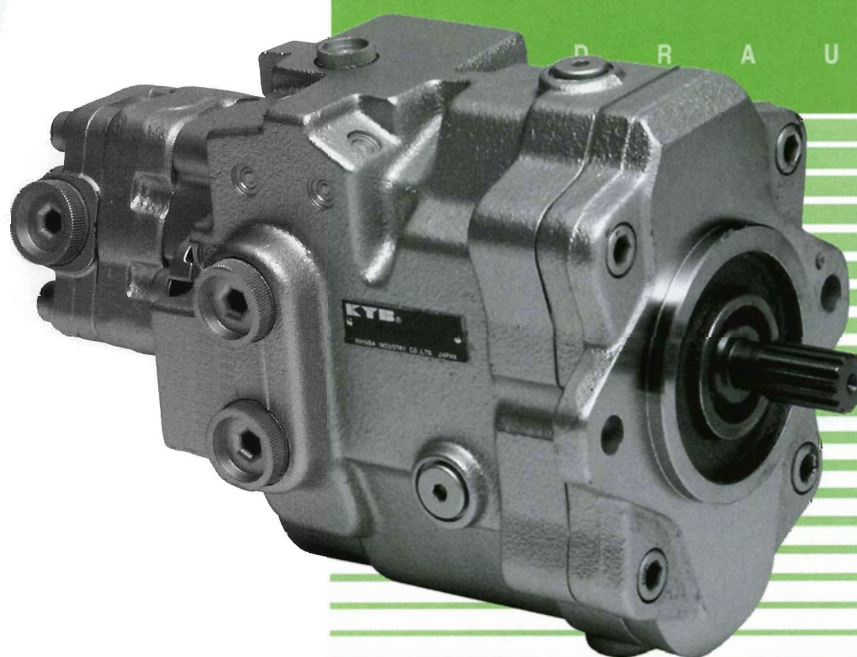


KYB

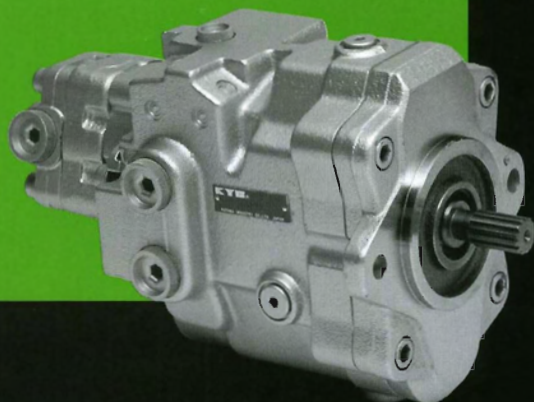
HYDRAULIC PISTON PUMP

PSVD SERIES



KAYABA INDUSTRY CO., LTD.

PISTON PUMP PSVD SERIES



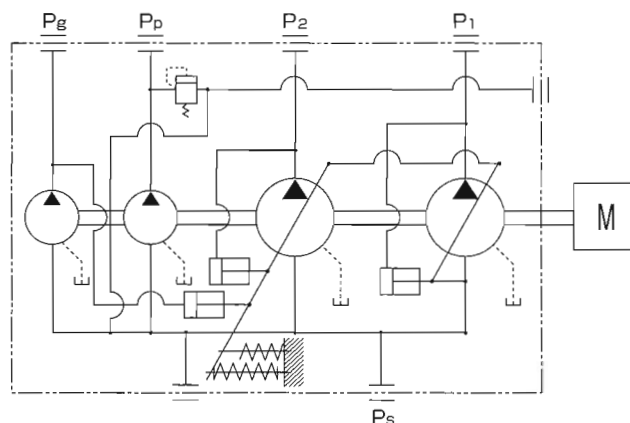
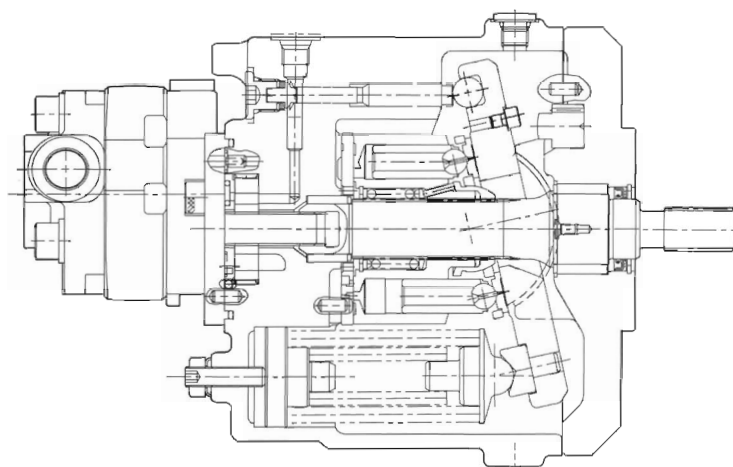
GENERAL

PSVD series pumps are developed most suitably for 2~5ton mini excavators.

This PSVD pump consist of 4 elements, ie., (2) piston pumps, (1) gear pump and (1) trochoid pump. In this series, 4 different size pumps are available.

FEATURES

1. Light weight, simple structure and reduced number of parts
2. Low noise and low pressure ripple by excellent Swash Plate and Valve Plate design
3. Short total length ensure the pump fit small engine room
4. One common suction port is divided into 4 pump suction area in the case
5. No case drain port
6. Long life
7. Others
 - 1) Pilot pump and relief valve (30-50bar) are installed as standard
 - 2) Selection of gear pump displacement is option

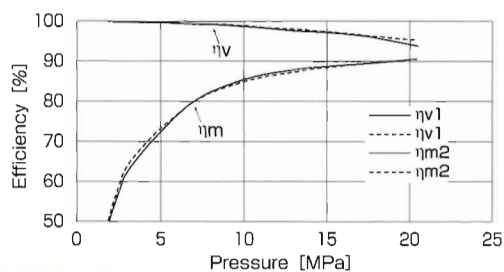


SPECIFICATIONS

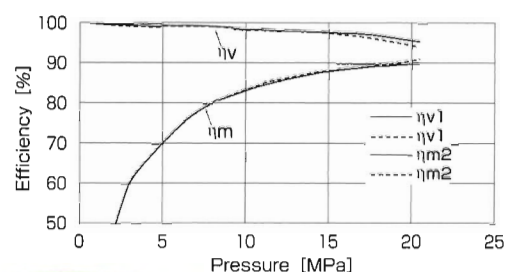
Model	Max. Input Speed rpm	Direction of Rotation From Input Shaft	Suction Pressure MPa	Fluid Temperature °C	Fluid Viscosity m ² /s	Weight	Applicable Vehicle Weight Ton	Piston Pump Spec.			Pilot Pump Spec.		Gear Pump Spec.	
								Max. Displacement cm ³ /rev	Max. Pressure MPa	Max. Input Torque N·m	Displacement cm ³ /rev	Max. Pressure MPa	Displacement cm ³ /rev	Max. Pressure MPa
PSVD2-12E	2550	Clock Wise As Seen From The Shaft	-0.03 ~ +0.03	-10 ~ +80	0.001 ~ 0.1	19	2.0 ~ 3.0	10.2 ~ 13.1	24.5	59.8	3.5/4.9	4.9	7.0/9.4/11.9/14.3/16.8/19.2	20.6
PSVD2-16E	2500					23	2.5 ~ 3.5	14.2 ~ 16.8		85.3				
PSVD2-21E	2400					26	3.5 ~ 4.5	17.9 ~ 20.8		122.6				
PSVD2-27E	2400					36	4.5 ~ 6.0	22.4 ~ 27.9		140.2				

PERFORMANCE CURVE (SHAFT SPEED : 2400rpm)

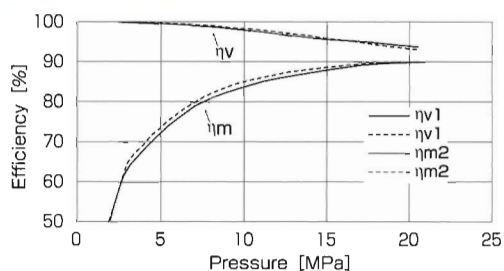
PSVD2-12E



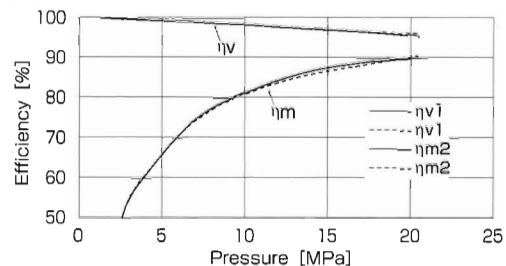
PSVD2-21E



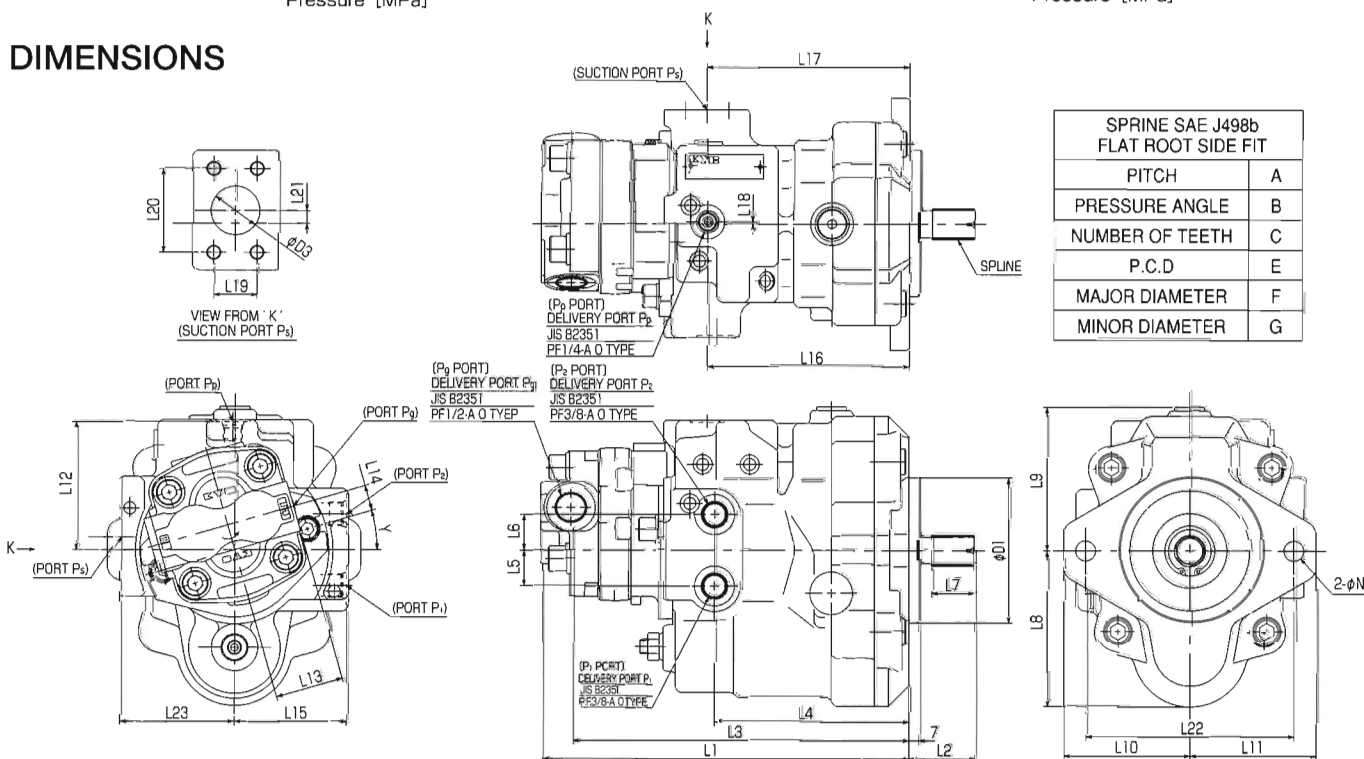
PSVD2-16E



PSVD2-27E



DIMENSIONS



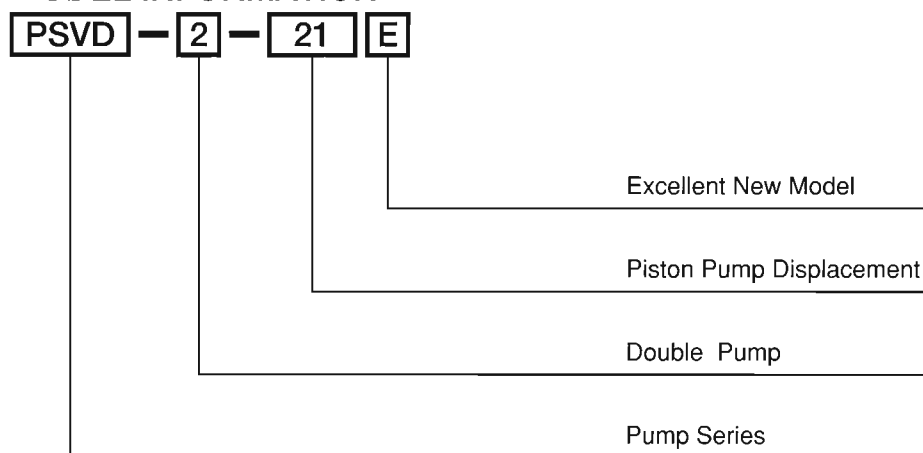
Model	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16	L17	L18	L19	L20	L21	L23
PSVD2-12E	259	46	235.5	136.5	25	25	30	111	100.5	90.5	90.5	89.5	48	18	78.5	142	142.5	1.5	30.2	58.7	9	80
PSVD2-16E	279	46	255.5	144.5	28	28	30	120.5	104.5	90.5	90.5	91.5	48	18	78.5	154	154.5	1.5	35.7	69.9	9	80
PSVD2-21E	299.5	45	276	161	28	28	25	120.5	107.5	90.5	90.5	94.5	48	18	76	163.5	173	1.5	35.7	69.9	12	82
PSVD2-27E	324	47	301	174	35	35	30	136	115.5	117	117	104.5	48	18	88.5	183	187.5	1.5	42.9	77.8	14	91

Model	A	B	C	ΦE	ΦF	ΦG	M	ΦN	Y	P ₁ Port	P ₂ Port	P ₃ Port	P ₄ Port	ΦD1	L22	ΦD3
PSVD2-12E	16/32	30°	13	20.638	21.679 21.806	18.352 18.631	M10	14	16°	PF3/8	PF3/8	PF1/2	PF1/4	101.6 ^{+0.05} _{-0.05}	146	34
PSVD2-16E	16/32	30°	13	20.638	21.679 21.806	18.352 18.631	M12	14	16°	PF1/2	PF1/2	PF1/2	PF1/4	101.6 ^{+0.05} _{-0.05}	146	38
PSVD2-21E	16/32	30°	17	26.988	28.029 28.156	24.702 24.981	M12	14	16°	PF1/2	PF1/2	PF1/2	PF1/4	101.6 ^{+0.05} _{-0.05}	146	38
PSVD2-27E	16/32	30°	17	26.988	28.029 28.156	24.702 24.981	M12	17.5	16°	PF1/2	PF1/2	PF1/2	PF1/4	101.6 ^{+0.05} _{-0.05}	200	45



PISTON PUMP PSVD SERIES

MODEL INFORMATION



KAYABA INDUSTRY CO., LTD.

www.kyb.co.jp

HEAD OFFICE: WORLD TRADE CENTER BLDG.,
4-1, HAMAMATSU-CHO 2-CHOME,
MINATO-KU, TOKYO 105-6111 JAPAN
TELEPHONE 81-3-3435-3581
TELEFAX 81-3-3436-2908

U.S.A.OFFICE: **KYB AMERICA LLC**
140 NORTH MITCHELL CT.,
ADDISON, IL60101, U.S.A.
TELEPHONE 1-630-620-5555
TELEFAX 1-630-620-8133
www.kyb.com

EUROPE OFFICE: **KAYABA INDUSTRY CO., LTD.**
EUROPE BRANCH
KIMPLER STRASSE 336,
D-47807 KREFELD, F. R. GERMANY
TELEPHONE 49-2151-93143-50
TELEFAX 49-2151-93143-30