SMG400 Series
Low-noise gear pump. Cast-iron body

Model number

SMG400 A 30 A 1 H 1 - L XXX

1 2 3 4 5 6 7 8 9

1 Series number
SMG400 series
2 Mounting spigot diameter
- φ82.5mm 
Z : φ102mm
A : φ82.55mm, B : φ101.6mm
3 Position of ports
A : side ports
D : rear ports
4 Port configuration
1 : flange port
2 : G screw thread
5 Mounting
H : horizontal 2 bolts
6 Shaft end
1 : SAE Spline 13 teeth
7 Rotation viewing from shaft end
L = counterclockwise
R = clockwise
8 Code number in 3 figures

Specifications

<table>
<thead>
<tr>
<th>Size</th>
<th>Displacement</th>
<th>Rated pressure</th>
<th>Max. peak pressure</th>
<th>Speed min⁻¹</th>
<th>Inlet pressure</th>
<th>Mass</th>
<th>kg</th>
<th>lb</th>
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<tbody>
<tr>
<td></td>
<td>cm³</td>
<td>in³</td>
<td>MPa</td>
<td>bar</td>
<td>psi</td>
<td>MPA</td>
<td>bar</td>
<td>psi</td>
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Typical assembly

Item No. | Name             | QTY | Material
-------|------------------|-----|--------|
1       | Front cover      | 1   | Aluminum alloy
2       | Body             | 1   | Cast iron
3       | Drive gear       | 1   | Alloy steel
4       | Driven gear      | 1   | Alloy steel
5       | Side plate       | 2   | Special alloy steel
6       | Bush             | 4   | Special alloy steel
7       | Gasket           | 2   | Nitrile rubber
8       | O-ring           | 1   | Nitrile rubber
9       | Back-up          | 2   | Synthetic resin
10      | Bolt             | 4   | Alloy steel
11      | Oil seal         | 1   | Nitrile rubber
12      | Retainer ring    | 1   | Carbon steel

NOTES: *QTY* shows the amount per one
SMG400 Series  Low-noise gear pump, Cast-iron body

◆ Outline dimensions

SMG400□A2H□-LXXX (Side ports)

Dimensions in mm

NOTE 1. Figure shown indicated counterclockwise rotation “L” viewing from shaft end.
2. Unless otherwise specified, tolerance on dimension are ±1.0 mm.

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<tr>
<th>Size</th>
<th>L₁</th>
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◆ Shaft end

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

SAE Spline  13 teeth

<table>
<thead>
<tr>
<th>No. of teeth</th>
<th>D.P.</th>
<th>Pressure angle</th>
<th>Over pin dia.</th>
<th>Pin dia.</th>
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<td>13</td>
<td>16/32</td>
<td>30°</td>
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Shimadzu Corporation  Fluidics Systems Division
The appearances and specifications are subject to change for reasons of improvement without notice.