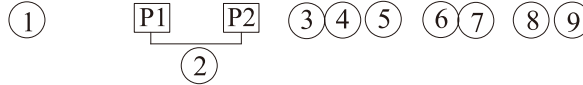


## KT6DDS - 038 - 022 - 1 R 00 - A 1 - 00 \*



① **Series SAE C 6 bolts**  
Mounting flange J744c

② **Cam ring for " P1 " "P2"**  
Volumetric displacement (cm<sup>3</sup>/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	061=190.5

③ **Type of shaft**  
1 = Keyed ( SAE C )  
2 = Keyed ( SAE CC )  
3 = Splined ( SAE C )  
4 = Splined ( SAE BB )  
5 = Keyed ( no SAE )

④ **Direction of rotation**  
(view on shaft end)  
R = clockwise  
L = counter - clockwise

⑤ **Porting combination**  
00 = standard

⑥ **Design letter**

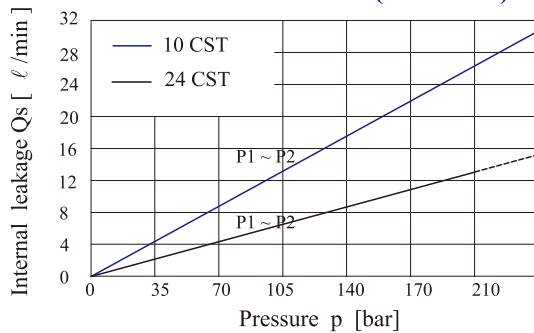
⑦ **Seal class**  
1 = S1 (for mineral oil)  
4 = S4 (for fire resistant fluids)  
5 = S5 (for mineral oil and fire resistant fluids)

⑧ **Mounting W/connection variables**

P1 & P2 = 1 1/4" S = 4"	
KT6DDS	Unc
	00
	Metric
	M0

⑨ **Modifications**

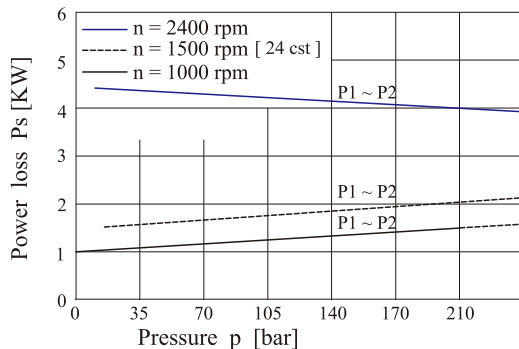
### INTERNAL LEAKAGE (TYPICAL)



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

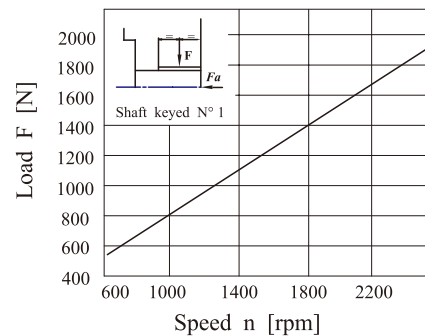
Total leakage is the sum of each section loss at its operating conditions.

### HYDROMECHANICAL POWER LOSS (TYPICAL)

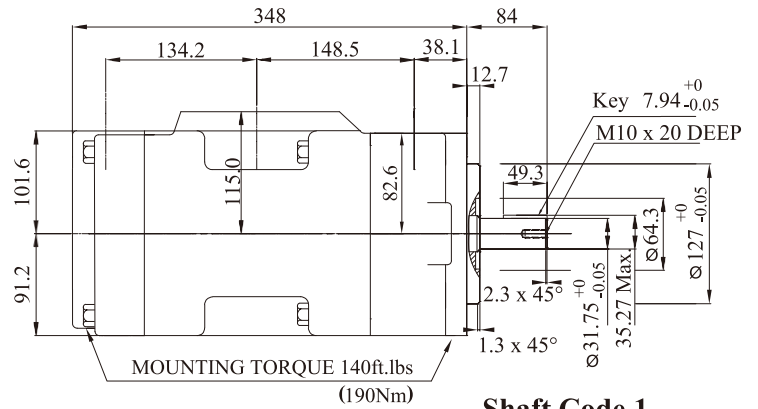
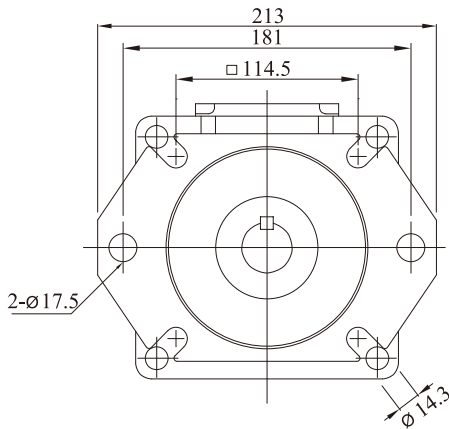


Total hydromechanical power loss is the sum of each section at its operating conditions.

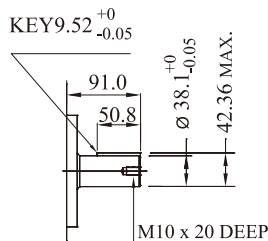
### PERMISSIBLE RADIAL LOAD



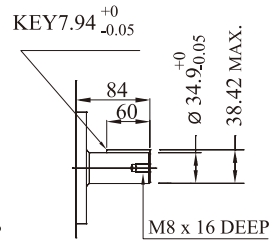
Maximum axial load permissible  $F_a = 1200$  N



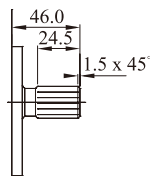
**Shaft Code 1**  
Keyed SAE C



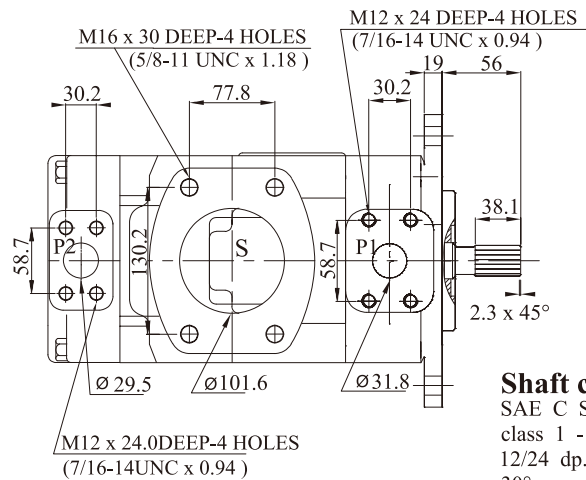
**Shaft Code 2**  
Keyed SAE CC



**Shaft code 5**  
Keyed no SAE



**Shaft code 4**  
SAE BB Splined shaft  
class 1 - J498 b  
16/32 d.p. -15 teeth  
30° pressure angle.  
Flat root side fit.



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

Shaft torque limits (mℓ/rev x bar)		
Pump	Shaft	Vp x p max.P1+P2
KT6DDS	1	43240
	3	61200
	4	35880
	5	55600

**OPERATING CHARACTERISTICS - TYPICAL (24 cST)** (input power p (kw) for one cartridge only)

Pressure Port	Series	Volumetric Displacement Vp cm <sup>3</sup> /rev	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	014	47.6	71.4	62.1	55.9	2.3	18.5	30.6	240	2500		
	017	58.2	87.3	78.0	71.8	2.5	22.2	37.0				
	020	66.0	99.0	89.7	83.5	2.8	24.9	41.7				
	024	79.5	119.3	110.0	103.8	3.0	29.6	49.8				
	028	89.7	134.5	125.2	119.0	3.2	33.2	55.9				
	031	98.3	147.5	138.1	131.9	3.3	36.2	61.0				
	035	111.0	166.5	157.2	151.0	3.5	40.7	68.7				
	038	120.3	180.4	171.1	164.9	3.7	43.9	74.3				
	042 1)	136.0	204.0	194.7	188.5	4.0	49.4	83.7			210	2200
	045 1)	145.7	218.5	209.2	203.0	4.1	52.8	89.5				
	050 1)	158.0	237.0	227.7	224.0 2)	4.4	57.0	85.0 2)				
	061	190.5	285.7	278.0 3)	—	4.6	60.6 3)	—				

1) 042-045-050-061=2200 rpm. max. 2) 050=210 bar max. int.  
3) 061=120 bar max. int. 061=80 bar max. cont.

Min Speed : 600 rpm