KT7DD/KT7DDS - B38 - B28 - 1 R 00 - A 1 - 00 - *

① P1 P2 ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

① **Series**
KT7DD series-ISO 4 bolts 3019-2
Mounting flange 125 B4 HW
KT7DDS series-SAE C 6 bolts
Mounting flange J744

② **Cam ring for " P1 " ~ " P2 "**
Volumetric displacement (cm^3/rev)

B14=43.9	B35=113.4
B17=55.0	B38=120.6
B20=66.0	B42=137.5
B24=81.1	045=145.7
B28=89.9	050=157.9
B31=99.1	

③ **Type of shaft KT7DDS**
1 = Keyed (SAE C)
2 = Keyed (SAE CC)
3 = Splined (SAE C)
4 = Splined (SAE BB)

Type of shaft KT7DD - KT7DDS
5 = Keyed (ISO 3019-2-G32M)

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

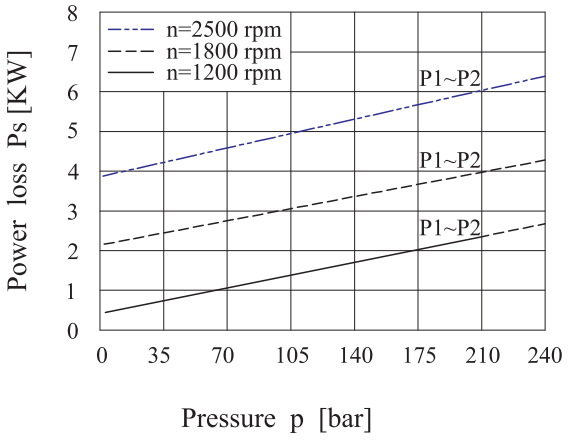
⑧ **Mounting W / connection variables**

P1=P2=1¼"		S=4"
	UNC	METRIC
KT7DD		M0
KT7DDS	00	M0

*** No Mark = 00

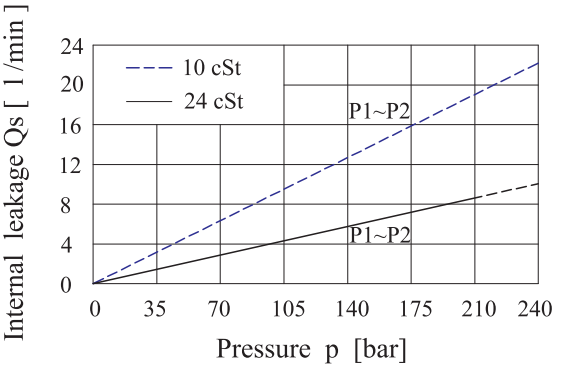
⑨ **Modifications**

HYDROMECHANICAL POWER LOSS (TYPICAL)



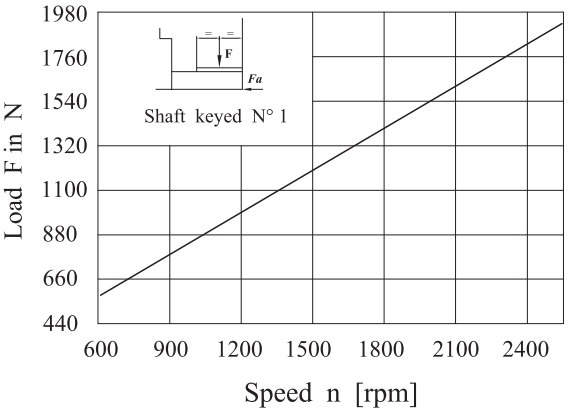
Total hydromechanical power loss is the sum of each section at its operating conditions.

INTERNAL LEAKAGE (TYPICAL)



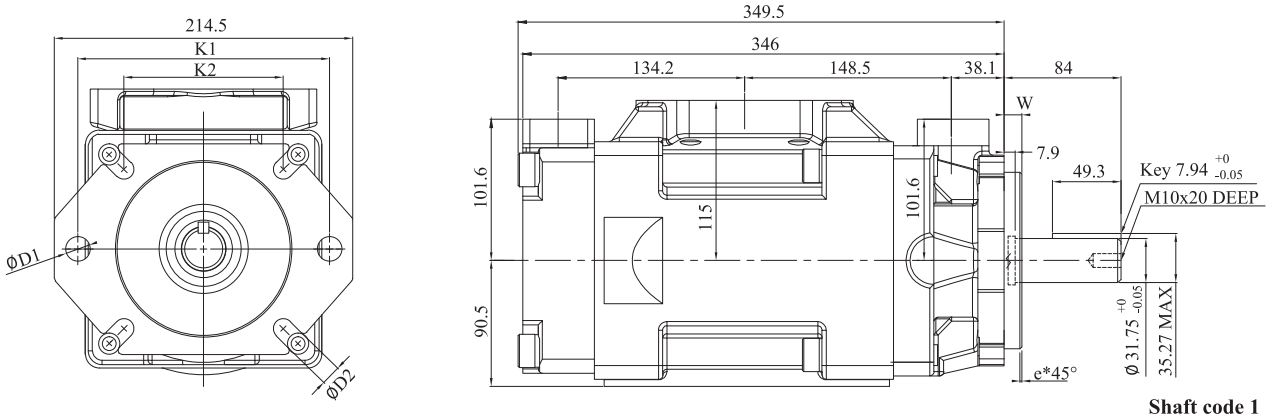
Do not operate pump more than 5 seconds at any speed or viscosity if internal leakage is more than 50 % of theoretical flow.

PERMISSIBLE RADIAL LOAD

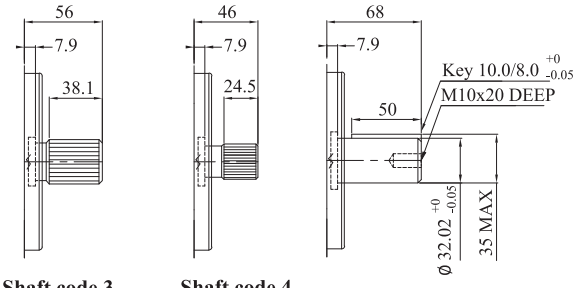


Maximum permissible axial load Fa = 800 N

KCL KT7DD/KT7DDS Dimensional Drawing



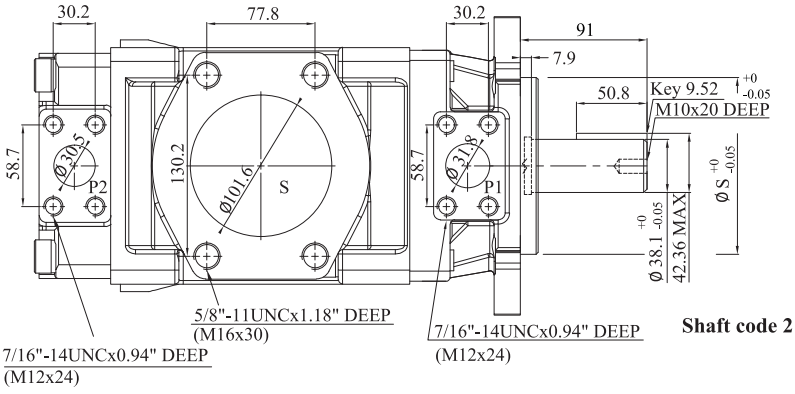
Shaft code 1



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 BB Splined shaft
class 1 - J498 b
16/32 dp. -15 teeth 30°
pressure angle. Flat
root side fit.

Shaft code 5



Shaft code 2

Alternate mounting flange								
Series	ØS		e*45°	W	K1	ØD1	K2	ØD2
	Max	Min						
KT7DD	124.99	124.94	2.0	9.49	180.0	18.0	113.1	13.9
KT7DDS	127.0	126.94	1.5	12.7	181.0	17.5	114.5	14.3

Shaft torque limits (mℓ/rev x bar)		
Pump	Shaft	Vp x p max.P1+P2
KT7DDS	1	43240
	2	71822
	3	61200
	4	28120
	5	35424

OPERATING CHARACTERISTICS - TYPICAL [24 cSt]

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

Pressure port	**Series**	**Volumetric Displacement Vp**	**Flow qve [ℓ/min]** 1800rpm			**Input power P [KW]** 1800rpm			**P Max Kg/cm²**	**Max r.p.m**
		cm^3 /rev	**P = 0 bar**	**P = 140 bar**	**P = 250 bar**	**P =7 bar**	**P =140 bar**	**P =250 bar**		
P1~P2	B14	43.9	79.1	72.5	67.3	2.6	20.7	35.07	250	2500
	B17	55.0	98.8	92.3	87.0	2.8	25.3	43.03		
	B20	66.0	118.6	112.0	106.8	3.0	29.8	50.99		
	B24	81.1	145.8	139.2	134.0	3.4	36.1	61.93		
	B28	89.9	161.8	155.2	150.0	3.5	39.7	68.38		
	B31	99.1	178.3	171.7	166.5	3.7	43.6	75.03		
	B35	113.4	203.9	197.2	192.0	4.0	49.4	85.32		
	B38	120.6	216.8	210.2	204.9	4.2	52.4	90.54		
	B42	137.5	247.2	240.6	235.4	4.5	59.4	102.77		
	045	145.7	262.0	253.6	246.8	5.0	62.4	108.71		
	050	157.9	284.0	275.8	271.3 1)	5.3	67.5	100.3 1)	210	

1) 050 = 210 bar max. int. Min Spleed：600 rpm