

KT6DC - **W** - **038 - 022 - 1 R 00 - B 1 - 00 - ***
 ① ② P1 P2 ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

① **Series**

② **Severe duty shaft only**

③ **Cam ring for " P1 "**

Volumetric displacement (cm³/rev)

014=47.6	035=111.0
017=58.2	038=120.3
020=66.0	042=136.0
024=79.5	045=145.7
028=89.7	050=158.0
031=98.3	060=190.5

Cam ring for " P2 "

Volumetric displacement (cm³/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

④ **Type of shaft**

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

Sever duty KT6DCW only

- 5 = Keyed (no SAE)

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 the resistant fluids)

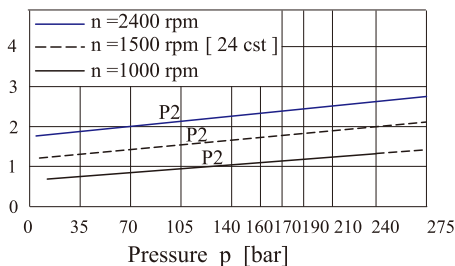
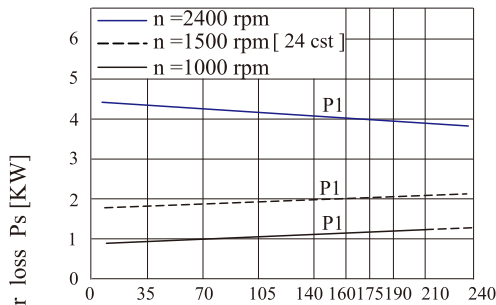
5 = S5 (for mineral oil and fire resistant fluids)

⑨ **Mounting W / connection variables**

	UNC		METRIC	
	00	01	M0	M1
P2	1"	3/4"	1"	3/4"

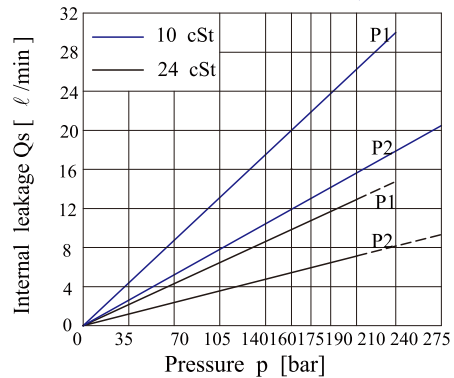
⑩ **Modifications**

HYDROMECHANICAL POWER LOSS (TYPICAL)



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

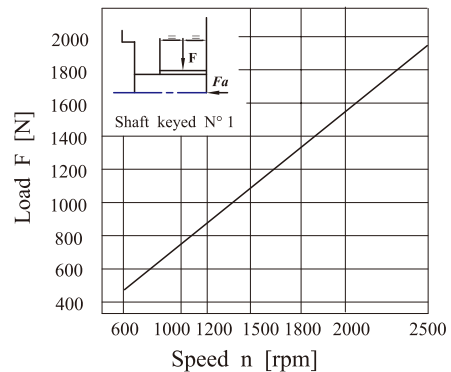
INTERNAL LEAKAGE (TYPICAL)



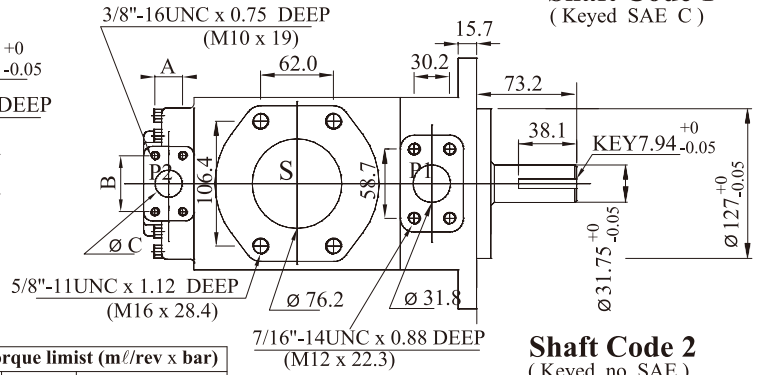
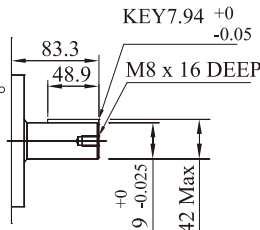
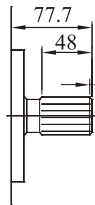
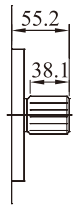
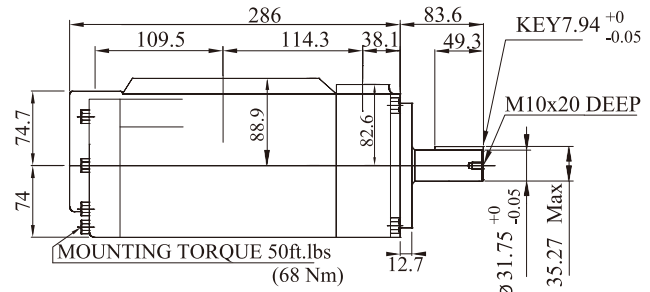
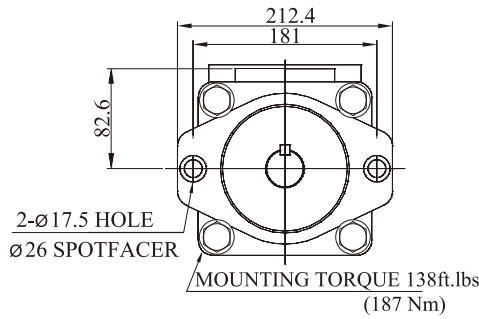
Do not operate pump more than 5 seconds at any speed or viscosity if internal leakage is more than 50 % of theoretical flow.

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

PERMISSIBLE RADIAL LOAD



Maximum permissible axial load Fa = 1200 N



Shaft code 3

SAE C Splined shaft class 1 - J498b
12/24 d.p. -14 teeth
30° pressure angle.
Flat root side fit.

Shaft code 4

NO SAE Splined shaft class 1 - J498
b 12/24 d.p. -14 teeth
30° pressure angle. Flat root side fit.

Shaft code 5

(Keyed no SAE)

Shaft torque limit (mℓ/rev x bar)		
Pump	Shaft	Vp x p max.P1+P2
KT6DC	1	43240
	2	34590
	3	61200
	4	61200
	5	55600

Alternate connect. variables		
	00 & M0	01 & M1
A	1.031 (26.2)	0.874 (22.2)
B	2.06 (52.4)	1.874 (47.6)
C	1.0 (25.4)	0.75 (19.05)

OPERATING CHARACTERISTICS - TYPICAL [24 cSt]

(input power p (kw) for one cartridge only)

Pressure port	Series	Volumetric Displacement Vp	Flow qvc [ℓ/min] 1500 rpm			Input power P [KW] 1500 rpm			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	014	47.6mℓ/rev	71.4	62.1	55.9	2.3	18.5	30.6	240	2500
	017	58.2mℓ/rev	87.3	78.0	71.8	2.5	22.2	37.0		
	020	66.0mℓ/rev	99.0	89.7	83.5	2.8	24.9	41.7		
	024	79.5mℓ/rev	119.3	110.0	103.8	3.0	29.6	49.8		
	028	89.7mℓ/rev	134.5	125.2	119.0	3.2	33.2	55.9		
	031	98.3mℓ/rev	147.5	138.1	131.9	3.3	36.2	61.0		
	035	111.0mℓ/rev	166.5	157.2	151.0	3.5	40.7	68.7		
	038	120.3mℓ/rev	180.4	171.2	164.9	3.7	43.9	74.3		
	042 1)	136.0mℓ/rev	204.0	194.7	188.5	4.0	49.4	83.7		
	045 1)	145.7mℓ/rev	218.5	209.2	203.0	4.1	52.8	89.5		
	050 1)	158.0mℓ/rev	237.0	227.7	224.0 2)	4.4	57.0	85.0 2)	210	
061 1)	190.5mℓ/rev	285.7	278.0 3)	—	4.6	60.6 3)	—	120		
P2	005	17.2mℓ/rev	25.8	20.8	17.3	1.4	7.5	12.2	275	2500
	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 2)	2.8	32.7	48.5 2)		
031	100.0mℓ/rev	150.0	145.0	142.6 2)	2.8	36.5	54.4 2)	210		

1) 042 - 045- 050- 061 = 2200 rpm max

2) 028 - 031- 050 = 210 bar max. int.

Min Speed : 600 rpm

3) 061 = 120 bar max. int.
061 = 80 bar max. cont.