



◆ Model number

SGP600 **B** **40** **A** **1** **H** **1** - **L** **XXX**

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

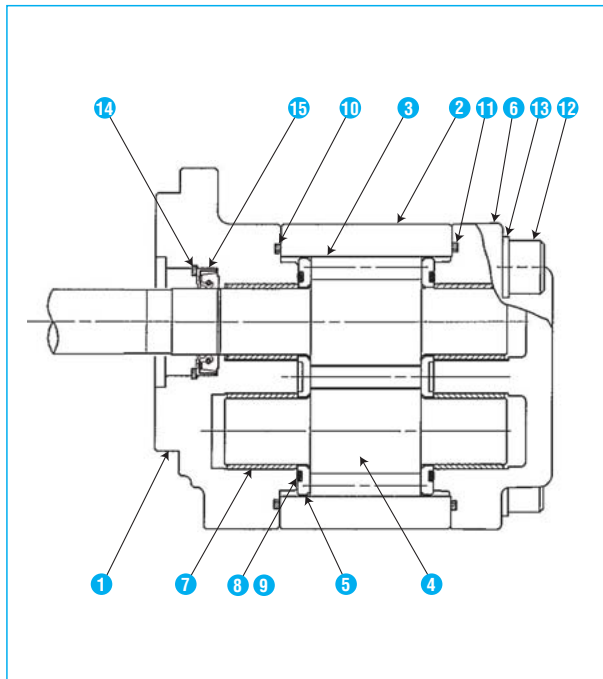
- | | | | |
|---|---|---|--|
| ① Series number
SGP600 series | ④ Position of ports
A : body side ports
D : rear ports | ⑥ Mounting
H : horizontal 2 bolts | ⑧ Rotation viewing from shaft end
L = counterclockwise
R = clockwise |
| ② Mounting spigot diameter
- : $\phi 82_{-0.036}^{+0.036}$ Z : $\phi 102_{-0.036}^{+0.036}$
A : $\phi 82.55_{-0.05}^{+0.05}$ B : $\phi 101.6_{-0.05}^{+0.05}$ | ⑤ Port configuration
1 : flange port
2 : G screw thread | ⑦ Shaft end
1 : SAE Spline 13 teeth
6 : SAE Spline 15 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
40	40.3	2.458	25.0	250	3625	30.0	300	4350	500	3000	bar -0.20~2.0	7.1	15.62
44	44.5	2.715										7.3	16.06
48	48.7	2.971									MPa -0.02~0.2	7.5	16.50
52	52.2	3.184								3000 (2700)		7.7	16.94
56	55.8	3.404	23.0	230	3335	27.6	276	4002		3000 (2500)	psi -2.9 ~29	7.9	17.38
60	60.0	3.660	21.0	210	3045	25.0	250	3625		3000 (2300)		8.2	18.04

NOTE : () Inlet port $\phi 32$

◆ 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	Rear cover	1	Aluminum alloy
⑦	Bush	4	Special alloy steel
⑧	Gasket	2	Nitrile rubber
⑨	Back-up	2	Synthetic resin
⑩	Gasket	1	Nitrile rubber
⑪	Gasket	1	Nitrile rubber
⑫	Bolt	4	Alloy steel
⑬	Washer	4	Carbon steel
⑭	Retainer ring	1	Carbon tool steel
⑮	Oil seal	1	Nitrile rubber

NOTES : "QTY" shows the amount per one

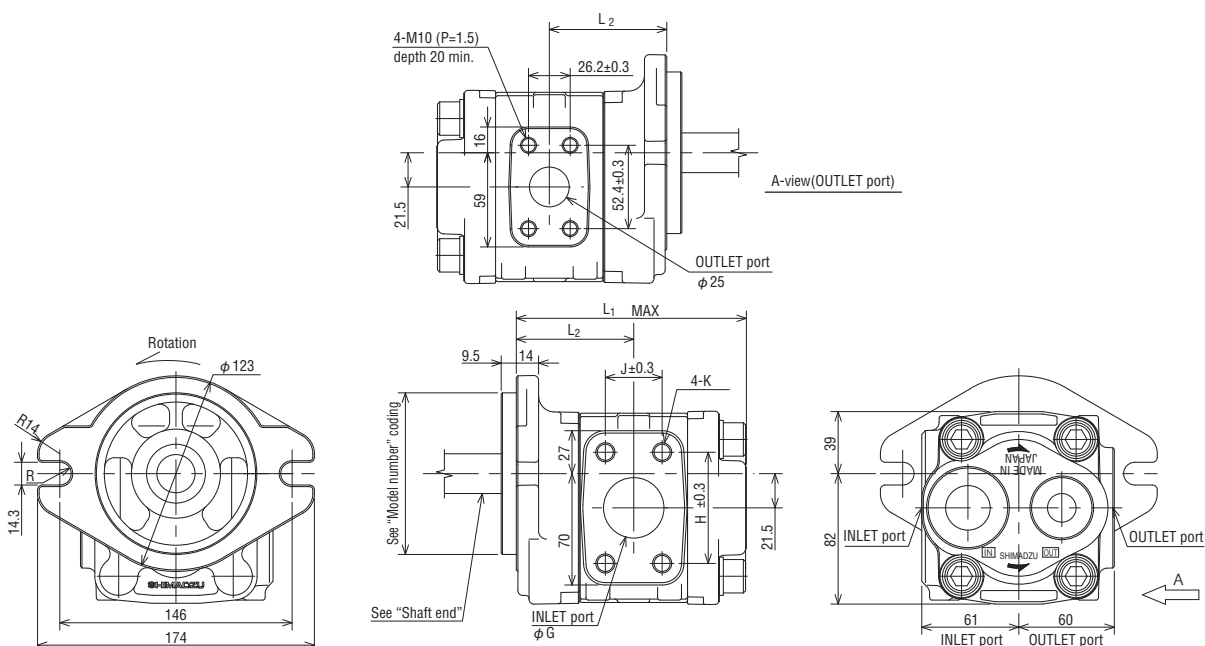
◆ Outline dimensions

dimensions in mm

SGP600^Z_B A1H -LXXX (Body side ports)

INLET PORT

Size	φG	H	J	K	L/min
1-1/4	φ32	58.7	30.2	M10 (P=1.5) depth 20	143
1-1/2	φ38	69.9	35.7	M12 (P=1.75) depth 15	205



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
40	137	68.8
44	140	70.6
48	144	72.3
52	147	73.8
56	150	75.3
60	153	77.1

● Shaft end

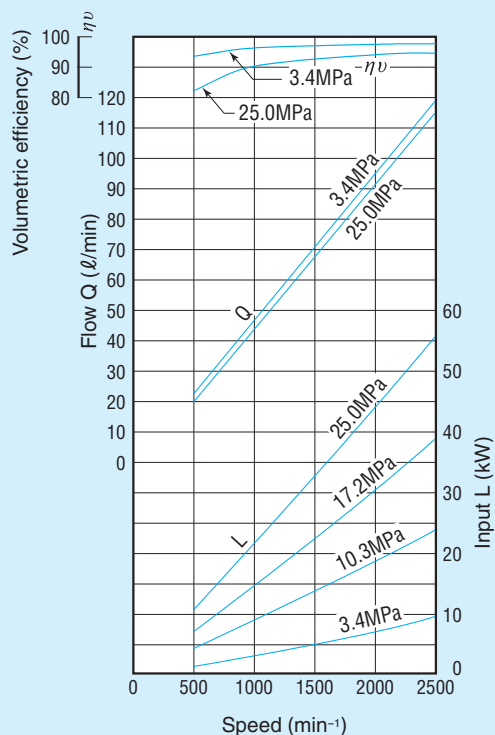
SAE Spline (Some dimensions are different form SAE standard.)

SAE Spline 13 teeth		SAE Spline 15 teeth	
	No. of tooth : 13		No. of tooth : 15
	D.P. : 16/32		D.P. : 16/32
	Pressure angle : 30°		Pressure angle : 30°
	Over pin dia. : 24.891 ~ 24.819		Over pin dia. : 28.097 ~ 28.025
	Pin dia. : φ3.048		Pin dia. : φ3.048

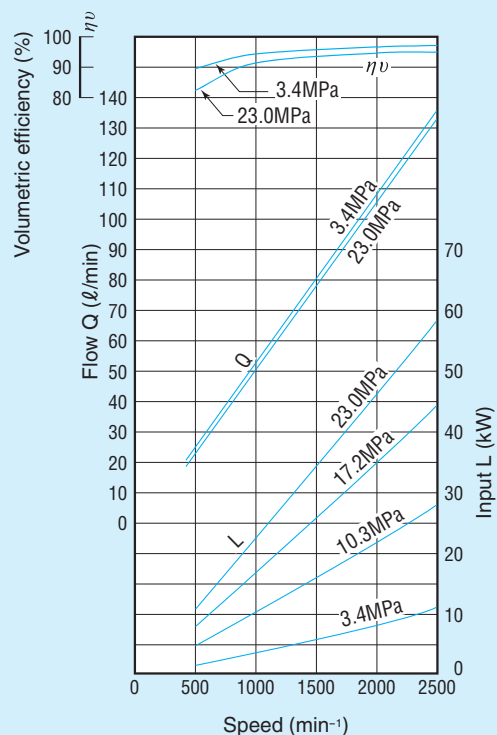
SGP600 Series Performance curves

OIL: ISO VG32 Hydraulic Fluid at 40°C

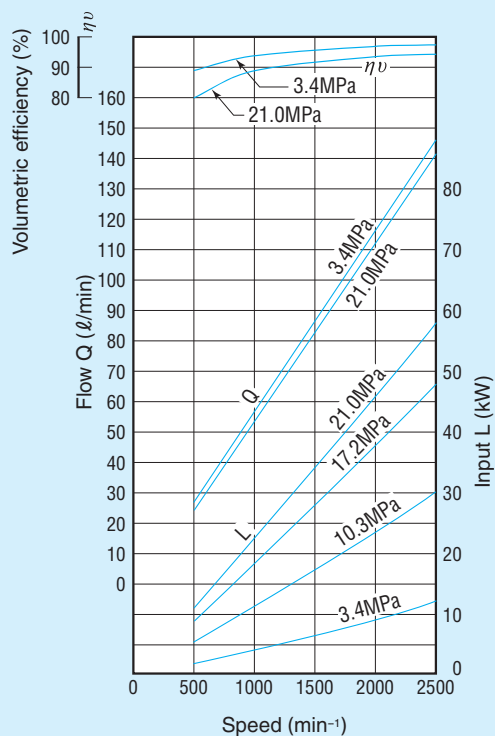
SGP600-48



SGP600-56



SGP600-60



Shimadzu Corporation Fluidics Systems Division

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