



◆ Model number

SMG400 **A** **30** **A** **1** **H** **1** - **L** **XXX**

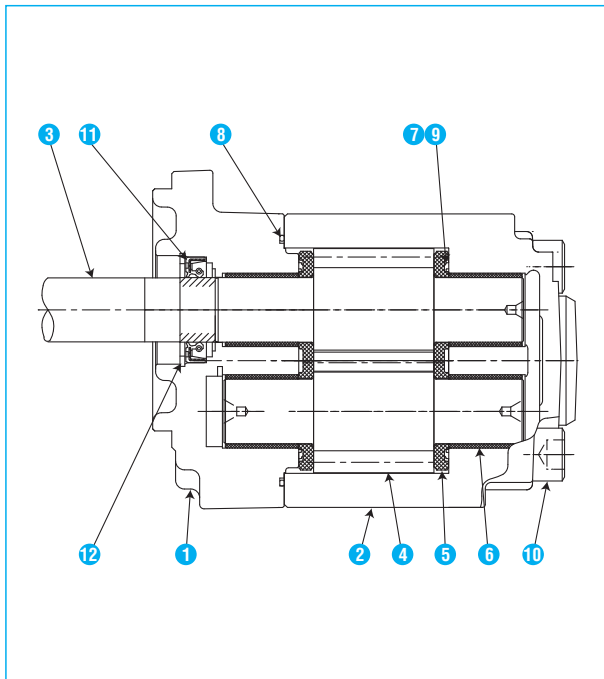
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- | | | | |
|--|---|---|---|
| <p>1 Series number SMG400 series</p> <p>2 Mounting spigot diameter - : $\phi 82_{-0.036}^{-0.036}$ Z : $\phi 102_{-0.036}^{-0.036}$ A : $\phi 82.55_{-0.05}^{-0.05}$ B : $\phi 101.6_{-0.05}^{-0.05}$</p> <p>3 Size</p> | <p>4 Position of ports A : side ports D : rear ports</p> <p>5 Port configuration 1 : flange port 2 : G screw thread</p> | <p>6 Mounting H : horizontal 2 bolts</p> <p>7 Shaft end 1 : SAE Spline 13 teeth</p> | <p>8 Rotation viewing from shaft end L = counterclockwise R = clockwise</p> <p>9 Code number in 3 figures</p> |
|--|---|---|---|

◆ Specifications

| Size | Displacement | | Rated pressure | | | Max. peak pressure | | | Speed min ⁻¹ | | Inlet pressure | Mass | |
|------|-----------------|-----------------|----------------|-----|------|--------------------|-----|------|-------------------------|------|----------------|------|-------|
| | cm ³ | in ³ | MPa | bar | psi | MPa | bar | psi | MIN. | MAX. | | kg | lb |
| 16 | 16.6 | 1.013 | 23.0 | 230 | 3335 | 27.6 | 276 | 4002 | 500 | 3400 | bar | 3.3 | 7.26 |
| 20 | 20.8 | 1.269 | | | | | | | | | -0.20~ 2.0 | | |
| 23 | 24.2 | 1.476 | | | | | | | | | MPa | | |
| 27 | 28.4 | 1.732 | | | | | | | | | -0.02~ 0.2 | | |
| 30 | 30.5 | 1.861 | | | | | | | | | psi | | |
| | | | | | | | | | | | -2.9 ~29 | 6.0 | 13.20 |

◆ Typical assembly



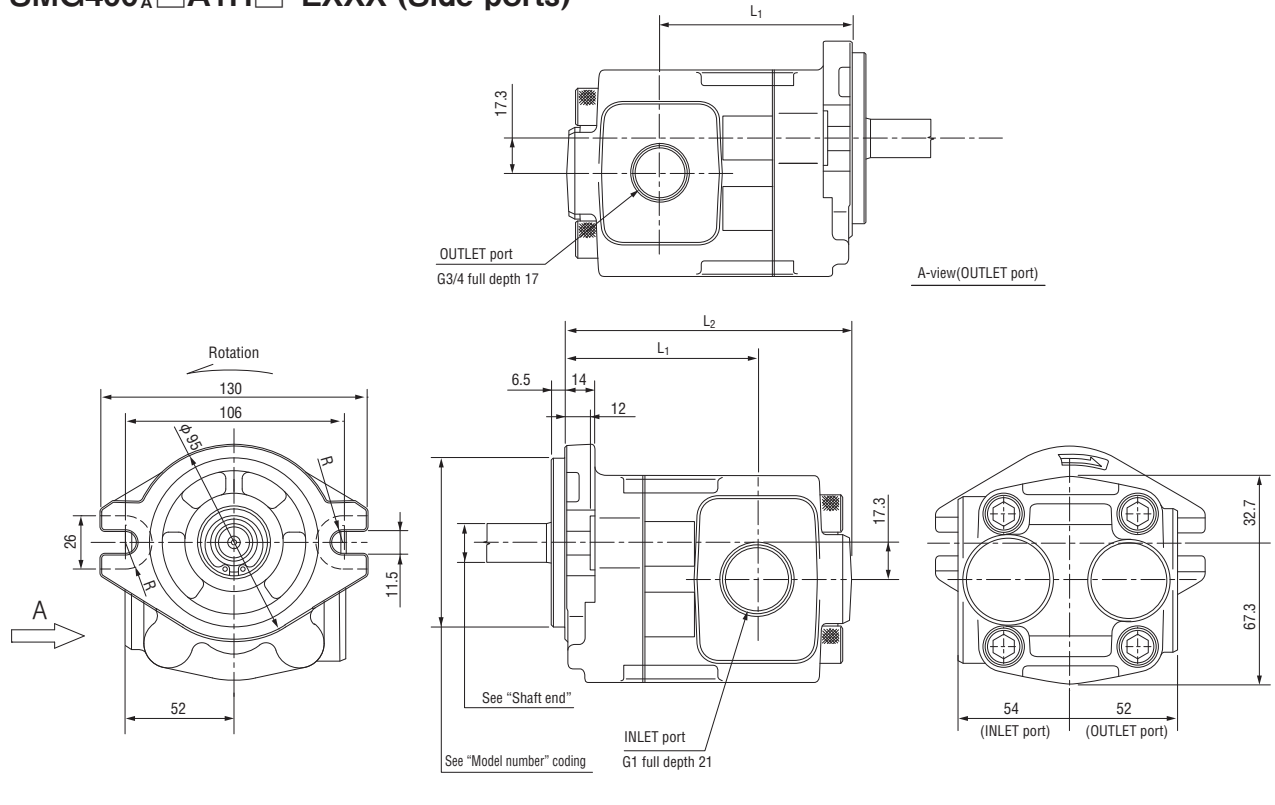
| Item No. | Name | QTY | Material |
|-----------|---------------|-----|---------------------|
| 1 | Front cover | 1 | Aluminum alloy |
| 2 | Body | 1 | Cast iron |
| 3 | Drive gear | 1 | Alloy steel |
| 4 | Driven gear | 1 | Alloy steel |
| 5 | Side plate | 2 | Special alloy steel |
| 6 | Bush | 4 | 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

◆ Outline dimensions

dimensions in mm

SMG400_A□A1H□-LXXX (Side ports)



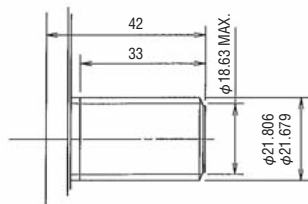
- NOTE 1. Figure shown indicated counterclockwise rotation "L" viewing from shaft end.
 2. Unless otherwise specified, tolerance on dimension are ± 1.0 mm.

| Size | L ₁ | L ₂ |
|------|----------------|----------------|
| 16 | 71.3 | 118 |
| 20 | 76.3 | 123 |
| 23 | 80.3 | 127 |
| 27 | 85.3 | 132 |
| 30 | 87.8 | 135 |

● Shaft end

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

SAE Spline 13 teeth



- No. of tooth : 13
- D.P. : 16/32
- Pressure angle : 30°
- Over pin dia. : 24.891~
24.819
- Pin dia. : $\phi 3.048$