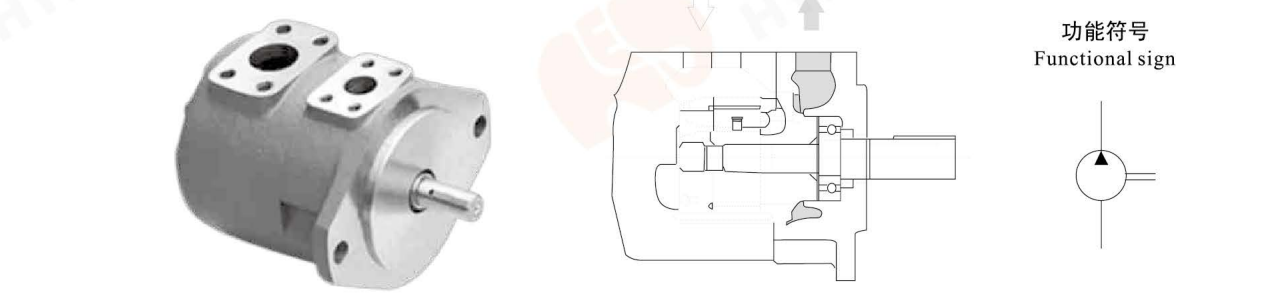


V ( VQ)泵配用法兰连接尺寸 V ( VQ ) Flange Installation sizes



SQP系列单泵 SQP series single pumps

产品外观 Shape



本系列是专为低噪音工况而开发的高压高性能子母叶片泵。适用于塑料机械，压铸机械，机床以及工程机械等要求噪音较低的液压系统中。其主要特点：

- 1、泵芯使用V系列子母叶片泵泵芯，完全互换，使用更灵活方便。
- 2、增加了脉动衰减结构的设计，极大降低了压力的脉动，使噪音更低，音质更流畅。
- 3、使用加厚的外壳设计，增加了泵的强度和抗震性，同时消音性能更优越。

SQP series single pumps are composition vane pumps with high pressure resistance and high performance, especially developed for application in the industries of plastic machinery, forging machinery, machine tool industry and engineering machinery, where lower noise is required. The main features are as follows:

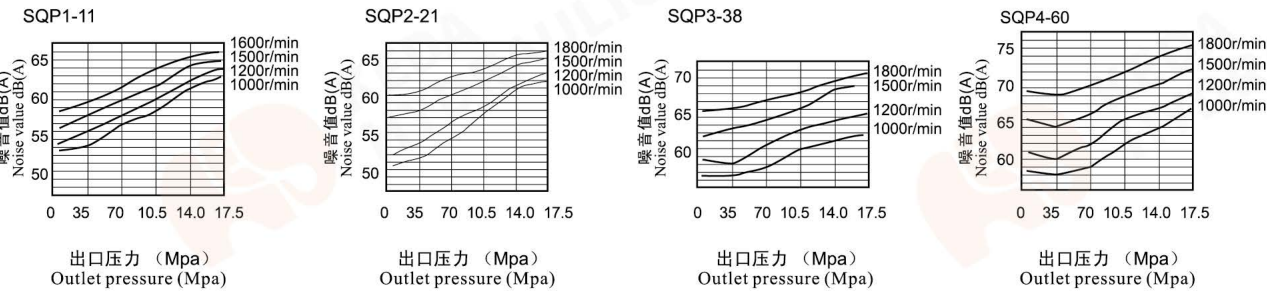
1. Adopt V series composition vane pump core, making the application flexible by its complete interchangeable advantage.
2. Adopt the structure of pulsation attenuation, dramatically reducing the pulsation of pressure with lower noise.
3. Adopt the designing with thick pump casing, making the pump with stronger strength, stronger vibration resistance and better performance of silencing.

型号说明 Model descriptions

| (F3-)                                                                                                                                                                    | SQP2                    | -21                            | -86                                                           | C                                                                                                                                                                                                                      | (F)                                                                             | (LH)                                                                                                                                  | -18                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--------------------------------|---------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 前注、油液相容性<br>Front marks, compatibility<br>between hydraulic oil and fluid                                                                                                | 泵壳号<br>Pump<br>shell No | ▲排量代号<br>Displacement<br>codes | 轴伸形式<br>Shaft extension                                       | 出口口位置<br>Outlet port position                                                                                                                                                                                          | 安装型式<br>Mounting<br>type                                                        | 旋转方向<br>Direction of<br>rotation                                                                                                      | 设计号<br>Designing<br>No. |
| 无标记-使用抗磨液压油或磷酸脂液<br>No marks- use anti-wear<br>hydraulic oil or<br>F11-使用水乙二醇液<br>F11- use water- glycol<br>fluid<br>F3-<br>使用油包水乳化液<br>F3- use water-in-oil<br>emulsion | SQP1                    | 2,3,4,5,6,7,8,9<br>10,11,12,14 | 1带键直轴<br>1 straight<br>shaft with key                         | (从泵的盖端看)<br>(from cover end pump)<br>A-进口油对侧<br>A- Opposition of inlet<br>B-从进口油逆时针90°<br>B- counterclockwise 90°<br>from inlet<br>C-进口油同侧<br>C- the same side of inlet<br>D-从进口油顺时针90°<br>D- Clockwise 90° from inlet | 无标记法<br>兰安装<br>No mark<br>Flange<br>mounting<br>F:<br>脚座安装型<br>foot<br>mounting | (从泵的盖端看)<br>(from cover end pump)<br>LH-逆时针旋转<br>LH-<br>counterclockwise<br>rotation<br>无标记<br>No mark<br>顺时针旋转<br>Clockwise rotation | 15                      |
|                                                                                                                                                                          | SQP2                    | 10,11,12,14,15,17,<br>19,21    | 86-重型带<br>键直轴<br>86- heavy-duty<br>straight shaft<br>with key |                                                                                                                                                                                                                        |                                                                                 |                                                                                                                                       | 18                      |
|                                                                                                                                                                          | SQP3                    | 21,25,30,32,35,<br>38,45       |                                                               |                                                                                                                                                                                                                        |                                                                                 |                                                                                                                                       |                         |
|                                                                                                                                                                          | SQP4                    | 42,45,50,57,60<br>66,75        |                                                               |                                                                                                                                                                                                                        |                                                                                 |                                                                                                                                       |                         |

▲在1200r/min和0.69MPa（100psi）下的额定排量USgpm。  
The rated displacement USgpm is under the conditions of 1200r/min and 0.69Mpa(100psi).

噪音数据 测试条件ISO VG32、(50℃), 距离1m  
Noise data testing conditions ISO VG32,(50℃), distance of 1m



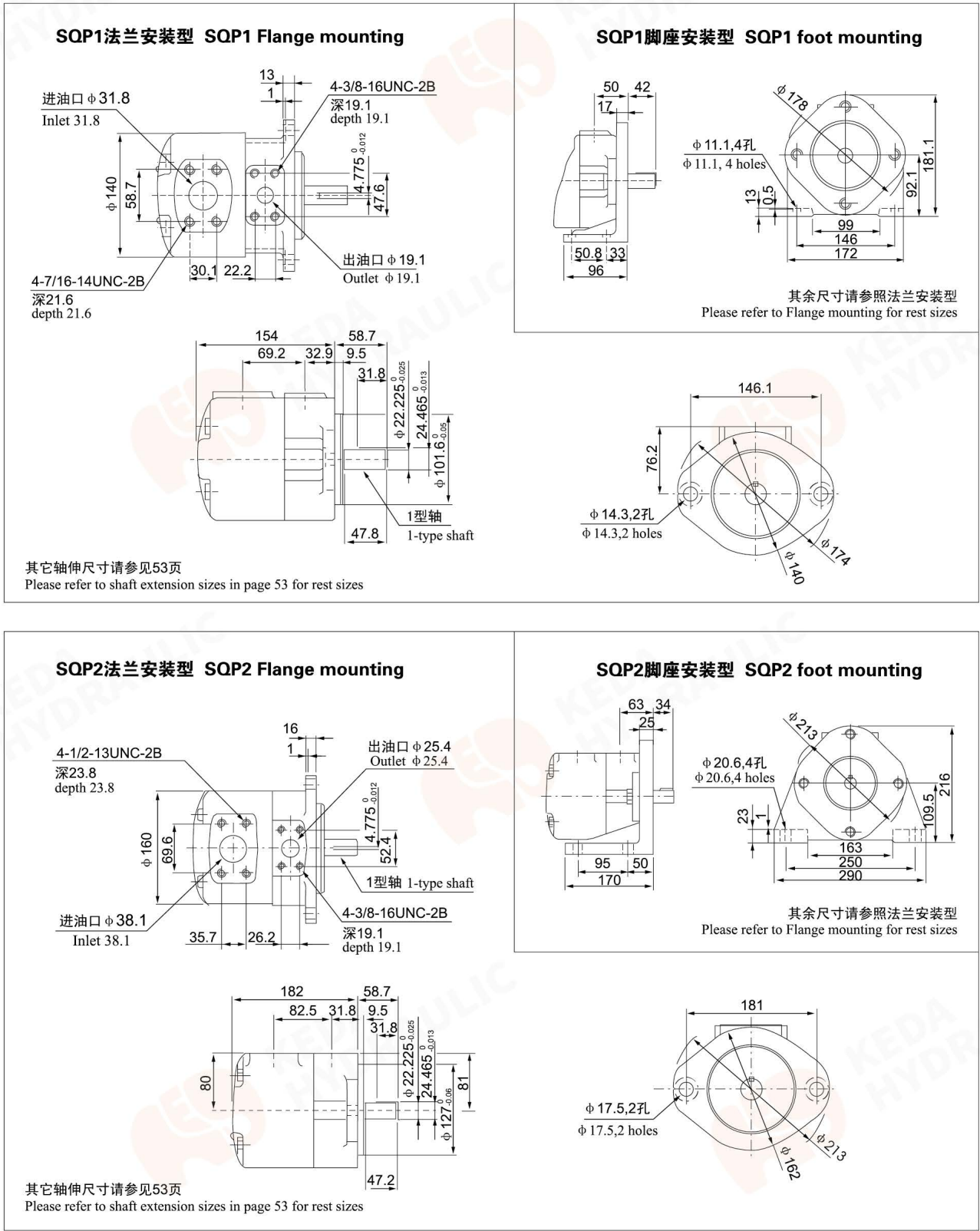


工作参数 Operating parameters

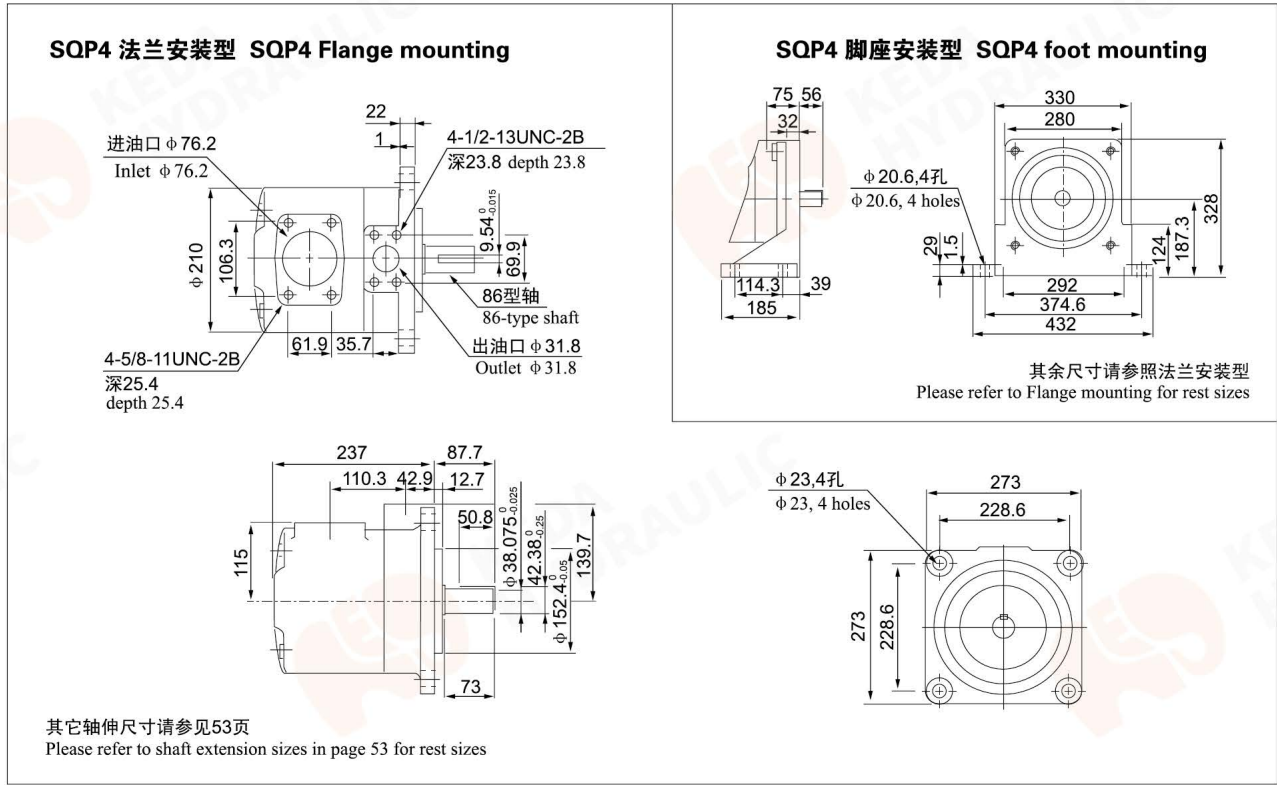
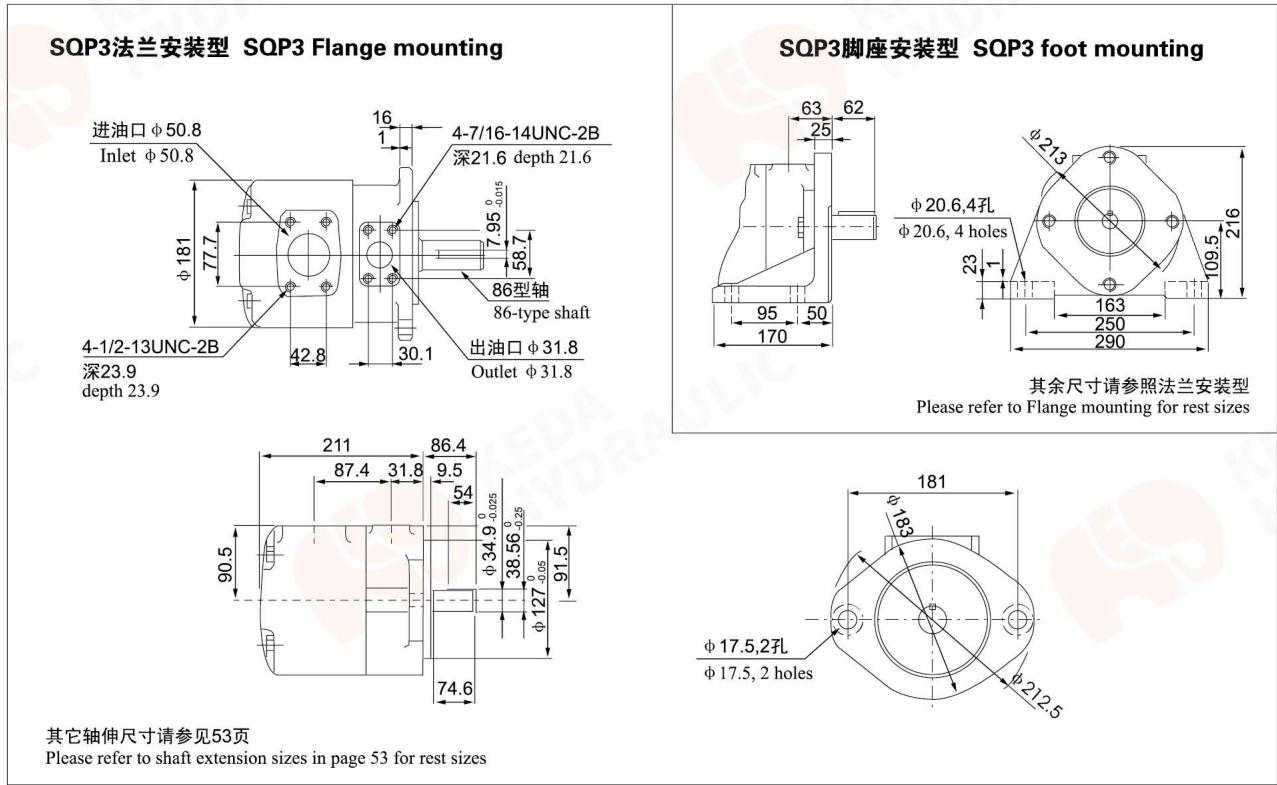
| 泵壳号<br>Pump<br>shell No | ●排量代号<br>Displacement<br>code | 几何排量<br>Geometric<br>displacement<br>(mL/r) | SQP                                                        |                              | F11-SQP                       |                              | F3-SQP                            |                              | 最低转速<br>Mini speed<br>(r/min) |      |      |      |
|-------------------------|-------------------------------|---------------------------------------------|------------------------------------------------------------|------------------------------|-------------------------------|------------------------------|-----------------------------------|------------------------------|-------------------------------|------|------|------|
|                         |                               |                                             | 使用抗磨液压油或磷酸酯液<br>Anti-wear hydraulic oil<br>or phospholipid |                              | 使用水乙二醇液<br>Water glycol fluid |                              | 使用油包水乳化液<br>Water-in-oil emulsion |                              |                               |      |      |      |
|                         |                               |                                             | 最高压力<br>Max pressure<br>(Mpa)                              | 最高转速<br>Max speed<br>(r/min) | 最高压力<br>Max pressure<br>(Mpa) | 最高转速<br>Max speed<br>(r/min) | 最高压力<br>Max pressure<br>(Mpa)     | 最高转速<br>Max speed<br>(r/min) |                               |      |      |      |
| SQP1                    | 2                             | 7.5                                         | 13.8                                                       | 1800                         | 13.8                          | 1200                         | 13.8                              | 1200                         | 600                           |      |      |      |
|                         | 3                             | 10.2                                        |                                                            |                              |                               |                              |                                   |                              |                               |      |      |      |
|                         | 4                             | 12.8                                        | 17.2                                                       |                              | 15.7                          |                              |                                   |                              |                               | 1200 | 13.8 | 1200 |
|                         | 5                             | 16.7                                        |                                                            |                              |                               |                              |                                   |                              |                               |      |      |      |
|                         | 6                             | 19.2                                        |                                                            |                              |                               |                              |                                   |                              |                               |      |      |      |
|                         | 7                             | 22.9                                        |                                                            |                              |                               |                              |                                   |                              |                               |      |      |      |
|                         | 8                             | 26.2                                        |                                                            |                              |                               |                              |                                   |                              |                               |      |      |      |
|                         | 9                             | 28.8                                        |                                                            |                              |                               |                              |                                   |                              |                               |      |      |      |
|                         | 10                            | 31.0                                        |                                                            |                              |                               |                              |                                   |                              |                               |      |      |      |
|                         | 11                            | 35.0                                        |                                                            |                              |                               |                              |                                   |                              |                               |      |      |      |
|                         | 12                            | 37.9                                        | 15.7                                                       |                              | 15.7                          |                              |                                   |                              |                               |      |      |      |
|                         | 14                            | 44.2                                        | 13.8                                                       |                              | 13.8                          |                              |                                   |                              |                               |      |      |      |
| SQP2                    | 10                            | 32.5                                        | 17.2                                                       | 1800                         | 17.2                          | 1200                         | 13.8                              | 1200                         | 600                           |      |      |      |
|                         | 12                            | 38.3                                        |                                                            |                              |                               |                              |                                   |                              |                               |      |      |      |
|                         | 14                            | 43.3                                        |                                                            |                              |                               |                              |                                   |                              |                               |      |      |      |
|                         | 15                            | 46.7                                        |                                                            |                              |                               |                              |                                   |                              |                               |      |      |      |
|                         | 17                            | 52.5                                        |                                                            |                              |                               |                              |                                   |                              |                               |      |      |      |
|                         | 19                            | 59.2                                        |                                                            |                              |                               |                              |                                   |                              |                               |      |      |      |
|                         | 21                            | 65.0                                        |                                                            |                              |                               |                              |                                   |                              |                               |      |      |      |
| SQP3                    | 21                            | 66.7                                        | 17.2                                                       | 1800                         | 17.2                          | 1200                         | 13.8                              | 1200                         | 600                           |      |      |      |
|                         | 25                            | 79.2                                        |                                                            |                              |                               |                              |                                   |                              |                               |      |      |      |
|                         | 30                            | 95.0                                        |                                                            |                              |                               |                              |                                   |                              |                               |      |      |      |
|                         | 32                            | 100                                         |                                                            |                              |                               |                              |                                   |                              |                               |      |      |      |
|                         | 35                            | 109                                         |                                                            |                              |                               |                              |                                   |                              |                               |      |      |      |
|                         | 38                            | 118                                         |                                                            |                              |                               |                              |                                   |                              |                               |      |      |      |
|                         | 45                            | 140                                         |                                                            |                              |                               |                              |                                   |                              |                               |      |      |      |
| SQP4                    | 42                            | 134                                         | 17.2                                                       | 1800                         | 17.2                          | 1200                         | 13.8                              | 1200                         | 600                           |      |      |      |
|                         | 45                            | 140                                         |                                                            |                              |                               |                              |                                   |                              |                               |      |      |      |
|                         | 50                            | 156                                         |                                                            |                              |                               |                              |                                   |                              |                               |      |      |      |
|                         | 57                            | 178                                         |                                                            |                              |                               |                              |                                   |                              |                               |      |      |      |
|                         | 60                            | 189                                         |                                                            |                              |                               |                              |                                   |                              |                               |      |      |      |
|                         | 66                            | 207                                         |                                                            |                              |                               |                              |                                   |                              |                               |      |      |      |
|                         | 75                            | 237                                         |                                                            |                              |                               |                              |                                   |                              |                               |      |      |      |

●在1200r/min和0.69MPa(100psi)下的额定排量USgpm。▲0.5秒内，允许超过最高压力10%的瞬时压力。  
The rated displacement USgpm is under the conditions of 1200r/min and 0.69Mpa(100psi).  
The instantaneous pressure is allowed to exceed 10% of the Max pressure for within 0.5 seconds long.

安装连接尺寸 Installation sizes

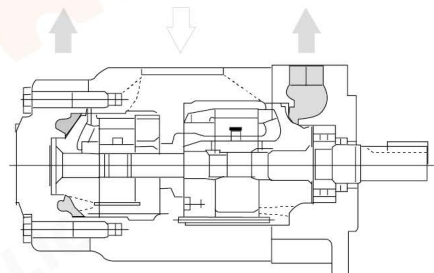


安装连接尺寸 Installation sizes

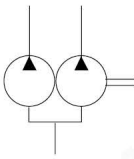


SQP系列双联泵 SQP series double vane pumps

产品外观 Shape



功能符号  
Functional signs



型号说明 Model descriptions:

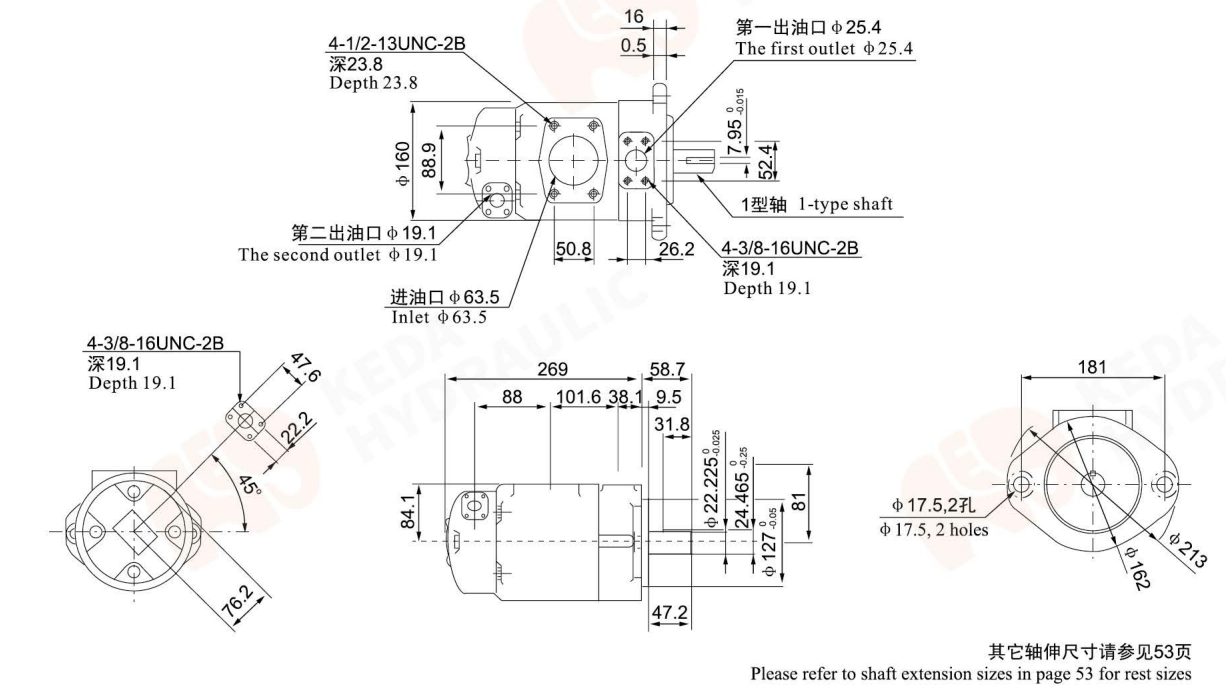
| (F3)                                                                                                | SQP32                 | 35                                              | 17                                              | 86                                                                                                      | CD                                      | (F)                                                                               | -(LH)                                                                                                                                | 18                      |
|-----------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------|-------------------------------------------------|---------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 前注<br>Front marks                                                                                   | 系列号<br>Code of series | ▲排量代号轴端泵<br>Displacement code<br>Shaft end pump | ▲排量代号盖端泵<br>Displacement code<br>cover end pump | 轴伸形式<br>Shaft extension                                                                                 | 油口位置<br>Pump<br>position                | 安装型式<br>Mounting<br>type                                                          | 旋转方向<br>Direction of<br>rotation                                                                                                     | 设计号<br>Designing<br>No. |
| 无标记-<br>使用抗磨液压油或磷酸酯液<br>No mark-anti-<br>wear hydraulic<br>oil or Sul<br>phosuccinic<br>ester fluid | SQP21                 | 10,12,14,15,17,<br>19,21                        | 2,3,4,5,6,7,8,9,<br>10,11,12,14                 | 1-带键直轴<br>1- straight shaft<br>with key<br><br>86-重型带键直轴<br>86-heavy-duty<br>straight shaft<br>with key | 见下表<br>See as the<br>following<br>table | 无标记-<br>法兰安装型<br>No marks-<br>Flange mounting<br><br>F-<br>脚座安装型<br>foot mounting | (从泵的轴端看)<br>(from shaft end pump)<br>LH-逆时针旋转<br>LH-counterclockwise<br>rotation<br><br>无标记<br>逆时针旋转<br>No marks<br>counterclockwise | 18                      |
| F11-<br>使用水乙二醇液<br>F1-adopt water<br>-glycol                                                        | SQP31                 | 21,25,30,32,35,<br>38,45                        | 2,3,4,5,6,7,8,9,<br>10,11,12,14                 |                                                                                                         |                                         |                                                                                   |                                                                                                                                      |                         |
| F3-<br>使用油包水乳<br>化液<br>F3- water-in-oil<br>emulsion                                                 | SQP41                 | 42,45,50,57,60,<br>66,75                        | 2,3,4,5,6,7,8,9,<br>10,11,12,14                 |                                                                                                         |                                         |                                                                                   |                                                                                                                                      |                         |
|                                                                                                     | SQP42                 | 42,45,50,57,60,<br>66,75                        | 10,12,14,15,17,<br>19,21                        |                                                                                                         |                                         |                                                                                   |                                                                                                                                      |                         |
|                                                                                                     | SQP43                 | 42,45,50,57,60,<br>66,75                        | 21,25,30,32,35,<br>38,45                        |                                                                                                         |                                         |                                                                                   |                                                                                                                                      |                         |

▲在1200r/min和0.69MPa(100psi)下的额定排量USgpm。  
The rated displacement USgpm is under the conditions of 1200r/min and 0.69Mpa(100psi).



## 安装连接尺寸 Installation sizes

### SQP21法兰安装型 SQP21 Flange mounting



**SQP31 法兰安装型 SQP31 Flange mounting**

进油口  $\phi 76.2$   
Inlet  $\phi 76.2$

第二出口口  $\phi 19.1$   
The second outlet  $\phi 19.1$

第一出口口  $\phi 31.8$   
The first outlet  $\phi 31.8$

86型轴 86-type shaft

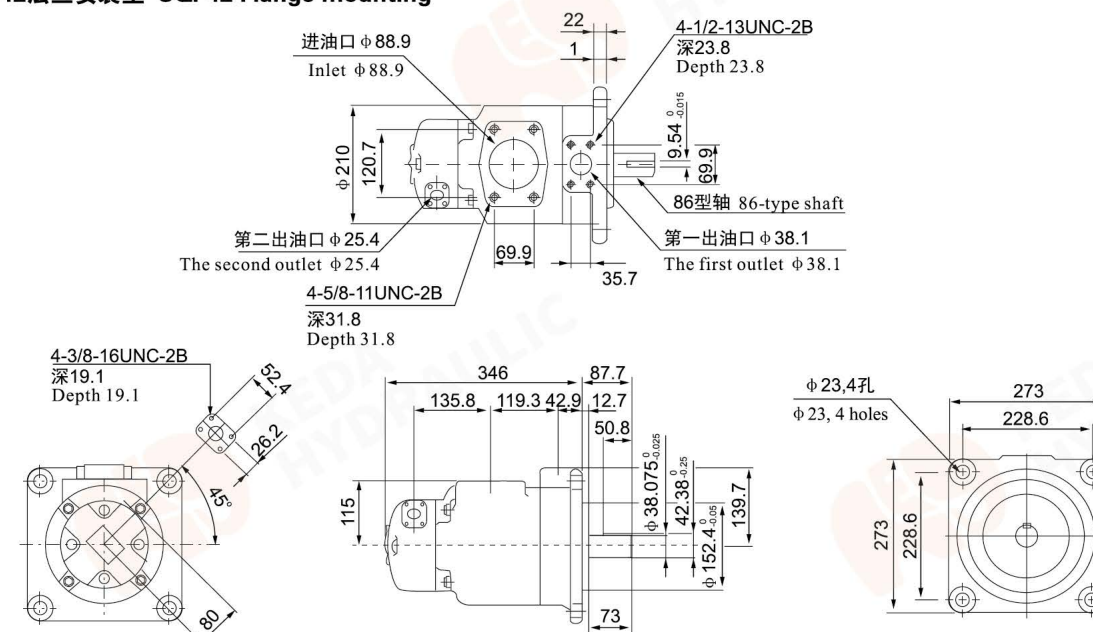
4-3/8-16UNC-2B  
深28.6  
Depth 28.6

4-7/16-14UNC-2B  
深21.6  
Depth 21.6

其它轴伸尺寸请参见53页  
Please refer to shaft extension sizes in page 53 for rest sizes

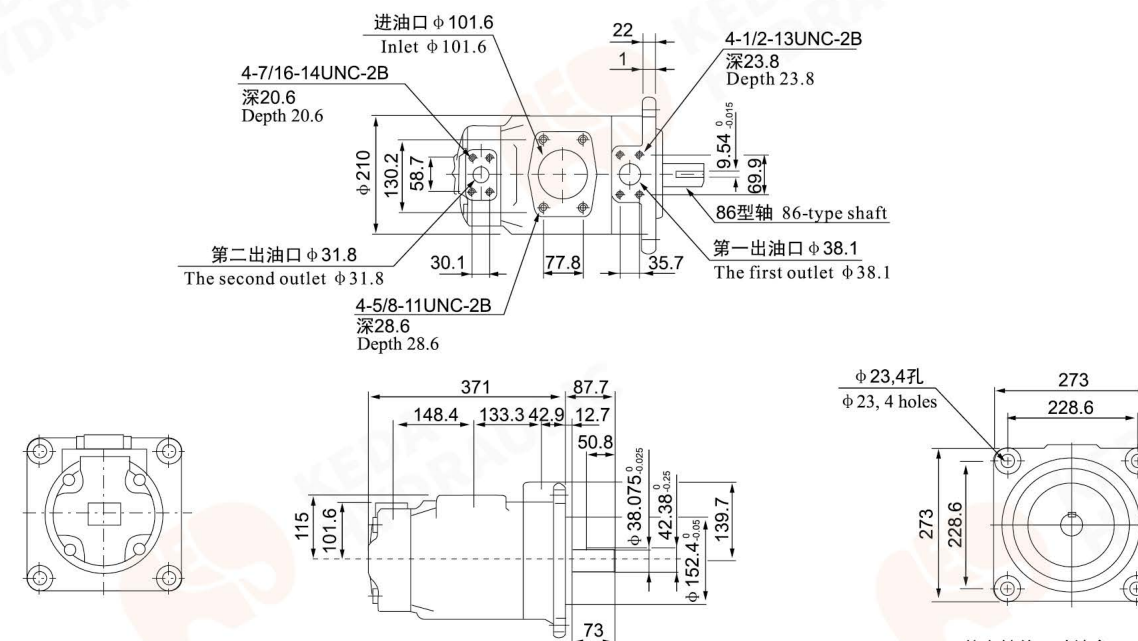
## 安装连接尺寸 Installation sizes

### SQP42法兰安装型 SQP42 Flange mounting



其它轴伸尺寸请参见53页  
Please refer to shaft extension sizes in page 53 for rest sizes

### SQP43 法兰安装型 SQP43 Flange mounting

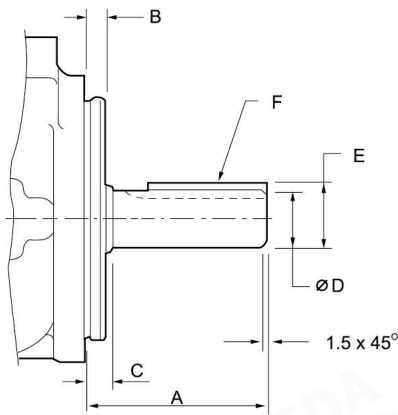


其它轴伸尺寸请参见53页  
Please refer to shaft extension sizes in page 53 for rest sizes

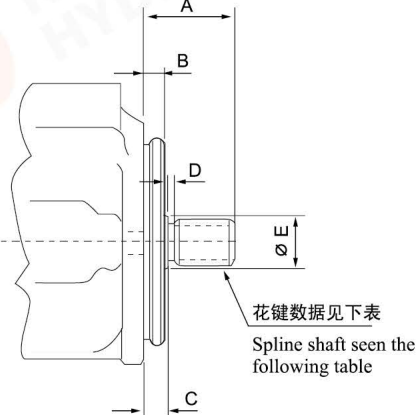


V/VQ/SQP系列叶片泵可选轴伸形式 V/VQ/SQP series vane pump shaft extension type

平键直轴  
Straight shaft



花键轴  
Spline shaft



平键直轴 Straight shaft with key

| 型 号 Models |        |       | 轴伸代号<br>Shaft code | A    | B    | C     | D           | E           | F键宽×长<br>F key width ×length |
|------------|--------|-------|--------------------|------|------|-------|-------------|-------------|------------------------------|
| V          | VQ     | SQP   |                    |      |      |       |             |             |                              |
| 20V        | 20VQ   | SQP1  | 1                  | 59   | 9.53 | 12.1  | 22.23/22.20 | 24.5/24.4   | 4.76×32                      |
| 25V        | 25VQ   | SQP2  | 1                  | 59   | 9.53 | 11.1  | 22.23/22.20 | 24.5/24.4   | 4.76×32                      |
| 2520V      | 2520VQ | SQP21 | 86                 | 78   | 9.53 | 11.1  | 25.37/25.35 | 28.3/28.1   | 6.36×50.8                    |
| 35V        | 35VQ   | SQP3  | 1                  | 73.2 | 9.53 | 11.1  | 31.75/31.70 | 35.36/34.10 | 7.94×38.1                    |
| 352*V      | 352*VQ | SQP3* | 86                 | 86   | 9.53 | 11.1  | 34.90/34.67 | 38.6/38.3   | 7.94×54                      |
| 45V        | 45VQ   | SQP4  | 1                  | 62   | 12.7 | 14.22 | 31.75/31.70 | 35.36/34.10 | 7.94×28.5                    |
| 45**V      | 45**VQ | SQP4* | 86                 | 87.4 | 12.7 | 14.22 | 38.07/38.05 | 42.4/42.1   | 9.54×50.8                    |

花键轴 Spline shaft

| 型 号 Models |        | 轴伸代号<br>Shaft code | A    | B    | C    | D    | E    | 花键数据（见下表）<br>Spline data<br>(see the following table) |
|------------|--------|--------------------|------|------|------|------|------|-------------------------------------------------------|
| V          | VQ     |                    |      |      |      |      |      |                                                       |
| 20V        | 20VQ   | 151                | 41.1 | 9.53 | 11.1 | 3.9  | 27.8 | A                                                     |
| 25V        | 25VQ   | 11                 | 44.5 | 9.53 | 11.1 | 3.9  | 27.8 | A                                                     |
| 2520V      | 2520VQ | 11                 | 58.7 | 9.53 | 11.1 | 6.35 | 35.1 | C                                                     |
| 35V        | 35VQ   | 11                 | 61.9 | 12.7 | 14.3 | 9.7  | 39.6 | C                                                     |
| 352*V      | 352*VQ | 11                 | 61.9 | 12.7 | 14.3 | 9.7  | 39.6 | C                                                     |
| 45V        | 45VQ   | 11                 | 61.9 | 12.7 | 14.3 | 9.7  | 39.6 | C                                                     |
| 45**V      | 45**VQ | 11                 | 61.9 | 12.7 | 14.3 | 9.7  | 39.6 | C                                                     |

花键数据表（渐开线花键） Spline data (Involute spline)

| 花键数据标记<br>Spline data tags | 齿数<br>Teeth No | 径节<br>Diametral pitches | 大径<br>Major diameters | 成形直径<br>Forming diameters | 小径<br>Minor diameters | 平齿根配合<br>Match with flat teeth    |
|----------------------------|----------------|-------------------------|-----------------------|---------------------------|-----------------------|-----------------------------------|
| A                          | 13             | 16/32                   | 22.17<br>22.15        | 19.03                     | 18.63<br>18.35        | 大径配合<br>Match with major diameter |
| C                          | 14             | 12/24                   | 31.7<br>31.67         | 27.2                      | 26.99<br>26.64        | 大径配合<br>Match with major diameter |

PV2R系列高压低噪音叶片泵 PV2R Series high pressure vane pumps with lower noise

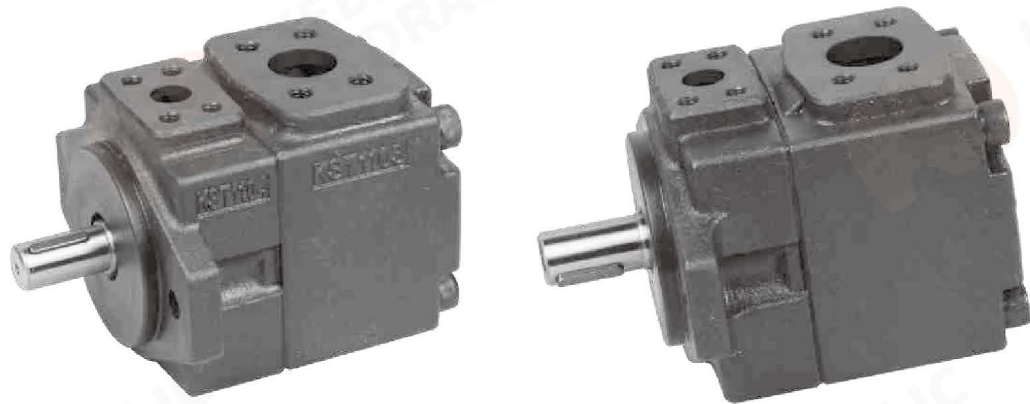
产品简介

PV2R系列高压低噪音叶片泵是本公司开发的新型产品，该泵是近年在综合国内外同类产品优点基础上研发的全新国产系列产品，具有结构合理、性能先进、效率高、噪声低、脉动小、可靠性好等特点。该泵规格齐全，安装连接尺寸符合国家标准和国际标准外，还有多个派生系列安装连接尺寸，可满足国内外同类产品替代要求，极大方便用户，广泛应用于机床、塑料机械、锻压机械、工程机械、交通运输机械等领域。

Products introduction

PV2R series high pressure vane pumps with lower noise are the new developed products with the integration of the advantages of similar products at home and aboard in recent years, with the features of rational structure, high performance, high efficiency, lower noise, small pulsation, strong reliability, etc. The pumps provide extreme convenience for users and meet the substitution requirements for similar products with full specifications, national and international standard mounting dimensions, as well as derivative series mounting dimensions, making the pumps widely applied in the fields of machine tool industry, plastic machinery, forging machinery, engineering machinery, transportation machinery, etc.

单泵 Single Pumps



型号说明 Model Descriptions

| PV2R1                               | 1                                        | —*                                       | —F                                       | —1                                                                   | —R                                                                                                           | —A                                                                         | —A                                         |
|-------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------|
| 叶片泵<br>产品代号<br>Vane pumps'<br>codes | 子系列号<br>Model of<br>subsidiary<br>series | 公称排量<br>ml/r<br>Nominal<br>displacement  | 安装型式<br>Mounting type                    | 轴伸形式<br>Shaft extension                                              | 旋转方向<br>Direction of<br>rotation                                                                             | 排出口位置<br>Outlet position                                                   | 吸入口位置<br>Inlet position                    |
| PV2R 1                              | 6,8,10,12,14,17,<br>19,23,25,28,31       | F:<br>法兰安装型<br><br>F:<br>Flange mounting | F:<br>法兰安装型<br><br>F:<br>Flange mounting | 1: 大轴标准<br>1: Major shaft<br>standard<br><br>2: 小轴<br>2: Minor shaft | (从轴端看)<br>R:顺时针方向<br>(右旋标准)<br>(from shaft end)<br>R: Clockwise<br>direction<br>(Right rotation<br>standard) | (从轴端看)<br>A:上方(标准)<br>R、B、L<br>(排出口A设定为上方)                                 | (从轴端看)<br>A:上方(标准)<br>B:下方<br>R:右方<br>L:左方 |
| PV2R 2                              | 26,33,41,47,<br>53,59,65,75              |                                          |                                          |                                                                      | (from shaft end)<br>A: Upper(Standard)<br>R、B、L<br>(排出口A设定为上方)                                               | (from shaft end)<br>A: Upper(Standard)<br>B: Bottom<br>R: Right<br>L: Left |                                            |
| PV2R 3                              | 52,60,66,76,85,94<br>116,125,136,153     |                                          |                                          |                                                                      | L:逆时针方向<br>(左旋)<br>L:Counterclockwise<br>direction<br>(Left rotation)                                        |                                                                            |                                            |

PV2R系列高压低噪音叶片泵 PV2R Series high pressure vane pumps with lower noise

技术参数 Technical parameters

| 产 品<br>型 号<br>Model | 理论排量<br>Theoretical<br>displacement<br>(mL/r) | 最高使用压力 Max pressure                       |                        |                     |                                                |                                                   | 允许转速<br>Allowed driving speed<br>(r /min) |             | 质量<br>Weight<br>(kg) |
|---------------------|-----------------------------------------------|-------------------------------------------|------------------------|---------------------|------------------------------------------------|---------------------------------------------------|-------------------------------------------|-------------|----------------------|
|                     |                                               | 石油系工作油<br>Working oil of Petroleum series |                        |                     | 水基合成液<br>Water-based synthetic hydraulic fluid |                                                   | 最 高<br>Max                                | 最 低<br>Mini |                      |
|                     |                                               | 高压用特定油<br>Particular<br>pressure oil      | 抗磨液压油<br>Anti-wear oil | 普通液压油<br>Common oil | 耐磨性水乙二醇<br>Anti-wear water<br>-glyco           | 磷酸酯脂肪酸酯<br>Sul phosuccinic<br>ester fatty of acid |                                           |             |                      |
| PV2R1-6             | 6.1                                           | 21                                        | 17.5                   | 16                  | 16                                             | 16                                                | 1800<br>(1200)                            | 750         | 8                    |
| PV2R1-8             | 8.1                                           |                                           |                        |                     |                                                |                                                   |                                           |             |                      |
| PV2R1-10            | 10.2                                          |                                           |                        |                     |                                                |                                                   |                                           |             |                      |
| PV2R1-12            | 12.3                                          |                                           |                        |                     |                                                |                                                   |                                           |             |                      |
| PV2R1-14            | 14.0                                          |                                           |                        |                     |                                                |                                                   |                                           |             |                      |
| PV2R1-17            | 16.3                                          |                                           |                        |                     |                                                |                                                   |                                           |             |                      |
| PV2R1-19            | 18.3                                          |                                           |                        |                     |                                                |                                                   |                                           |             |                      |
| PV2R1-23            | 22.5                                          |                                           |                        |                     |                                                |                                                   |                                           |             |                      |
| PV2R1-25            | 25.1                                          |                                           |                        |                     |                                                |                                                   |                                           |             |                      |
| PV2R1-28            | 27.6                                          |                                           |                        |                     |                                                |                                                   |                                           |             |                      |
| PV2R1-31            | 30.6                                          |                                           |                        |                     |                                                |                                                   |                                           |             |                      |
| PV2R2-26            | 25.4                                          | 21                                        | 17.5                   | 14                  | 16                                             | 14                                                | 1800<br>(1200)                            | 600         | 16                   |
| PV2R2-33            | 32.2                                          |                                           |                        |                     |                                                |                                                   |                                           |             |                      |
| PV2R2-41            | 40.5                                          |                                           |                        |                     |                                                |                                                   |                                           |             |                      |
| Pv2R2-47            | 46.2                                          |                                           |                        |                     |                                                |                                                   |                                           |             |                      |
| PV2R2-53            | 52.3                                          |                                           |                        |                     |                                                |                                                   |                                           |             |                      |
| PV2R2-59            | 58.2                                          |                                           |                        |                     |                                                |                                                   |                                           |             |                      |
| PV2R2-65            | 64.1                                          |                                           |                        |                     |                                                |                                                   |                                           |             |                      |
| PV2R2-75*           | 74.5                                          |                                           |                        |                     |                                                |                                                   |                                           |             |                      |
| PV2R3-52            | 51.5                                          | 21                                        | 17.5                   | 14                  | 16                                             | 14                                                | 1800<br>(1200)                            | 600         | 32                   |
| PV2R3-60            | 62.9                                          |                                           |                        |                     |                                                |                                                   |                                           |             |                      |
| PV2R3-66            | 67.0                                          |                                           |                        |                     |                                                |                                                   |                                           |             |                      |
| PV2R3-76            | 79.2                                          |                                           |                        |                     |                                                |                                                   |                                           |             |                      |
| PV2R3-85            | 84.5                                          |                                           |                        |                     |                                                |                                                   |                                           |             |                      |
| PV2R3-94            | 93.8                                          |                                           |                        |                     |                                                |                                                   |                                           |             |                      |
| PV2R3-116           | 113.2                                         |                                           |                        |                     |                                                |                                                   |                                           |             |                      |
| PV2R3-125           | 122.8                                         |                                           |                        |                     |                                                |                                                   |                                           |             |                      |
| PV2R3-136           | 135.8                                         | 17.5                                      | 16                     |                     | 14                                             |                                                   | 1200                                      |             | #34                  |
| PV2R3-153           | 152.8                                         |                                           |                        |                     |                                                |                                                   |                                           |             |                      |

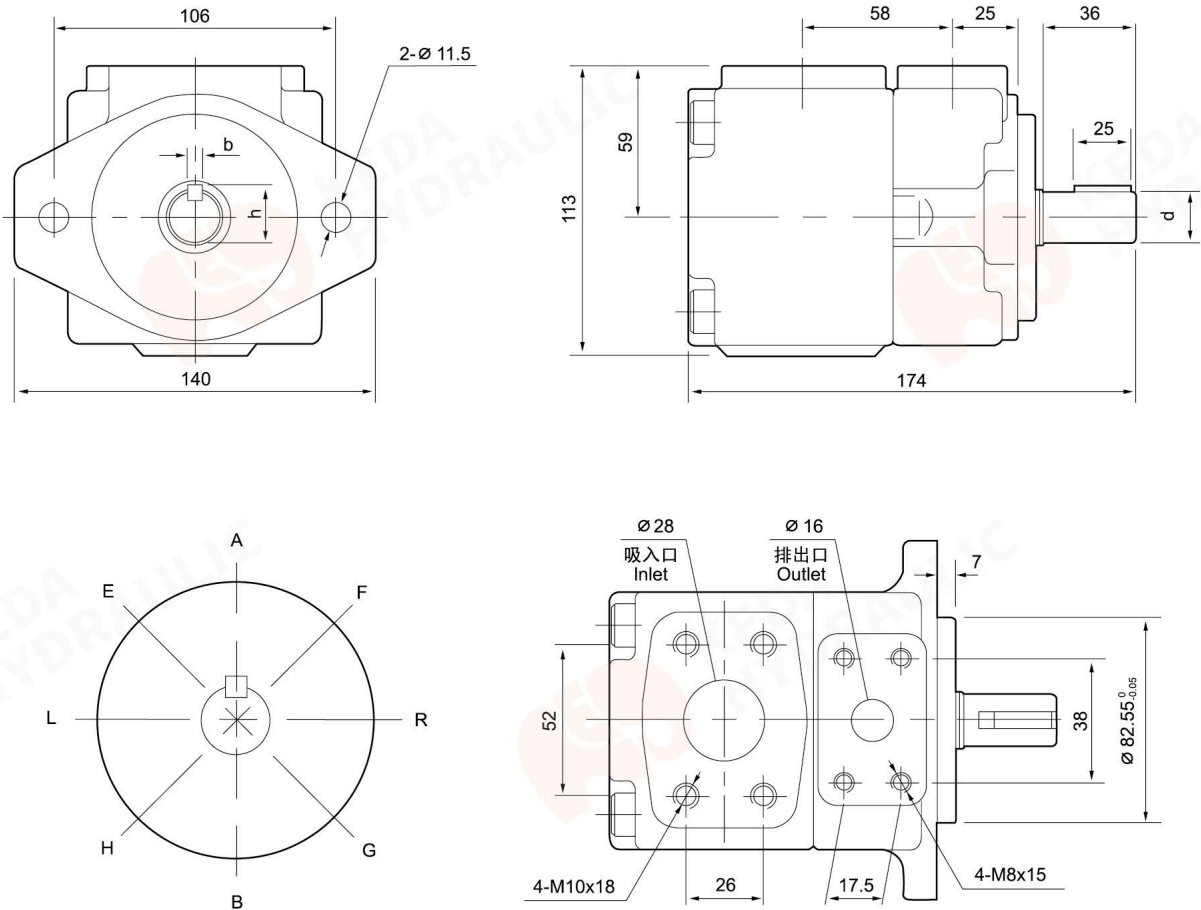
- 注：
- 1、公称排量“6”、“8”泵，超过16Mpa使用时，转速不低于1450r/min。
  - 2、使用水基、合成液压液时，最高转速限制在1200r / min。
  - 3、对于严格要求低噪声的场合，建议工作转速在1000r / min，最高工作压力在12~14MPa。
  - 4、有\*处为PV2R2-W组拓展规格，有#处为PV2R3-W组2个拓展规格，泵体加长10mm，安装尺寸相同，接受特殊订货。
  - 5、驱动功率近似计算：泵的排量（mL/r）X电机转速（r/min）X工作压力（MPa）/49000。计算结果单位为KW。

- Notes:
1. The rotation speed shall not be less than 1450r/min for the pumps with the nominal displacement of 6 ml/r or 8 ml/r working under the pressure exceeding 16Mpa.
  2. The highest rotation speed shall be limited within 1200r/min, while applying with water-based synthetic hydraulic fluids.
  3. It is recommended to work with rotation speed of 1000r/min and maximum pressure of 12-14Mpa on the occasion where lower noise is strictly required.
  4. Those pumps with the marks \* belong to the extension specification of PV2R2-W group. Those pumps with the marks # belong to the extension specification of PV2R3-W group. These two groups pump casing are 10mm longer than usual specification for special order.
  5. The approximate calculation formula for driving power is as follows: the displacement of pump(mL/r) × the rotation speed of motor(r/min) × the working pressure (Mpa) / 49000. The unit for the final calculation result is KW.

PV2R系列高压低噪音叶片泵 PV2R Series high pressure vane pumps with lower noise

外型及安装连接尺寸  
Shape and installation dimensions

法兰安装型：PV2R1-\* -F-1-RAA  
Flange mounting: PV2R1-\* -F-1-RAA



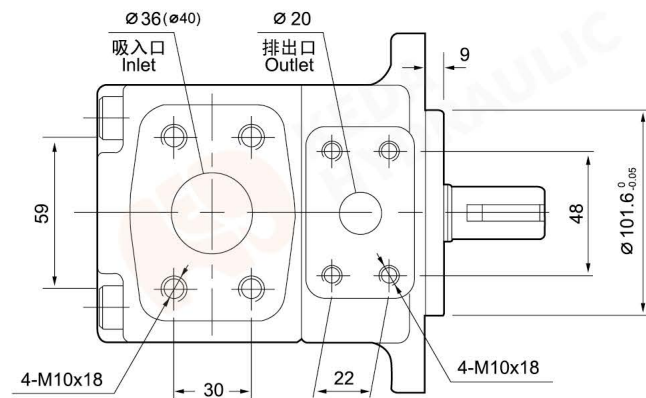
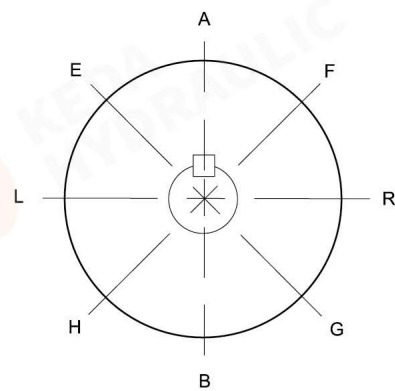
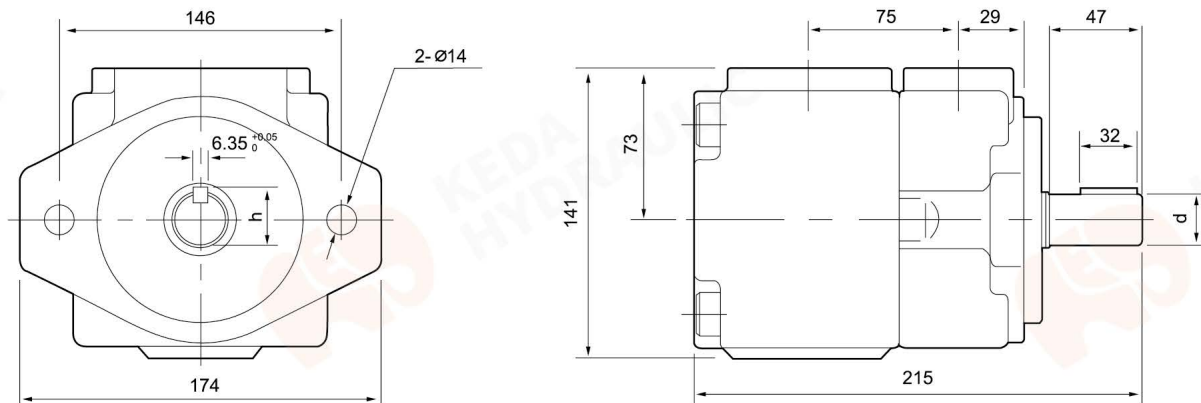
| 轴伸形式<br>Shaft extension | d                                    | b                                  | h                                   | 备注<br>Remarks     |
|-------------------------|--------------------------------------|------------------------------------|-------------------------------------|-------------------|
| 1                       | Ø19.05 <sup>0</sup> <sub>-0.03</sub> | 4.75 <sup>+0.03</sup> <sub>0</sub> | 21.24 <sup>0</sup> <sub>-0.16</sub> | 大轴<br>Major shaft |
| 2                       | Ø15.88 <sup>0</sup> <sub>-0.03</sub> | 3.97 <sup>+0.03</sup> <sub>0</sub> | 17.68 <sup>0</sup> <sub>-0.16</sub> | 小轴<br>Minor shaft |



## PV2R系列高压低噪音叶片泵 PV2R Series high pressure vane pumps with lower noise

### 外型及安装连接尺寸 Shape and installation dimensions

法兰安装型: PV2R2-\* -F-1-RAA  
Flange mounting: PV2R2-\* -F-1-RAA

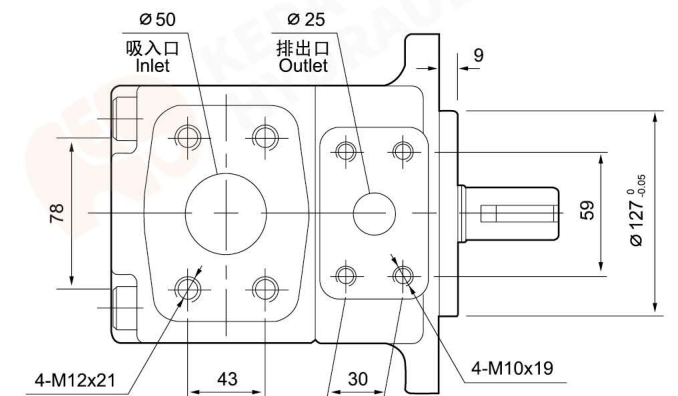
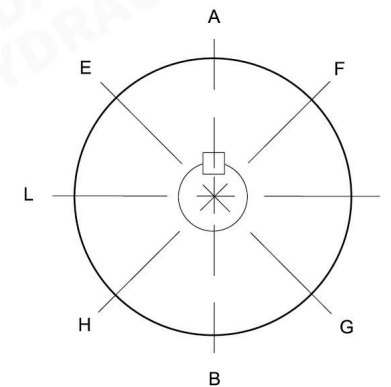
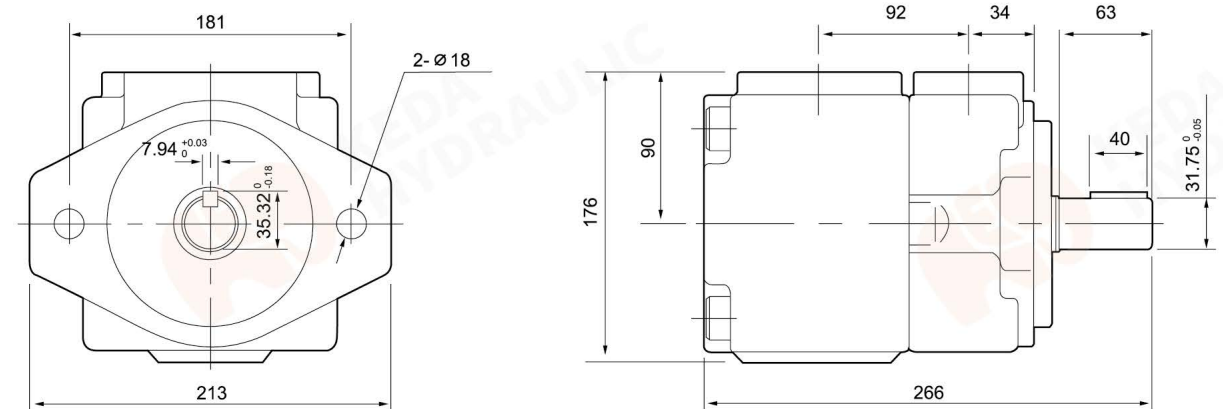


| 轴伸形式<br>Shaft extension | d                                      | h                                     | 备注<br>Remarks     |
|-------------------------|----------------------------------------|---------------------------------------|-------------------|
| 1                       | Ø25.4 <sup>0</sup> / <sub>-0.05</sub>  | 28.18 <sup>0</sup> / <sub>-0.18</sub> | 大轴<br>Major shaft |
| 2                       | Ø22.23 <sup>0</sup> / <sub>-0.03</sub> | 25.01 <sup>0</sup> / <sub>-0.18</sub> | 小轴<br>Minor shaft |

## PV2R系列高压低噪音叶片泵 PV2R Series high pressure vane pumps with lower noise

### 外型及安装连接尺寸 Shape and installation dimensions

法兰安装型: PV2R3-\* -F-1-RAA  
Flange mounting: PV2R3-\* -F-1-RAA



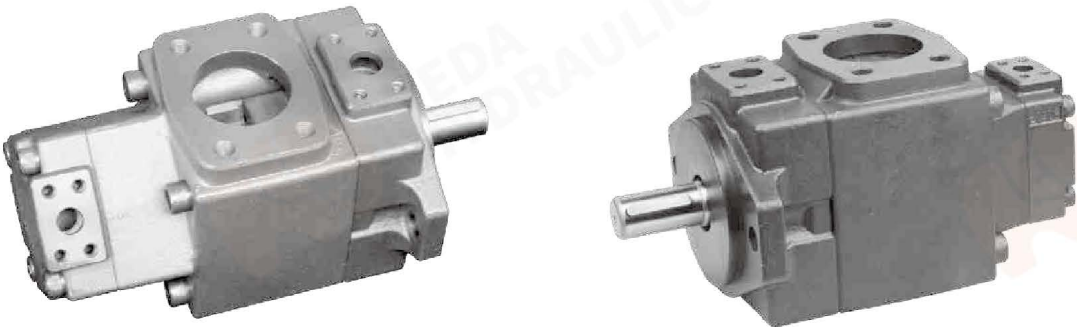
PV2R系列高压低噪音叶片泵 PV2R Series high pressure vane pumps with lower noise

双联叶片泵

本系列泵由同一轴驱动的两个PV2R系列单泵；并联组装在同一壳体内而成，具有一个共用进油口和两个可以输向两个独立回路的出油口；  
按照两个泵的系列组合，可获得多种流量。双泵的驱动功率为二单泵功率之和。

Double vane pumps

The double vane pumps are composed with two single PV2R series pumps, which were driving by one shaft and were assembled in parallel in one pump casing with one common inlet port and two outlet ports that connecting to two individual oil circuits.  
A variety of flows can be obtained by different combination of the two pumps. The power of double vane pumps is the power sum of two single vane pumps.



| PV2R                  | 13                                        | —*                                                       | —*                                                       | —F                                    | —1                                                                    | —R                                                                                                          | —A                                                                                                                                                                                   | —A                                                                                         | —A                                    |
|-----------------------|-------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|---------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------|
| 叶片泵<br>产品代号<br>Models | 子系列号<br>Code of<br>subsidiaries<br>series | 盖端泵<br>公称排量<br>Cover end pump<br>displacement<br>(mL/ r) | 轴端泵<br>公称排量<br>Shaft end pump<br>displacement<br>(mL/ r) | 安装型式<br>Mounting<br>type              | 轴伸形式<br>Shaft<br>extension                                            | 旋转方向<br>Direction of<br>rotation                                                                            | 盖端泵<br>排出口位置<br>Cover end pump<br>outlet position                                                                                                                                    | 轴端泵<br>排出口位置<br>Shaft end pump<br>outlet position                                          | 吸入口位置<br>Inlet position               |
| PV2R 12               |                                           | 6, 8,<br>10, 12,<br>14, 17,<br>19, 23,<br>25, 28,<br>31  | 26, 33,<br>41, 47,<br>53, 59,<br>65, 75                  |                                       |                                                                       | (从轴端看)<br>R:顺时针方向<br>(右旋标准)<br>(from shaft end)<br>R:Clockwise<br>direction<br>(Right rotation<br>standard) | (从轴端看)<br>E:左上方45°(标准)<br>F:右上方45°<br>G:右下方45°<br>H:左下方45°<br>(from shaft end)<br>E: Upper left 45°<br>(Standard)<br>F: Upper right 45°<br>G: Bottom right 45°<br>H: Bottom left 45° | A: 上方 (标准)<br>轴端泵的<br>排出口位置<br>设定为上方                                                       |                                       |
| PV2R 13               |                                           | 6, 8,<br>10, 12,<br>14, 17,<br>19, 23,<br>25, 28,<br>31  | 52, 60,<br>66, 76,<br>85, 94,<br>116, 125,<br>136, 153,  | F: 法兰安装型<br><br>F: Flange<br>mounting | 1:大轴标准<br>1: Major shaft<br>standard<br><br>2:小轴<br>2: Minor<br>shaft | L:逆时针方向<br>(左旋)<br><br>L:Counterclockwise<br>Direction<br>(Left rotation)                                   | A: 上方 (标准)<br>B: 下方<br>R:右方45°<br>L:左方<br><br>A: Upper (standard)<br>B: Bottom<br>R: Right<br>L: Left                                                                                | A: Upper (standard)<br>outlet position<br>of shaft end<br>pump<br>shall be set as<br>upper | A: 上方 (标准)<br>B: 下方<br>R: 右方<br>L: 左方 |
| PV2R 23               |                                           | 26, 33,<br>41, 47,<br>53, 59,<br>65, 75                  | 52, 60,<br>66, 76,<br>85, 94,<br>116, 125,<br>136, 153,  |                                       |                                                                       |                                                                                                             | E:左上方45°(标准)<br>F:右上方45°<br>G:右下方45°<br>H:左下方45°<br>(from shaft end)<br>E: Upper left 45°<br>(Standard)<br>F: Upper right 45°<br>G: Bottom right 45°<br>H: Bottom left 45°           |                                                                                            |                                       |

PV2R系列高压低噪音叶片泵 PV2R Series high pressure vane pumps with lower noise

技术参数 Technical parameters

| 产品<br>型号<br>Model | 油泵出口<br>Outlet                    | 公称排量<br>Nominal<br>displacement<br>(ml/r) | 最高使用压力 Max pressure                       |                        |                     |                                                |                                                   | 允许转速<br>Allowed driving speed<br>(r /min)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            | 质量<br>Weight<br>(kg) |
|-------------------|-----------------------------------|-------------------------------------------|-------------------------------------------|------------------------|---------------------|------------------------------------------------|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------------------|
|                   |                                   |                                           | 石油系工作油<br>Working oil of Petroleum series |                        |                     | 水基合成液<br>Water-based synthetic hydraulic fluid |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |                      |
|                   |                                   |                                           | 高压用特定油<br>Particular<br>pressure oil      | 抗磨液压油<br>Anti-wear oil | 普通液压油<br>Common oil | 耐磨性水乙二醇<br>Anti-wear water<br>-glyco           | 磷酸酯脂肪酸酯<br>Sul phosuccinic<br>ester fatty of acid | 最高<br>Max                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 最低<br>Mini |                      |
| PV2R12            | 盖端泵<br>Cove end pump<br><br>PV2R1 | -6                                        | 21                                        | 17.5                   | 14                  | 16                                             | 14                                                | 1800<br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br> |            |                      |

注：  
1、使用水基、合成液液压时，最高转速限制在1200r / min。  
2、对于严格要求低噪声的场合，建议工作转速在1000r / min，最高工作压力在12-14MPa。  
Notes:  
1. The highest rotation speed shall be limited within 1200r/min, while adopting water-based synthetic hydraulic fluids.  
2. It is recommended to work with rotation speed of 1000r/min and maximum pressure of 12-14Mpa on the occasion where lower noise is strictly required.



PV2R系列高压低噪音叶片泵 PV2R Series high pressure vane pumps with lower noise

技术参数 Technical parameters

| 产品<br>型号<br>Model | 油泵出口<br>Outlet                    | 公称排量<br>Nominal<br>displacement<br>(ml/r) | 最高使用压力 Max pressure                       |                        |                     |                                                |                                                   | 允许转速<br>Allowed driving speed<br>(r /min) |      | 质量<br>Weight<br>(kg) |
|-------------------|-----------------------------------|-------------------------------------------|-------------------------------------------|------------------------|---------------------|------------------------------------------------|---------------------------------------------------|-------------------------------------------|------|----------------------|
|                   |                                   |                                           | 石油系工作油<br>Working oil of Petroleum series |                        |                     | 水基合成液<br>Water-based synthetic hydraulic fluid |                                                   |                                           |      |                      |
|                   |                                   |                                           | 高压用特定油<br>Particular<br>pressure oil      | 抗磨液压油<br>Anti-wear oil | 普通液压油<br>Common oil | 耐磨性水乙二醇<br>Anti-wear water<br>-glyco           | 磷酸酯脂肪酸酯<br>Sul phosuccinic<br>ester fatty of acid |                                           |      |                      |
| PV2R13            | 盖端泵<br>Cove end pump<br><br>PV2R1 | -6                                        | 21                                        | 17.5                   | 16                  | 16                                             | 16                                                | 1800                                      | 750  | 37.5                 |
|                   |                                   | -8                                        |                                           |                        |                     |                                                |                                                   |                                           |      |                      |
|                   |                                   | -10                                       |                                           |                        |                     |                                                |                                                   |                                           |      |                      |
|                   |                                   | -12                                       |                                           |                        |                     |                                                |                                                   |                                           |      |                      |
|                   |                                   | -14                                       |                                           |                        |                     |                                                |                                                   |                                           |      |                      |
|                   |                                   | -17                                       |                                           |                        |                     |                                                |                                                   |                                           |      |                      |
|                   |                                   | -19                                       |                                           |                        |                     |                                                |                                                   |                                           |      |                      |
|                   |                                   | -23                                       |                                           |                        |                     |                                                |                                                   |                                           |      |                      |
|                   |                                   | -25                                       |                                           |                        |                     |                                                |                                                   |                                           |      |                      |
|                   |                                   | -28                                       |                                           |                        |                     |                                                |                                                   |                                           |      |                      |
|                   |                                   | -31                                       |                                           |                        | 14                  | 14                                             | (1200)                                            | 600                                       |      |                      |
|                   | -52                               |                                           |                                           |                        |                     |                                                |                                                   |                                           |      |                      |
|                   | -60                               |                                           |                                           |                        |                     |                                                |                                                   |                                           |      |                      |
|                   | -66                               |                                           |                                           |                        |                     |                                                |                                                   |                                           |      |                      |
|                   | -76                               |                                           |                                           |                        |                     |                                                |                                                   |                                           |      |                      |
|                   | -85                               |                                           |                                           |                        |                     |                                                |                                                   |                                           |      |                      |
|                   | -94                               |                                           |                                           |                        |                     |                                                |                                                   |                                           |      |                      |
|                   | -116                              |                                           |                                           |                        |                     |                                                |                                                   |                                           |      |                      |
|                   | -125                              |                                           |                                           |                        |                     |                                                |                                                   |                                           |      |                      |
|                   | -136                              | 17.5                                      | 16                                        | 14                     |                     |                                                |                                                   |                                           | 1200 |                      |
|                   | -153                              |                                           |                                           |                        |                     |                                                |                                                   |                                           |      |                      |

注：  
1、使用水基、合成液液压时，最高转速限制在1200r / min。  
2、对于严格要求低噪声的场合，建议工作转速在1000r / min，最高工作压力在12-14MPa。

Notes:  
1. The highest rotation speed shall be limited within 1200r/min, while adopting water-based synthetic hydraulic fluids.  
2. It is recommended to work with rotation speed of 1000r/min and maximum pressure of 12-14Mpa on the occasion where lower noise is strictly required.

PV2R系列高压低噪音叶片泵 PV2R Series high pressure vane pumps with lower noise

技术参数 Technical parameters

| 产品<br>型号<br>Model | 油泵出口<br>Outlet                    | 公称排量<br>Nominal<br>displacement<br>(ml/r) | 最高使用压力 Max pressure                       |                        |                     |                                                |                                                   | 允许转速                              |            | 质量<br>Weight<br>(kg) |
|-------------------|-----------------------------------|-------------------------------------------|-------------------------------------------|------------------------|---------------------|------------------------------------------------|---------------------------------------------------|-----------------------------------|------------|----------------------|
|                   |                                   |                                           | 石油系工作油<br>Working oil of Petroleum series |                        |                     | 水基合成液<br>Water-based synthetic hydraulic fluid |                                                   | Allowed driving speed<br>(r /min) |            |                      |
|                   |                                   |                                           | 高压用特定油<br>Particular<br>pressure oil      | 抗磨液压油<br>Anti-wear oil | 普通液压油<br>Common oil | 耐磨性水乙二醇<br>Anti-wear water<br>-glyco           | 磷酸酯脂肪酸脂<br>Sul phosuccinic<br>ester fatty of acid | 最高<br>Max                         | 最低<br>Mini |                      |
| PV2R23            | 盖端泵<br>Cove end pump<br><br>PV2R2 | -26                                       | 21                                        | 17.5                   | 14                  | 16                                             | 14                                                | 1800                              |            | 45                   |
|                   |                                   | -33                                       |                                           |                        |                     |                                                |                                                   |                                   |            |                      |
|                   |                                   | -41                                       |                                           |                        |                     |                                                |                                                   |                                   |            |                      |
|                   |                                   | -47                                       |                                           |                        |                     |                                                |                                                   |                                   |            |                      |
|                   |                                   | -53                                       |                                           |                        |                     |                                                |                                                   |                                   |            |                      |
|                   |                                   | -59                                       |                                           |                        |                     |                                                |                                                   |                                   |            |                      |
|                   |                                   | -65                                       |                                           |                        |                     |                                                |                                                   |                                   |            |                      |
|                   | 轴端泵<br>Bearing pump<br><br>PV2R3  | -52                                       |                                           |                        |                     |                                                |                                                   | (1200)                            |            |                      |
|                   |                                   | -60                                       |                                           |                        |                     |                                                |                                                   |                                   |            |                      |
|                   |                                   | -66                                       |                                           |                        |                     |                                                |                                                   |                                   |            |                      |
|                   |                                   | -76                                       |                                           |                        |                     |                                                |                                                   |                                   |            |                      |
|                   |                                   | -85                                       |                                           |                        |                     |                                                |                                                   |                                   |            |                      |
|                   |                                   | -94                                       |                                           |                        |                     |                                                |                                                   |                                   |            |                      |
|                   |                                   | -116                                      | 17.5                                      | 16                     | 14                  | 1200                                           |                                                   |                                   |            |                      |
|                   |                                   | -125                                      |                                           |                        |                     |                                                |                                                   |                                   |            |                      |
|                   |                                   | 136                                       |                                           |                        |                     |                                                |                                                   |                                   |            |                      |
|                   |                                   | 153                                       |                                           |                        |                     |                                                |                                                   |                                   |            |                      |

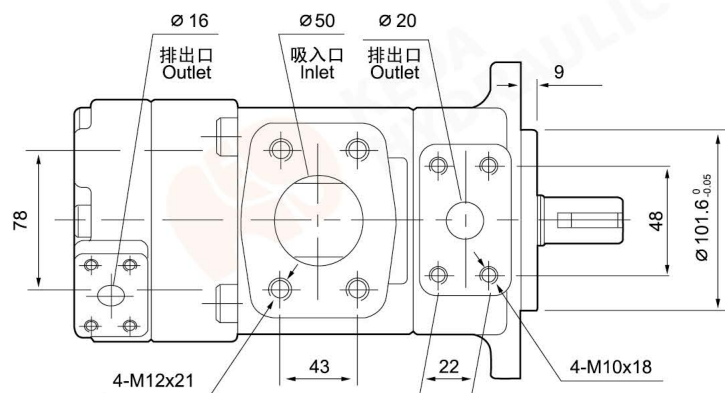
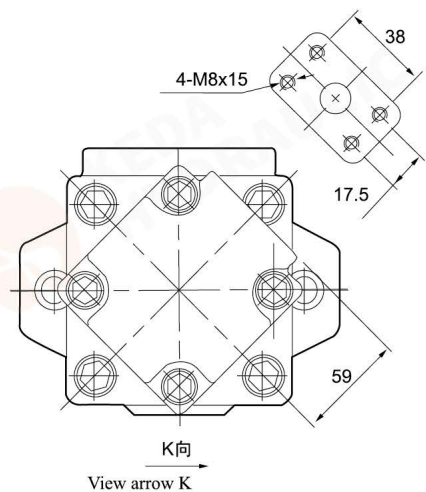
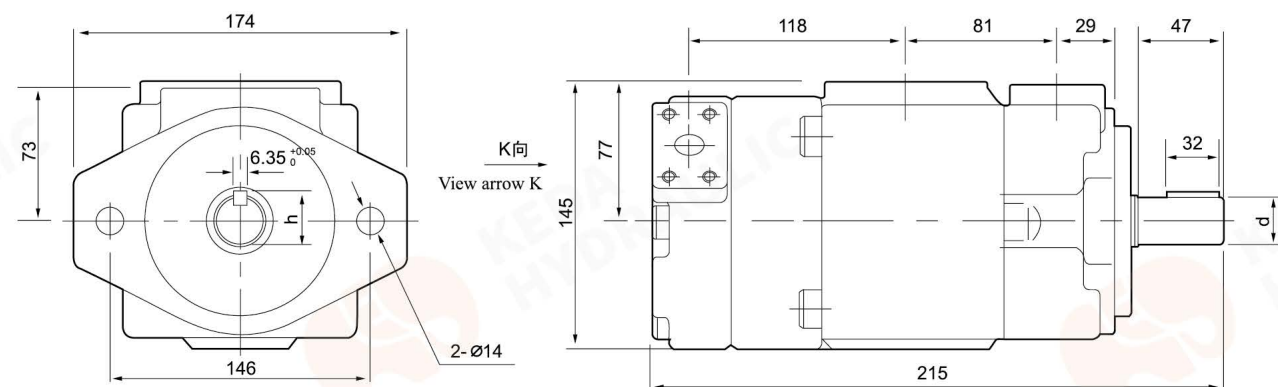
注：  
1、使用水基、合成液液压时，最高转速限制在1200r / min。  
2、对于严格要求低噪声的场合，建议工作转速在1000r / min，最高工作压力在12-14MPa。

Notes:  
1. The highest rotation speed shall be limited within 1200r/min, while adopting water-based synthetic hydraulic fluids.  
2. It is recommended to work with rotation speed of 1000r/min and maximum pressure of 12-14Mpa on the occasion where lower noise is strictly required.

## PV2R系列高压低噪音叶片泵 PV2R Series high pressure vane pumps with lower noise

### 外型及安装连接尺寸 Shape and installation dimensions

法兰安装型: PV2R12-\*/\*-F-1-REAA  
Flange mounting: PV2R12-\*/\*-F-1-REAA

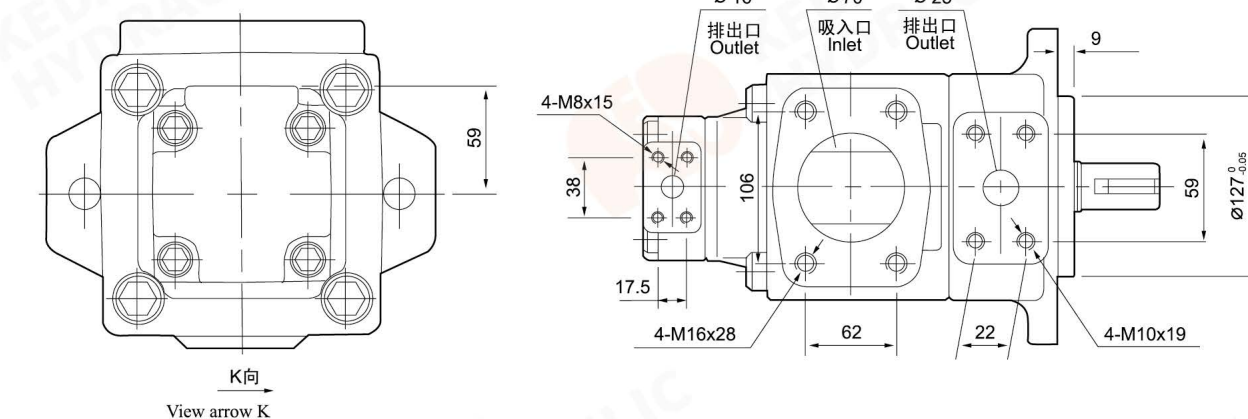
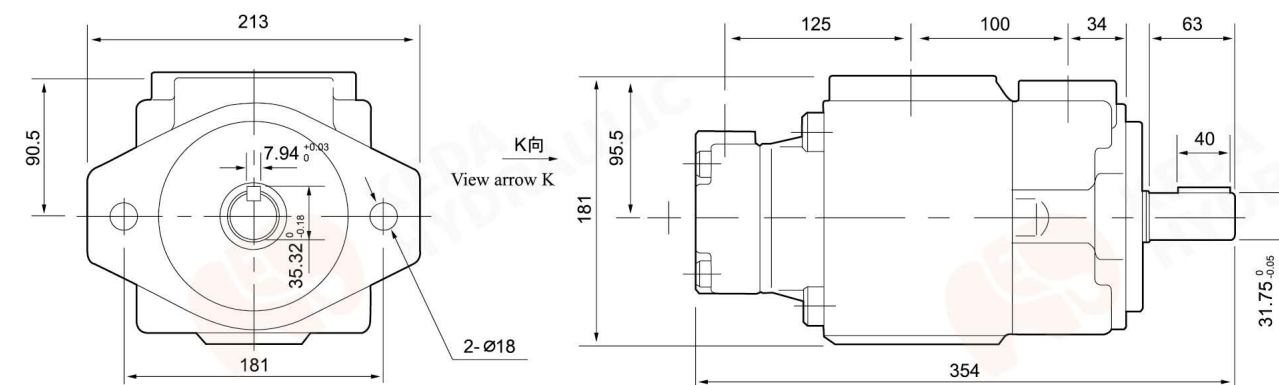


| 轴伸形式<br>Shaft extension | d                                   | h                       | 备注<br>Remarks     |
|-------------------------|-------------------------------------|-------------------------|-------------------|
| 1                       | $\varnothing 25.4^{+0.05}_{-0.05}$  | $28.18^{+0.18}_{-0.18}$ | 大轴<br>Major shaft |
| 2                       | $\varnothing 22.23^{+0.03}_{-0.03}$ | $25.01^{+0.18}_{-0.18}$ | 小轴<br>Minor shaft |

## PV2R系列高压低噪音叶片泵 PV2R Series high pressure vane pumps with lower noise

### 外型及安装连接尺寸 Shape and installation dimensions

法兰安装型: PV2R13-\*/\*-F-1-RAAA  
Flange mounting: PV2R13-\*/\*-F-1-RAAA

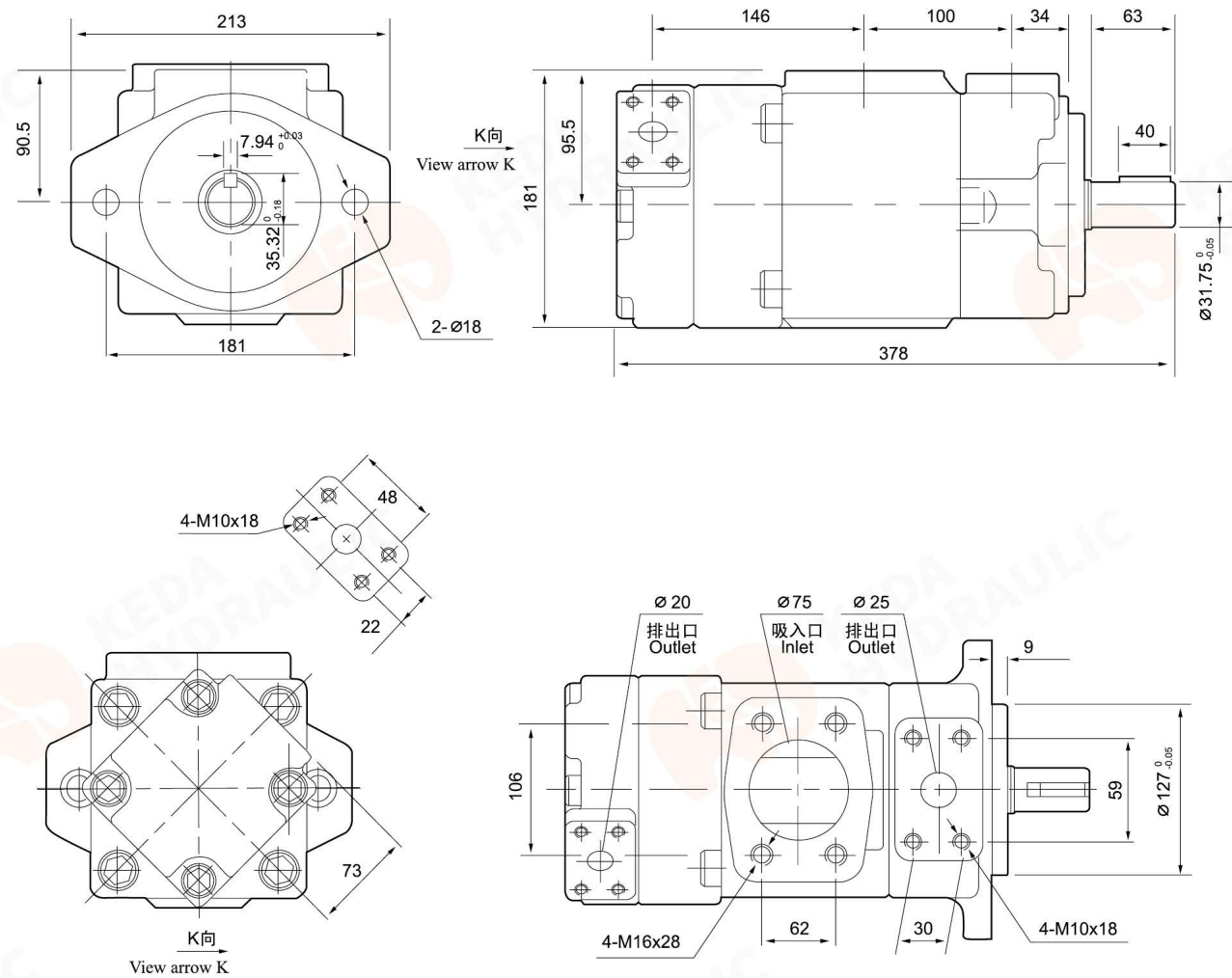




PV2R系列高压低噪音叶片泵 PV2R Series high pressure vane pumps with lower noise

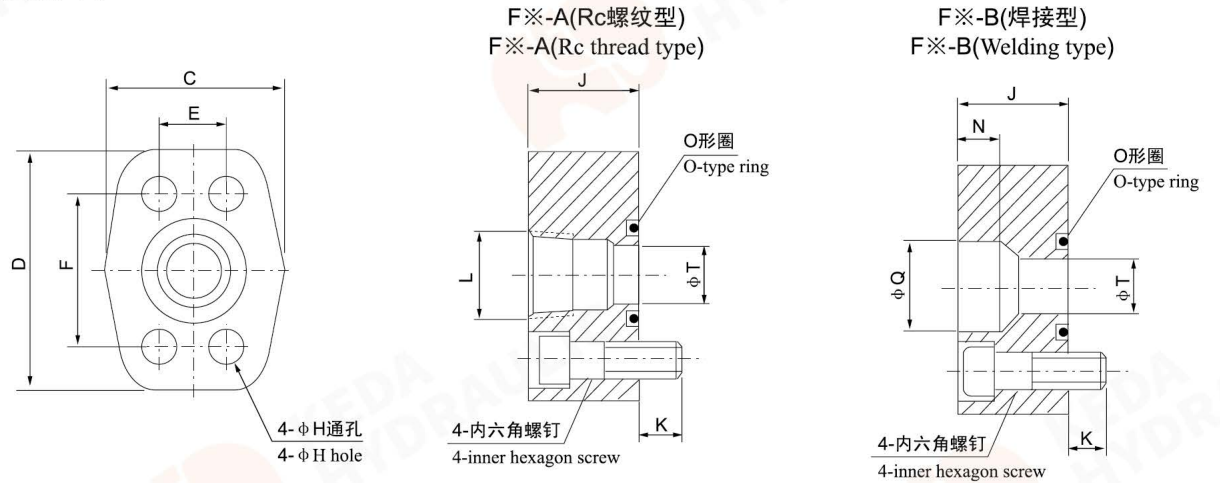
外型及安装连接尺寸  
Shape and installation dimensions

法兰安装型: PV2R23-\*/-F-1-REAA  
Flange mounting: PV2R23-\*/-F-1-REAA



法兰连接组件 Flange components

安装连接尺寸 Installation sizes



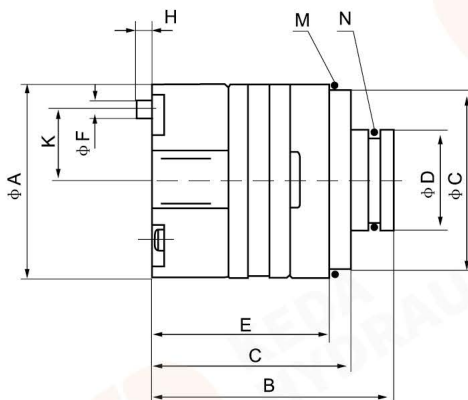
| 法 兰 型 号<br>Flange models | 对应管子规格<br>Corresponding pipes' specifications | 尺 寸 mm<br>Sizes mm |       |      |       |      |      |    |        |    |       | O型圈<br>O-type ring<br>GB34521-82 | 内六角螺钉<br>inner hexagon screw | 螺钉拧紧力矩<br>Tightening torque of screw<br>N·m | 对应油泵接口<br>Corresponding pumps connector |                                                                                                                   |
|--------------------------|-----------------------------------------------|--------------------|-------|------|-------|------|------|----|--------|----|-------|----------------------------------|------------------------------|---------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------|
|                          |                                               | C                  | D     | E    | F     | H    | J    | K  | L      | N  | Q     |                                  |                              |                                             |                                         | T                                                                                                                 |
| F04 A                    | 1/2"                                          | 43                 | 59.0  | 17.5 | 38.1  | 9.0  | 28.0 | 11 | 1/2"   | —  | —     | 13                               | 21.2x2.65                    | M8x30                                       | 35                                      | PV 2R1出口<br>PV 2R12、PV 2R13<br>盖端泵出口<br>PV2R1 port<br>PV. 2R12. PV2R13 cover<br>end pump port                     |
| F04-B                    |                                               |                    |       |      |       |      |      |    | —      | 11 | 22.5  |                                  |                              |                                             |                                         |                                                                                                                   |
| F06-A                    | 3/4"                                          | 53.2               | 71.6  | 22.2 | 47.6  | 11.2 | 30.0 | 11 | 3/4"   | —  | —     | 19                               | 30x3.55                      | M10x30                                      | 68.5                                    | PV 2R2、PV 2R12<br>轴端泵出口<br>PV 2R23盖端泵出口<br>PV2R2. PV2R12 shaft end<br>pump port<br>PV2R23 cover end pump port     |
| F06-B                    |                                               |                    |       |      |       |      |      |    | —      | 12 | 28.5  |                                  |                              |                                             |                                         |                                                                                                                   |
| F08-A                    | 1"                                            | 58.0               | 76.4  | 26.2 | 52.4  | 11.2 | 30.0 | 16 | 1"     | —  | —     | 26                               | 34.5x3.55                    | M10x35                                      | 68.5                                    | PV 2R1吸入口<br>PV2R1 inlet                                                                                          |
| F08-B                    |                                               |                    |       |      |       |      |      |    | —      | 14 | 34.5  |                                  |                              |                                             |                                         |                                                                                                                   |
| F10-A                    | 1-1/4"                                        | 57.7               | 84.7  | 30.2 | 58.7  | 12.0 | 40.0 | 16 | 1-1/4" | —  | —     | 32                               | 40x3.55                      | M10x45                                      | 68.5                                    | PV 2R2吸入口<br>PV 2R3出口、PV 2R13<br>PV 2R23轴端泵出口<br>PV2R2 inlet<br>PV2R3 port, PV2R13,<br>PV2R23 shaft end pump port |
| F10-B                    |                                               |                    |       |      |       |      |      |    | —      | 16 | 43.0  |                                  |                              |                                             |                                         |                                                                                                                   |
| F12-A                    | 1-1/2"                                        | 70.0               | 96.0  | 35.7 | 69.9  | 13.8 | 40.0 | 18 | 1-1/2" | —  | —     | 38                               | 50x3.55                      | —                                           | 118                                     | —                                                                                                                 |
| F12-B                    |                                               |                    |       |      |       |      |      |    | —      | 18 | 49.1  |                                  |                              |                                             |                                         |                                                                                                                   |
| F16-A                    | 2"                                            | 87.0               | 105.0 | 42.9 | 77.8  | 13.8 | 40.0 | 18 | 2"     | —  | —     | 51                               | 65x3.55                      | M12x45                                      | 118                                     | PV 2R3、PV 2R12<br>吸入口<br>PV2R3. PV2R12 inlet                                                                      |
| F16-B                    |                                               |                    |       |      |       |      |      |    | —      | 20 | 61.0  |                                  |                              |                                             |                                         |                                                                                                                   |
| F20-A                    | 2-1/2"                                        | 96.0               | 116.0 | 50.8 | 88.9  | 13.8 | 45.0 | 18 | 2-1/2" | —  | —     | 63                               | 75x3.55                      | —                                           | 118                                     | —                                                                                                                 |
| F20-B                    |                                               |                    |       |      |       |      |      |    | —      | 22 | 77.1  |                                  |                              |                                             |                                         |                                                                                                                   |
| F24-A                    | 3"                                            | 121.0              | 141.4 | 61.9 | 106.4 | 17.0 | 45.0 | 17 | 3"     | —  | —     | 76                               | 85x3.55                      | M16x45                                      | 287                                     | PV 2R13、PV 2R23<br>吸入口<br>PV2R13. PV2R23 inlet                                                                    |
| F24-B                    |                                               |                    |       |      |       |      |      |    | —      | 25 | 90.0  |                                  |                              |                                             |                                         |                                                                                                                   |
| F28-A                    | 3-1/2"                                        | 136.0              | 155.0 | 69.9 | 120.7 | 17.0 | 50.0 | 17 | 3-1/2" | —  | —     | 89                               | 100x3.5                      | M16x40<br>M16x50                            | 287                                     | —                                                                                                                 |
| F28-B                    |                                               |                    |       |      |       |      |      |    | —      | 28 | 102.8 |                                  |                              |                                             |                                         |                                                                                                                   |
| F32-A                    | 4"                                            | 145.0              | 162.0 | 77.8 | 130.2 | 17.0 | 50.0 | 17 | 4"     | —  | —     | 102                              | 115x3.5                      | M16x40<br>M16x50                            | 287                                     | —                                                                                                                 |
| F32-B                    |                                               |                    |       |      |       |      |      |    | —      | 28 | 115.5 |                                  |                              |                                             |                                         |                                                                                                                   |

## PVH系列泵芯组件 PVH Series Cartridge Kite

### 型号说明 Model Descriptions

| PC-                                                                                                                                                              | PVH           | -23                                        | -R                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| 泵芯标记<br>Cartridge kit mark                                                                                                                                       | 系列号<br>Models | 公称排量<br>ml/r Nominal displacement          | 油泵旋向<br>Rotation                                                                                                         |
| PC:单泵泵芯<br>双联泵轴端泵芯<br>PCT:双联泵盖端泵芯<br>PC-Single pump cartridge kits<br>Double pump shaft end pump cartridge kits<br>PCT-Double pump cover end pump cartridge kits | PVH1          | 6, 8, 10, 12, 14, 17, 19, 23, 25, 28, 31   | (从轴端看)<br>R-顺时针向<br>L-逆时针向<br>(Viewed from shaft end)<br>R-Right hand for clockwise<br>L-Left hand for counter clockwise |
|                                                                                                                                                                  | PVH2          | 26, 33, 41, 47, 53, 59, 65, 75             |                                                                                                                          |
|                                                                                                                                                                  | PVH3          | 52, 60, 66, 76, 85, 94, 116, 125, 136, 153 |                                                                                                                          |

### 安装连接尺寸 Installation sizes



| 系列号<br>Models | A     | B     | C   | D  | E  | F | G    | H | K   | M         | N        |
|---------------|-------|-------|-----|----|----|---|------|---|-----|-----------|----------|
| PVH1          | 68    | 84    | 70  | 35 | 62 | 6 | 62.7 | 5 | R25 | 49.4×3.1  | 29.4×3.1 |
| PVH2          | 90    | 109   | 93  | 52 | 82 | 6 | 84.7 | 5 | R36 | 84.4×3.1  | 45.7×3.5 |
| PVH3          | 120.5 | 127.5 | 106 | 72 | 94 | 8 | 115  | 8 | R48 | 114.4×3.1 | 65.0×3.5 |

| 系列号<br>Models | 转子内花键齿廓参数 Spline teeth No. in rotor |                    |                         |                      |                      |                          |
|---------------|-------------------------------------|--------------------|-------------------------|----------------------|----------------------|--------------------------|
|               | 模数<br>Modulus                       | 齿数<br>No. of teeth | 标准压力角<br>Standard angle | 大径<br>Major diameter | 小径<br>Minor diameter | (节径圆)弧齿槽宽<br>Space width |
| PVH1          | 0.75                                | 24                 | 45°                     | 19.050               | 17.550               | 1.328                    |
| PVH2          | 1.0                                 | 24                 | 45°                     | 25.400               | 23.400               | 1.771                    |
| PVH3          | 1.0                                 | 28                 | 45°                     | 29.400               | 27.400               | 1.771                    |