

KT6EC - * - 066 - 014 - 1 R 00 - B 1

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

P1 P2

① **Series**

② **Y-Metric port connection, Omit for UNC**

③ **Cam ring for " P1 "**

Volumetric displacement (cm³/rev)

042 = 132.3	062 = 196.7
045 = 142.4	066 = 213.3
050 = 158.5	072 = 227.1
052 = 164.8	085 = 269.8
057 = 180.7	

Cam ring for " P2 "

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

④ **Type of shaft**

- 1 = Keyed (SAE CC)
- 2 = Keyed (no SAE)
- 3 = Splined (SAE C)
- 4 = Splined (SAE CC)

⑤ **Direction of rotation**
(view on shaft end)

- R = clockwise
- L = counter - clockwise

⑥ **Porting combination**

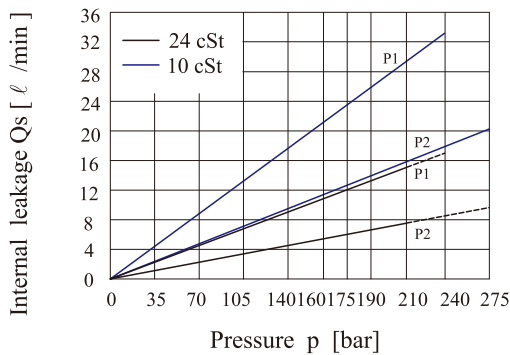
- 00 = standard

⑦ **Design letter**

⑧ **Seal class**

- 1 = S1 (for mineral oil)
- 4 = S4 (for fire resistant fluids)
- 5 = S5 (for mineral oil and fire resistant fluids)

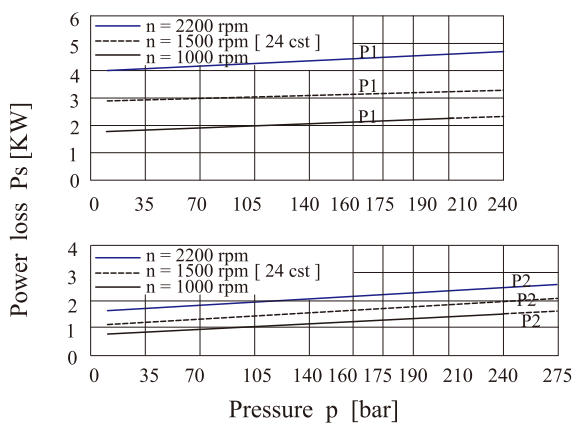
INTERNAL LEAKAGE (TYPICAL)



Do not operate pump more than 5 seconds at any speed or viscosity if internal leakage is more than 50 % of theoretical flow.

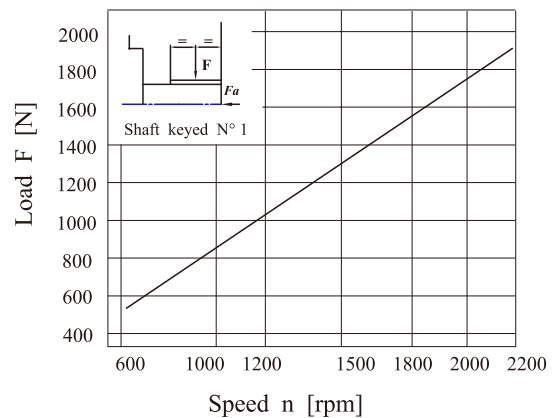
Total leakage is the sum of each section loss at its operating conditions.

HYDROMECHANICAL POWER LOSS (TYPICAL)

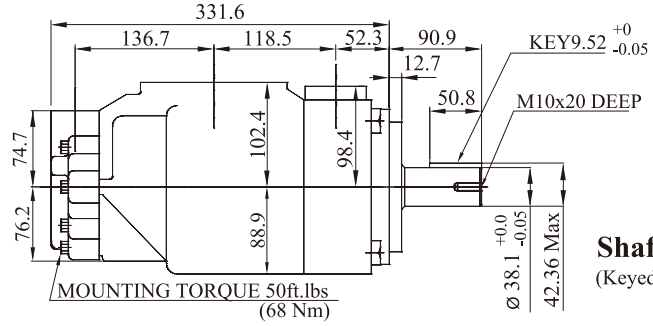
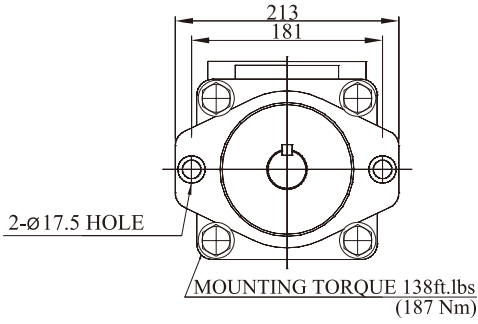


Total hydromechanical power loss is the sum of each section at its operating conditions.

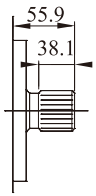
PERMISSIBLE RADIAL LOAD



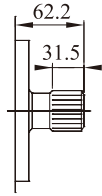
Maximum permissible axial load Fa = 2000 N



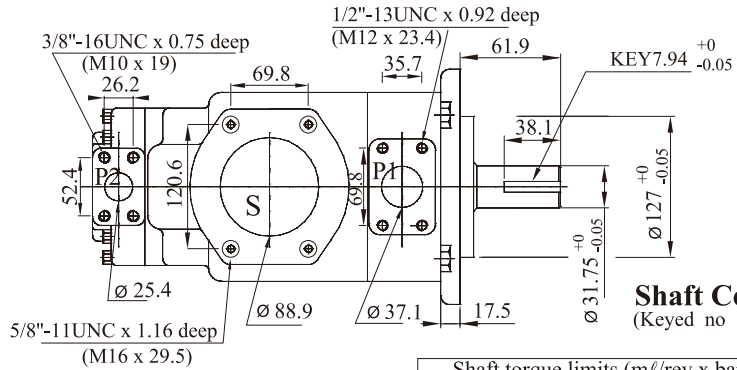
Shaft Code 1
(Keyed SAE CC)



Shaft code 3
SAE C Splined shaft
class 1 - J498 b
12/24 dp. -14 teeth
30° pressure angle.
Flat root side fit.



Shaft code 4
SAE CC Splined
shaft class 1 - J498 b
12/24 dp. -17 teeth
30° pressure angle.
Flat root side fit.



Shaft Code 2
(Keyed no SAE)

Shaft torque limits (mℓ/rev x bar)		
Pump	Shaft	Vp x p max.P1+P2
KT6EC	1	72306
	2	34590
	3	61200
	4	76376

KT6EC OPERATING CHARACTERISTICS - TYPICAL [24 cSt] (input power p (kw) for one cartridge only)

Pressure port	Series	Volumetric Displacement Vp	Flow qve [ℓ/min] 1500rpm			Input power P [KW] 1500rpm			P Max Kg/cm ²	Max r.p.m	
			P = 0 bar	P = 140 bar	P = 240 bar	P = 7 bar	P = 140 bar	P = 240 bar			
P1	042	132.3mℓ/rev	198.5	188.5	181.3	5.2	49.4	82.6	240	2200	
	045	142.4mℓ/rev	213.6	203.6	196.5	5.4	52.9	88.7			
	050	158.5mℓ/rev	237.7	227.7	220.6	5.7	58.5	98.3			
	052	164.8mℓ/rev	247.2	237.2	230.1	5.8	60.8	102.1			
	057	180.7mℓ/rev	271.1	261.1	254.0	6.1	66.4	106.9			
	062	196.7mℓ/rev	295.0	285.0	277.9	6.4	71.9	121.3			
	066	213.3mℓ/rev	319.9	309.9	302.8	6.7	77.7	131.2			
	072	227.1mℓ/rev	340.6	330.6	323.5	6.9	82.6	139.5			
	085 1)	269.8mℓ/rev	404.7	397.7 2)	-	7.3	65.3 2)	-			90
P2	005	17.2mℓ/rev	25.8	20.8	17.3	1.4	7.5	12.2	275	2200	
	006	21.3mℓ/rev	31.9	26.9	23.4	1.5	8.9	14.7			
	008	26.4mℓ/rev	39.6	34.6	31.1	1.6	10.7	17.7			
	010	34.1mℓ/rev	51.1	46.1	42.6	1.7	13.4	22.3			
	012	37.1mℓ/rev	55.6	50.6	47.1	1.7	14.4	24.1			
	014	46.0mℓ/rev	69.0	64.0	60.5	1.9	17.6	29.5			
	017	58.3mℓ/rev	87.4	82.4	78.9	2.1	21.9	36.9			
	020	63.8mℓ/rev	95.7	90.7	87.2	2.2	23.8	40.2			
	022	70.3mℓ/rev	105.4	100.4	96.9	2.3	26.1	44.1			
	025	79.3mℓ/rev	118.9	113.9	110.4	2.5	29.2	49.5			
	028	88.8mℓ/rev	133.2	128.2	125.8 3)	2.8	32.7	48.5 3)			210
	031	100.0mℓ/rev	150.0	145.0	142.6 3)	2.8	36.5	54.4 3)			

1) 085 = 2000 rpm max.

2) 085 = 90 bar max. int.

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

Min Speed : 600 rpm