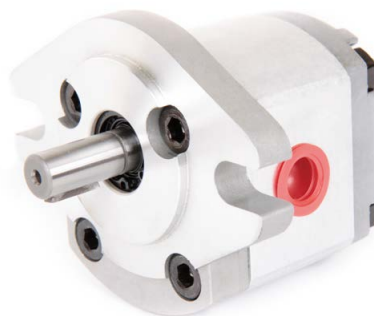


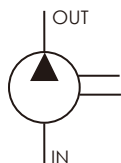
# HGP Series Gear Pump

## HGP-1A

- Displacement : 0.5~7.8 cc/rev
- Max. Pressure : 250 kgf/cm<sup>2</sup>  
( 3500psi )
- Flange : SAE 2-bolt, DIN 4-bolt,  
European 4-bolt



### SCHEMATIC SYMBOL



### ORDER CODES

|               |   |          |   |           |   |          |   |          |   |           |
|---------------|---|----------|---|-----------|---|----------|---|----------|---|-----------|
| <b>HGP-1A</b> | - | <b>F</b> | - | <b>08</b> | - | <b>R</b> | - | <b>X</b> | - | <b>2B</b> |
| 1             |   | 2        |   | 3         |   | 4        |   | 5        |   | 6         |

|          |                             |                                        |                     |
|----------|-----------------------------|----------------------------------------|---------------------|
| <b>1</b> | <b>Model Name</b>           | <b>HGP-1A</b>                          |                     |
| <b>2</b> | <b>Mounting</b>             | <b>F</b>                               | flange type         |
|          |                             | <b>L</b>                               | foot type           |
| <b>3</b> | <b>Delivery Capacity</b>    | <b>05, 08, 1, 2, 26, 3, 4, 5, 6, 8</b> |                     |
| <b>4</b> | <b>Rotation Direction</b>   | <b>R</b>                               | clockwise           |
|          |                             | <b>L</b>                               | counter - clockwise |
| <b>5</b> | <b>Shaft Type</b>           | <b>X</b>                               | straight shaft      |
|          |                             | <b>Y</b>                               | spline shaft        |
|          |                             | <b>M</b>                               | hydraulic motor *   |
| <b>6</b> | <b>Flange Mounting Type</b> | <b>2B</b>                              | SAE 2-bolt          |
|          |                             | <b>4BD</b>                             | DIN 4-bolt          |
|          |                             | <b>4BE</b>                             | European 4-bolt     |

\* Please contact the local distributors to obtain the specifications of hydraulic motors.

### SPECIFICATIONS

| Model     | Accurate Displacement Capacity ( cc/rev ) | Operational Pressure ( kgf/cm <sup>2</sup> ) | Max. Pressure ( kgf/cm <sup>2</sup> ) | Speed ( r.p.m. ) |      |      | Weight ( kg ) |
|-----------|-------------------------------------------|----------------------------------------------|---------------------------------------|------------------|------|------|---------------|
|           |                                           |                                              |                                       | Rate             | Max. | Min. |               |
| HGP-1A-05 | 0.5                                       | 210                                          | 250                                   | 1800             | 4500 | 1000 | 1.0           |
| HGP-1A-08 | 0.8                                       | 210                                          | 250                                   | 1800             | 4500 | 1000 | 1.0           |
| HGP-1A-1  | 1                                         | 210                                          | 250                                   | 1800             | 4500 | 1000 | 1.0           |
| HGP-1A-2  | 2                                         | 210                                          | 250                                   | 1800             | 4500 | 600  | 1.05          |
| HGP-1A-26 | 2.6                                       | 210                                          | 250                                   | 1800             | 4500 | 600  | 1.15          |
| HGP-1A-3  | 3                                         | 210                                          | 250                                   | 1800             | 4500 | 600  | 1.15          |
| HGP-1A-4  | 4                                         | 210                                          | 250                                   | 1800             | 4000 | 600  | 1.18          |
| HGP-1A-5  | 5                                         | 210                                          | 250                                   | 1800             | 3200 | 600  | 1.2           |
| HGP-1A-6  | 6                                         | 210                                          | 250                                   | 1800             | 3200 | 600  | 1.3           |
| HGP-1A-8  | 7.8                                       | 170                                          | 210                                   | 1800             | 3200 | 600  | 1.4           |

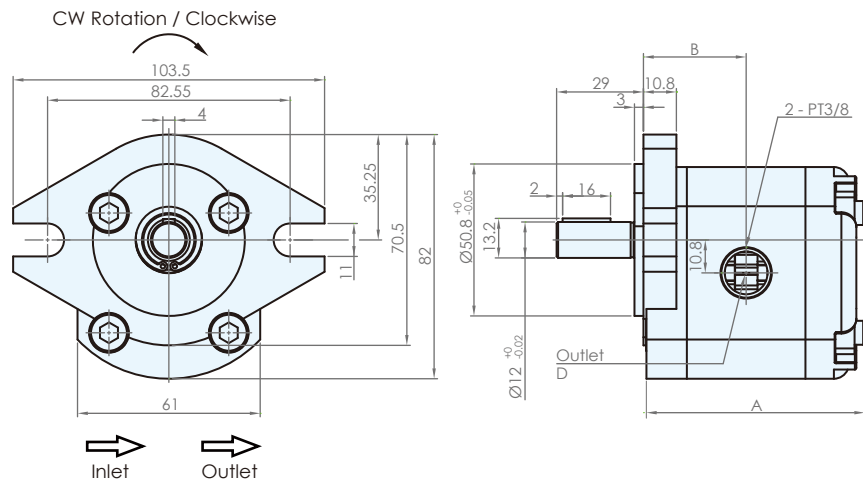
\* HGP-1A-05 and HGP-1A-26 do not belong to regular products. Customized service can be provided.

Saar Hydraulic Co.,Ltd

# HGP Series Gear Pump

## DIMENSIONS (unit : mm)

### HGP-1A-2B

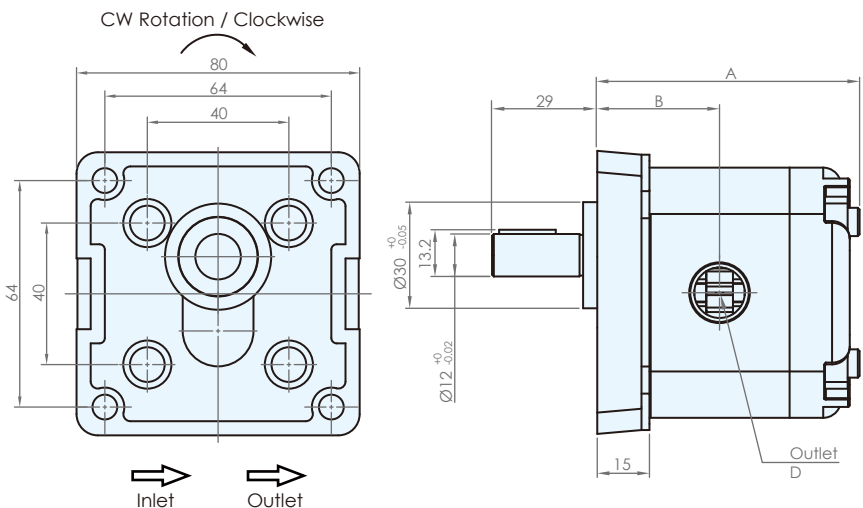


| Model     | A    | B    | C Inlet | D Outlet |
|-----------|------|------|---------|----------|
| HGP-1A-08 | 67.5 | 32.5 | PT 3/8" | PT 3/8"  |
| HGP-1A-1  | 69.5 | 33.5 | PT 3/8" | PT 3/8"  |
| HGP-1A-2  | 72   | 34.8 | PT 3/8" | PT 3/8"  |
| HGP-1A-3  | 77.5 | 37.5 | PT 3/8" | PT 3/8"  |
| HGP-1A-4  | 79.5 | 38.5 | PT 3/8" | PT 3/8"  |
| HGP-1A-5  | 83.5 | 40.5 | PT 3/8" | PT 3/8"  |
| HGP-1A-6  | 87.5 | 42.5 | PT 3/8" | PT 3/8"  |
| HGP-1A-8  | 93.5 | 45.5 | PT 1/2" | PT 3/8"  |

\* Thread: NPT or PT is optional.

\* If you want to order HGP-1A-05 or HGP-1A-26, please email us to get further information.

### HGP-1A-4BE

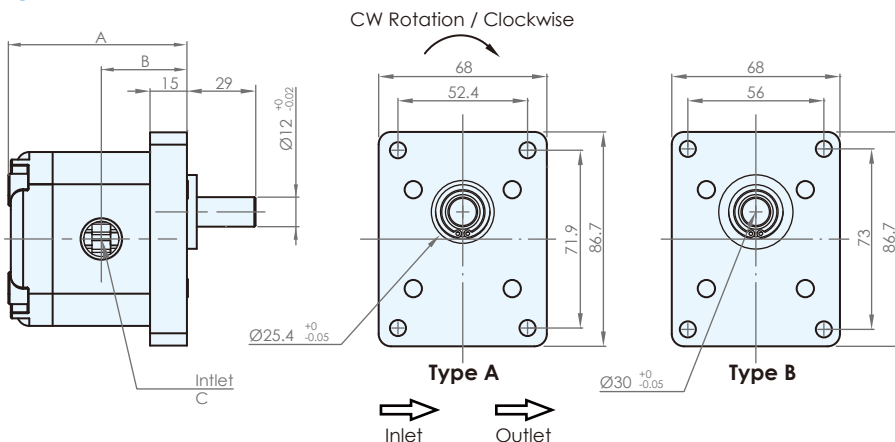


| Model     | A     | B    | C Inlet | D Outlet |
|-----------|-------|------|---------|----------|
| HGP-1A-08 | 75.5  | 32.5 | PT 3/8" | PT 3/8"  |
| HGP-1A-1  | 77.5  | 33.5 | PT 3/8" | PT 3/8"  |
| HGP-1A-2  | 80.1  | 34.8 | PT 3/8" | PT 3/8"  |
| HGP-1A-3  | 85.5  | 37.5 | PT 3/8" | PT 3/8"  |
| HGP-1A-4  | 87.5  | 38.5 | PT 3/8" | PT 3/8"  |
| HGP-1A-5  | 91.5  | 40.5 | PT 3/8" | PT 3/8"  |
| HGP-1A-6  | 95.5  | 42.5 | PT 3/8" | PT 3/8"  |
| HGP-1A-8  | 101.5 | 45.5 | PT 1/2" | PT 3/8"  |

\* Thread: NPT or PT is optional.

\* If you want to order HGP-1A-05 or HGP-1A-26, please email us to get further information.

### HGP-1A-4BD



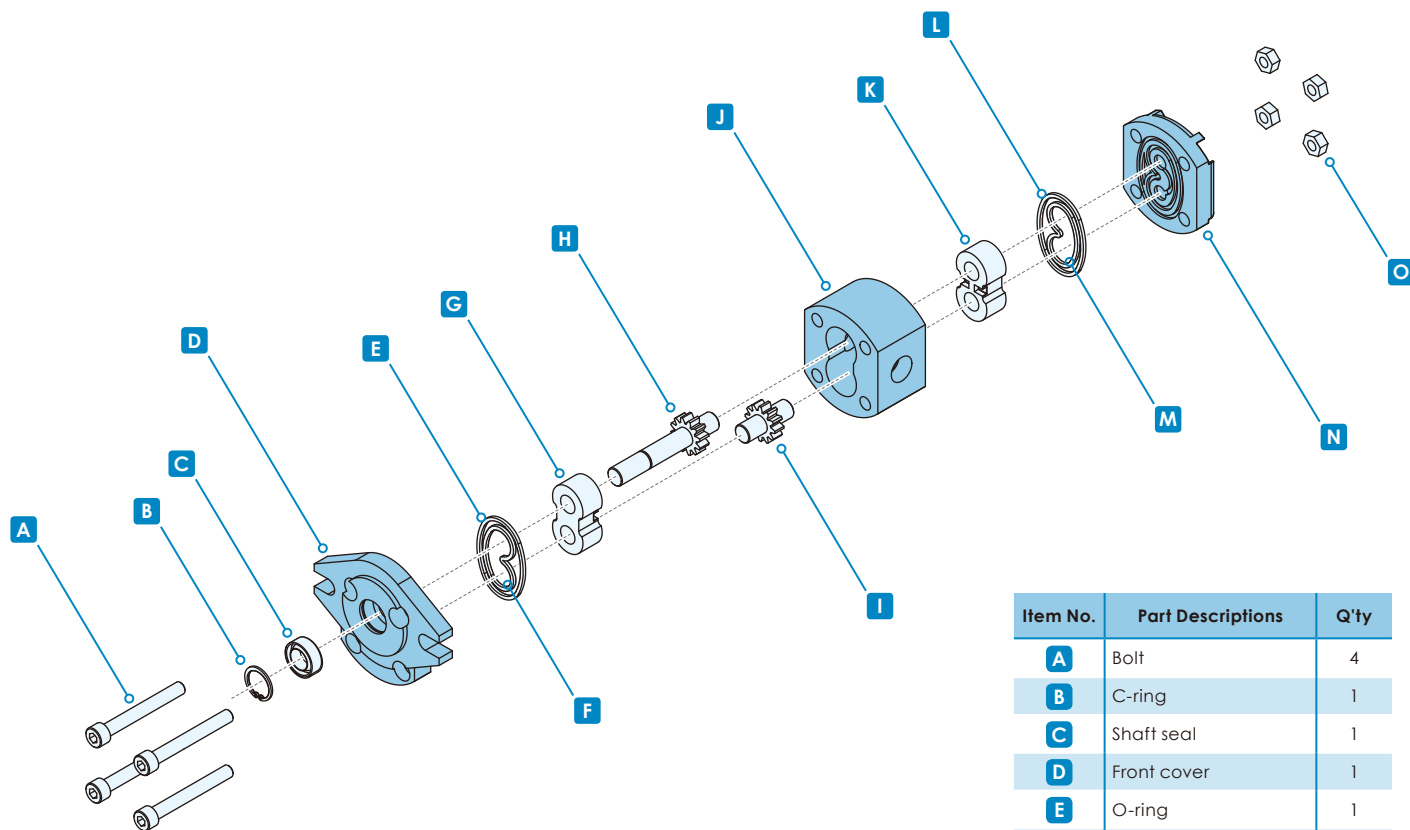
| Model     | A    | B    | C Inlet | D Outlet |
|-----------|------|------|---------|----------|
| HGP-1A-08 | 67.5 | 32.5 | PT 3/8" | PT 3/8"  |
| HGP-1A-1  | 69.5 | 33.5 | PT 3/8" | PT 3/8"  |
| HGP-1A-2  | 72   | 34.8 | PT 3/8" | PT 3/8"  |
| HGP-1A-3  | 77.5 | 37.5 | PT 3/8" | PT 3/8"  |
| HGP-1A-4  | 79.5 | 38.5 | PT 3/8" | PT 3/8"  |
| HGP-1A-5  | 82.5 | 40.5 | PT 3/8" | PT 3/8"  |
| HGP-1A-6  | 87.5 | 42.5 | PT 3/8" | PT 3/8"  |
| HGP-1A-8  | 93.5 | 45.5 | PT 1/2" | PT 3/8"  |

\* Thread: NPT or PT is optional.

\* If you want to order HGP-1A-05 or HGP-1A-26, please email us to get further information.

# HGP Series Gear Pump

## DECOMPOSITION CHARTS



| Item No. | Part Descriptions | Q'ty |
|----------|-------------------|------|
| A        | Bolt              | 4    |
| B        | C-ring            | 1    |
| C        | Shaft seal        | 1    |
| D        | Front cover       | 1    |
| E        | O-ring            | 1    |
| F        | Bush lobe seal    | 1    |
| G        | Matching bearing  | 1    |
| H        | Drive gear        | 1    |
| I        | Drive gear        | 1    |
| J        | Housing           | 1    |
| K        | Matching bearing  | 1    |
| L        | Bush lobe seal    | 1    |
| M        | O-ring            | 1    |
| N        | Rear cover        | 1    |
| O        | Nut               | 4    |