KT6DC Ordering Code

(3)

- (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)

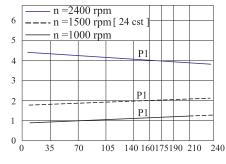
005=17.2	017 = 58.3
006=21.3	020 = 63.8
008 = 26.4	022 = 70.3
010 = 34.1	025 = 79.3
012 = 37.1	028 = 88.8
014 = 46.0	031 = 100.0

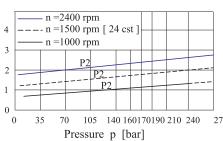
- (4) Type of shaft
 - 1 = Keyed (SAE C)
 - 2 = Keyed (no SAE)
 - 3 = Splined (SAEC)
 - 4 = Splined (no SAE)

Sever duty KT6DCW only

5 = Keyed (no SAE)

HYDROMECHANICAL POWER LOSS (TYPICAL)





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

(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)

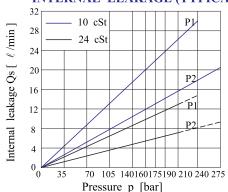
5 = S5 (for mineral oil and fire resistant fluids)

Mounting W / connection variables

	Uì	NC	MET	RIC
	00	01	M0	M1
P2	1"	3/4"	1"	3/4"

10 Modifications

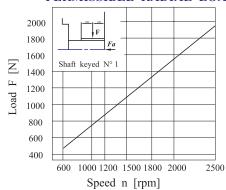
INTERNAL LEAKAGE (TYPICAL)



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.

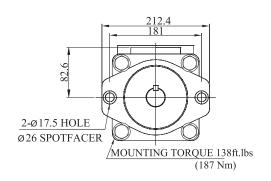
PERMISSIBLE RADIAL LOAD

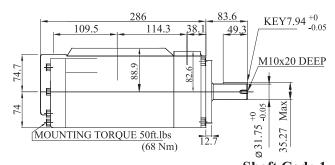


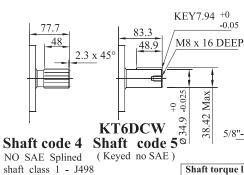
Maximum permissible axial load Fa = 1200 N

Power loss Ps [KW]

KT6DC Dimensional Drawing







Shaft Code 1 (Keyed SAE C) 3/8"-16UNC x 0.75 DEEP 15.7 (M10 x 19) 62.0 Ð Θ KEY7.94 -0.05 **•** Ф P\$ Ø127⁺⁰ ⊕/ 0 Φ, Ø31.75 5/8"-11UNC x 1.12 DEEP ø 76.2 / ø 31.8 $(M16 \times 28.4)$ 7/16"-14UNC x 0.88 DEEP

Shaft Code 2

(Keyed no SAE)

Shaft code 3 SAE C Splined shaft NO SAE Splined class 1 - J498b 12/24 d.p. -14 teeth 30° pressure angle. Flat root side fit.

shaft class 1 - J498 b 12/24 d.p. -14 teeth 30° pressure angle. Flat root side

Shaft torque limist (mℓ/rev x bar) Shaft Vp x p max.P1+P2 Pump

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) 1.0 (25.4) 0.75 (19.05)

(M12 x 22.3)

34590 3 KT6DC 61200 4 61200 55600

OPERATING CHARACTERISTICS - TYPICAL [24 cSt]

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

				5 - 1111CAL [24 cst]		(iliput power p (kw) for one				,111 <i>y j</i>
Pressure port	Sarios	Volumetric	Flow qve [\(\ell / min \) 1500 rpm			Input pov	wer P [KW]	P Max	Max	
port	Series	Displacement Vp	P = 0 bar	P = 140 bar	P = 240 bar	P = 7 bar	P =140 bar	P =240 bar	Kg/cm ²	r.p.m
	014	47.6mℓ/rev	71.4	62.1	55.9	2.3	18.5	30.6		
	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	240	2500
D 1	031	98.3mℓ/rev	147.5	138.1	131.9	3.3	36.2	61.0		
P1	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		2200
	050 1)	158.0mℓ/rev	237.0	227.7	224.0 2)	4.4	57.0	85.0 2)	210	2200
	061 1)	190.5mℓ/rev	285.7	278.0 3)		4.6	60.6 3)		120	
	005	17.2mℓ/rev	25.8	20.8	17.3	1.4	7.5	12.2		
	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		
P2	020	63.8mℓ/rev	95.7	90.7	87.2	2.2	23.8	40.2	275	2500
	022	70.3mℓ/rev	105.4	100.4	96.9	2.3	26.1	44.1	213	2300
	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 - ()45- 05(0-061 = 2200 rpn	n max	2) 028 -	031 - 050 = 2	10 bar max.	int.	Min S	peed: 60	0 rpm
1) 042 - ()45- 050	0-061 = 2200 rpn	n max	2) 028 -	031 - 050 = 2	10 bar max.	int.	Min S	peed: 600	U

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

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

³⁾ 061 = 120 bar max. int.

^{061 = 80} bar max. cont.

KT6EC Ordering Code

<u>KT6EC - * - 066 - 014 - 1 R 00 - B 1</u>

- (1) Series
- 2 Y-Metric port connection, Omit for UNC
- 3 Cam ring for "P1"

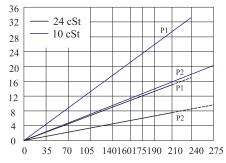
Volumetric displacement (cm³/rev)

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"

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

INTERNAL LEAKAGE (TYPICAL)



Pressure p [bar]

4 Type of shaft

45678

- 1 = Keyed (SAE CC)
- 2 = Keyed (no SAE)
- 3 = Splined (SAEC)
- 4 = Splined (SAECC)
- **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)

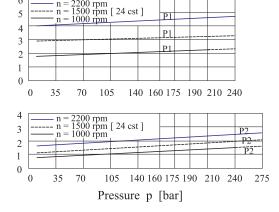
4 = S4 (for fire resistant fluids)

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

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

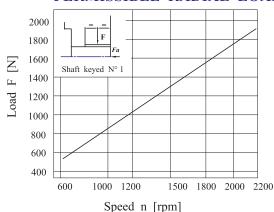
Total leakage is the sum of each section loss at its operating conditions.

HYDROMECHANICAL POWER LOSS (TYPICAL)



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

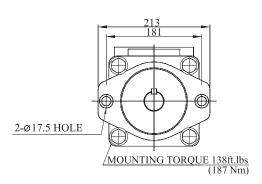
PERMISSIBLE RADIAL LOAD

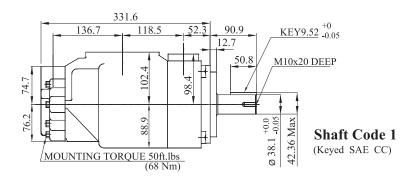


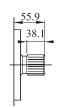
Maximum permissible axial load Fa = 2000 N

nternal leakage Qs [\(\ell \)/min]

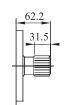
KT6EC Dimensional Drawing



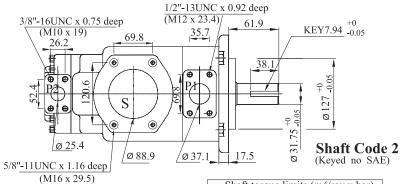




Shaft code 3 SAE C Splined shaft class 1 - J498 b 12/24 dp. -14 teeth 30° pressure angle. Flat root side fit.



Shaft code 4
SAE CC Splined
shaft class 1 - J498 b
12/24 dp. -17 teeth
30° pressure angle.
Flat root side fit.



Shaft torque limits (mℓ/rev x bar)							
Pump	ump Shaft Vp x p max.P1+P2						
KT6EC	1	72306					
	2	34590					
	3	61200					
	4	76376					

KT6EC OPERATING CHARACTERISTICS - TYPICAL [24 cSt] (input power p (kw) for one cartridge only)

Pressure	Pressure Series Series Notemen		Flow q	ve [<i>l</i> /min]1	500rpm	Input po	P Max	Max		
port	series	Displacement Vp	P = 0 bar	P = 140 bar	P = 240 bar	P =7 bar	P=140 bar	P =240 bar	Kg/cm ²	r.p.m
	042	132.3mℓ/rev	198.5	188.5	181.3	5.2	49.4	82.6		
	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	240	2200
P1	057	180.7mℓ/rev	271.1	261.1	254.0	6.1	66.4	106.9	240	2200
	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	2000
	005	17.2mℓ/rev	25.8	20.8	17.3	1.4	7.5	12.2		
	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		
P2	012	37.1mℓ/rev	55.6	50.6	47.1	1.7	14.4	24.1	275	2200
	014	46.0mℓ/rev	69.0	64.0	60.5	1.9	17.6	29.5		2200
	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 3)	2.8	32.7	48.5 3)	210	
	031	100.0mℓ/rev	150.0	145.0	142.6 3)	2.8	36.5	54.4 3)	210	

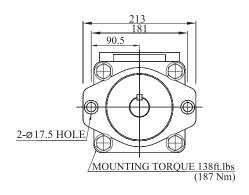
1) 085 = 2000 rpm max.

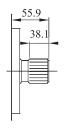
2) 085 = 90 bar max. int.

3) 028 - 031 = 210 bar max. int.

Min Speed : 600 rpm

KT6ED Dimensional Drawing

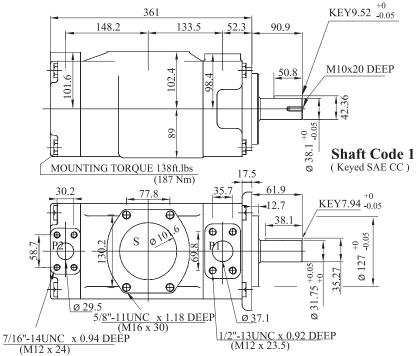




31.5

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

Shaft Code 2 (Keyed no SAE)

KT6ED OPERATING CHARACTERISTICS - TYPICAL [24 cSt] (input power p (kw) for one cartridge only)

Pressure	Series	Volumetric		e [ℓ/min]1	500 rpm	Input po	wer P [KW]1500rpm	P Max	Max	
port	Series	Displacement Vp	P = 0 bar	P = 140 bar	P = 240 bar	P =7 bar	P=140 bar	P =240 bar	Kg/cm ²	r.p.m	
	042	132.3mℓ/rev	198.5	188.5	181.3	5.2	49.4	82.6			
	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	240		
-	052	164.8mℓ/rev	247.2	237.2	230.1	5.8	60.8	102.1		2200	
P1	057	180.7mℓ/rev	271.1	261.1	254.0	6.1	66.4	106.9	240	2200	
	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	2000	
	014	47.6mℓ/rev	71.4	62.1	55.9	2.3	18.5	30.6			
	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			
P2	031	98.3mℓ/rev	147.5	138.1	131.9	3.3	36.2	61.0			
1-	035	111.0mℓ/rev	166.5	157.2	151.0	3.5	40.7	68.7	240	2200	
	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	1		
	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.

KT6GCC Ordering Code

KT6GCC - B22 - B08 - 6 R 00 - A 1 - 00 *

(1)









- (1) Series
- (2) **Cam ring for** " P1 "

Volumetric displacement (cm³/rev)

	(()
B05=17.2	B17=58.3
B06=21.3	B20=63.8
B08=26.4	B22=70.3
B10=34.1	B25=79.3
B12=37.1	B28=88.8
B14=46.0	B31=100.0

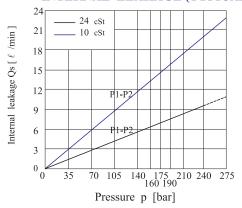
Cam ring for "P2"

0	
B05=17.2	B17=58.3
B06=21.3	B20=63.8
B08=26.4	B22=70.3
B10=34.1	B25=79.3
B12=37.1	B28=88.8
B14=46.0	B31=100.0

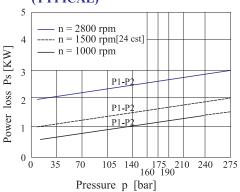
(3) Type of shaft

6-splined (DIN 5462)

INTERNAL LEAKAGE (TYPICAL)



HYDROMECHANICAL POWER LOSS (TYPICAL)



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

(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

Mounting W/connection variables

		P1=1"	S=3"	P1=1"	S=2 1/2"	2)
F	2	1"	3/4" 1)	1"	3/4"	1)
C- 1-	Unc	00	01	10	11	
Code	Metric	0M	M0	1M	M1	

1) for $46m\ell$ /rev.max.

2) for $126 \text{m} \ell/\text{rev.max}$.

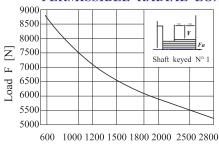
The large cartridge must be always mounted in the front.

(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.

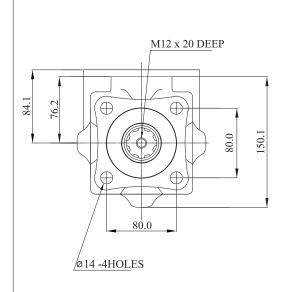
PERMISSIBLE RADIAL LOAD

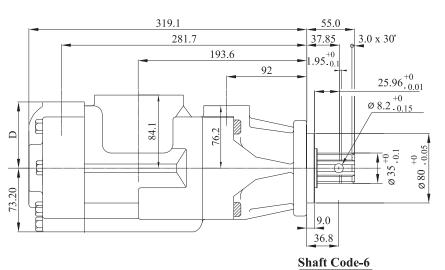


Speed n [rpm]

Lift time 3000 hours when 70% of the time at 500N and 30% at max. load

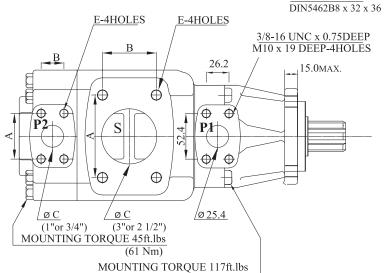
KT6GCC Dimensional Drawing





PORT	A	В	С	D	Е		
S (3")	106.4	61.9	76.2		5/8-11UNC x 1.12 (M16 x 28.4 DEEP)		
S (2 1/2")	88.9	50.8	63.5		1/2-13UNC x 0.94 (M12 x 24.0 DEEP)		
P2 (3/4")	47.7	22.2	19.0	76.2	3/8-16UNC x 0.75		
P2	52.4	26.2	25.4	74.7	(M10 x 19.0 DEEP		

Shaft torque limits (ml/rev x bar)					
Shaft	Vp x p max.(P1+P2)				
6	32670				



OPERATING CHARACTERISTICS - TYPICAL (24 cST)

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

(159 Nm)

(input power p (kw) for one can mage only)											
Pressure Port	Series	Volumetric Displacement Vp	Flow q & n =1500 rpm (ℓ/min)			Input power p & n =1500rpm (KW)			P Max Kg/cm ²	Max r.p.m	
		cm³/rev	P=0 bar	P=140 bar	P=240 bar	P=7 bar	P=140 bar	P=240 bar			
	B05	17.2	25.8	20.3	15.8	1.4	7.5	12.2	275		
	B06	21.3	31.9	26.5	22.0	1.5	8.9	14.7			
	B08	26.4	39.6	34.1	29.6	1.6	10.7	17.7			
	B10	34.1	51.1	45.7	41.2	1.7	13.4	22.3			
	B12	37.1	55.6	50.2	45.7	1.7	14.4	24.1		275	2800
D1 D2	B14	46.0	69.0	63.5	59.0	1.9	17.6	29.5			
P1 - P2	B17	58.3	87.4	82.0	77.5	2.1	21.9	36.9			
	B20	63.8	95.7	90.2	85.7	2.2	23.8	40.2			
	B22	70.3	105.4	100.0	95.5	2.3	26.1	44.1			
	B25 1)	79.3	118.9	113.5	109.0	2.5	29.2	49.5			
	B28 1)	88.8	133.2	127.7	124.5 2)	2.8	32.7	48.5 2)		2500	
	B31 1)	100.0	150.0	144.5	141.3 2)	2.8	36.5	54.4 2)	210		

¹⁾ B25-B28-B31=2500 rpm. max

²⁾ B28-B31=210 bar max. int.

Min Speed : 600 rpm

⁻⁻Not to use because internal leakage greater than 50% theoretical flow.

KT67CB Ordering Code

KT67CB W - 022 - B08 - 1 R 00 - A 1 - 11 * 1 2 P1 P2 4 5 6 7 8 9 10

- 1 Series-SAE B 2 bolts Mounting flange J744c
- (2) Use for severe duty shaft only
- (3) Cam ring for "P1"

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

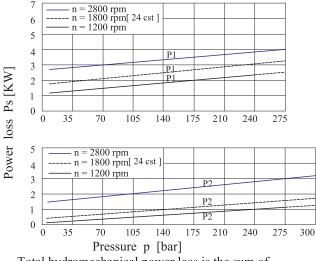
Cam ring for "P2"

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	

(4) Type of shaft

1-Keyed(no SAE)	W version
3-splined (SAE BB)	2-Keyed(SAE BB)
5-splined(SAF R)	

HYDROMECHANICAL POWER LOSS (TYPICAL)



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

(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)

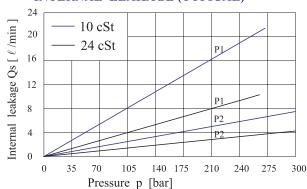
5-S5 (for mineral oil and fire resistant fluids)

(9) Mounting W/connection variables

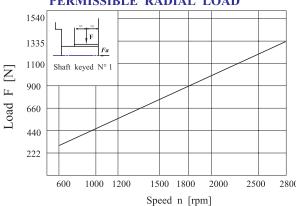
P1=1", P2=3/4", S=2 1/2"						
Unc	Metric					
11	M1					

(10) Modifications

INTERNAL LEAKAGE (TYPICAL)

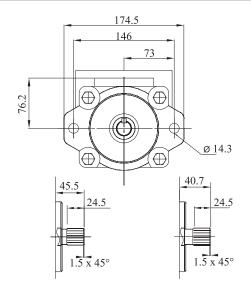


PERMISSIBLE RADIAL LOAD



Maximum permissible axial load Fa = 800 N

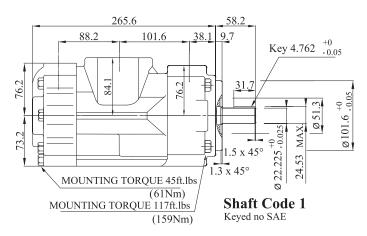
KT67CB Dimensional Drawing

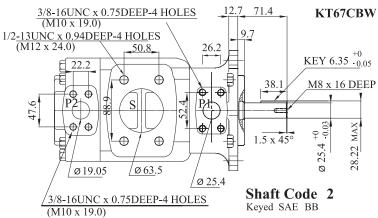


Shaft code 3SAE BB splined shaft
Class 1-J498 b 16/32dp.
-15 teeth 30° pressure
angle flat root side fit

Shaft code 5SAE B splined shaft Class 1-J498 b 16/32dp. -13 teeth 30° pressure angle flat root side fit

Shaft torque limits (mℓ/rev x bar)							
Pump Shaft Vp x p max.(P1+P2							
	1	14300					
KT67CB	2	21420					
	3	32670					
	5	20600					





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

Pressure Port	Series	Volumetric Displacement Vp	Flow q & n =1800 rpm (ℓ/min) Input power p o					=1800rpm	P Max Kg/cm ²	Max r.p.m
		cm ³ /rev	P=0 bar	P=140 bar	P=275 bar	P=7 bar	P=140 bar	P=275 bar		
	005	17.2	30.9	26.0	21.5	1.70	8.94	14.77]	
	006	21.3	38.3	33.4	28.8	1.78	10.64	17.74		
	008	26.4	47.4	42.6	37.9	1.89	12.75	21.43	275	
	010	34.1	61.3	56.4	51.8	2.06	15.94	27.00		2800
	012	37.1	66.7	61.8	57.2	2.11	17.18	29.18		2000
D1	014	46.0	82.7	77.8	73.2	2.30	20.87	35.62		
P1	017	58.3	104.8	99.9	95.3	2.55	25.95	44.54		
	020	63.8	114.7	109.8	105.2	2.66	28.23	48.52		
	022	70.3	126.4	121.5	116.9	2.80	30.92	53.22	j L	
	025 1)	79.3	142.5	137.6	133.1	2.99	34.64	59.74		2500
	028 1)	88.8	159.6	154.7	152.4 2)	3.18	38.58	57.22 2)	210	
	031 1)	100.0	179.7	174.9	172.5 2)	3.41	43.21	64.17 2)	210	
	Series	cm³/rev	P=0 bar	P=140 bar	P=300 bar	P=7 bar	P=140 bar	P=300 bar		
	B02	5.7	10.4	8.8	6.8	0.55	2.99	6.40		
	B03	9.8	17.6	15.9	14.0	0.63	4.65	10.25		
	B04	12.8	23.0	21.4	19.4	0.70	5.89	13.13		
	B05	15.9	28.6	26.9	25.0	0.76	7.17	16.12		
P2	B06	19.8	35.6	33.9	32.0	0.84	8.79	19.88	300	2800
rz	B07	22.5	40.4	38.8	36.8	0.89	9.91	22.47	300	2000
	B08	24.9	44.7	43.1	41.1	0.94	10.9	24.78		
	B09	28.0	50.3	48.6	47.0	1.01	12.19	27.77		
	B10	31.8	57.2	55.5	53.5	1.11	13.75	31.42		
	B11	34.9	62.9	61.2	59.3	1.15	15.04	32.22		
	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) 025-028-031=2500} rpm 3) B15=280 bar max. int.

00 rpm 2) 028-031=210 bar max. int.

--Not to use because internal leakage greater than 50% theoretical flow.

Min Speed : 600 rpm

KT7QCC1 / KT7QCC2 Ordering Code

$\underbrace{KT7QCC}_{\boxed{1}}\underbrace{\boxed{W}}_{\boxed{2}} - \underbrace{022}_{\boxed{4}} - \underbrace{1}_{\boxed{5}}\underbrace{R}_{\boxed{0}} - \underbrace{B}_{\boxed{1}}_{\boxed{0}}\underbrace{00}_{\boxed{1}} *$

- (1) Series
- (2) Mounting

1 - SAE B

2 - SAE C

- (3) Use for severe duty shaft only
- 4 Cam ring for "P1" "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

(5) Type of shaft

Internal leakage Qs [\ell /min]

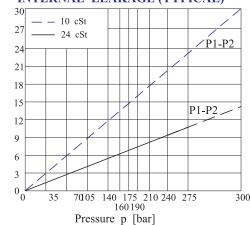
1 = keyed (no SAE)

(SAE DD) Severe duty

3 = Splined (SAE BB) 5 = Splined (SAE B)

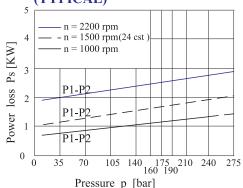
2 = keyed (SAE BB)

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.

HYDROMECHANICAL POWER LOSS (TYPICAL)



(6) Direction of rotation

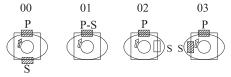
(view on shaft end)

R = clockwise

L = counter - clockwise

7 Porting combination

00 = standard



S=Suction port

P=Pressure port

8 Design letter

(9) Seal class

1 = S1 (for mineral oil)

4 = S4 (for fire resistant fluids)

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

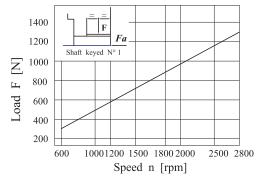
10 Mounting W/connection variables

	P1=1'	' S=3"	P1=1" S=2 1/2		
CODE P2	1"	3/4" 1)	1"	3/4" 1)	
UNC	00	01	10	11	
METRIC	0M	W0	1M	W1	

- 1) for 46 ml/rev max.
- 2) for 126 ml/rev max.

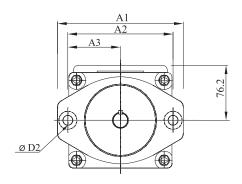
The large cartridge must be always mounted in the front.

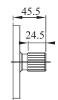
PERMISSIBLE RADIAL LOAD



Maximum permissible axial load Fa = 800 N

KT7QCC1 / KT7QCC2 Ordering Code

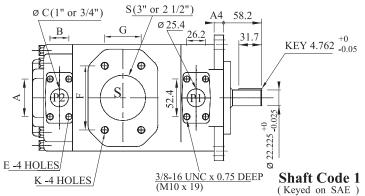


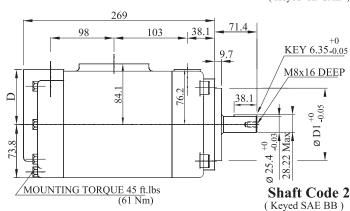


Shaft code 3SAE BB Splined shaft class 1 - J498 b 16/32 dp. -15 teeth 30° pressure angle. Flat root side fit.



Shaft code 5 SAE B Splined shaft class 1 - J498 b 16/32 dp. -13 teeth 30° pressure angle. Flat root side fit.





	Alternate Port									
		S =	3"		S = 2 1/2"					
F		100	5.4			88	3.9			
G		61	.9			50).8			
ØΗ	9H 76.2				63.5					
Code	00	01	0M	W0	10	11	1M	W1		
A	52.4	47.7	52.4	47.7	52.4	47.7	52.4	47.7		
В	26.2 22.4 26.2 22.4		22.4	26.2	22.4	26.2	22.4			
ØС	25.4 19.0 25.4 19.0		25.4	19.0	25.4	19.0				
D	74.7	76.2	74.7	76.2	74.7	76.2	74.7	76.2		
Е	3/8"-16UNCx19 deep M10x19 deep			3/8"-16UNCx19 deep M10x19 deep			9 deep			
K	5/8"-11UN	Cx28.4 deep	M16x28	8.4 deep	1/2"-13UNO	Cx23.9 deep	M12x24	4.0 deep		

Shaft torque limits($m\ell/rev x bar$)				KT7QCC1	KT7QCC2
Pump	Shaft	Vp x p max.P1+P2	Mounting	SAE B	SAE C
	1	14300	ØD1	101.6	127
KT7QCC	2	21420	Ø D2	14.3	17.5
	3	32670	A1	174.5	212.5
	5	20600	A2	146	181
			A3	73	90.5
			A4	12.7	15.7

KT7QCC OPERATING CHARACTERISTICS - TYPICAL [24 cSt]

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

Pressure	Series	Volumetric	Flow qve [\(\ell / \text{min} \)]1500rpm			Input power P [KW]1500rpm				P Max	Max	
port	Series	Displacement Vp	P = 0 bar	P=140 bar	P =240 bar	P=300 bar	P =7 bar	P=140 bar	P=240 bar	P =300 bar	Kg/cm ²	r.p.m
											-	
	005	17.2mℓ/rev	25.8	21.5	17.7	13.7	1.4	7.5	12.2	14.9		
	006	21.3mℓ/rev	31.9	26.5	22.0	18.0	1.5	8.9	14.7	18.0		
	008	26.4mℓ/rev	39.6	34.1	29.6	25.6	1.6	10.7	17.7	21.8		2800
	010	34.1mℓ/rev	51.1	45.7	41.2	37.2	1.7	13.4	22.3	27.5		
	012	37.1mℓ/rev	55.6	50.2	45.7	41.7	1.7	14.4	24.1	29.8		
P1 & P2	014	46.0mℓ/rev	69.0	63.5	59.0	55.0	1.9	17.6	29.5	36.5		
	017	58.3mℓ/rev	87.4	82.0	77.5	73.5	2.1	21.9	36.9	45.7		
	020	63.8mℓ/rev	95.7	90.2	85.7	81.7	2.2	23.8	40.2	49.8		
	022	70.3mℓ/rev	105.4	100.0	95.5	91.5 2)	2.3	26.1	44.1	50.3 2)		
	025 1)	79.3mℓ/rev	118.9	113.5	109.0 3)		2.5	29.2	49.5 3)		240	
	028 1)	88.8mℓ/rev	133.2	127.7	124.5 4)		2.8	32.7	48.5 4)		210	2500
	031 1)	100.0mℓ/rev	150.0	144.5	141.3 4)		2.8	36.5	54.4 4)		210	

- 1) 025 028 031 = 2500 rpm. max
- 3) 025 = 240 bar max. int.
- 2) 022 = 275 bar max. int.
- 4) 028 031 = 210 bar max. int.
- Min Speed : 600 rpm

KT7QDC **Ordering Code**

KT7QDC - B38 - 022 - 1 R 00 - A 1 - 00 - *

P2 (3)(4)(5) (6)(7) (8) (9) P1 (2)

- (1) Series
- (2) Cam ring for "P1"

Volumetric displacement (cm³/rev) B14=43.9 B35=113.4 B17=55.0 B38=120.6 B20=66.0B42=137.5 B24 = 81.1B45=145.7 B28=89.9 B50=157.9 B31=99.1

(1)

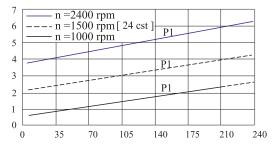
Cam ring for "P2"

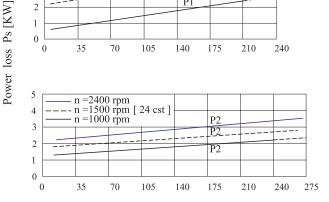
Volumetric displacement (cm³/rev)

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

- **3** Type of shaft
 - 1 = Keyed (SAE C)
 - 2 = Keyed (SAE CC)
 - 3 = Splined (SAEC)

HYDROMECHANICAL POWER LOSS (TYPICAL)





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

(4) Direction of

(view on shaft end)

rotation

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)

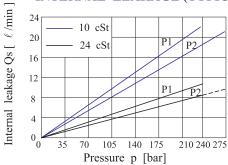
5 = S5 (for mineral oil and fire resistant fluids)

Mounting W / connection variables

	Uì	VС	METRIC		
	00	01	M0	M1	
P2	1"	3/4"	1"	3/4"	

Modifications

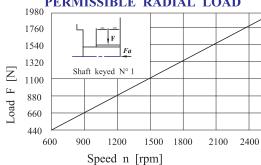
INTERNAL LEAKAGE (TYPICAL)



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

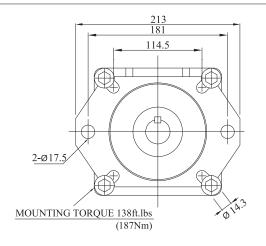
Total leakage is the sum of each section loss at its operating conditions.

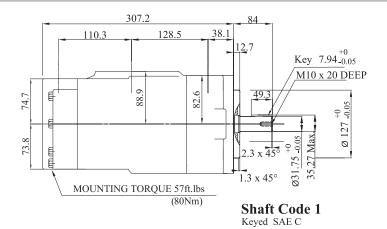
PERMISSIBLE RADIAL LOAD



Maximum permissible axial load Fa = 1200 N

KT7QDC Dimensional Drawing







M16 x 28.4 DEEP-4 HOLES (5/8-11 UNC x 1.12) A 777.8 P2 B B B B B B B B B B B B B B B B B B	2.3 x 45°
/ øC <u>/ø76.</u> 2	Shaft Code 3
 /	SAE C Splined shaft
/M10 x 19 DEEP-4 HOLES	class 1 - J498 b
(3/8-16UNC x 0.75)	12/24 dp14 teeth
	30° pressure angle.

Flat root side fit.

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

Shaft torque limits (m l/rev x bar)						
Pump	Shaft	Vp x p max.P1+P2				
	1	43240				
KT7QDC	2	61200				
	3	35880				

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

Pressure	Pressure Series Volumetric		Flow	Flow q & n=1800rpm			Input power p & n=1800rpm			Max
Port	Series	Displacement Vp	[p] (ℓ/min)			(KW)			P Max ₂ Kg/cm	r.p.m
		cm ³ /rev	P=0 bar	P=140 bar	P=250 bar	P=7 bar	P=140 bar	P=250 bar	11g/ 0111	1.p.m
	B14	43.9	79.1	72.5	67.3	2.6	20.7	35.0		
	B17	55.0	98.8	92.3	87.0	2.8	25.3	43.0		
	B20	66.0	118.6	112.0	106.8	3.0	29.8	50.9		
	B24	81.1	145.8	139.2	134.0	3.4	36.1	61.9		
P1	B28	89.9	161.8	155.2	150.0	3.5	39.7	68.3	250	2500
LI	B31	99.1	178.3	171.7	166.5	3.7	43.6	75.0	230	2300
	B35	113.4	203.9	197.2	192.0	4.0	49.4	85.3		
	B38	120.6	216.8	210.2	204.9	4.2	52.4	90.5		
	B42	137.5	247.2	240.6	235.4	4.5	59.4	102.7		
	B45	145.7	261.9	253.6	246.8	5.0	62.4	108.7		2200
	B50	157.9	284.1	275.8	271.3 1)	5.3	67.5	100.3 1)	210	2200
	Series	cm³/rev	P=0 bar	P=140 bar	P=300 bar	P=7 bar	P=140 bar	P=300 bar		
	005	17.2	30.9	26.0	16.44	1.70	8.94	17.88		
	006	21.3	38.3	33.4	21.6	1.78	10.64	21.6]	
	008	26.4	47.4	42.6	30.72	1.89	12.75	26.16		
	010	34.1	61.3	56.4	44.64	2.06	15.94	33.0		
P2	012	37.1	66.7	61.8	50.04	2.11	17.18	35.4	275	2500
1 2	014	46.0	82.7	77.8	66.0	2.30	20.87	43.8	2,0	
	017	58.3	104.8	99.9	88.2	2.55	25.95	54.84	240	
	020	63.8	114.7	109.8	98.04	2.66	28.23	59.76		
	022	70.3	126.4	121.5	109.8 2)	2.80	30.92	60.36 2)		
	025	79.3	142.5	137.6		2.99	34.64			
	028	88.8	159.6	154.7		3.18	38.58			
	031	100.0	179.7	174.9		3.41	43.21			

1) B50=210 bar max. int.

2) 022=240 bar max. int.

Min Speed: 600 rpm

KT6DCC Ordering Code

(6)(7) (8)(9)

KT6DCC - 038 - 022 - 008 - 1 R 00 - A 1 - 00 *

P1 P2 P3 2

- (1) Series
- (2) Cam ring for " P1 "

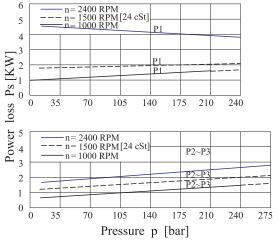
Volumetric displacement (cm³/rev)

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	061=190.5

Cam ring for " P2 " & " P3 "

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

HYDROMECHANICAL POWER LOSS (TYPICAL)



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

(3) Type of shaft

(3)(4)(5)

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

(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)

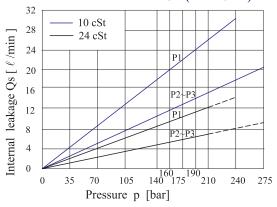
5-S5 (for mineral oil and fire resistant fluids)

8 Mounting W/connection variables

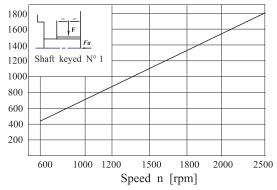
	U	nc	Me	tric
	00	01	M0	M1
Р3	1"	3/4"	1"	3/4"

(9) Modifications

INTERNAL LEAKAGE (TYPICAL)



PERMISSIBLE RADIAL LOAD



Maximum permissible axial load Fa = 1200 N