



◆ Model number

SGP2 - 36 F 1 H 1 - L XXX

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

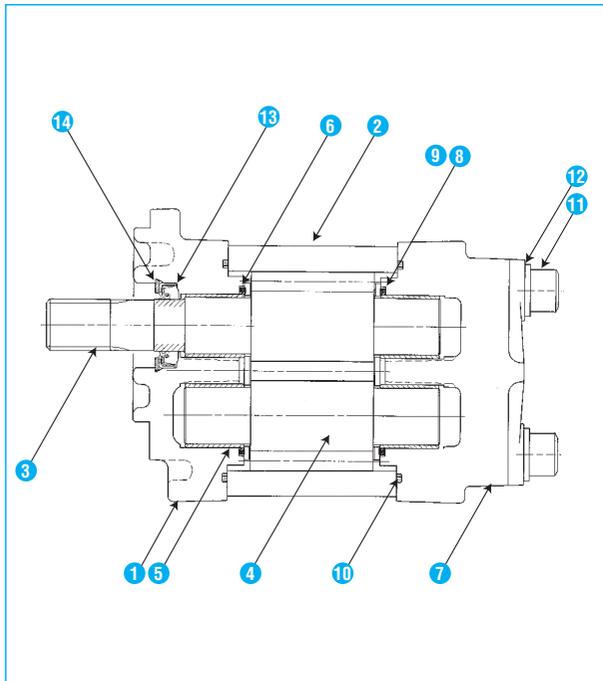
- | | | | |
|---|---|---|--|
| <p>① Series number
SGP2 series</p> <p>② Mounting spigot diameter
- : $\phi 82_{-0.036}^{-0.036}$ Z : $\phi 102_{-0.036}^{-0.036}$
A : $\phi 82.55_{-0.05}$ B : $\phi 101.6_{-0.05}$</p> <p>③ Size</p> | <p>④ Position of ports
F : rear cover side ports
D : rear ports</p> <p>⑤ Port configuration
1 : flange port (sides only)
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 = counter clockwise
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
SGP2-20	20.3	1.238	24.5	245	3553	29.4	294	4263	400	3000	bar -0.20~2.0	4.9 (4.4)	10.78 (9.68)
-23	23.3	1.421										5.1 (4.6)	11.22 (10.12)
-25	25.3	1.543										5.3 (4.8)	11.66 (10.56)
-27	27.4	1.671										5.4 (4.9)	11.88 (10.78)
-32	32.5	1.983										5.7 (5.1)	12.54 (11.22)
-36	36.5	2.227										5.9 (5.3)	12.98 (11.66)
-40	40.6	2.477										6.1 (5.4)	13.42 (11.88)
-44	44.7	2.727										6.3 (5.6)	13.86 (12.32)
-48	48.7	2.970										6.6 (5.9)	14.52 (12.98)
-52	52.8	3.221										6.8 (6.1)	14.96 (13.42)
											MPa -0.02~0.2		
											psi -2.9 ~29		

NOTE : () Rear Ports

◆ Typical assembly



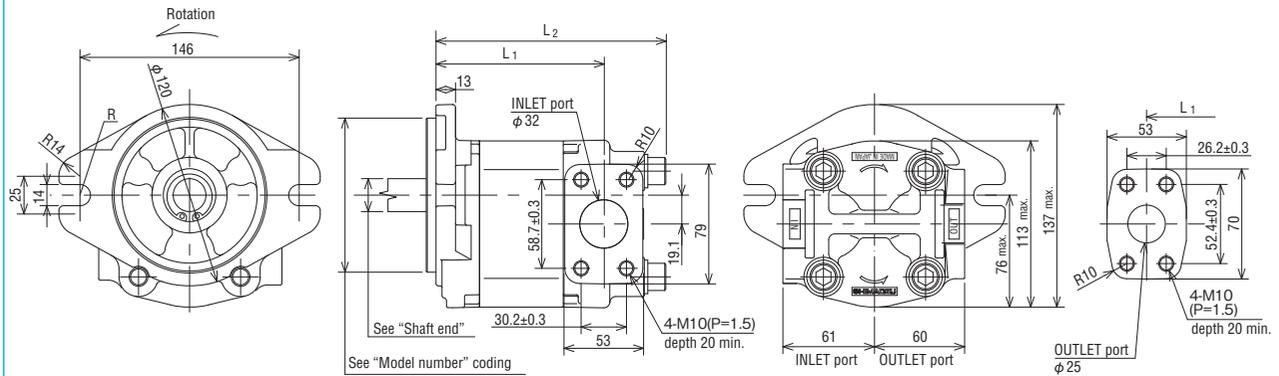
Item No.	Name	QTY	Material
①	Front cover	1	Aluminum alloy
②	Body	1	Cast iron
③	Drive gear	1	Alloy steel
④	Driven gear	1	Alloy steel
⑤	Bush	4	Special alloy steel
⑥	Side plate	2	Special alloy steel
⑦	Rear cover	1	Aluminum alloy
⑧	Back-up	2	Synthetic resin
⑨	Gasket	2	Nitril rubber
⑩	Gasket	2	Nitril rubber
⑪	Bolt	4	Alloy steel
⑫	Washer	4	Carbon steel
⑬	Oil seal	1	Nitril rubber
⑭	Retainer ring	1	Carbon tool steel

NOTES : "QTY" shows the amount per one

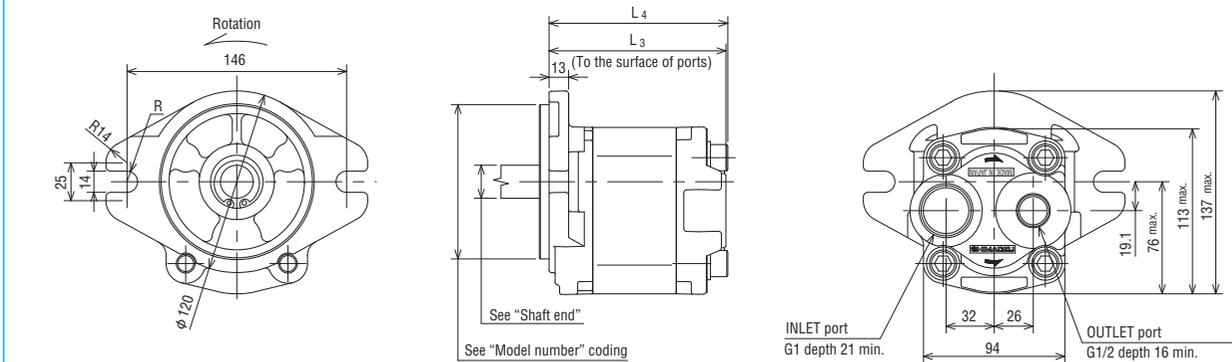
◆ Outline dimensions

dimensions in mm

SGP2-□F1H□-LXXX (Side ports)



SGP2-□D2H□-LXXX (Rear ports)



NOTE 1. Figure shown indicated counter clockwise rotation "L" viewing from shaft end. Clockwise rotation "R" is mirror image of this.

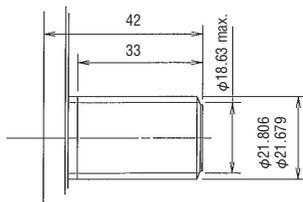
2. Unless otherwise specified, tolerance on dimension are ± 1.0 mm.

Size	Side ports		Rear ports	
	L_1	L_2	L_3	L_4
SGP2-20	95.6	138	101.6	104
-23	98.6	141	104.6	107
-25	100.6	143	106.6	109
-27	102.6	145	108.6	111
-32	107.6	150	113.6	116
-36	111.6	154	117.6	120
-40	115.6	158	121.6	124
-44	119.6	162	125.6	128
-48	123.6	166	129.6	132
-52	127.6	170	133.6	136

● Shaft end

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

SAE Spline 13 teeth

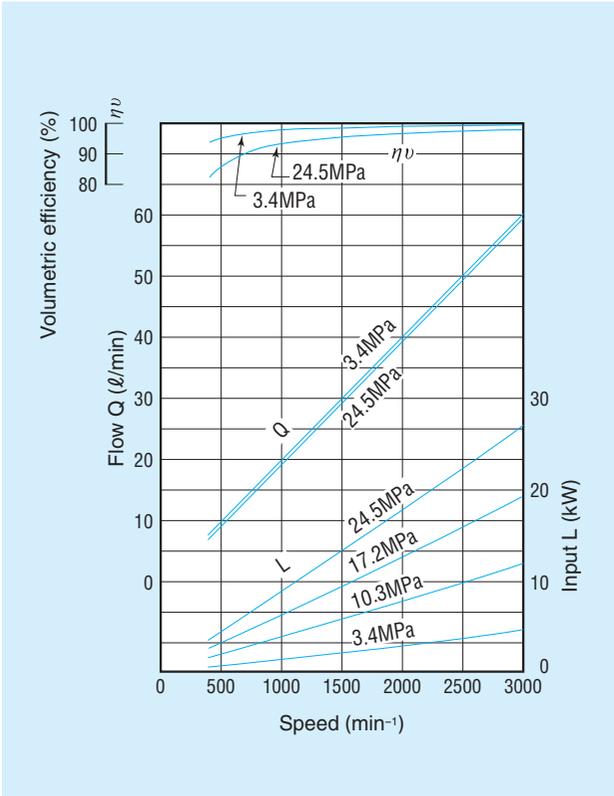


No. of tooth : 13
D.P. : 16/32
Pressure angle : 30°
Over pin dia. : $\phi 24.891 \sim \phi 24.819$
Pin dia. : $\phi 3.048$

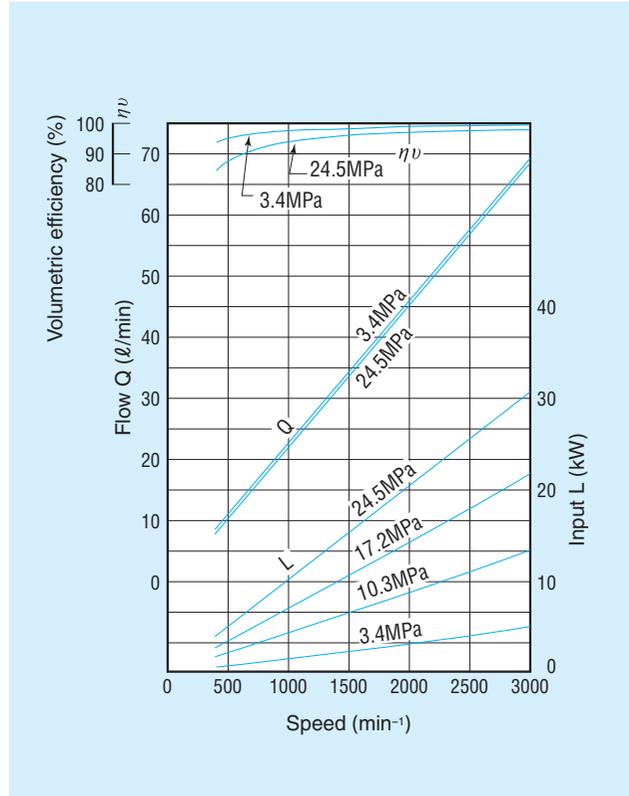
SGP2 Series Performance curves

OIL: ISO VG32 Hydraulic Fluid at 40°C

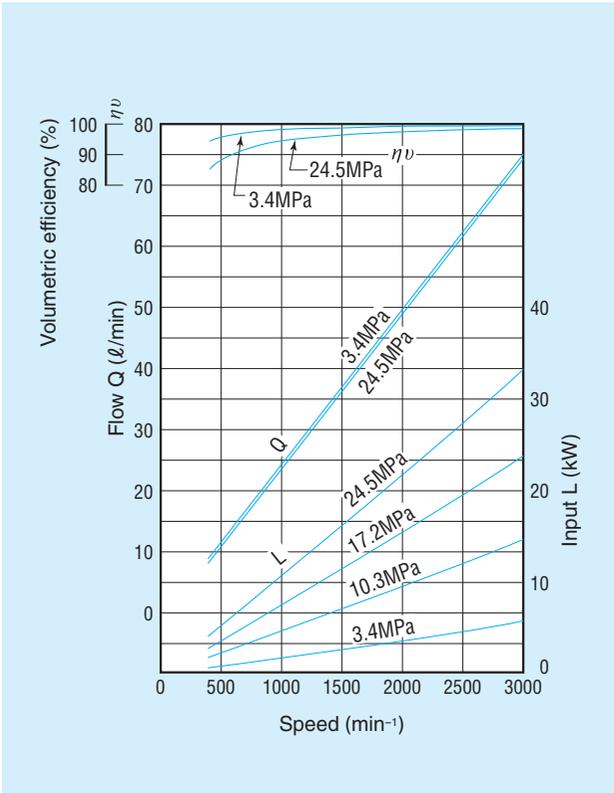
SGP2-20



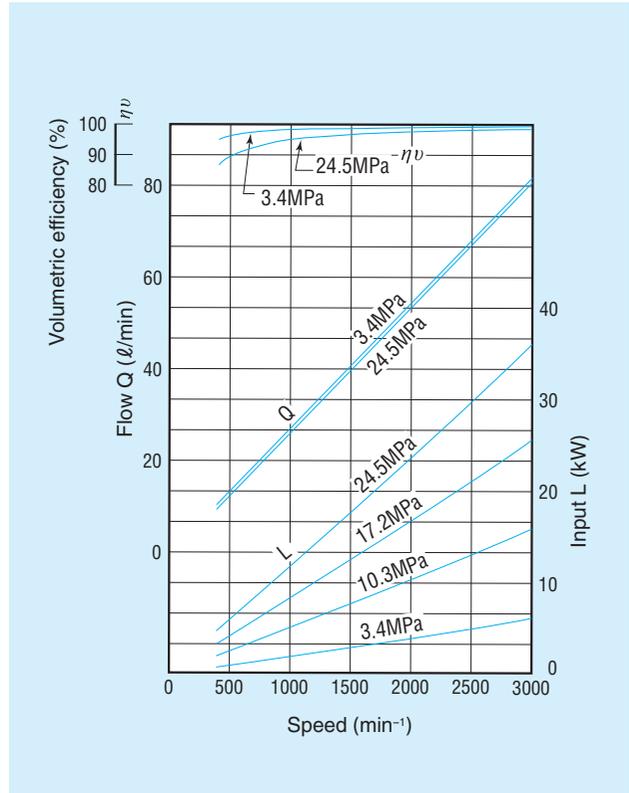
SGP2-23



SGP2-25



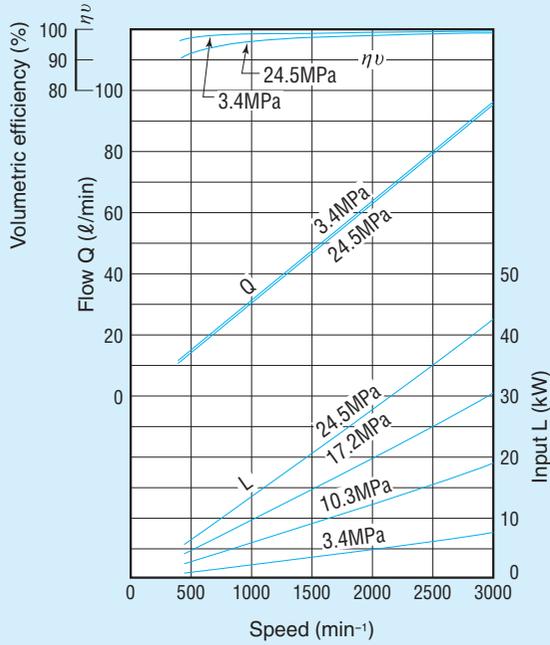
SGP2-27



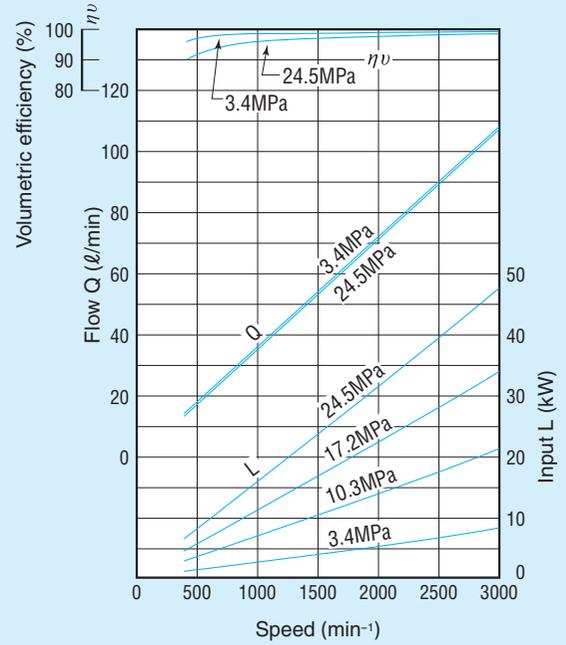
SGP2 Series Performance curves

OIL: ISO VG32 Hydraulic Fluid at 40°C

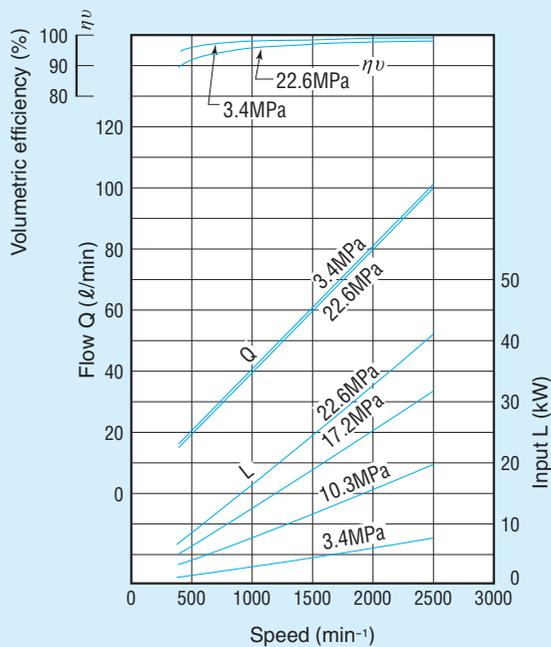
SGP2-32



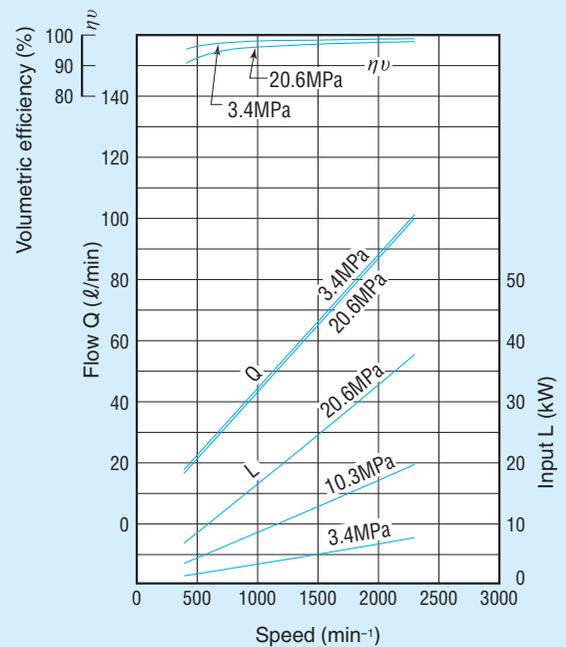
SGP2-36



SGP2-40



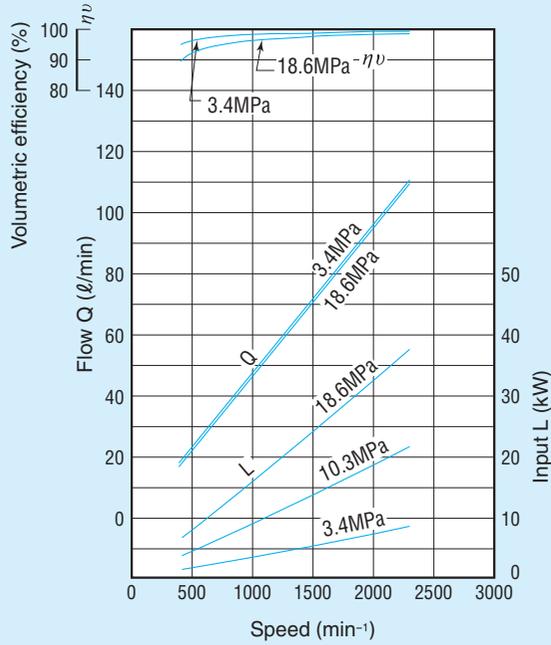
SGP2-44



SGP2 Series Performance curves

OIL: ISO VG32 Hydraulic Fluid at 40°C

SGP2-48



SGP2-52

