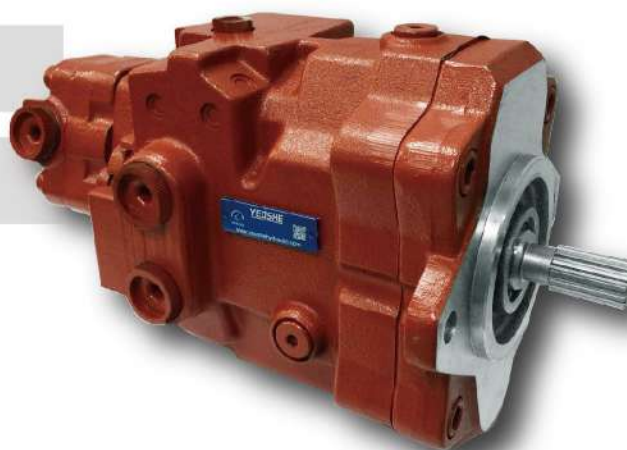




E-PSVD Engineering Machinery Application



Efficient Performance
Innovative Technology
Reliable Quality and
Service

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YEOSHE HYDRAULICS CO.,LTD.



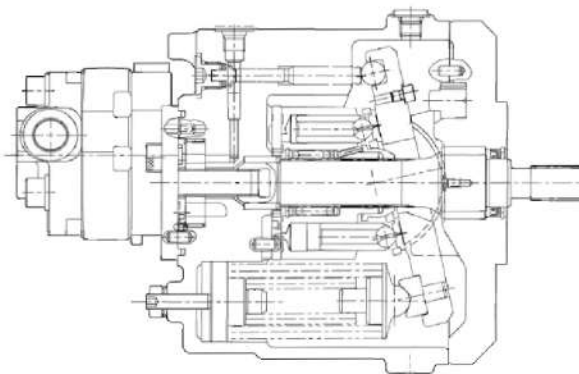
E-PSVD piston pump

A

1

E-PSVD series piston pump

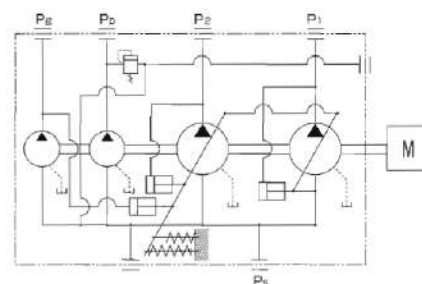
E-PSVD piston pump



General:

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

This E-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 (30-50 bar) 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 m²/s	Weight	Applicable Vehicle Weight Ton	Piston Pump Spec.			Pilot Pump Spec.		Gear Pump Spec.	
								Max. Displacement cm³ /rev	Max. Pressure MPa	Max. Input Torque N.m	Displacement cm³ /rev	Max. Pressure MPa	Displacement cm³ /rev	Max. Pressure MPa
E-PSVD2-13E	2550	Clock Wise As Seen From The Shaft	-0.03~+0.03	-10~+80	0.001~0.1	19	2.0~3.0	13.1X2	24.5	59.8	3.5/4.9	4.9	8.0/12/17	20.6
E-PSVD2-17E	2500					23	2.5~3.5	16.8X2		85.3				
E-PSVD2-21E	2400					26	3.5~4.5	20.8X2		122.6				
E-PSVD2-27E	2400					36	4.5~6.0	26.9X2		140.2				

Diagrams

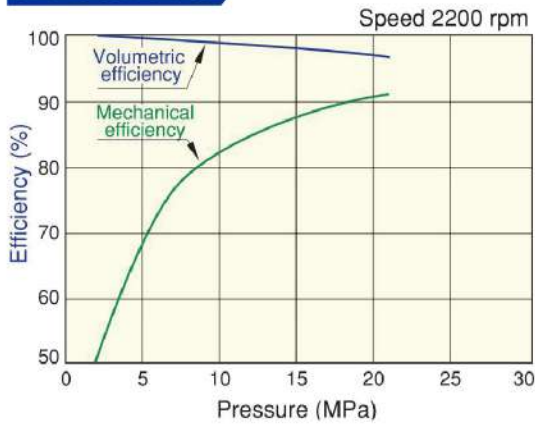
Performance Curve (Shaft Speed :2400rpm)

A

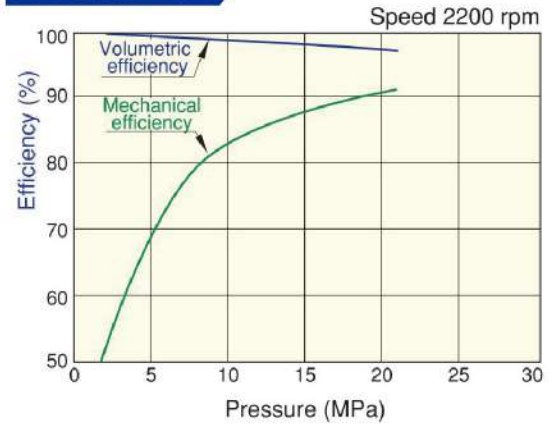
2

E-PSVD piston pump

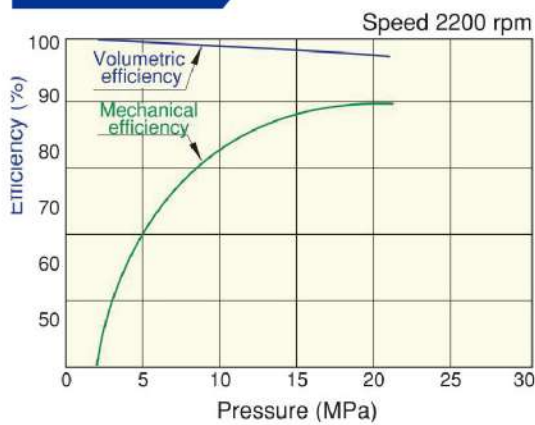
E-PSVD2-13E



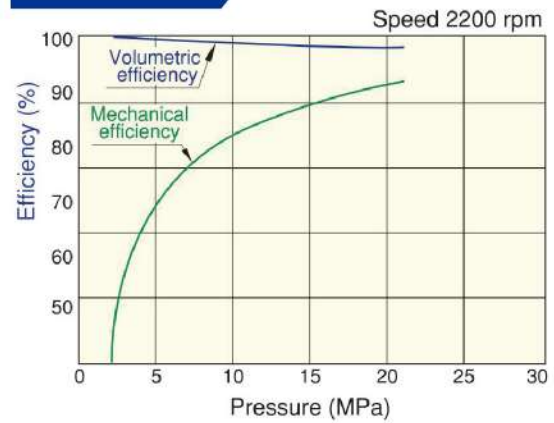
E-PSVD2-17E



E-PSVD2-21E



E-PSVD2-27E



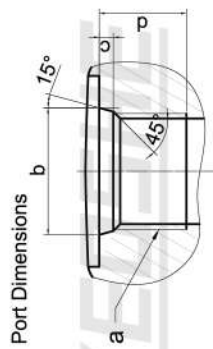
Dimensions



A

3

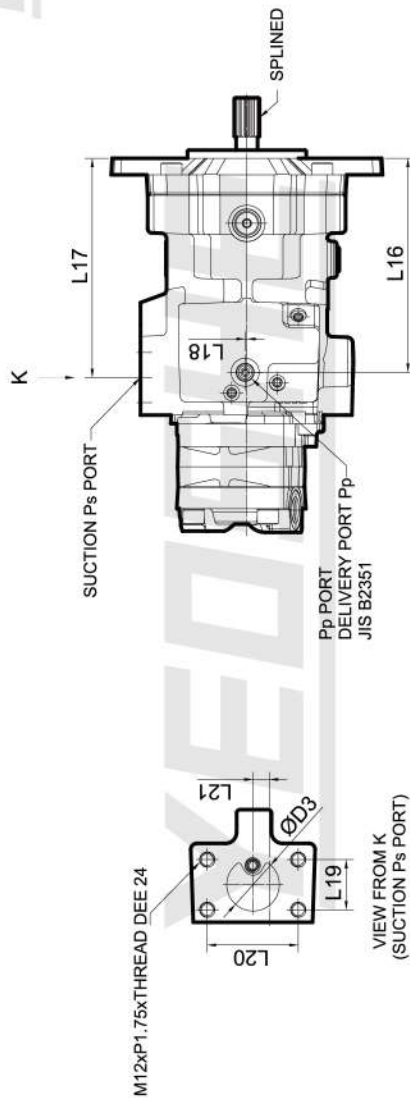
E-PSVD piston pump



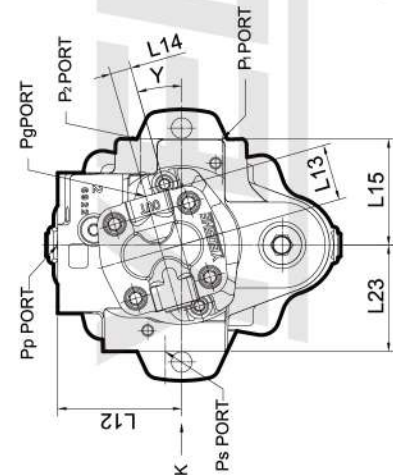
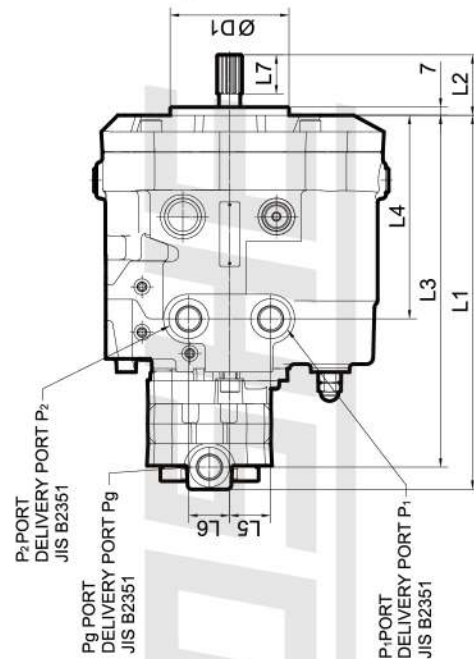
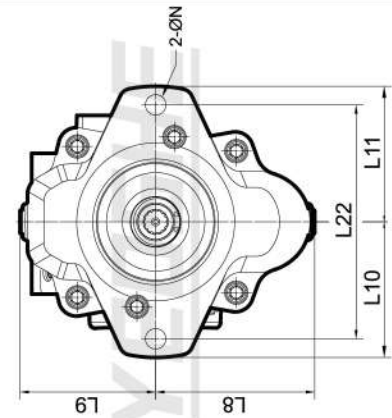
a	b	c	d
PF(G)1/4	Ø15.6	2.5	12
PF(G)3/8	Ø18.6	2.5	12
PF(G)1/2	Ø22.6	2.5	16

SPLINED SAE J498b
FLAT ROOT SIDE FIT

PITCH	A
PRESSURE ANGLE	B
NUMBER OF TEETH	C
P.C.D.	E
MAJOR DIAMETER	F
MINOR DIAMETER	G



M12xP1.75xTHREAD DEE 24

VIEW FROM K
(SUCTION Ps PORT)

Model	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16	L17	L18	L19	L20	L21	L23
E-PSVD2-13E	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
E-PSVD2-17E	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
E-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
E-PSVD2-27E	320	52	301	174	35	35	34	136	116	117	117	104.5	48	18	88.5	183	187.5	1.5	42.9	77.8	14	91

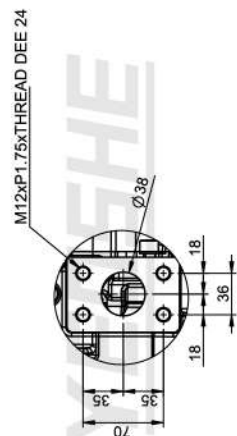
Model	A	B	C	øE	øF	øG	M	øN	Y	P ₁ Port	P ₂ Port	P ₃ Port	P ₄ Port	øD1	L22	øD3
E-PSVD2-13E	16/32	30°	13	20.638	21.679 21.806	18.352 18.631	M10	14	16°	PF3/8	PF3/8	PF1/2	PF1/4	101.6 ^{+0.05} _{-0.05}	146	34
E-PSVD2-17E	16/32	30°	13	20.638	21.679 21.806	18.352 18.631	M12	14	16°	PF1/2	PF1/2	PF1/2	PF1/4	101.6 ^{+0.05} _{-0.05}	146	38
E-PSVD2-21E	16/32	30°	13	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
E-PSVD2-27E	16/32	30°	13	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

Dimensions

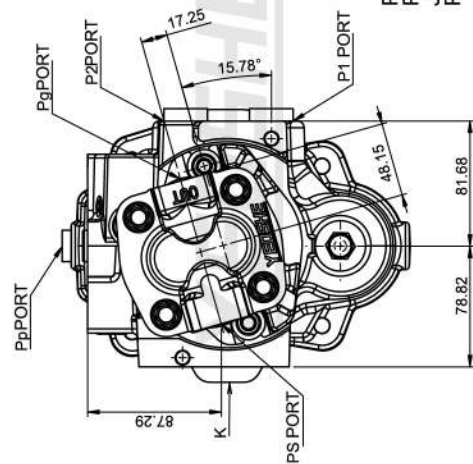
E-PSVD2-17E Dimensions

Max. Input Speed rpm:2550
Rotation:Clockwise
Weight:23
Applicable Vehicle Weight Ton:2.5-3.5
Pilot Pump Spec.
Displacement cm³/rev:4.9
Max. Pressure MPa:4.9

Piston Pump Spec:	Gear Pump Spec.
Max. Displacement cm ³ /rev:24.5	Displacement cm ³ /rev:7.17
Max. Pressure MPa:20.6	Max. Pressure MPa:20.6
Max. Input Torque N·m:85.3	



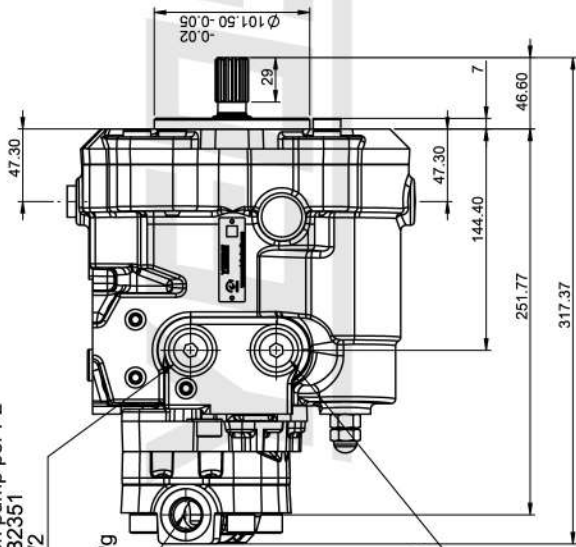
VIEW FROM K
(SUCTION P_s PORT)



P1 PORT
Piston pump port P1
JIS B2351
PF 1/2

Pg PORT
Gear pump
PF1/2

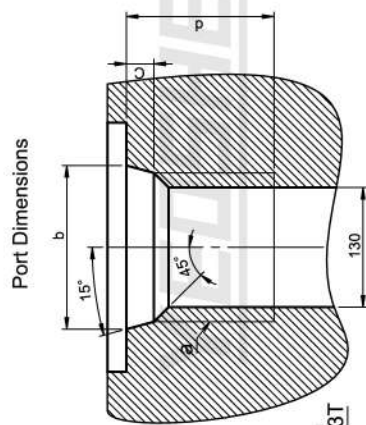
P2 PORT
Piston pump por P2
JIS B2351
PF1/2



Pp PORT
DELIVERY PORT
JIS B2351
PF 1/4

13

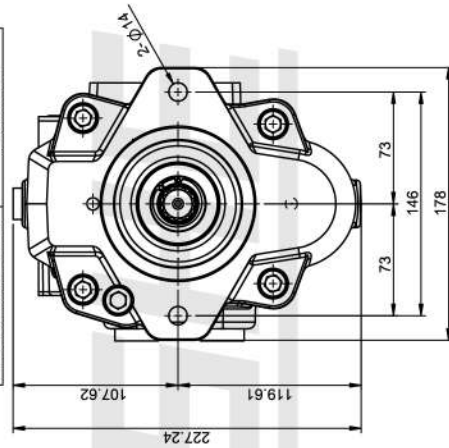
154.10



Port Dimensions

a	b	c	d
PF(G)1/4	Φ15.6	2.5	12
PF(G)3/8	Φ18.6	2.5	12
PF(G)1/2	Φ22.6	2.5	16

SPLINED ANSI B92.1 PA30° DP16/32x13T class 5	
PITCH	DP16/32
PRESSURE ANGLE	30°
NUMBER OF TEETH	13
MAJOR DIAMETER	Φ21.78
MINOR DIAMETER	Φ18.3261





E-PSVD2-21E Dimensions

Max. Input Speed rpmr:2400

Rotation: Clockwise

Weight:26

Applicable Vehicle Weight Ton:3.5~4.5

Pilot Pump Spec.

Displacement cm^3/rev : 4.9

Max. Pressure MPa:4.9

Piston Pump Spec:

Max. Displacement cm³/rev: 20.8x2

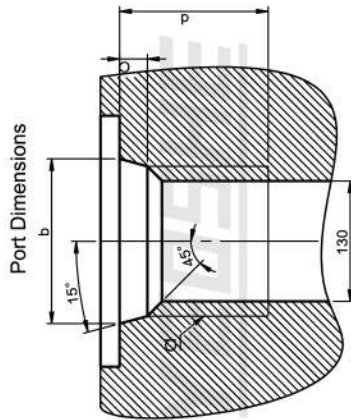
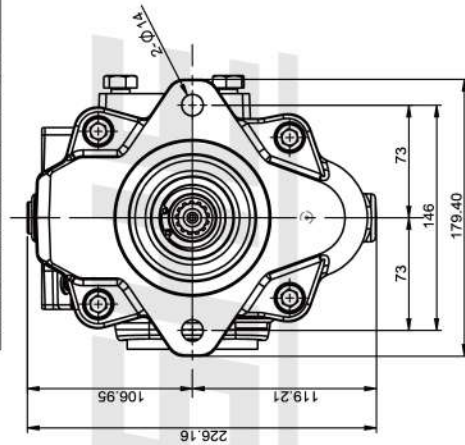
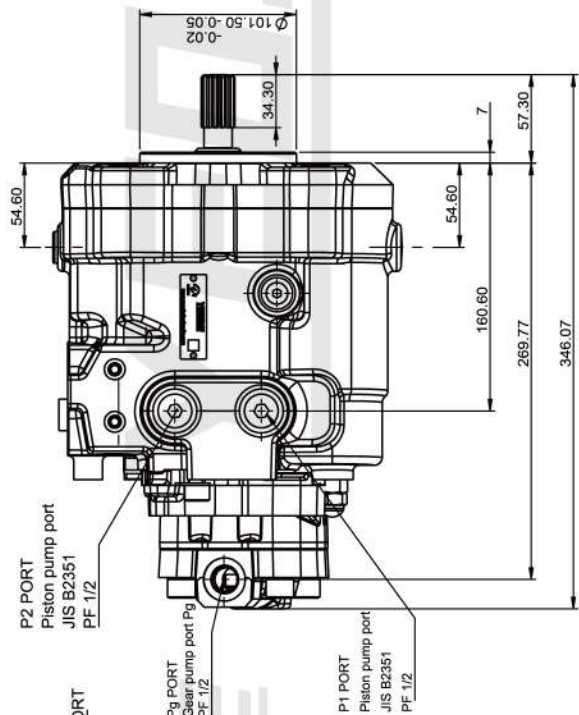
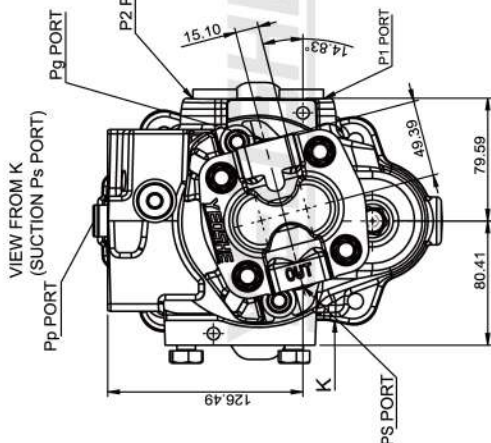
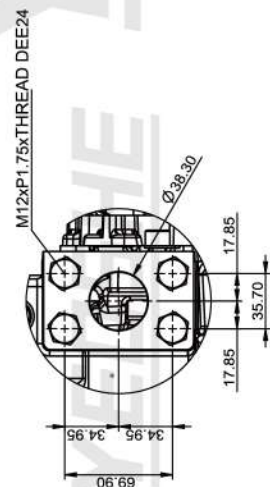
Max. Pressure MPa:24.5

Max. Input Torque N·m:122.6

Gear Pump Spec.

Displacement cm³/rev:7,17

Max. Pressure MPa:20.6



a	b	c	d
PF(G)1/4	Φ15.6	2.5	12
PF(G)3/8	Φ18.6	2.5	12
PF(G)1/2	Φ22.6	2.5	16

SPLINED ANSI B92.1 PA30° DP16/32x13T class 5	
PITCH	DP16/32
PRESSURE ANGLE	30°
NUMBER OF TEETH	13
MAJOR DIAMETER	Φ21.78
MINOR DIAMETER	Φ18.3261

Dimensions

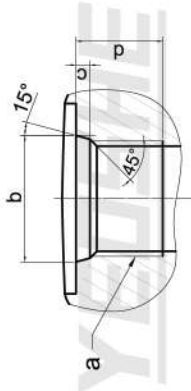
E-PSVD2-27E Dimensions

Pilot Pump Spec.
Max. Input Speed rpm: 2400
Rotation: Clockwise
Weight: 36
Applicable Vehicle Weight Ton: 4.5~6.0

Gear Pump Spec.
Max. Displacement cm³/rev: 21
Max. Pressure MPa: 20.6

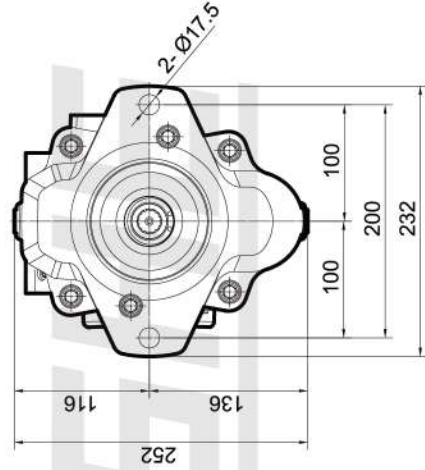
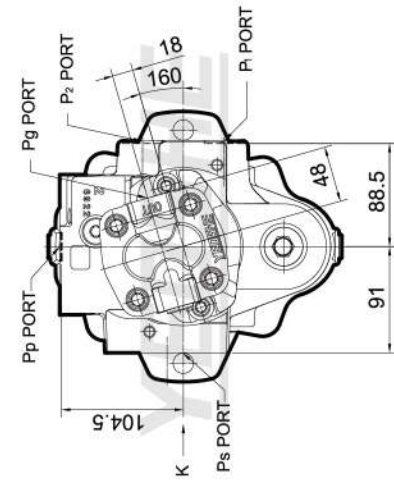
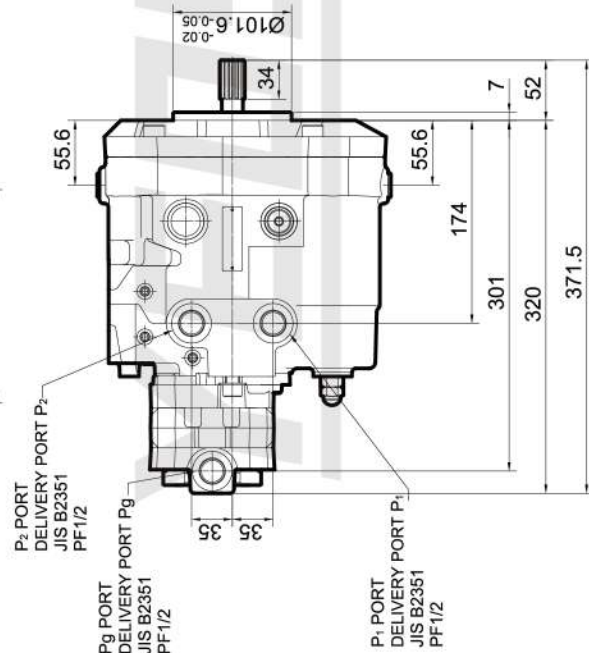
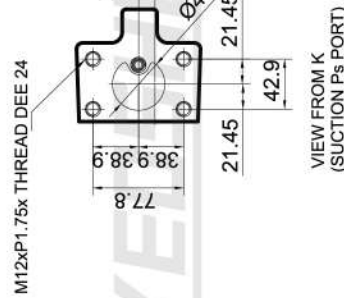
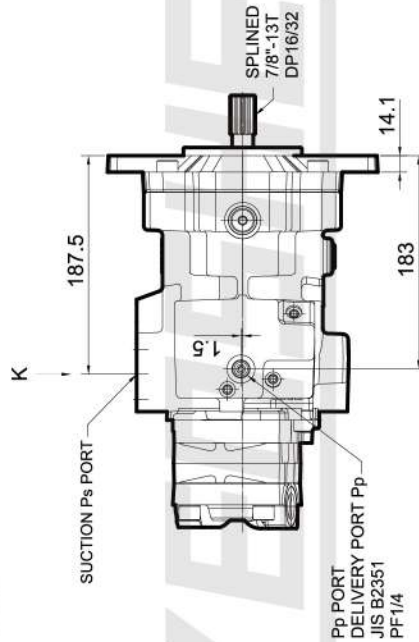
Piston Pump Spec.
Max. Displacement cm³/rev: 27.9
Max. Pressure MPa: 24.5
Max. Input Torque N·m: 140.2

Port Dimensions



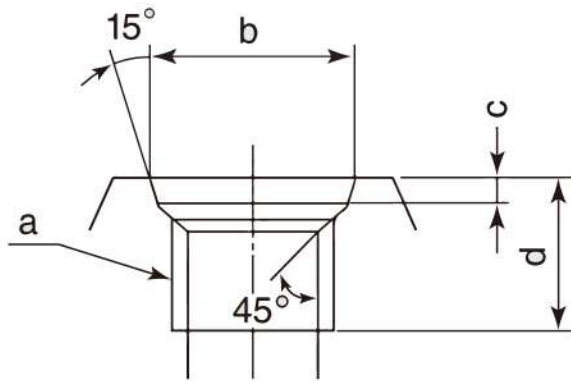
a	b	c	d
PF(G)1/4	Ø15.6	2.5	12
PF(G)3/8	Ø18.6	2.5	12
PF(G)1/2	Ø22.6	2.5	16

SPLINED ANSI B92.1 PA30° DP16/32 x 13T class 5	
PITCH	DP16/32
PRESSURE ANGLE	30°
NUMBER OF TEETH	Ø13T
MAJOR DIAMETER	Ø21.78
MINOR DIAMETER	Ø18.3261





Dimensions

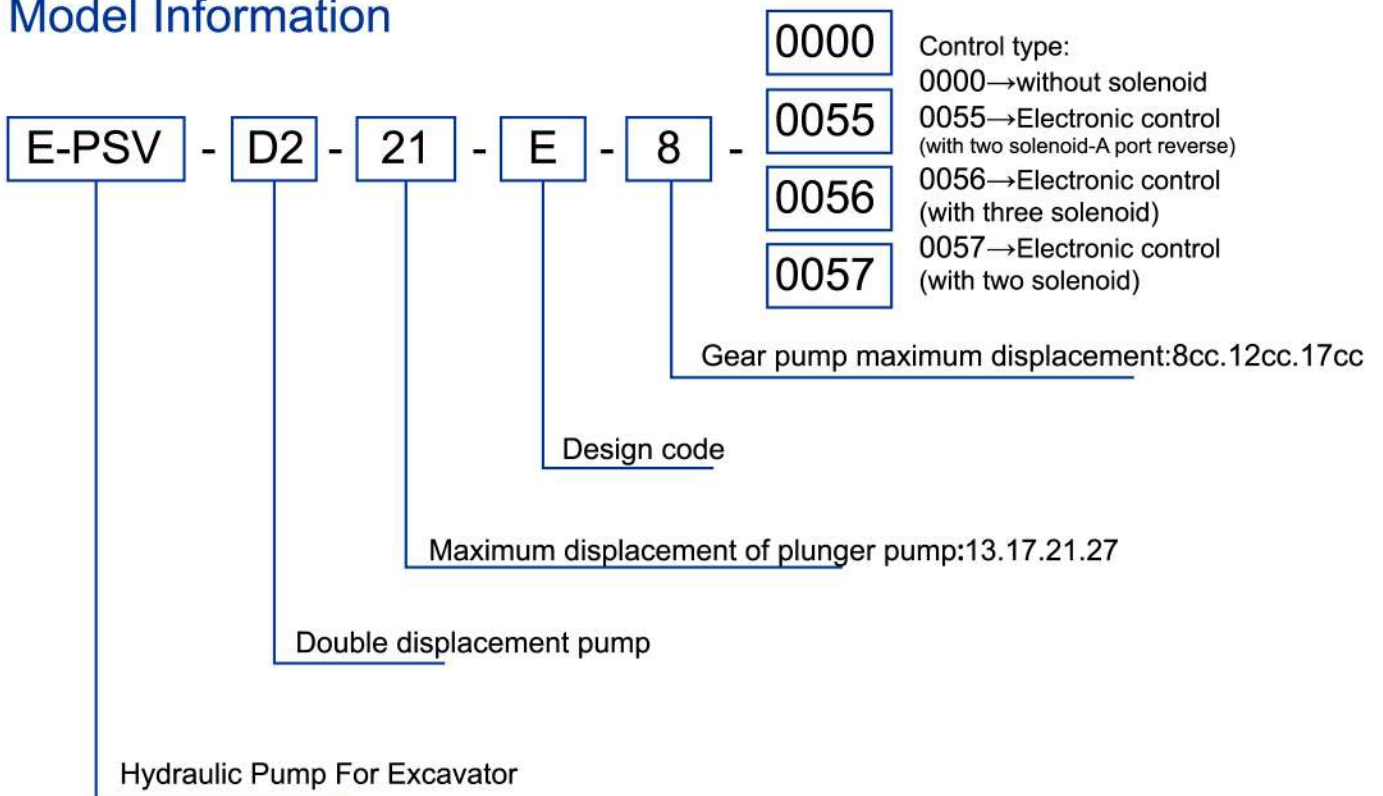


External port (JIS B2531) /
Drain port (Rule: JIS B2351)

a	b	c	d
PF(G)1/4	Ø15.6	2.5	12
PF(G)3/8	Ø18.6	2.5	12
PF(G)1/2	Ø22.6	2.5	16

(mm)

Model Information





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*Innovative Technology
Efficient Performance
Reliable Quality and Service*

油聖液壓科技有限公司
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