



◆ Model number

SMG300 **A** **18** **A** **2** **H** **1** - **L** **XXX**

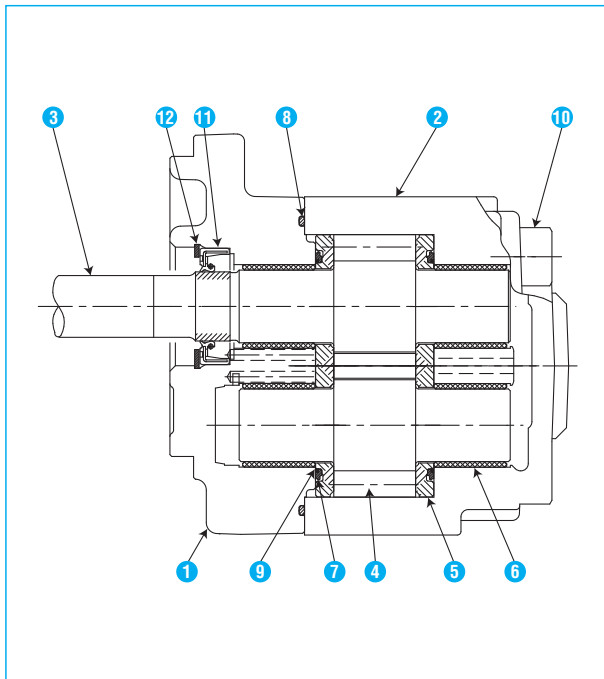
1
2
3
4
5
6
7
8
9

- | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <p>1 Series number
SMG300 series</p> <p>2 Mounting spigot diameter
- : $\phi 82_{-0.036}^{0.036}$
A : $\phi 82.55_{-0.05}^{0.05}$</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 10 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
8	8.28	0.505	23.0	230	3335	28.0	276	4002	500	3500	bar -0.20~ 1.0 MPa -0.02~ 0.1 psi -2.9 ~14.5	3.7	8.14
10.5	10.7	0.653										3.8	8.36
14	14.5	0.885										4.0	8.80
16	16.4	1.000										4.0	8.80
18	18.4	1.122										4.2	9.24
21	21.8	1.330										4.3	9.46
23	23.7	1.446										4.4	9.68
24	24.5	1.495	22.0	220	3190	27.0	264	3828	4.5	9.90			

◆ Typical assembly



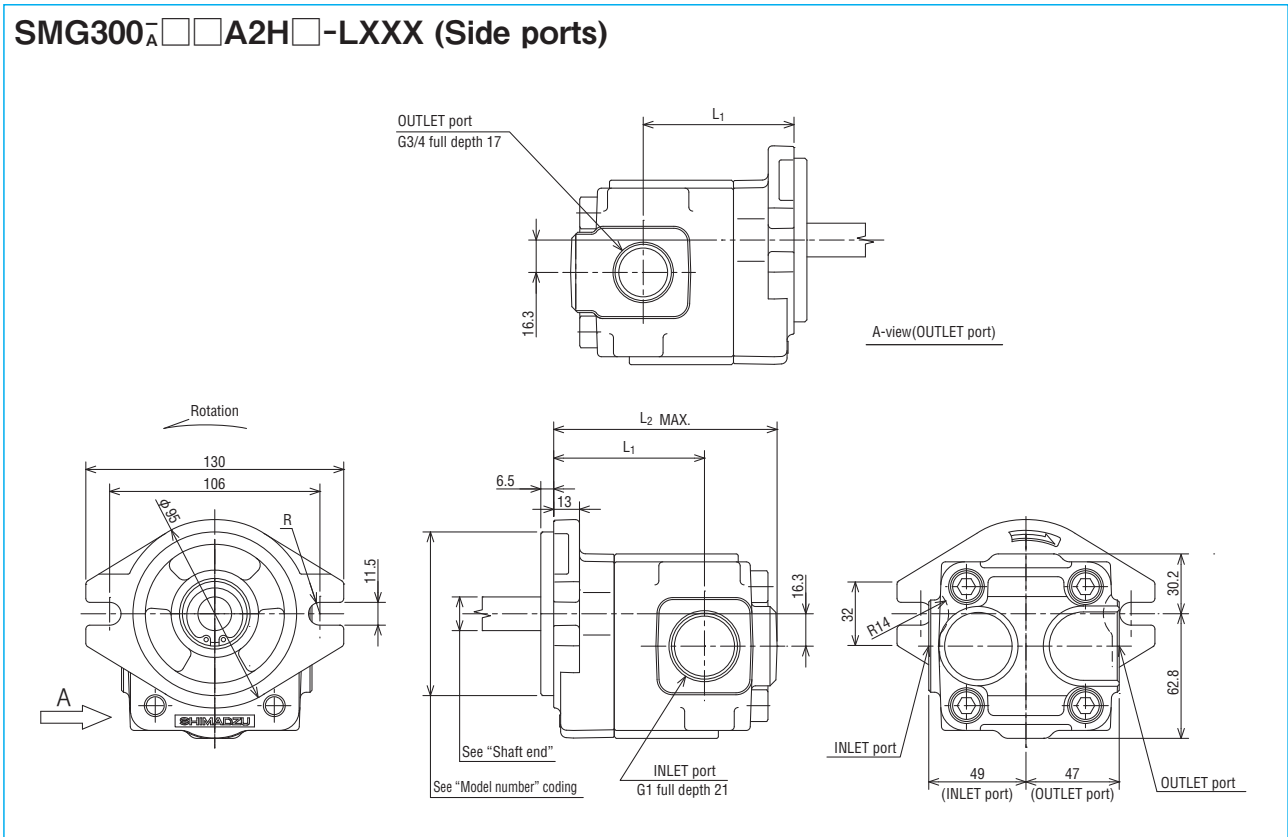
Item No.	Name	QTY	Material
1	Front cover	1	Aluminum alloy
2	Body	1	Cast iron
3	Drive gear	1	Alloy steel
4	Driven gear	1	Alloy steel
5	Side plate	2	Special alloy steel
6	Bush	4	Special alloy steel
7	Gasket	2	Nitrile rubber
8	O-ring	1	Nitrile rubber
9	Back-up	2	Synthetic resin
10	Bolt	4	Alloy steel
11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

NOTES : "QTY" shows the amount per one

◆ Outline dimensions

dimensions in mm

SMG300_A□□A2H□-LXXX (Side ports)



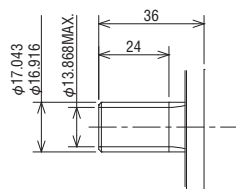
- NOTE 1. Figure shown indicated counterclockwise rotation “L” viewing from shaft end. Clockwise rotation “R” is mirror image of this.
2. Unless otherwise specified, tolerance on dimension are ± 1.0 mm.

Size	L ₁	L ₂
8	54.8	93.3
10.5	58.0	96.5
14	63.0	101.5
16	65.5	104.0
18	68.0	106.5
21	72.5	111.0
23	75.0	113.5
24	76.0	114.5

● Shaft end

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

SAE Spline 10 teeth



No. of tooth : 10
 D.P. : 16/32
 Pressure angle : 30°
 Over pin dia. : 20.263~
 20.193
 Pin dia. : $\phi 3.048$