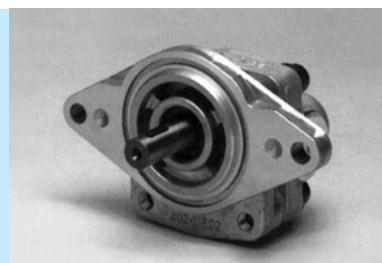


YP10 Series

Aluminum body



C621-E002A

◆ Model number

YP10 - 5 A 2 H 2 - L XXX

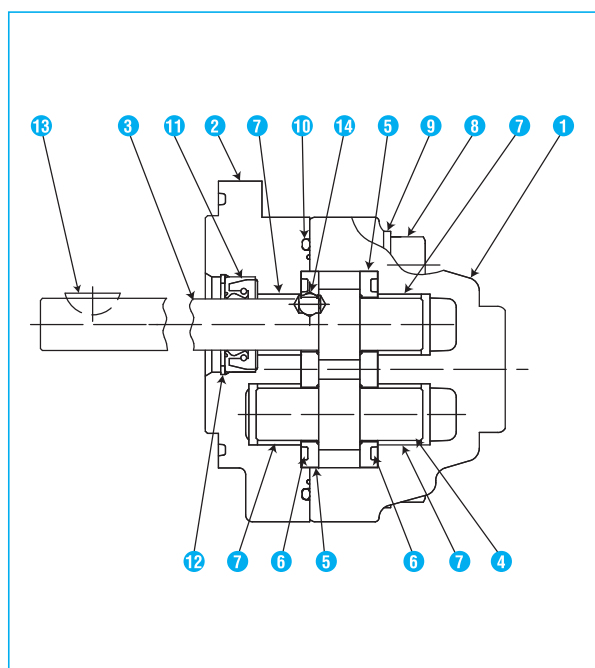
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- | | | | |
|--------------------------------|---|--|--|
| ① Series number
YP10 series | ③ Position of ports
A : side ports
D : rear ports | ⑤ Mounting
H : horizontal 2 bolts
D : diagonal 2 bolts | ⑦ Rotation viewing from shaft end
L = counterclockwise
R = clockwise |
| ② Size | ④ Port configuration
2 : G screw thread | ⑥ Shaft end
2 : woodruff key | ⑧ Code number in 3 figures |

◆ Specifications

Size	Displacement		Rated pressure			Speed min ⁻¹		Inlet pressure	Mass				
	cm ³	in ³	MPa	bar	psi	MIN.	MAX.						
							Side ports		Rear ports				
0.8	0.77	0.047	20.6	206	2987	800	4000	4000	bar -0.20~ 1.0 MPa -0.02~ 0.1 psi -2.9 ~14.5	0.6	1.32		
1.7	1.66	0.101				500				3100	1700	0.7	1.54
2.5	2.43	0.148										0.7	1.54
3	3.07	0.187										0.7	1.54
3.5	3.46	0.211										0.7	1.54
5	4.99	0.304										0.8	1.76
7	7.04	0.429	17.2	172	2494					0.8	1.76		

◆ Typical assembly



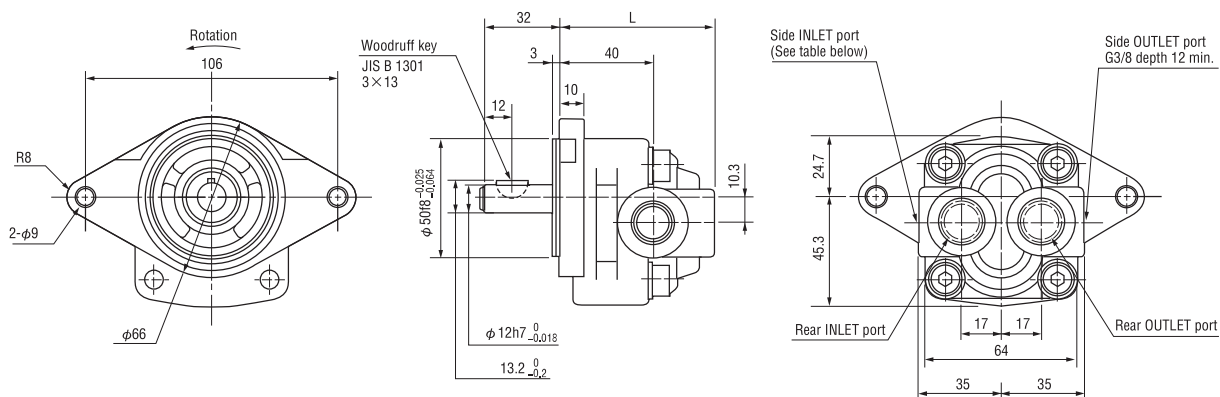
Item No.	Name	QTY	Material
①	Body	1	Aluminum alloy
②	Front cover	1	Aluminum alloy
③	Drive gear	1	Alloy steel
④	Driven gear	1	Alloy steel
⑤	Side plate	2	Special alloy steel
⑥	Gasket	2	Nitrile rubber
⑦	Bush	4	Special alloy steel
⑧	Bolt	4	Alloy steel
⑨	Washer	4	Carbon steel
⑩	O-Ring	1	Nitrile rubber
⑪	Oil seal	1	Nitrile rubber
⑫	Retainer ring	1	Carbon steel
⑬	Woodruff key	1	Carbon steel
⑭	Steel ball	2	Alloy steel

NOTES : "QTY" shows the amount per one

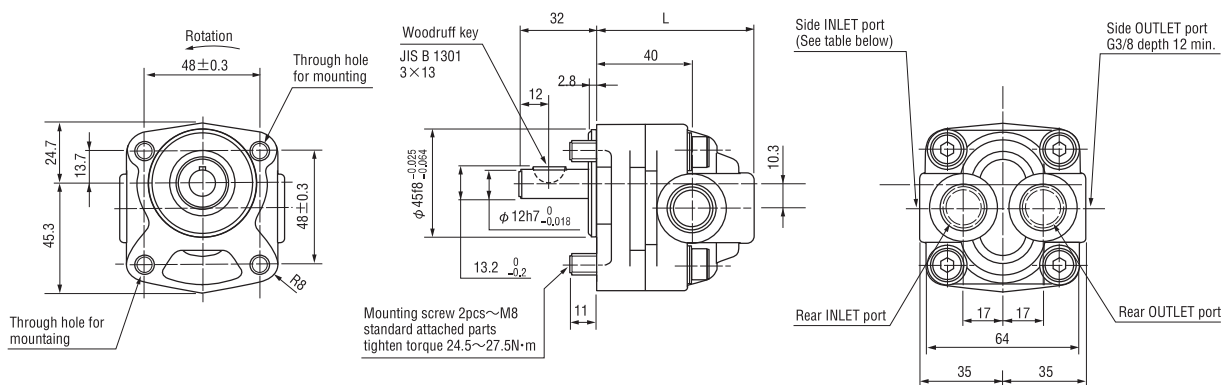
◆ Outline dimensions

dimensions in mm

YP10-□_D^A2H2-L “H” Type Mounting



YP10-☐_D^A2D2-L “D” Type Mounting



NOTE 1. Figure shown indicated counterclockwise rotation “L” viewing from shaft end. Clockwise rotation “R” is mirror image of this.

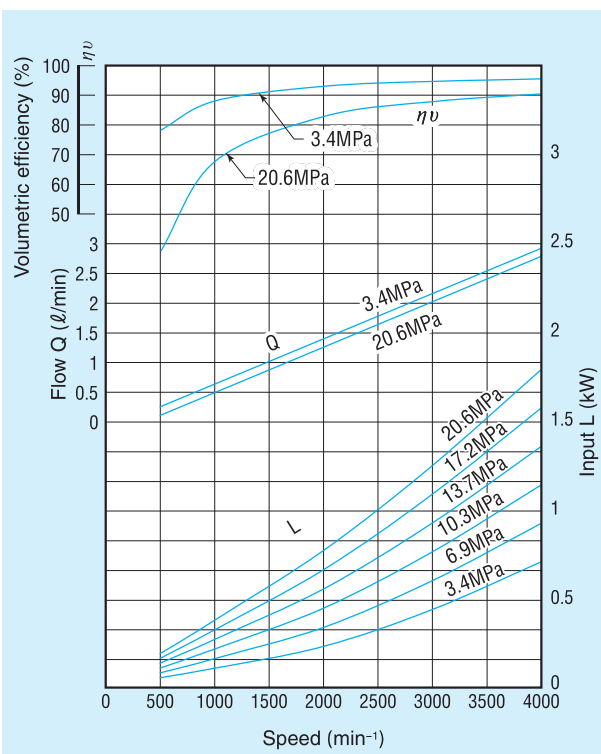
2. Unless otherwise specified, tolerance on dimension are ± 1.0 mm.

Size	L	Side INLET port	
		Thread	Depth
0.8	60	G3/8	12
1.7			
2.5			
3			
3.5			
5	80	G1/2	16
7			

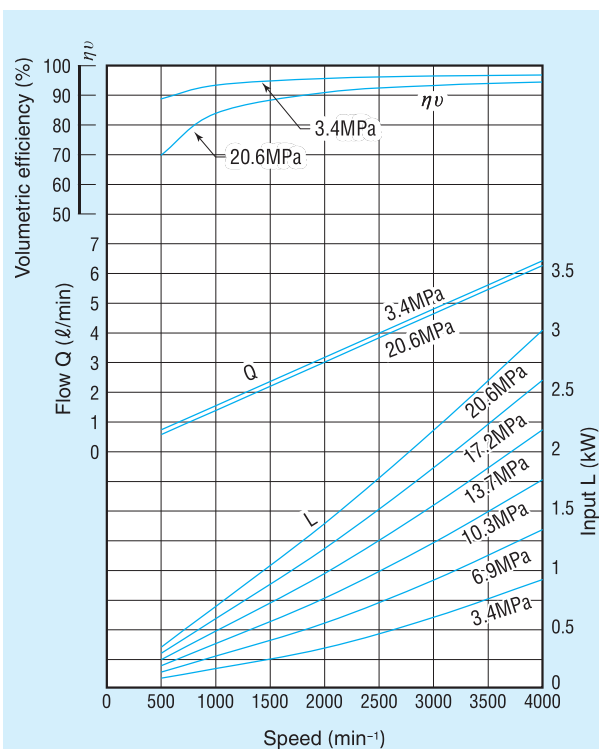
YP10 Series Performance curves

OIL: ISO VG32 Hydraulic Fluid at 40°C

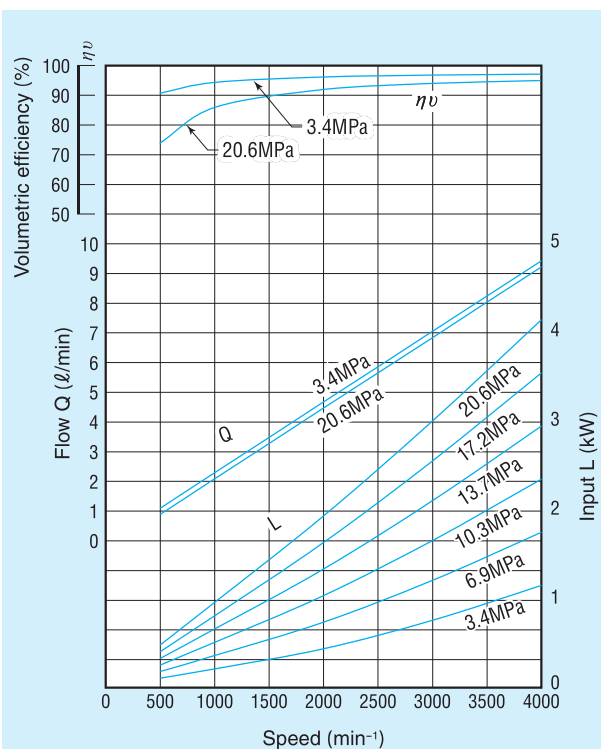
YP10-0.8



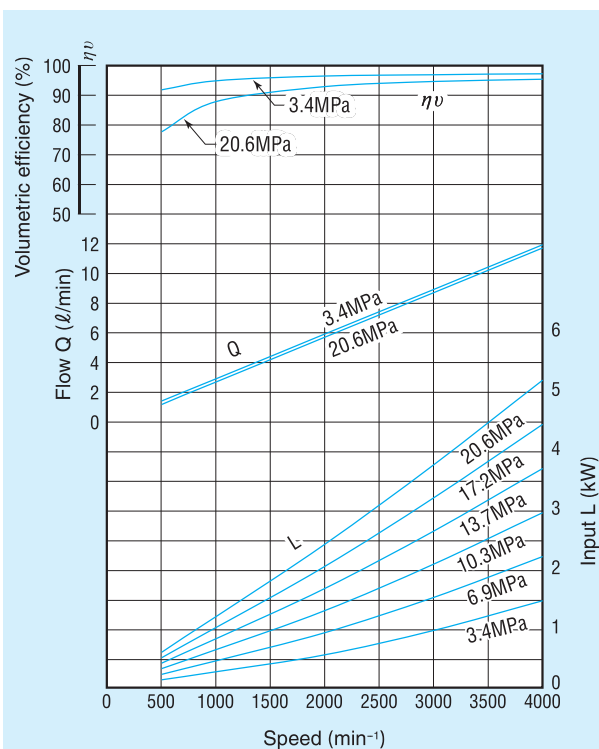
YP10-1.7



YP10-2.5



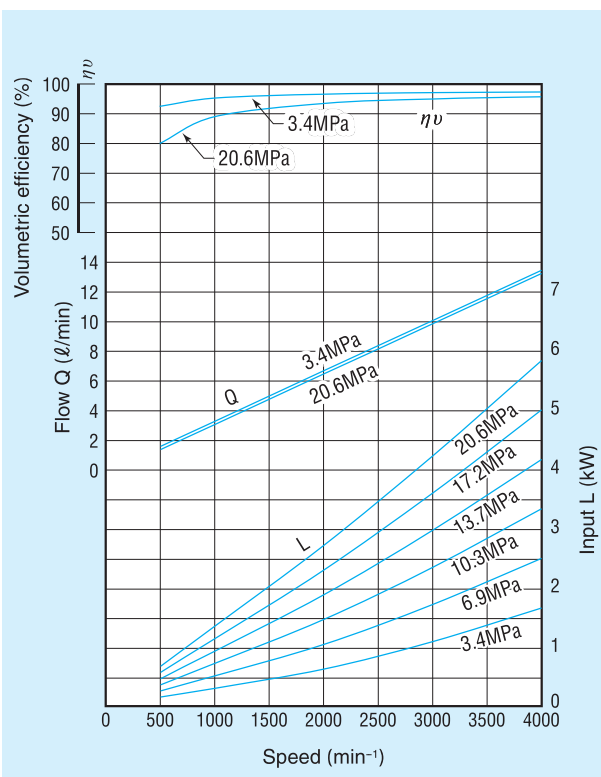
YP10-3



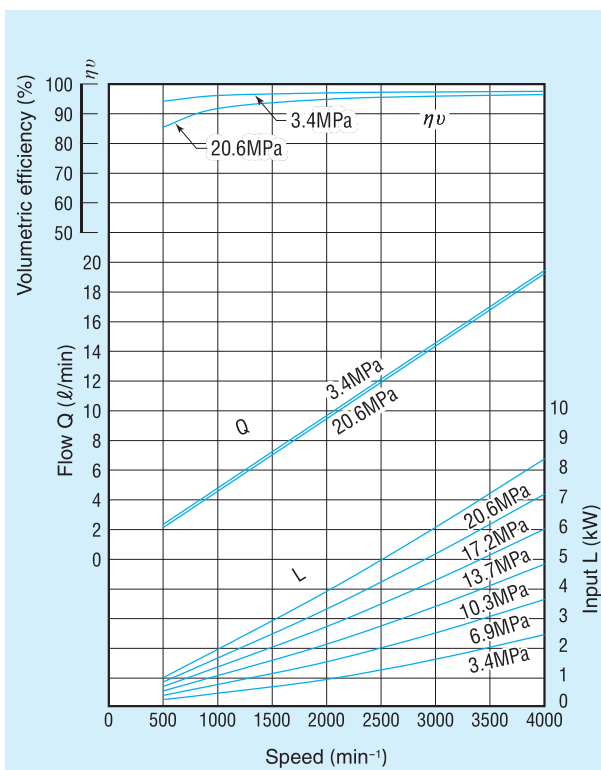
YP10 Series Performance curves

OIL: ISO VG32 Hydraulic Fluid at 40°C

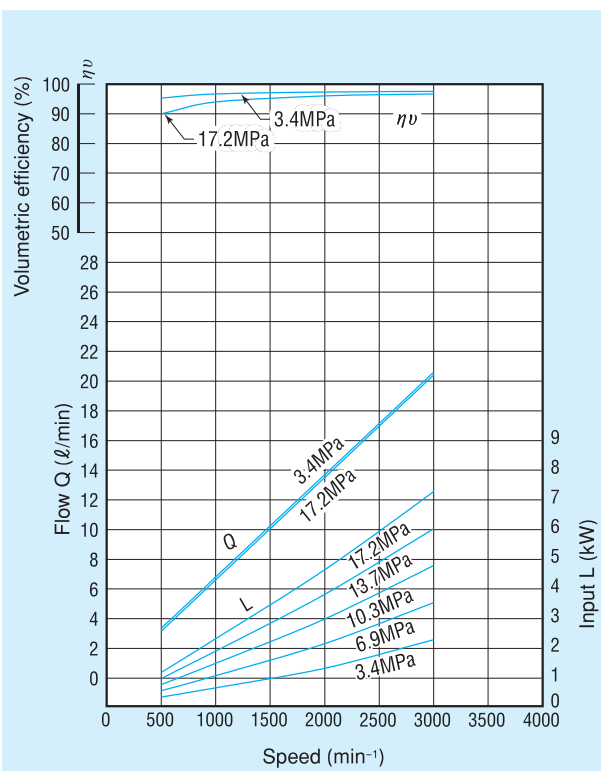
YP10-3.5



YP10-5



YP10-7



Shimadzu Corporation Fluidics Systems Division

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