

**KT7EEC/KT7EECS-062-062-017- 2 R 00 - A 1 - 00 - \***

①                              ②                              ③                              ④                              ⑤                              ⑥                              ⑦                              ⑧                              ⑨                              ⑩                              ⑪

① **KT7EEC series-250-B4-HW**  
ISO 4 bolts 3019-2 mounting flange  
**KT7EECS series-SAE E 4bolts**  
Mounting flange J744

② ③ **Displacement for "P1" & "P2"**  
Volumetric displacement (cm<sup>3</sup> / rev)  
042 = 132.3      062 = 196.6  
045 = 142.5      066 = 213.0  
050 = 158.5      072 = 227.1  
052 = 163.8      085 = 268.7  
057 = 183.2

④ **Displacement for "P3"**  
Volumetric displacement (cm<sup>3</sup> / rev)  
005 = 17.2      017 = 58.3  
006 = 21.3      020 = 63.8  
008 = 26.4      022 = 70.3  
010 = 34.1      025 = 79.3  
012 = 37.1      028 = 88.8  
014 = 46.0      031 = 100.0

⑤ **Type of shaft**  
2 = Keyed (no SAE) for KT7EEC & KT7EECS  
4 = Splined (13 Teeth) only for KT7EECS

⑥ **Direction of rotation**  
(View on shaft end)  
R = clockwise  
L = counter-clockwise

⑦ **Porting combination**  
00 = standard  
(Please refer to PORTING DIAGRAMS-KT6 page)

⑧ **Design letter**

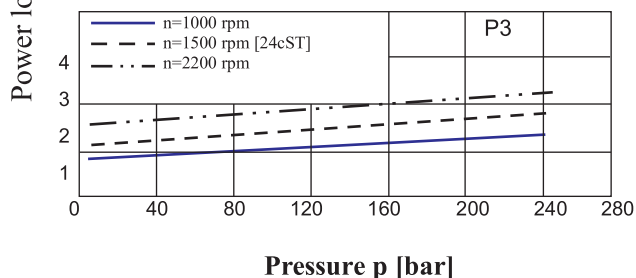
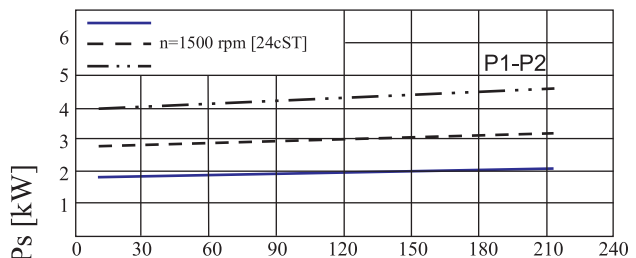
⑨ **Seal class**  
1 = S1 (For mineral oil)  
4 = S4 (For fire resistant fluids)  
5 = S5 (For mineral oil and fire-resistant fluids)

⑩ **Mounting W/connection variables**  
4 bolts SAE flange J518

	P1 = 1½"	P2 = 1½"	P3 = ¾" or 1"	S = 4"
P3	UNC		Metric	
	00	01	M0	M1
KT7EEC	X		1"	¾"
KT7EECS	1"	¾"		

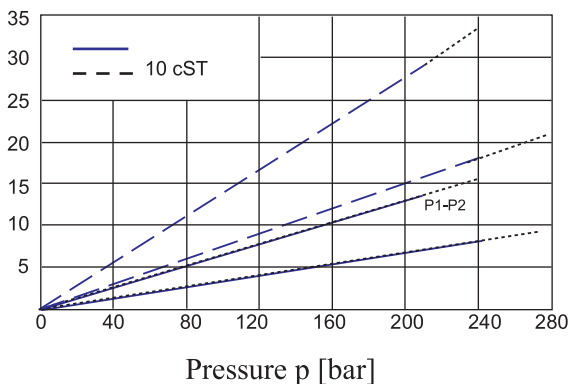
⑪ **Modifications**

**HYDROMECHANICAL POWER LOSS (TYPICAL)**



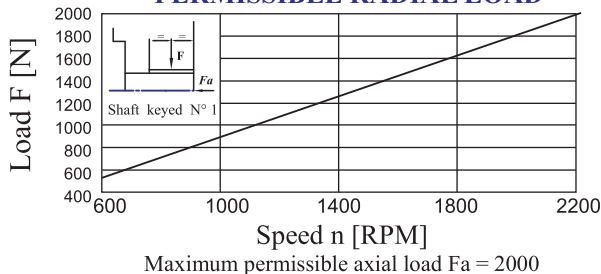
Total hydromechanical power loss is the sum of each section loss under its respective operating conditions.

**INTERNAL LEAKAGE (TYPICAL)**

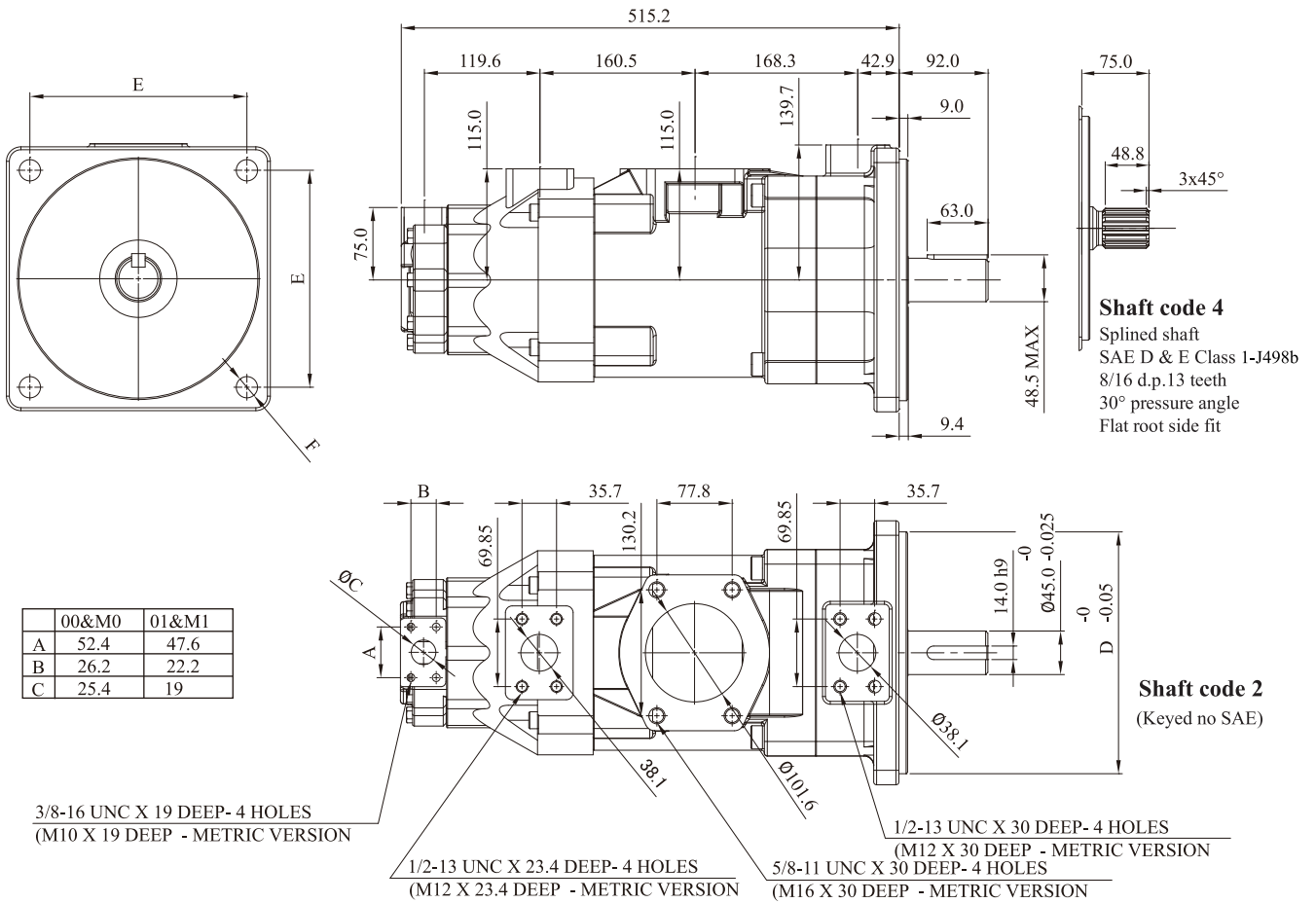


Do not operate pump more than 5 seconds at any speed or viscosity if internal leakage is higher than 50% of theoretical flow.  
Total leakage is the sum of each section loss under its respective operation conditions.

**PERMISSIBLE RADIAL LOAD**



# KCL KT7EEC/KT7EECS Dimensional Drawing



Shaft torque limits (mℓ/rev X bar)	
Shaft	$V_i \times P \text{ max.}(P_1+P_2+P_3)$
2	118340
4	126800

	D	E	F
KT7EEC	Ø250	222.7	4-Ø22
KT7EECS	Ø165.1	224.5	4-Ø20.6

## OPERATING CHARACTERISTICS—TYPICAL [24 cSt]

Pressure Port	Series	Volumetric Displacement Vp	Flow q & n = 1500 rpm( ℓ/min)			Input power P & n = 1500rpm[kW]			P Max Kg/cm <sup>2</sup>	Max r.p.m.	
			P = 0 bar	P = 140 bar	P = 240 bar	P = 7 bar	P = 140 bar	P = 240 bar			
P1 & P2	042	132.3	198.5	188.5	181.3	5.2	49.4	82.6	240	2200	
	045	142.4	213.6	203.6	196.5	5.4	52.9	88.7			
	050	158.5	237.7	227.7	220.6	5.7	58.5	98.3			
	052	164.8	247.2	237.2	230.1	5.8	60.8	102.1			
	057	180.7	271.1	261.1	254.0	6.1	66.4	106.9			
	062	196.7	295.0	285.0	277.9	6.4	71.9	121.3			
	066	213.3	319.9	309.9	302.8	6.7	77.7	131.2			
	072	227.1	340.6	330.6	323.5	6.9	82.6	139.5			
085 1)	269.8	404.7	397.7 2)		7.3	65.3		90	2000		
P3	005	17.2	25.8	20.8	17.3	1.4	7.5	12.2	275	2500	
	006	21.3	31.9	26.9	23.4	1.5	8.9	14.7			
	008	26.4	39.6	34.6	31.1	1.6	10.7	17.7			
	010	34.1	51.1	46.1	42.6	1.7	13.4	22.3			
	012	37.1	55.6	50.6	47.1	1.7	14.4	24.1			
	014	46.0	69.0	64.0	60.5	1.9	17.6	29.5			
	017	58.3	87.4	82.4	78.9	2.1	21.9	36.9			
	020	63.8	95.7	90.7	87.2	2.2	23.8	40.2			
	022	70.3	105.4	100.4	96.9	2.3	26.1	44.1			
	025	79.3	118.9	113.9	110.4	2.5	29.2	49.5			
	028	88.8	133.2	128.2	125.8 3)	2.8	32.7	48.5 3)			210
	031	100.0	150.0	145.0	142.6 3)	2.8	36.5	54.2 3)			

1) 085=2000 rpm max.

2) 085 = 90 bar max. int.

3) 028-031 = 210 bar max. int.

Min Speed : 600 rpm