

KT7EB/KT7EBS - 066 - B06 - 1 R 00 - A 1 01 *

①

P1

P2

③

④

⑤

⑥

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⑨

②

- ① **KT7EB series -125-A2 HW**
ISO 2 bolts 3019-2 mounting flange
KT7EBS series -SAE-C2 bolts
mounting flange j744

② **Cam ring for " P1 "**

Volumetric displacement (cm³/rev)

042 = 132.3	062 = 196.6
045 = 142.5	066 = 213.0
050 = 158.5	072 = 227.1
052 = 163.8	085 = 268.7
057 = 183.2	

Cam ring for " P2 "

B02=5.7	B09=28.0
B03=9.8	B10=31.8
B04=12.8	B11=34.9
B05=15.9	B12=40.9
B06=19.8	B14=45.1
B07=22.5	B15=50.0
B08=24.9	

③ **Type of shaft**

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

Type of shaft KT7EB/KT7EBS

- 5 = Keyed (ISO-R775-G38M)

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=1 1/2"	P2=3/4"	S=3 1/2"
	KT7EBS	KT7EB/KT7EBS	
Type	UNC	METRIC	
CODE	01	M1	

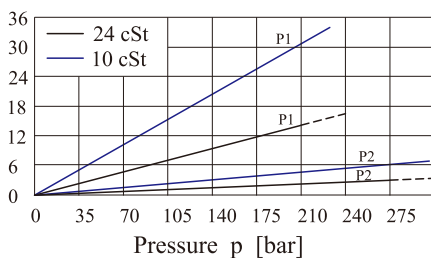
⑨ **Modifications**

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

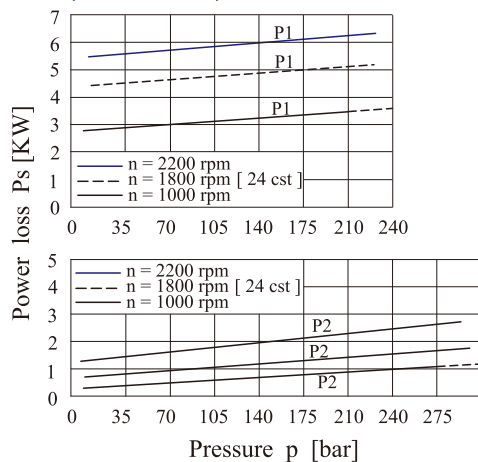
Total leakage is the sum of each section loss at its operating conditions.

Internal leakage Qs [ℓ /min.]

INTERNAL LEAKAGE (TYPICAL)

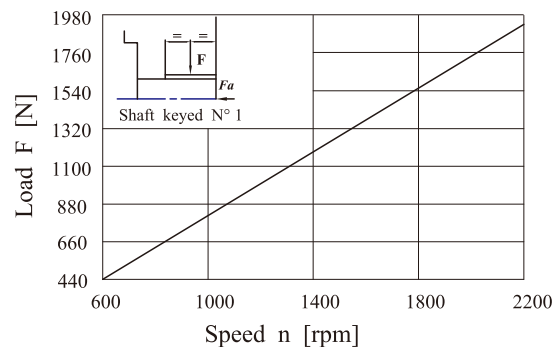


HYDROMECHANICAL POWER LOSS (TYPICAL)

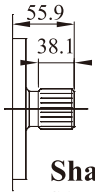
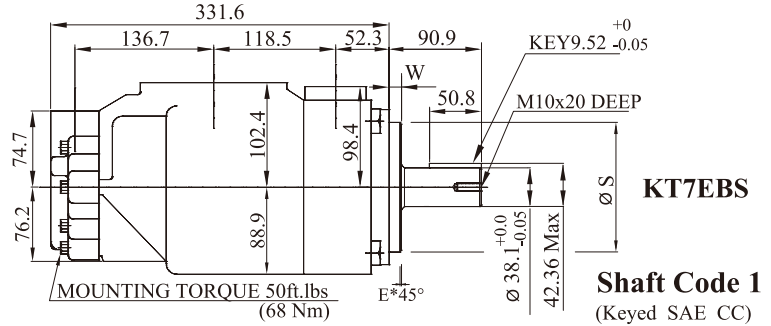
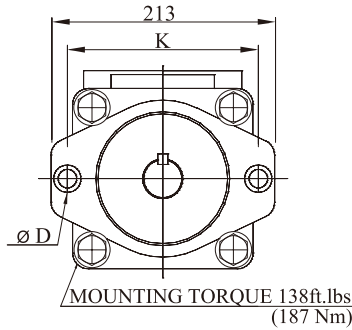


Total hydromechanical power loss is the sum of each section at its operating conditions.

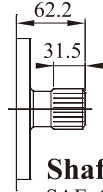
PERMISSIBLE RADIAL LOAD



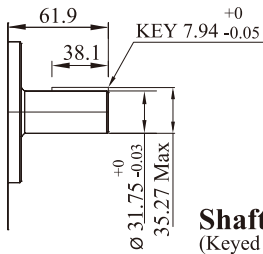
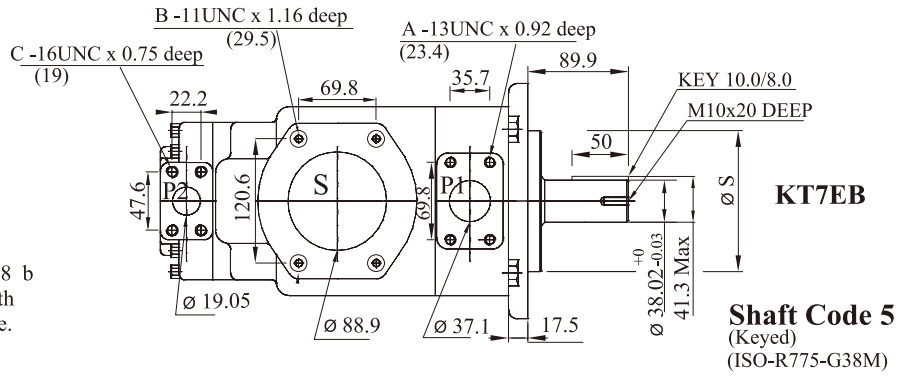
Maximum permissible axial load Fa = 2000 N



Shaft code 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.



Alternate connect. variables		
	01	M1
A	1/2-13UNC	M12
B	5/8-11UNC	M16
C	3/8-16UNC	M10

Shaft torque limits (mℓ/rev x bar)		
Pump	Shaft	Vp x p max.P1+P2
KT7EB/ KT7EBS	1	68568
	2	34590
	3	61200
	4	68568
	5	68568

Series	ø S	E*45°	W	K	ø D
KT7EB	4.921"(124.99/124.94)	0.079"(2.0)	0.374"(9.49)	7.087"(180.0)	0.709"(18.0)
KT7EBS	5" (127.0/126.94)	0.051"(1.3)	0.5"(12.7)	7.126"(181.0)	0.689"(17.5)

OPERATING CHARACTERISTICS - TYPICAL [24 cSt]

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

Pressure Port	Series	Volumetric Displacement Vp	Flow q & n=1800 rpm			Input power p & n=1800rpm			P Max Kg/cm ²	Max r.p.m	
			(ℓ/min)	(ℓ/min)	(ℓ/min)	(KW)	(KW)	(KW)			
P1		cm ³ /rev	P=0 bar	P=140 bar	P=240 bar	P=7 bar	P=140 bar	P=240 bar	240	2200	
	042	132.2	237.8	228.2	221.2	6.03	58.49	99.77			
	045	142.5	255.9	246.3	239.3	6.24	62.66	107.08			
	050	158.5	284.9	275.3	268.3	6.58	69.32	118.75			
	052	163.8	296.2	286.6	279.6	6.70	71.94	123.31			
	057	183.2	329.3	319.7	312.7	7.09	79.47	141.56			
	062	196.6	353.6	343.9	336.9	7.37	85.13	146.41			
	066	213.0	383.4	373.8	366.8	7.71	92.0	158.43			
	072	227.1	408.2	398.6	391.6	7.99	97.71	166.42			
085 ¹⁾	268.7	483.0	476.7 ²⁾	—	8.85	75.8 ²⁾	—	90	2000		
P2	Series	cm ³ /rev	P=0 bar	P=140 bar	P=300 bar	P=7 bar	P=140 bar	P=300 bar	300	2200	
	B02	5.7	10.4	8.8	6.8	0.55	2.99	6.04			
	B03	9.8	17.6	15.9	14.0	0.63	4.65	9.64			
	B04	12.8	23.0	21.4	19.4	0.70	5.89	12.34			
	B05	15.9	28.6	26.9	25.0	0.76	7.17	15.13			
	B06	19.8	35.6	33.9	32.0	0.84	8.79	18.64			
	B07	22.5	40.4	38.8	36.8	0.89	9.91	21.07			
	B08	24.9	44.7	43.1	41.1	0.94	10.9	23.22			
	B09	28.0	50.3	48.6	47.0	1.01	12.19	26.03			
	B10	31.8	57.2	55.5	53.5	1.11	13.75	29.44			
	B11	34.9	62.9	61.2	59.3	1.15	15.04	32.23			
	B12	40.9	73.7	72.1	70.1	1.28	17.56	37.71			
	B14	45.1	80.8	79.2	77.0	1.36	19.23	41.37			
	B15	50.0	89.8	88.3	86.5 ³⁾	1.47	21.28	42.76 ³⁾			280

1) 085=2000rpm max.

2) 085=75 bar cont.
085=90 bar max. int.

3) B15=280 bar max. int.

Min Speed : 600 rpm