



**GEAR PUMP**

## RGP-F1 SERIES GEAR PUMP

$$\text{RGP}(V)$$

RGP: Gear Pump  
RGPV: Gear Pump with  
Relief Valve

---

F1

Series Number

\* \*

Nominal Discharge

---

R

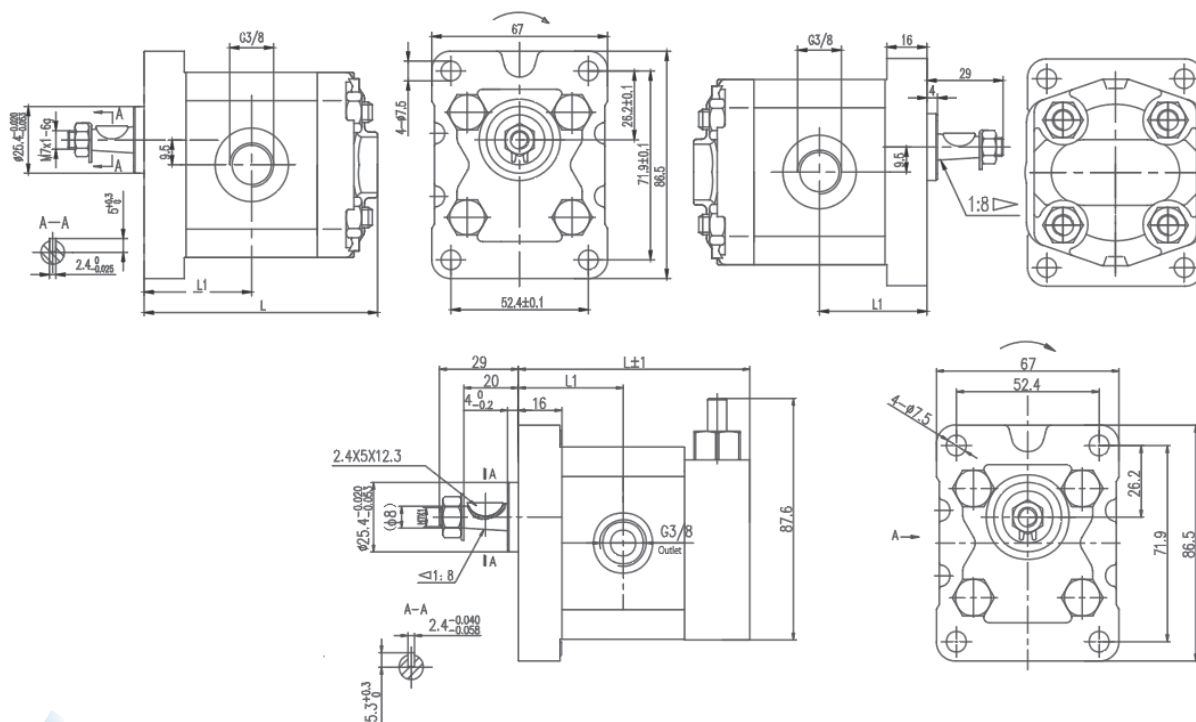
\*

Shaft Type  
B: flat key  
Z: taper

\* \*

Rotation (from shaft side)  
R: clockwise  
L: anti-clockwise

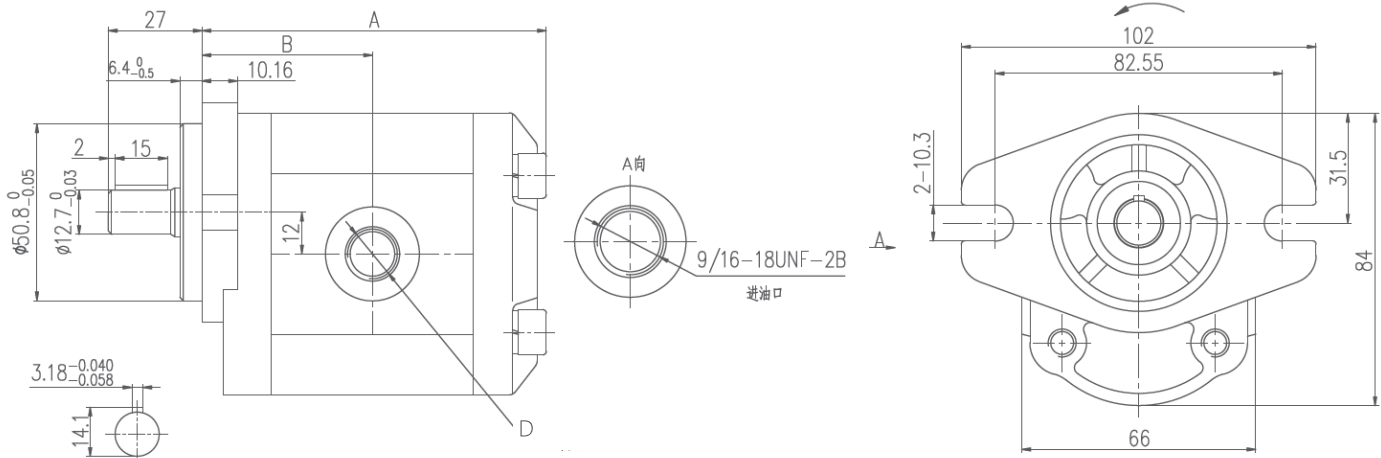
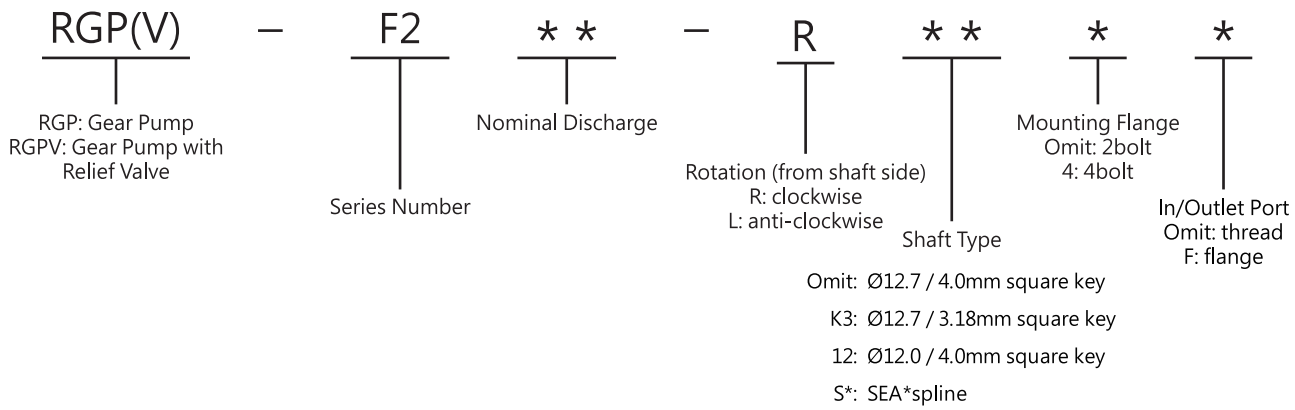
BF: Back inlet and front out  
BS: Back inlet and side out  
BB: Back inlet and back out  
SF: Side inlet and front out  
SB: Side inlet and back out  
SS: Side inlet and side out



## SPECIFICATION

| Model    | Displacement<br>(cc/rev) | Pressure (Mpa) |     | Speed (r/min) |     | L (mm) | L1 (mm) | D      | Weight (kg) |
|----------|--------------------------|----------------|-----|---------------|-----|--------|---------|--------|-------------|
|          |                          | Rate           | Max | Max           | Min |        |         | Inlet  |             |
| RGP-F111 | 1.1                      | 20             | 25  | 6000          | 600 | 75.0   | 33.0    | PT 3/8 | 0.77        |
| RGP-F113 | 1.3                      |                |     |               |     | 76.0   | 34.0    |        | 0.79        |
| RGP-F116 | 1.6                      |                |     |               |     | 78.0   | 35.0    |        | 0.80        |
| RGP-F118 | 1.8                      |                |     |               |     | 78.5   | 35.5    |        | 0.81        |
| RGP-F121 | 2.1                      |                |     |               |     | 79.0   | 36.0    |        | 0.82        |
| RGP-F127 | 2.7                      |                |     | 81.0          |     | 37.0   | 0.85    |        |             |
| RGP-F132 | 3.2                      |                |     | 5000          |     | 83.0   | 38.0    |        | 0.87        |
| RGP-F137 | 3.7                      |                |     | 4500          |     | 85.0   | 39.0    |        | 0.90        |
| RGP-F142 | 4.2                      |                |     | 4000          |     | 87.0   | 40.0    |        | 0.92        |
| RGP-F148 | 4.8                      | 16             | 20  | 3500          |     | 89.0   | 41.0    |        | 0.85        |
| RGP-F158 | 5.8                      |                |     | 2900          |     | 93.0   | 43.0    |        | 1.00        |
| RGP-F180 | 8.0                      |                |     | 2100          |     | 101.0  | 47.0    |        | 1.10        |

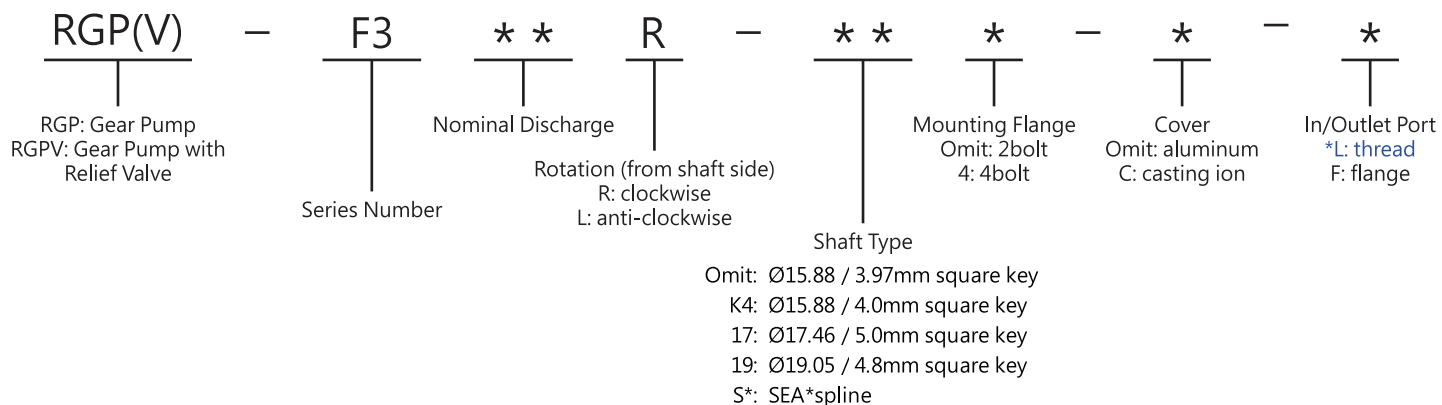
## RGP-F2 SERIES GEAR PUMP



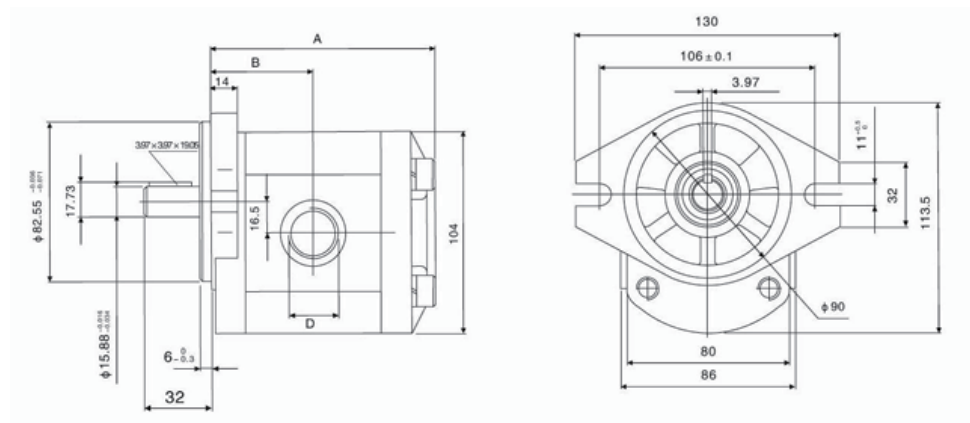
## SPECIFICATION

| Model     | Displacement<br>(cc/rev) | Pressure (Mpa) |     | Speed (r/min) |      |     | A (mm) | B (mm) | D      |        | Weight (kg) |
|-----------|--------------------------|----------------|-----|---------------|------|-----|--------|--------|--------|--------|-------------|
|           |                          | Rate           | Max | Rate          | Max  | Min |        |        | Inlet  | Outlet |             |
| RGP-F201  | 1.3                      | 20             | 25  | 3000          | 4500 | 500 | 82     | 42     | PT 1/2 | PT 3/8 | 0.92        |
| RGP-F202  | 2.0                      |                |     |               |      |     | 84     | 43     |        |        | 1.05        |
| RGP-F2025 | 2.7                      |                |     |               |      |     | 86     | 44     |        |        | 1.22        |
| RGP-F203  | 3.4                      |                |     |               |      |     | 88     | 45     |        |        | 1.36        |
| RGP-F204  | 4.1                      |                |     |               |      |     | 90     | 46     |        |        | 1.52        |
| RGP-F205  | 5.1                      |                |     |               |      |     | 93     | 47.5   |        |        | 1.72        |
| RGP-F206  | 6.1                      |                |     |               |      |     | 96     | 49     |        |        | 1.90        |
| RGP-F207  | 7.1                      |                |     |               |      |     | 101    | 50.5   | PT 3/4 | PT 1/2 | 2.20        |

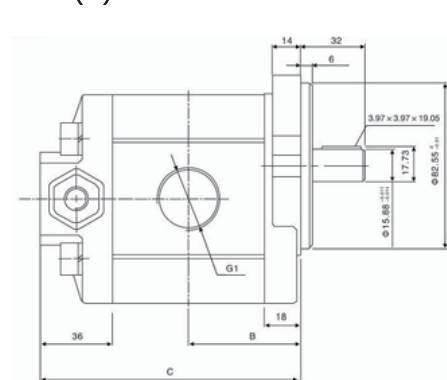
## RGP-F3 SERIES GEAR PUMP



RGP:



RGP(V):

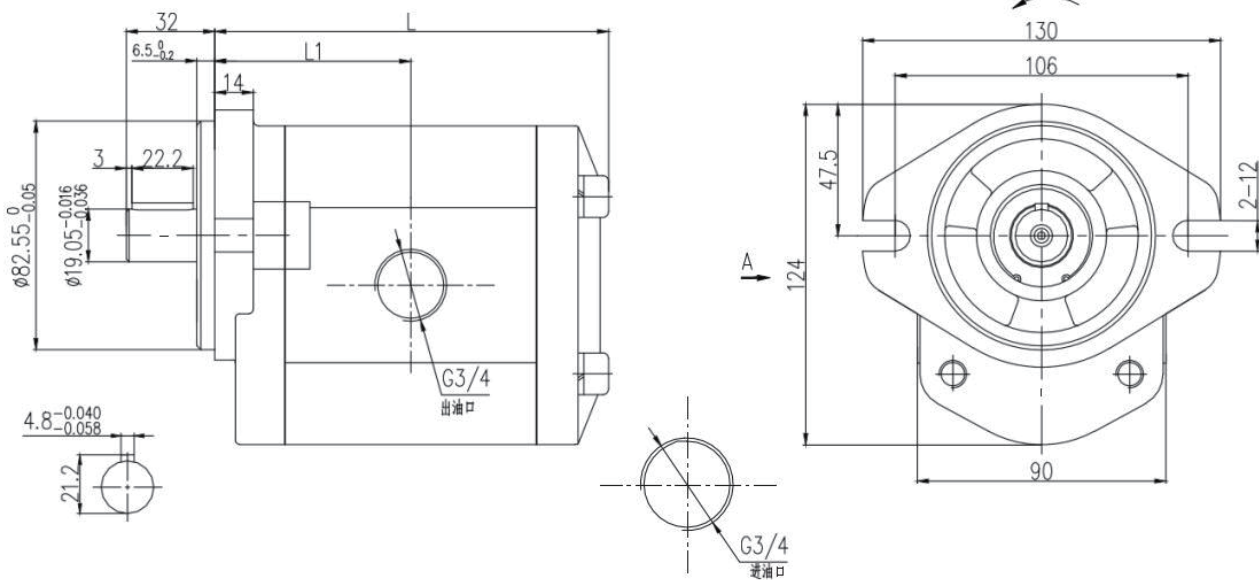
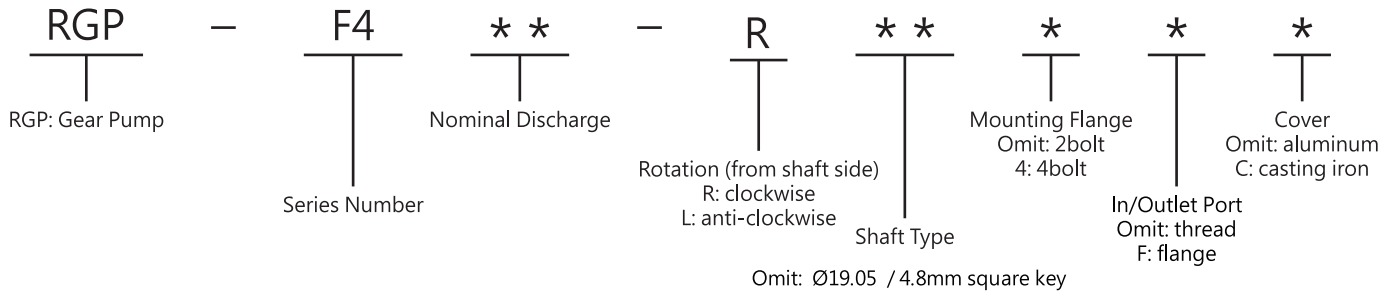


| *Code | Applicable model | Port size |        |
|-------|------------------|-----------|--------|
|       |                  | Inlet     | Outlet |
| L10   | RGP-F304~312     | PT 3/4    | PT 1/2 |
| L103  | RGP-F314~318     | PT 1      | PT 1/2 |
| L43   | RGP-F320~330     | PT 1      | PT 3/4 |

## SPECIFICATION

| Model    | Displacement<br>(cc/rev) | Pressure (Mpa) |      | Speed (rpm) |      | A (mm) | B (mm) | C (mm) | D      |        | Weight (kg) |       |      |        |      |      |
|----------|--------------------------|----------------|------|-------------|------|--------|--------|--------|--------|--------|-------------|-------|------|--------|------|------|
|          |                          | Rate           | Max  | Max         | Min  |        |        |        | Inlet  | Outlet | 2bolt       | 4bolt |      |        |      |      |
| RGP-F304 | 4                        | 20             | 25   | 3500        | 500  | 96     | 43     | 112    | PT 3/4 | PT 1/2 | 2.35        | 2.50  |      |        |      |      |
| RGP-F306 | 6                        |                |      |             |      | 98     | 45     | 114    |        |        | 2.45        | 2.60  |      |        |      |      |
| RGP-F308 | 8                        |                |      |             |      | 102    | 47     | 118    |        |        | 2.55        | 2.70  |      |        |      |      |
| RGP-F310 | 10                       |                |      |             |      | 104    | 48     | 120    |        |        | 2.60        | 2.80  |      |        |      |      |
| RGP-F312 | 12                       |                |      |             |      | 108    | 49.5   | 124    |        |        | 2.69        | 2.85  |      |        |      |      |
| RGP-F314 | 14                       |                |      |             |      | 110    | 51     | 126    | PT 1   | PT 1/2 | 2.73        | 2.88  |      |        |      |      |
| RGP-F316 | 16                       |                |      |             |      | 114    | 52.5   | 130    |        |        | 2.85        | 3.01  |      |        |      |      |
| RGP-F318 | 18                       |                |      |             |      | 117    | 54     | 133    |        |        | 2.96        | 3.12  |      |        |      |      |
| RGP-F320 | 20                       |                |      |             |      | 16     | 20     |        |        | 120    | 56          | 136   | PT 1 | PT 3/4 | 3.06 | 3.20 |
| RGP-F323 | 23                       |                |      |             |      |        |        |        |        | 123    | 58          | 139   |      |        | 3.25 | 3.29 |
| RGP-F325 | 25                       | 128            | 59.5 | 144         | 3.27 |        |        |        |        | 3.41   |             |       |      |        |      |      |
| RGP-F328 | 28                       | 133            | 63   | 149         | 3.50 |        |        |        |        | 3.64   |             |       |      |        |      |      |
| RGP-F330 | 30                       |                |      |             |      | 136    | 64     | 152    |        |        | 3.30        | 3.70  |      |        |      |      |

## RGP-F4 SERIES GEAR PUMP



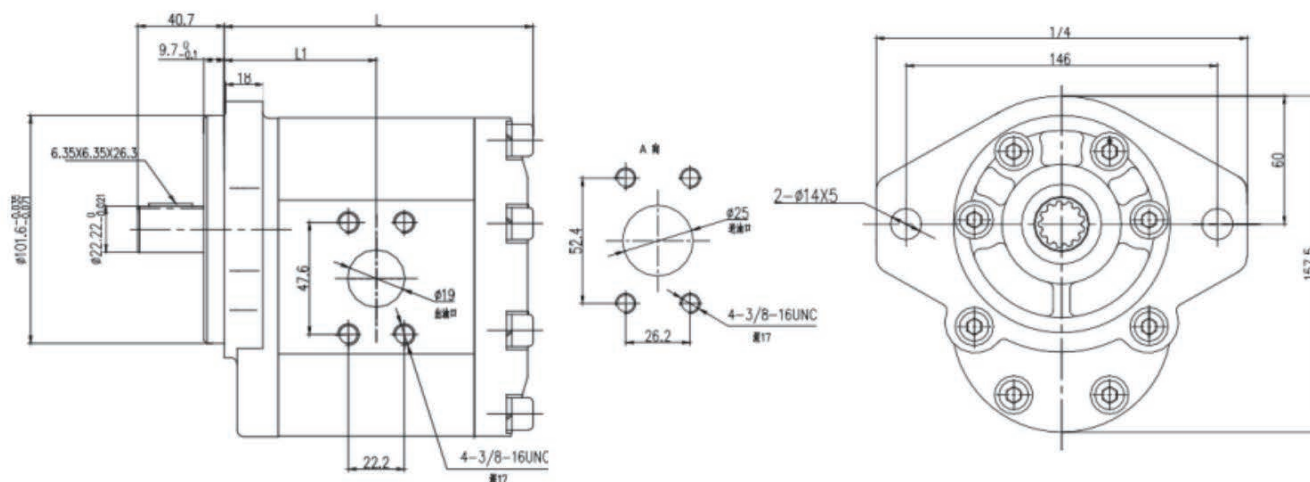
## SPECIFICATION

| Model    | Displacement<br>(cc/rev) | Pressure (Mpa) |     | Speed (r/min) |       |     | L (mm) | L1 (mm) | D      |        | Weight (kg) |
|----------|--------------------------|----------------|-----|---------------|-------|-----|--------|---------|--------|--------|-------------|
|          |                          | Rate           | Max | Rate          | Max   | Min |        |         | Inlet  | Outlet |             |
| RGP-F410 | 10                       | 20             | 25  | 2000          | 30000 | 500 | 108.0  | 53.5    | PT 3/4 | PT 1/2 | 3.50        |
| RGP-F416 | 16                       |                |     |               |       |     | 114.0  | 56.5    |        |        | 3.50        |
| RGP-F420 | 20                       |                |     |               |       |     | 124.5  | 61.5    | PT 1   | PT 3/4 | 3.70        |
| RGP-F425 | 25                       |                |     |               |       |     | 130.5  | 64.5    |        |        | 3.80        |
| RGP-F427 | 27                       |                |     |               |       |     | 133.0  | 65.8    |        |        | 3.90        |
| RGP-F430 | 30                       |                |     |               |       |     | 136.5  | 67.5    |        |        | 4.00        |
| RGP-F432 | 32                       |                | 23  |               |       |     | 139.0  | 68.8    |        |        | 4.10        |
| RGP-F436 | 36                       |                |     |               |       |     | 143.5  | 71.0    |        |        | 4.20        |
| RGP-F440 | 40                       | 16             | 20  |               |       |     | 148.5  | 73.5    |        |        | 4.30        |

## RGP-F5 SERIES GEAR PUMP

Diagram illustrating the naming convention for the pump model:

- RGP**: Gear Pump
- F5**: Series Number
- \*\***: Nominal Discharge
- R**: Rotation (from shaft side)  
R: clockwise  
L: anti-clockwise
- \*\***: Shaft Type  
Omit: Ø22.20 / 6.35mm square key
- \***: Mounting Flange  
Omit: 2bolt  
4: 4bolt
- \***: In/Outlet Port  
Omit: thread  
F: flange
- \***: Cover  
Omit: aluminum  
C: casting iron



## SPECIFICATION

| Model    | Displacement<br>(cc/rev) | Pressure (Mpa) |     | Speed (r/min) |      |     | L (mm) | L1 (mm) | L2<br>(mm) | B2<br>(mm) | D1<br>(mm) | T1 (mm)              | L3<br>(mm) | B3<br>(mm) | D2<br>(mm) | T2 (mm)             |       |
|----------|--------------------------|----------------|-----|---------------|------|-----|--------|---------|------------|------------|------------|----------------------|------------|------------|------------|---------------------|-------|
|          |                          | Rate           | Max | Rate          | Max  | Min |        |         |            |            |            |                      |            |            |            |                     |       |
| RGP-F522 | 22                       | 20             | 25  | 2000          | 3000 | 400 | 130.3  | 65.3    | 52.4       | 26.2       | 27         | 3/8<br>16UNC-<br>2B  | 26.2       | 47.6       | 19         | 3/8<br>16UNC-<br>2B |       |
| RGP-F526 | 26                       |                |     |               |      |     | 133.3  | 66.8    |            |            |            |                      |            |            |            |                     |       |
| RGP-F534 | 34                       |                |     |               |      |     | 138.8  | 69.6    |            |            |            |                      |            |            |            |                     |       |
| RGP-F539 | 39                       |                |     |               |      |     | 142.8  | 71.6    |            |            |            |                      |            |            |            |                     |       |
| RGP-F543 | 43                       |                |     |               |      |     | 145.3  | 72.8    |            |            |            |                      |            |            |            |                     |       |
| RGP-F551 | 51                       |                |     |               |      |     | 151.3  | 75.8    |            |            |            |                      |            |            |            |                     |       |
| RGP-F560 | 60                       | 18             | 23  | 1500          | 2500 |     | 157.8  | 79.1    | 58.7       | 28.4       | 33         | 7/16<br>14UNC-<br>2B | 26.2       | 52.4       | 27         |                     |       |
| RGP-F570 | 70                       |                | 20  |               |      |     | 2300   | 164.8   |            |            |            |                      |            |            |            |                     | 82.5  |
| RGP-F578 | 78                       |                |     |               |      |     |        | 16      |            |            |            |                      |            |            |            |                     | 171.0 |
| RGP-F589 | 89                       |                | 14  |               |      |     | 18     | 2000    |            |            |            |                      |            |            |            |                     | 176.0 |

## RGP-2A SERIES GEAR PUMP

RGP(V)

RGP: Gear Pump  
RGPV: Gear Pump with  
Relief Valve

2A

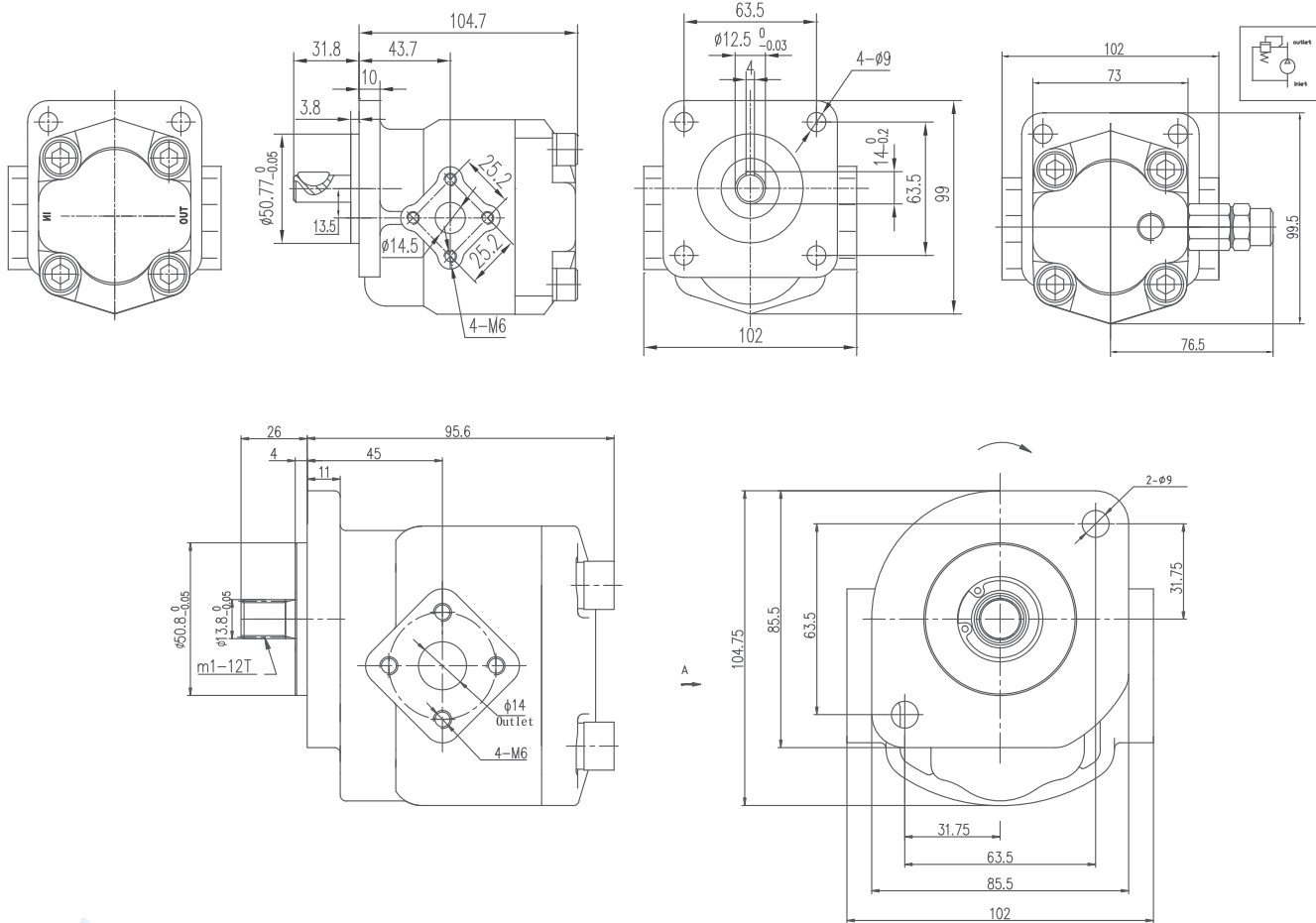
Series Number

F \* \*

Nominal Discharge

R

Rotation (from shaft side)  
R: clockwise  
L: anti-clockwise



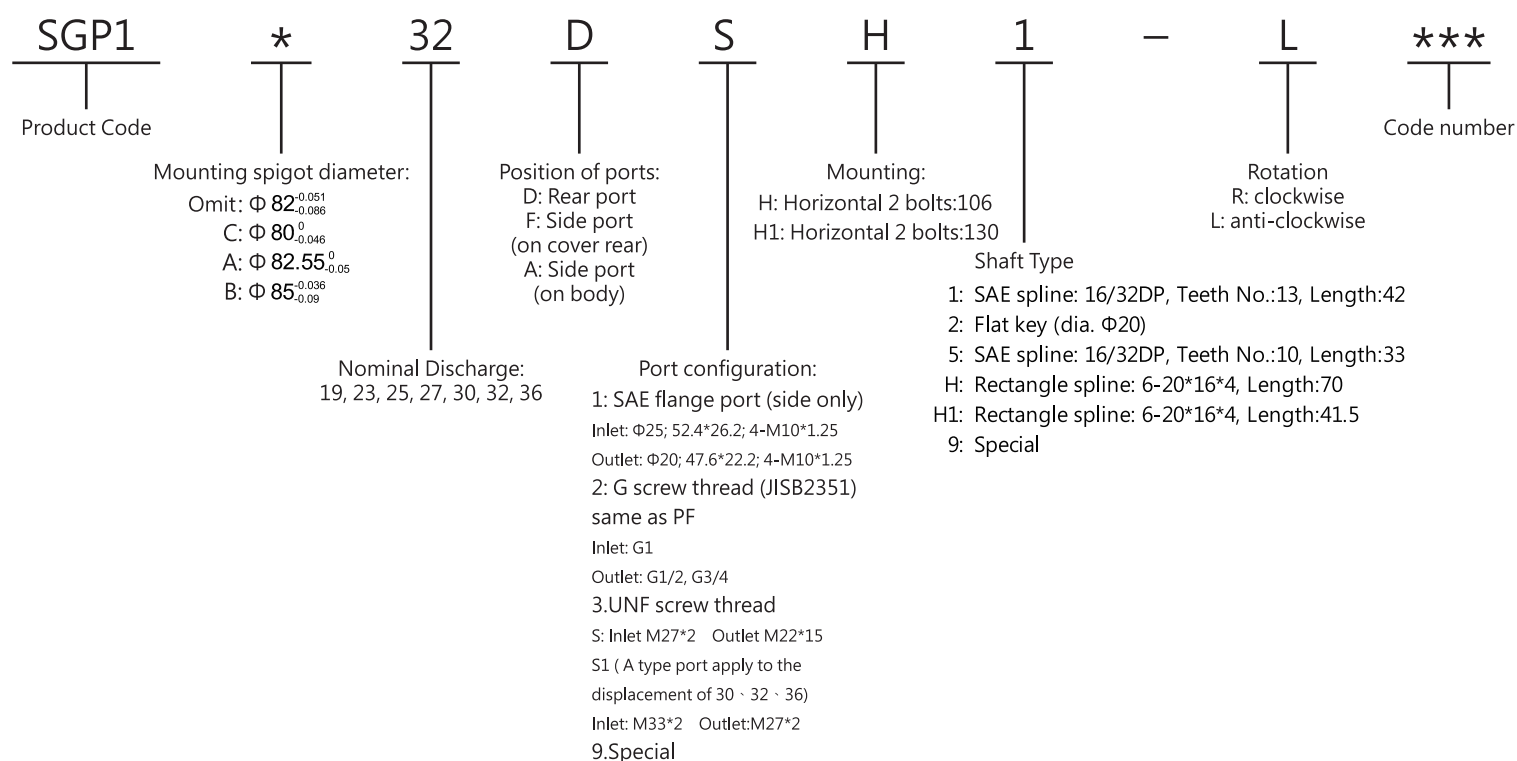
## SPECIFICATION

| Model      | Displacement<br>(cc/rev) | Pressure (Mpa) |     | Speed (r/min) |      |     | Weight (kg) |
|------------|--------------------------|----------------|-----|---------------|------|-----|-------------|
|            |                          | Rate           | Max | Rate          | Max  | Min |             |
| RGP-2A-F02 | 2                        | 21             | 25  | 2000          | 3500 | 600 | 1.55        |
| RGP-2A-F03 | 3                        |                |     |               |      |     | 1.56        |
| RGP-2A-F04 | 4                        |                |     |               |      |     | 1.58        |
| RGP-2A-F05 | 5                        |                |     |               |      |     | 1.60        |
| RGP-2A-F06 | 6                        |                |     |               |      |     | 1.60        |
| RGP-2A-F08 | 8                        | 17.5           | 21  | 1500          | 2000 |     | 1.65        |
| RGP-2A-F09 | 9                        |                |     |               |      |     | 1.65        |
| RGP-2A-F11 | 11                       |                |     |               |      |     | 1.70        |
| RGP-2A-F12 | 12                       |                |     |               |      |     | 1.70        |

# SGP-1A SERIES GEAR PUMP

SGP1 series gear pumps are environmental friendly products with the features of low noise, smart structure and easy installation. The pumps are widely applied in the industries of hoisting and conveying machinery, road machinery, environmental protection machinery, light industry machinery, etc.

The pump has been the first option accessory parts for variety of environmental friendly main equipment.

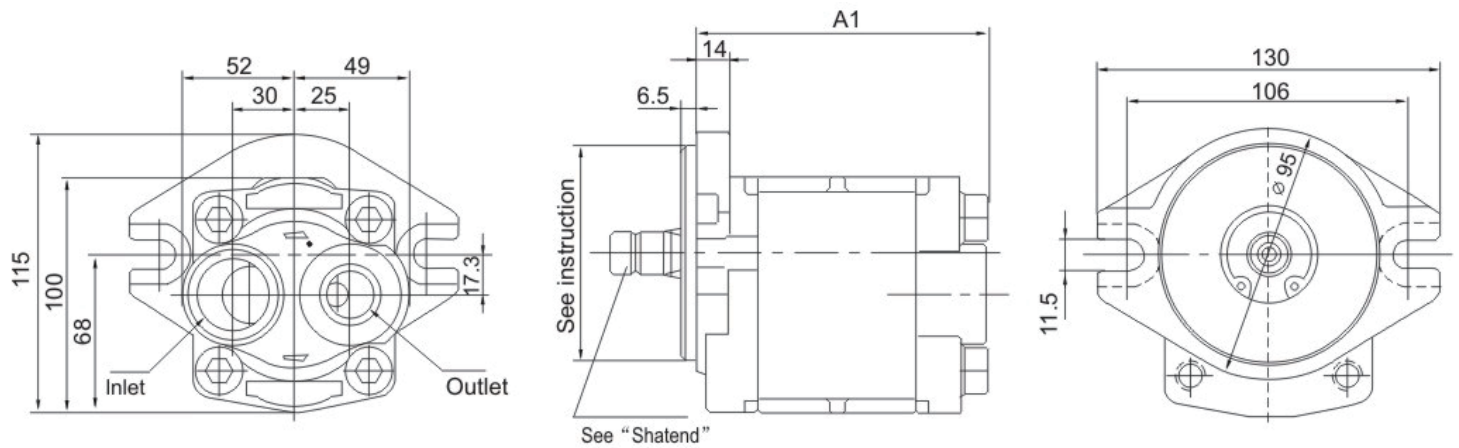


## SPECIFICATION

| Model   | Displacement<br>(cc/rev) | Pressure (Mpa) |     | Rotation Speed (r/min) |      |     | Volumetric<br>efficiency (>= %) | L(mm) | Weight (kg) |
|---------|--------------------------|----------------|-----|------------------------|------|-----|---------------------------------|-------|-------------|
|         |                          | Rate           | Max | Rate                   | Max  | Min |                                 |       |             |
| SGP1-19 | 19                       | 20             | 25  | 2500                   | 3000 | 600 | 92                              | 115.5 | 4.10        |
| SGP1-23 | 23                       |                |     |                        |      |     |                                 | 118.5 | 4.30        |
| SGP1-25 | 25                       |                |     |                        |      |     |                                 | 122.5 | 4.60        |
| SGP1-27 | 27                       |                |     |                        |      |     |                                 | 124.5 | 4.80        |
| SGP1-30 | 30                       |                |     |                        |      |     |                                 | 126.5 | 5.00        |
| SGP1-32 | 32                       |                |     |                        |      |     |                                 | 131.5 | 5.40        |
| SGP1-36 | 36                       |                |     |                        |      |     |                                 | 130.5 | 5.80        |

## SGP1 SERIES GEAR PUMP

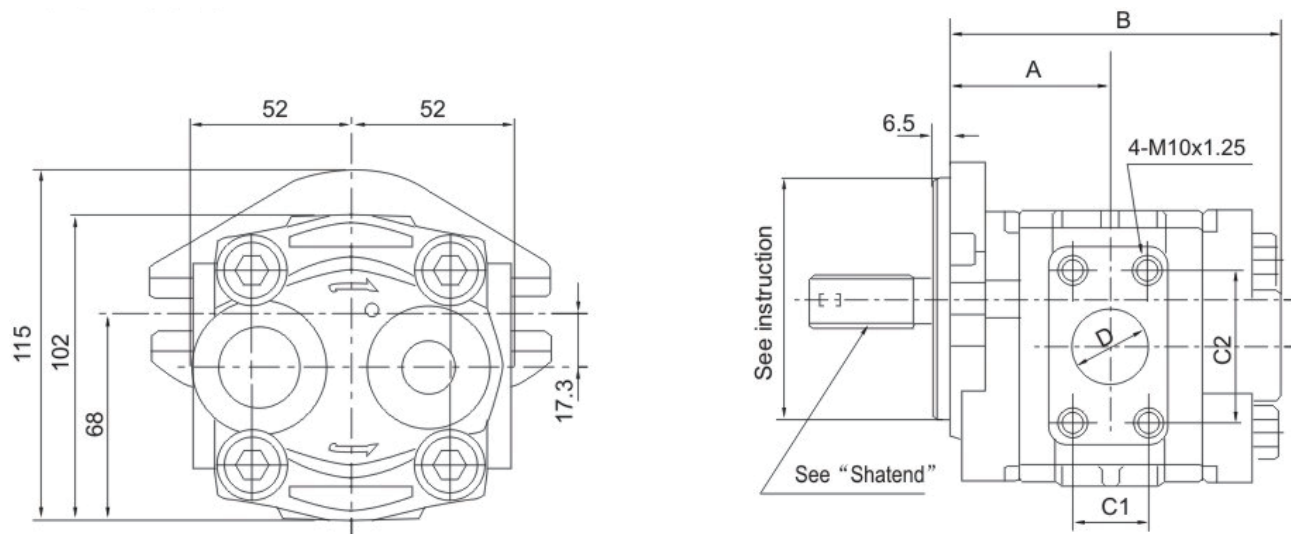
### Oil Port in Style D



| Displacement<br>(cc/rev) | 23  | 25  | 27  | 30  | 32  | 36  |
|--------------------------|-----|-----|-----|-----|-----|-----|
| A1                       | 117 | 118 | 122 | 124 | 128 | 132 |

## SGP1 SERIES GEAR PUMP

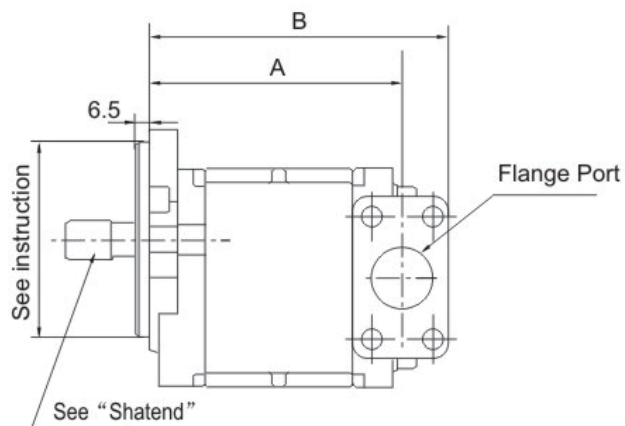
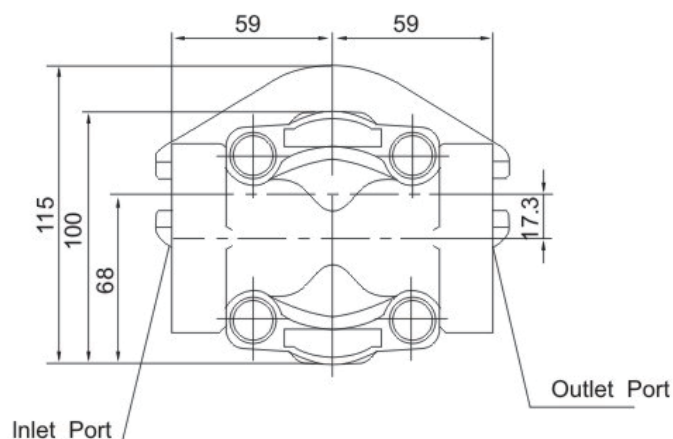
### Oil Port in Style A



| Displacement<br>(cc/rev) | A    | B   | Inlet/ Outlet port |           |           |
|--------------------------|------|-----|--------------------|-----------|-----------|
|                          |      |     | C1                 | C2        | D         |
| 30                       | 64.3 | 124 | 26.2/22.2          | 52.4/47.6 | 25.0/20.0 |
| 32                       | 66.3 | 128 |                    |           |           |
| 36                       | 68.3 | 132 |                    |           |           |

## SGP1 SERIES GEAR PUMP

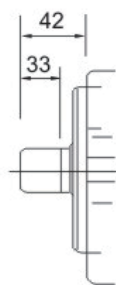
### Oil Port in Style F



| Displacement (cc/rev) | 23    | 25    | 27    | 30    | 32    | 36    |
|-----------------------|-------|-------|-------|-------|-------|-------|
| A                     | 107.0 | 108.5 | 112.0 | 114.5 | 118.5 | 122.5 |
| B                     | 130.5 | 132.0 | 135.5 | 138.0 | 142.0 | 146.0 |

1:  
SAE

No. of tooth 13  
D. P. 16/32  
Pressure angle 30°  
C. P. O. 1963"  
Over pin id  
Ø 21.80  
Ø 21.68  
Pin dia. 18.63

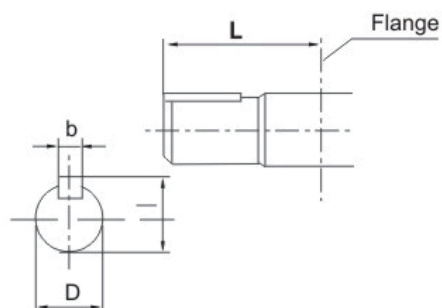


5:  
SAE

No. of tooth 10  
D. P. 16/32  
Pressure angle 30°  
C. P. O. 1963"  
Over pin id  
Ø 17.043  
Ø 16.916  
Pin dia. Ø 13.86

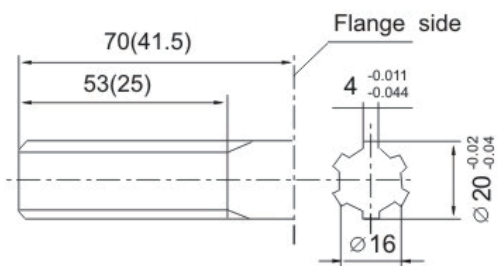


2: Straight Spline



H, H1: Rectangle spline

9: Special ord

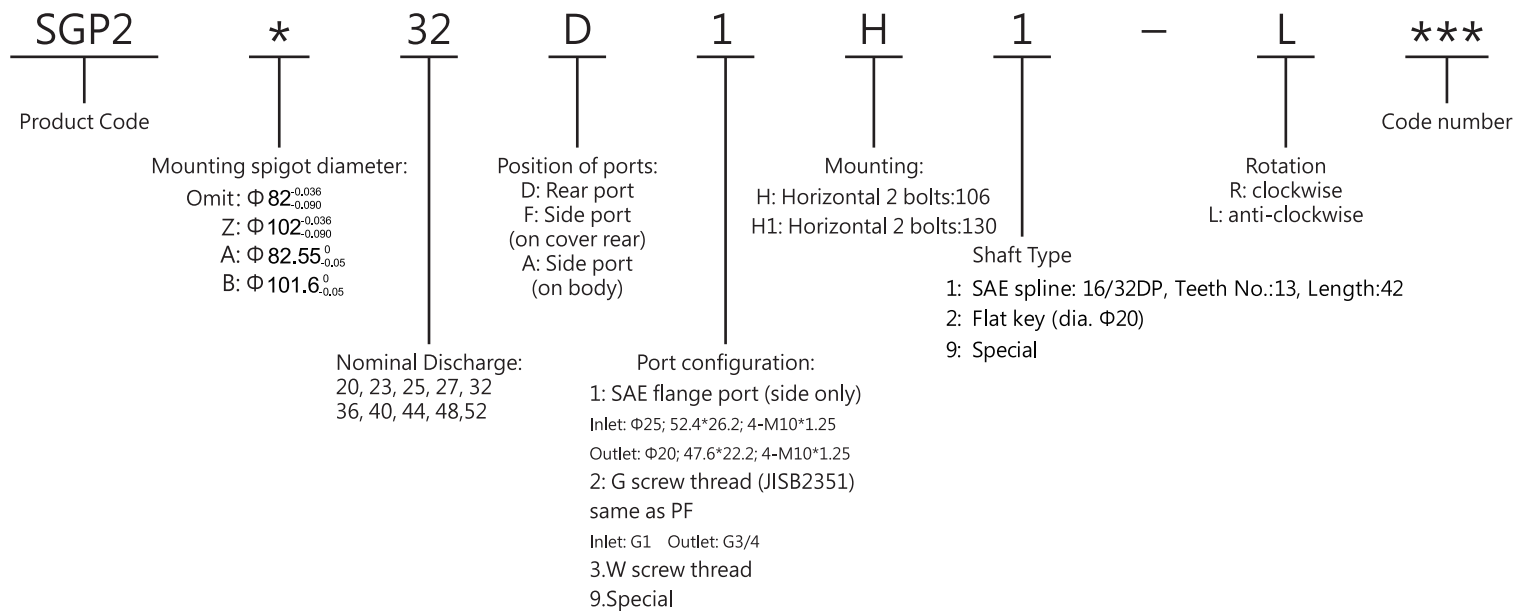


| Shaft end            | D    | b   | I    | L    |
|----------------------|------|-----|------|------|
| Straight spline No.2 | 20.0 | 6.0 | 22.5 | 42.0 |

( ) Dimension of No.H1 Shaft type

## SGP2 SERIES GEAR PUMP

SGP2A series gear pump is external gear pump possessing axial clearance automatic compensation and radial hydraulic balance, adopting three opening struture. The bearings are DU bearings and the side plate is bimetallic material. The front and rear covers, are made of aluminum accessory with high strength. The middle part is consist of iron casting and the surface is covered with metal ceramic. All above improve the performance, lifetime and reliability of the pump.

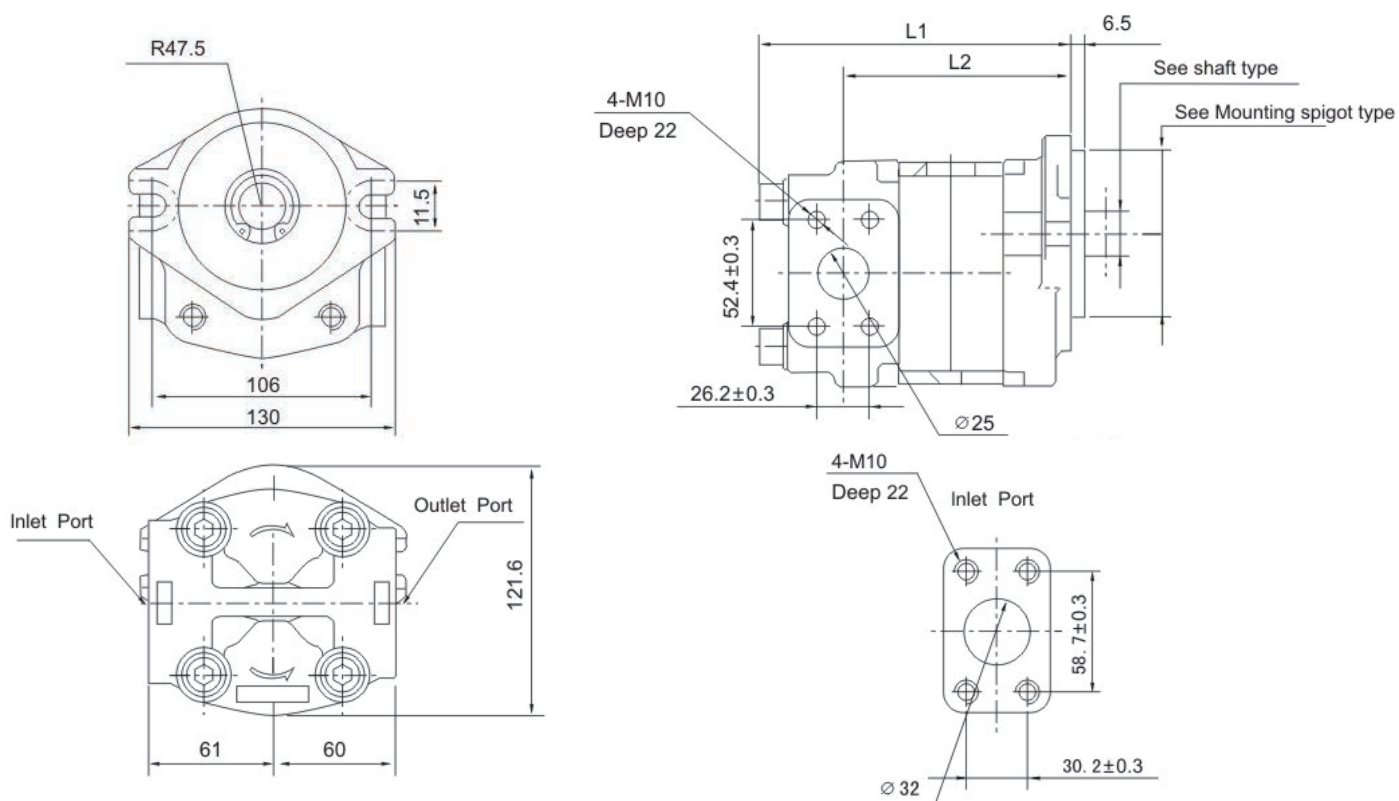


## SPECIFICATION

| Model   | Displacement<br>(cc/rev) | Pressure (Mpa) |      | Rotation Speed (r/min) |     | Inlet Pressure<br>(Mpa) | Weight (kg) |           |
|---------|--------------------------|----------------|------|------------------------|-----|-------------------------|-------------|-----------|
|         |                          | Rate           | Max  | Max                    | Min |                         |             |           |
| SGP2-20 | 20                       | 24.5           | 29.4 | 3000                   | 400 | -0.02~0.2               | 4.9 (4.4)   |           |
| SGP2-23 | 23                       |                |      |                        |     |                         | 5.1 (4.6)   |           |
| SGP2-25 | 25                       |                |      |                        |     |                         | 5.3 (4.8)   |           |
| SGP2-27 | 27                       |                |      |                        |     |                         | 5.4 (4.9)   |           |
| SGP2-32 | 32                       |                |      | 5.7 (5.1)              |     |                         |             |           |
| SGP2-36 | 36                       |                |      | 5.9 (5.3)              |     |                         |             |           |
| SGP2-40 | 40                       | 22.6           | 27.5 | 3000<br>(2500)         |     |                         |             | 6.1 (5.4) |
| SGP2-44 | 44                       | 20.6           | 24.5 |                        |     |                         |             | 6.3 (5.6) |
| SGP2-48 | 48                       | 18.6           | 22.6 | 3000<br>(2500)         |     |                         |             | 6.6 (5.9) |
| SGP2-52 | 50                       | 17.2           | 20.6 |                        |     |                         |             | 6.8 (6.1) |

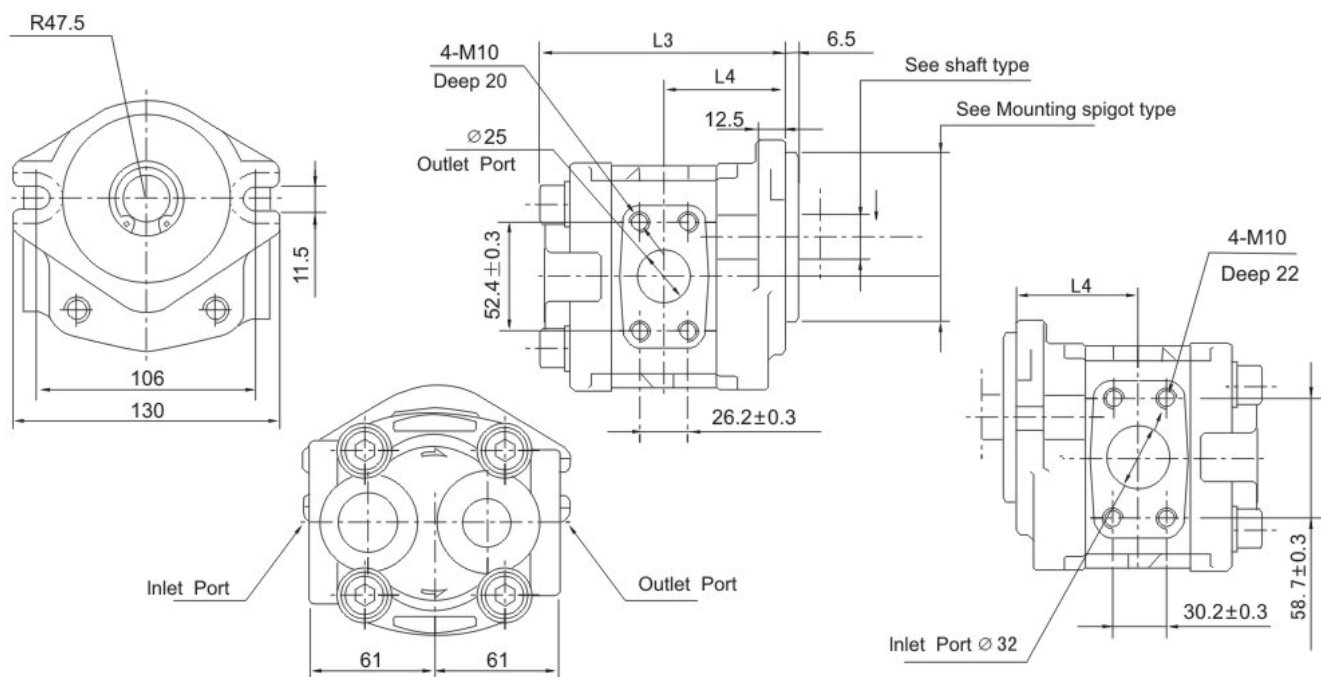
## SGP2 SERIES GEAR PUMP

### SGP2-XXF1HX\_LXXXX



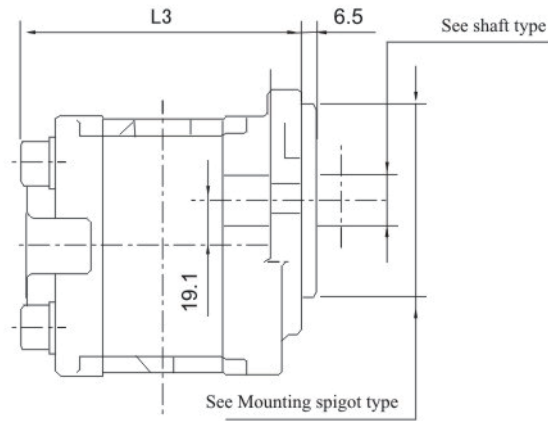
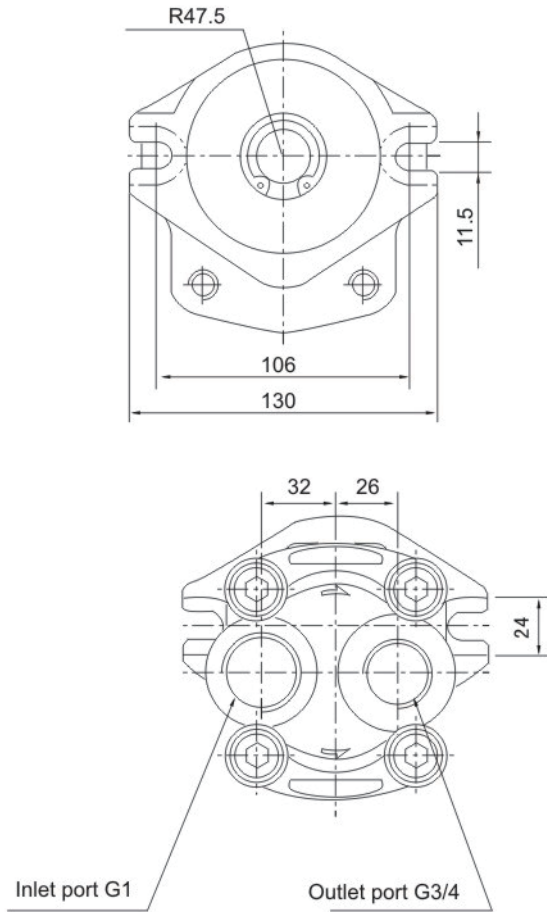
## SGP2 SERIES GEAR PUMP

### SGP2-XXA1HX-LXXXX



## SGP2 SERIES GEAR PUMP

### SGP2-XXD2HX-LXXXX

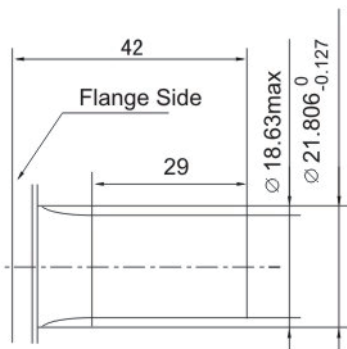


| Nominal Displacement | L1    | L2    | L3    | L4   |
|----------------------|-------|-------|-------|------|
| 20                   | 140.9 | 99.6  | 107.4 | 52.8 |
| 23                   | 143.9 | 102.6 | 110.4 | 54.3 |
| 25                   | 145.9 | 104.6 | 112.4 | 55.3 |
| 27                   | 147.9 | 106.6 | 114.1 | 56.3 |
| 32                   | 152.9 | 111.6 | 119.4 | 58.8 |
| 36                   | 156.9 | 115.6 | 123.4 | 60.8 |
| 40                   | 160.9 | 119.6 | 127.4 | 62.8 |
| 44                   | 164.9 | 123.6 | 131.4 | 64.8 |
| 48                   | 168.9 | 127.6 | 135.4 | 66.8 |
| 52                   | 172.9 | 131.6 | 139.4 | 68.8 |

## SGP2 SERIES GEAR PUMP

### Dimension of shaft end

SAE spline Shaft type



| Item                      | Value         |
|---------------------------|---------------|
| Teeth No.                 | 13            |
| D.P.                      | 16/32         |
| Pressure angle            | 30°           |
| Distance of measuring bar | 24.819~24.891 |
| Diameter of measuring bar | Φ3.048        |

## 磊興有限公司

Rexpower Hydraulic & Pneumatic Co., Ltd

新北市淡水區中正東路二段27-10號7樓

7F, No.27-10, Sec.2, Zhongzheng E.Rd., Tamsui Dist, New Taipei City 25170, Taiwan

Tel: +886-2-28085136 Fax: +886-2-28086003

E-mail: sales@rexpowers.com

工廠 Tel Fax: +886-2-26266852

<https://www.rexpowers.com/>



## 上海磊星機電設備有限公司

Shanghai Leixing Machinery & Electron Co., Ltd

上海市嘉定區安亭鎮園工路1188號

1188, Yuangong Road, Anting Town, Jiading District, Shanghai City 201805, China

Tel: +86-21-39120822 +86-21-39120882

