

**KT6ED - \* - 066 - 038 - 1 R 00 - B 1 \***

①      ②      P1      P2      ④ ⑤ ⑥      ⑦ ⑧ ⑨

③

① **Series**

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

③ **Cam ring for " P1 "**

Volumetric displacement (cm<sup>3</sup>/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 "**

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

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**

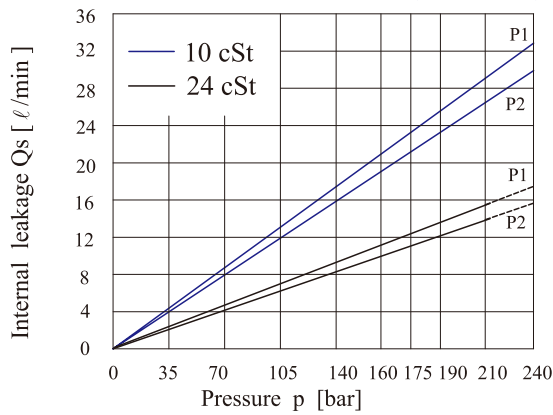
⑧ **Seal class**

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

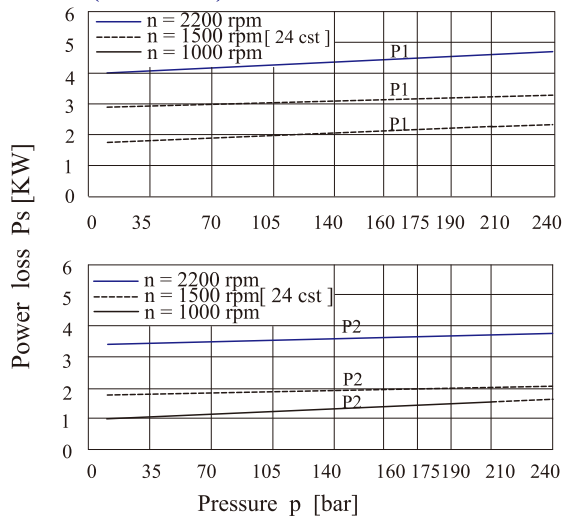
⑨ **Modifications**

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

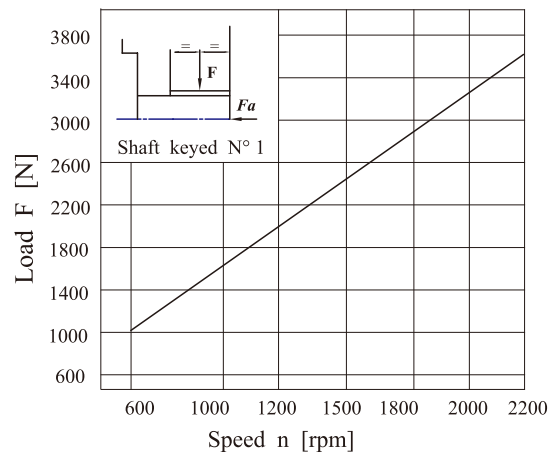
**INTERNAL LEAKAGE (TYPICAL)**



**HYDROMECHANICAL POWER LOSS (TYPICAL)**

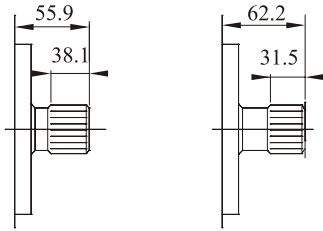
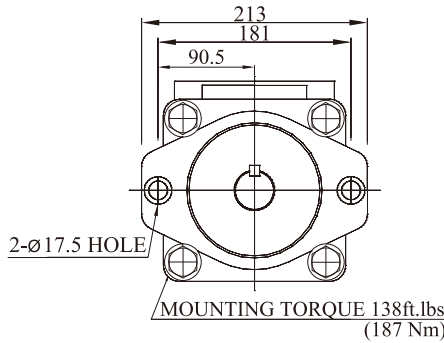


**PERMISSIBLE RADIAL LOAD**



Maximum permissible axial load Fa = 2000 N

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

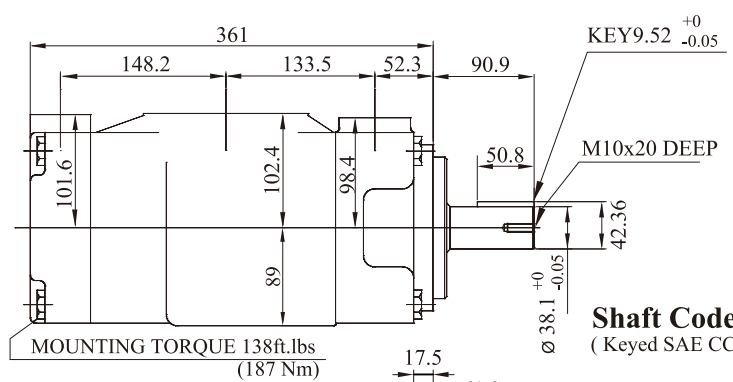


### Shaft code 3

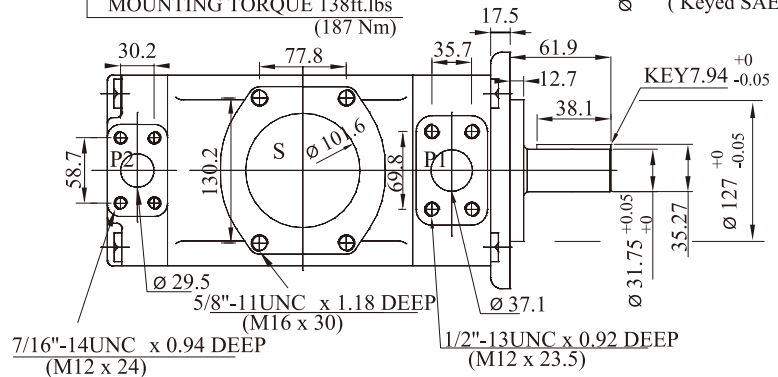
SAE C Splined shaft class 1 - J498 b  
12/24 dp. -14 teeth  
30° pressure angle.  
Flat root side fit.

### 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 1 (Keyed SAE CC)



### Shaft Code 2 (Keyed no SAE)

Shaft torque limits (mℓ/rev x bar)		
Pump	Shaft	Vp x p max.P1+P2
KT6ED	1	72306
	2	34590
	3	61200
	4	76376

## KT6ED 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] 1500rpm			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	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	014	47.6ml/rev	71.4	62.1	55.9	2.3	18.5	30.6	240	2200	
	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	171.1	164.9	3.7	43.9	74.3			
	042	136.0ml/rev	204.0	194.7	188.5	4.0	49.4	83.7			
	045	145.7ml/rev	218.5	209.2	203.0	4.1	52.8	89.5			
	050	158.0ml/rev	237.0	227.7	224.0 3)	4.4	57.0	85.0 3)			210
	061	190.5ml/rev	285.7	278.0 4)	-	4.6	60.6 4)	-			120

1) 085 = 2000 rpm max.

2) 085 = 90 bar max. int.

085 = 75 bar max. cont.

Min Speed : 600 rpm

3) 050 = 210 bar max. int.

4) 061 = 120 bar max. int.

061 = 80 bar max. cont.