### Model number

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<td>F</td>
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<td>H</td>
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- **Series number**: SGP2 series
- **Position of ports**: F: rear cover side ports  D: rear ports
- **Port configuration**: 1: flange port (sides only)  2: G screw thread (Rear only)
- **Mounting**: H: horizontal 2 bolts
- **Shaft end**: 1: SAE Spline 13 teeth
- **Rotation viewing from shaft end**: L = counterclockwise  R = clockwise
- **Code number in 3 figures**

### Specifications

<table>
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<tr>
<th>Size</th>
<th>Displacement cm³</th>
<th>in³</th>
<th>Rated pressure MPa</th>
<th>bar</th>
<th>psi</th>
<th>Max. peak pressure MPa</th>
<th>bar</th>
<th>psi</th>
<th>Speed min⁻¹</th>
<th>Inlet pressure</th>
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**NOTE**: ( ) Rear Ports

### Typical assembly

- **Item No.**
  - Front cover
  - Body
  - Drive gear
  - Driven gear
  - Bush
  - Side plate
  - Rear cover
  - Back-up
  - Gasket
  - Gasket
  - Bolt
  - Washer
  - Oil seal
  - Retainer ring

- **Name**
  - Aluminum alloy
  - Cast iron
  - Alloy
  - Alloy steel
  - Special alloy steel
  - Special alloy steel
  - Aluminum alloy
  - Synthetic resin
  - Nitrile rubber
  - Nitrile rubber
  - Alloy steel
  - Carbon steel
  - Nitrile rubber
  - Carbon tool steel

**NOTES**: "QTY" shows the amount per one
**Outline dimensions**

**SGP2□F1H□-LXXX (Side ports)**

**SGP2□D2H□-LXXX (Rear ports)**

**NOTE**
1. Figure shown indicated counterclockwise rotation "L" viewing from shaft end. Clockwise rotation "R" is mirror image of this.
2. Unless otherwise specified, tolerance on dimension are ±1.0 mm.

<table>
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**Shaft end**

SAE Spline (Some dimensions are different form SAE standard.)

SAE Spline 13 teeth

- No. of teeth: 13
- D.P.: 16/32
- Pressure angle: 30°
- Over pin dia.: 24.891
- 24.819
- Pin dia.: Ø3.048
SGP2 Series Performance curves

OIL: ISO VG32 Hydraulic Fluid at 40°C

SGP2-20

SGP2-25

SGP2-32

SGP2-36
SGP2 Series Performance curves

OIL: ISO VG32 Hydraulic Fluid at 40°C

SGP2-40

SGP2-44

SGP2-48

SGP2-52

Shimadzu Corporation Fluidics Systems Division

The appearances and specifications are subject to change for reasons of improvement without notice.