

SGP500 Series

Cast- iron body



New Product

◆Model number

SGP500 B 40 A 2 H 1 - R XXX

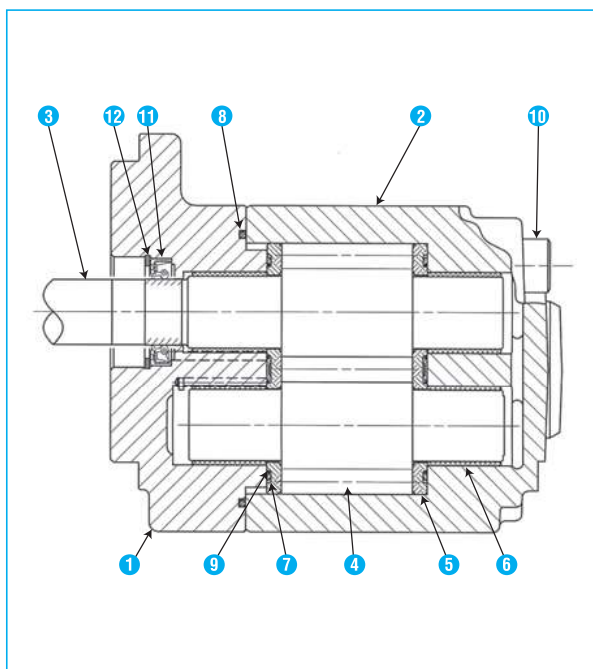
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

- | | | | |
|---|---|--|--|
| ① Series number
SGP500 series | ④ Position of ports
A : side ports
D : rear ports | ⑥ Mounting
H : horizontal 2 bolts | ⑧ Rotation viewing from shaft end
L = counterclockwise
R = clockwise |
| ② Mounting spigot diameter
Z : $\phi 102^{+0.036}_{-0.090}$
B : $\phi 101.6^{+0.0}_{-0.25}$ | ⑤ Port configuration
1 : flange port
2 : G screw thread | ⑦ Shaft end
1 : SAE Spline 13 teeth | ⑨ Code number in 3 figures |
| ③ Size | | | |

◆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
27	27.9	1.70	25.0	250	3625	30.0	300	4350	400	3000	bar -0.20~ 2.0 MPa -0.02~ 0.2 psi -2.9 ~29	7.1	15.55
32	33.1	2.02										7.2	15.87
36	37.3	2.28										7.4	16.20
40	41.4	2.53	24.0	240	3480	28.8	288	4176				7.5	16.49
44	45.6	2.78	21.0	210	3045	25.0	250	3625				7.6	16.75
48	49.7	3.03	20.0	200	2900	24.0	240	3480				7.8	17.09

◆Typical assembly



Item No.	Name	QTY	Material
①	Front cover	1	Aluminum casting
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 (3-Shaped)	2	Nitrile rubber
⑧	Gasket	1	Nitrile rubber
⑨	Back-up	2	Synthetic resin
⑩	Bolt	4	Alloy steel
⑪	Oil seal	1	See below
⑫	Retainer ring	1	Carbon steel

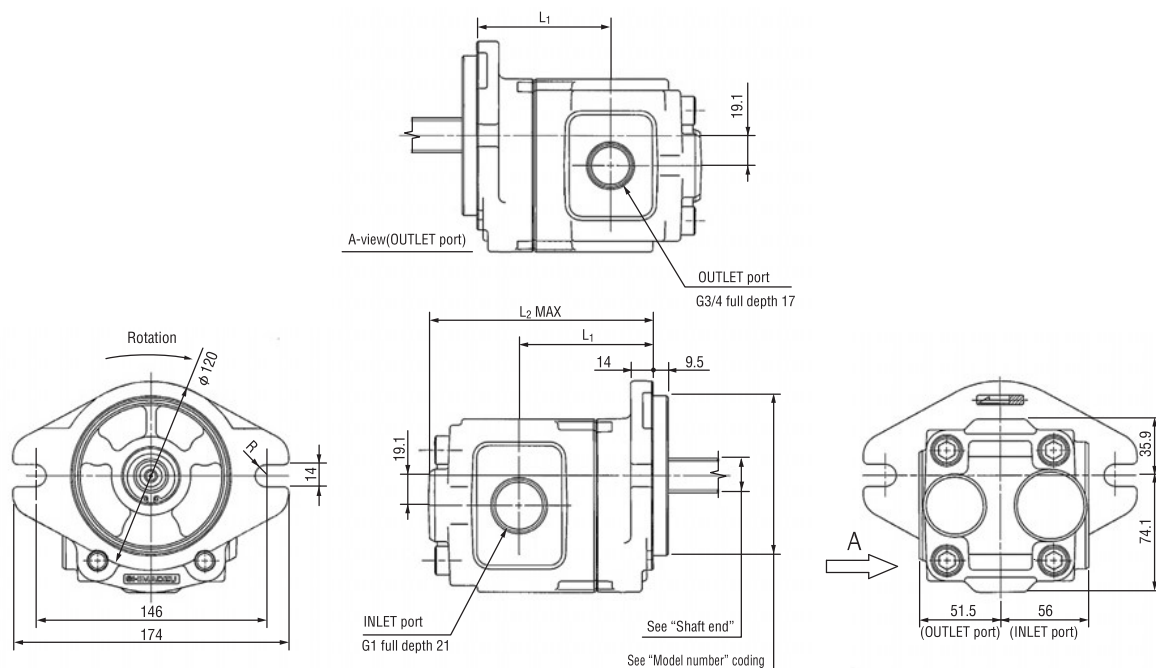
NOTES : "QTY" shows the amount per one

SGP500 Series Cast-iron body

◆Outline dimensions

dimensions in mm

SGP500^Z_B □ A2H □ -RXXX (Side ports)



NOTE 1. Figure shown indicated counterclockwise rotation "L" viewing from shaft end.

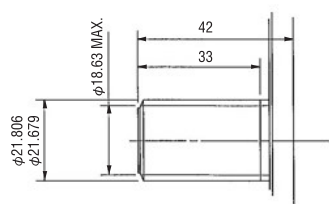
2. Unless otherwise specified, tolerance on dimension are ± 1.0 mm.

Size	L ₁	L ₂
27	68	127
32	73	132
36	77	136
40	81	140
44	85	144
48	89	148

●Shaft end

SAE Spline (Some dimensions are different from 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. : $\phi 3.048$

Shimadzu Corporation Fluidics Systems Division

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