KT6C- * 014 - 1 R 00 - B 1 *
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

① Series

② Y- Metric port connection ,
Omit for UNC

③ Cam ring
Volumetric displacement (cm^3/rev)

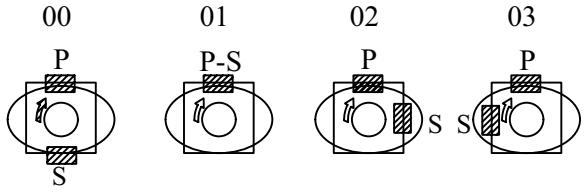
003=10.8
005=17.2
006=21.3
008=26.4
010=34.1
012=37.1
014=46.0
017=58.3
020=63.8
022=70.3
025=79.3
028=88.8
031=100.0

④ Type of shaft
1= keyed (SAE B)

2= keyed (no SAE)

3= Splined (SAE B)

4= Splined (SAE BB)



S=Suction port **P=Pressure port**

⑤ Direction of rotation
(view on shaft end)

R=clockwise
L=counter-clockwise

⑥ Porting combination
00=standard

⑦ Design letter

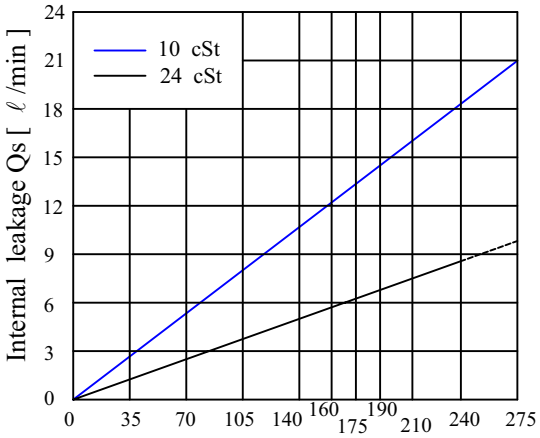
⑧ Seal class
1 = S1 (for mineral oil)

4 = S4 (for fire resistant fluids)

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

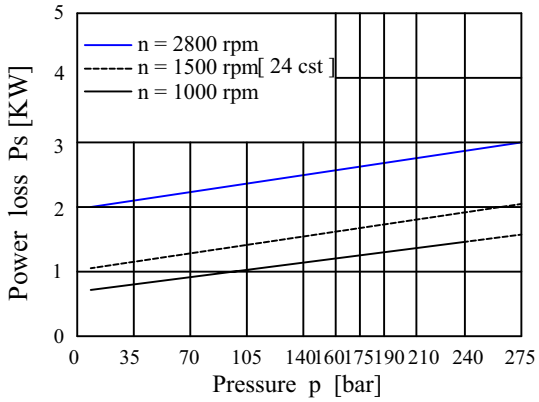
⑨ Modifications

INTERNAL LEAKAGE (TYPICAL)

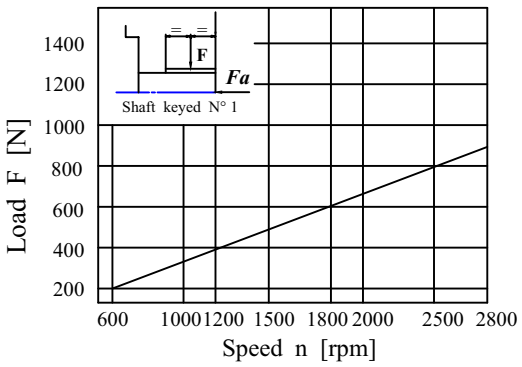


Do not operate pump more than5 seconds at any speed or viscosity if internal leakage is more than 50 % of theoretical flow.

HYDROMECHANICAL POWER LOSS (TYPICAL)

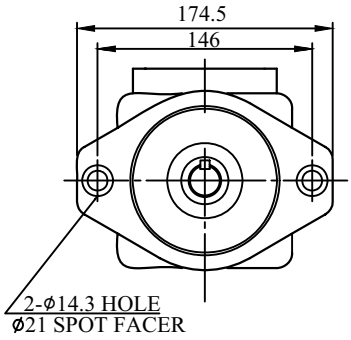


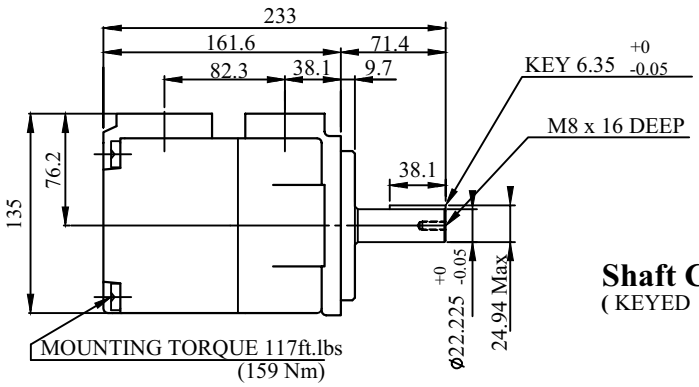
PERMISSIBLE RADIAL LOAD



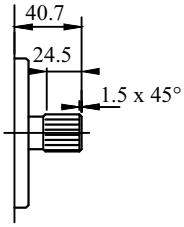
Maximum permissible axial load Fa = 800 N

KT6C Dimensional Drawing

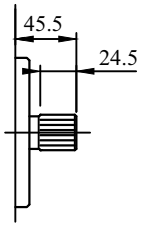




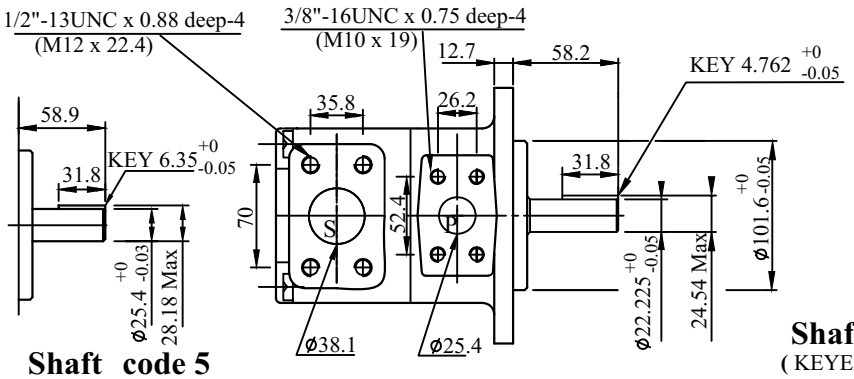
Shaft Code 1
(KEYED SAE B)



Shaft code 3
SAE B splined shaft
Class 1-J498 b 16/32
d.p. -13 teeth 30°
pressure angle flat root
side fit



Shaft code 4
SAE BB splined shaft
Class 1-J498 16/32
d.p. -15 teeth 30°
pressure angle flat
root side fit



Shaft code 5

Shaft Code 2
(KEYED NO SAE)

Shaft torque limits(mℓ/rev x bar)		
Pump	Shaft	Vp x p max
KT6C	1	16500
	2	14300
	3	20600
	4	20600

KT6C OPERATING CHARACTERISTICS - TYPICAL [24 cSt]

Series	Volumetric Displacement Vp	Speed n [R.P.M]	Flow qve [ℓ/min]=1500rpm			Input power P [KW]=1500rpm			P Max Kg/cm²	Max r.p.m
			p = 0 bar	p = 140 bar	p = 240 bar	p =7 bar	p = 140 bar	p = 240 bar		
003	10.8mℓ/rev	1500	16.2	10.7	-	1.3	5.3	-	275	2800
005	17.2mℓ/rev	1500	25.8	20.8	17.3	1.4	7.5	12.2		
006	21.3mℓ/rev	1500	31.9	26.9	23.4	1.5	8.9	14.7		
008	26.4mℓ/rev	1500	39.6	34.6	31.1	1.6	10.7	17.7		
010	34.1mℓ/rev	1500	51.1	46.1	42.6	1.7	13.4	22.3		
012	37.1mℓ/rev	1500	55.6	50.6	47.1	1.7	14.4	24.1		
014	46.0mℓ/rev	1500	69.0	64.0	60.5	1.9	17.6	29.5		
017	58.3mℓ/rev	1500	87.4	82.4	78.9	2.1	21.9	36.9		
020	63.8mℓ/rev	1500	95.7	90.7	87.2	2.2	23.8	40.2		
022	70.3mℓ/rev	1500	105.4	100.4	96.9	2.3	26.1	44.1		
025 1)	79.3mℓ/rev	1500	118.9	113.9	110.4	2.5	29.2	49.5		2500
028 1)	88.8mℓ/rev	1500	133.2	128.2	125.8 2)	2.8	32.7	48.5 2)	210	
031 1)	100.0mℓ/rev	1500	150.0	145.0	142.6 2)	2.8	36.5	54.4 2)		

1) 025 - 028 - 031 = 2500 R.P.M.max

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

Min Speed ： 600 rpm

KT6CP 014 - 1 R 00 - B 1 *
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① Series

② Cam ring
Volumetric displacement (cm^3/rev)
B14=46.0
B17=58.3
B20=63.8
B22=70.3
B25=79.3
B28=88.8
B31=100.0

③ Type of shaft
2= keyed (no SAE)
3= Splined (SAE C)
X= Splined

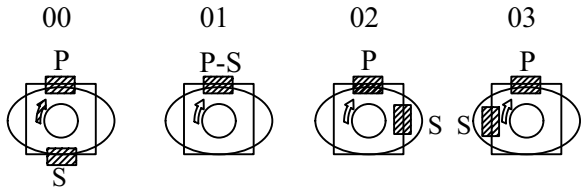
④ Direction of rotation
(view on shaft end)
R=clockwise
L=counter-clockwise

⑤ Porting combination
00=standard

⑥ Design letter

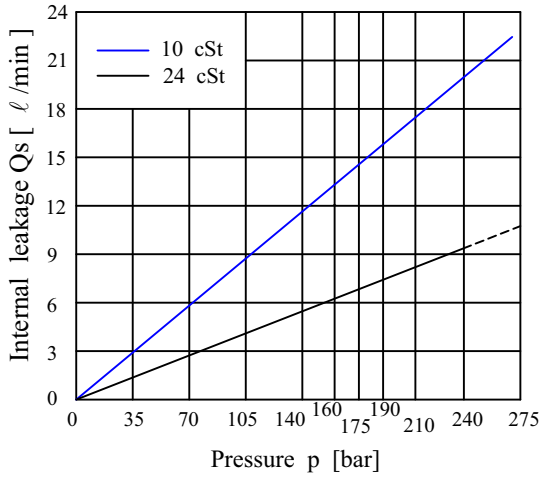
⑦ Seal class
1 = S1 (for mineral oil)
4 = S4 (for fire resistant fluids)
5 = S5 (for mineral oil and fire resistant fluids)

⑧ Modifications



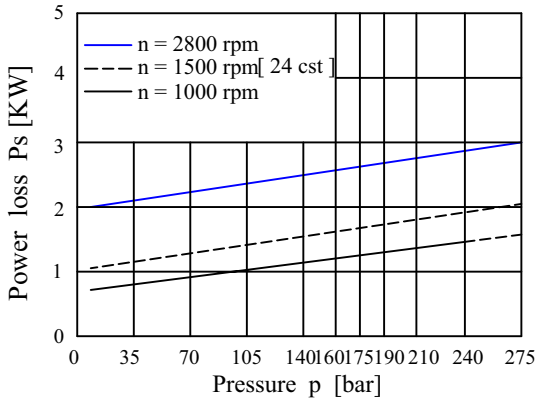
S=Suction port **P=Pressure port**

INTERNAL LEAKAGE (TYPICAL)

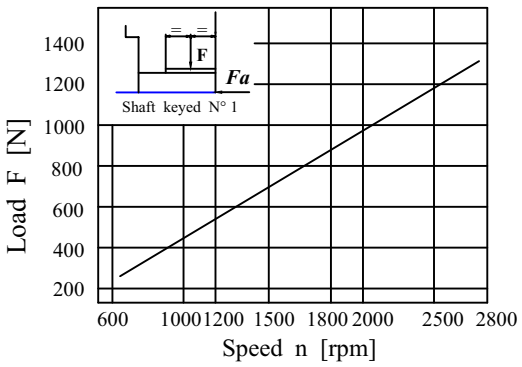


Do not operate pump more than5 seconds at any speed or viscosity if internal leakage is more than 50 % of theoretical flow.

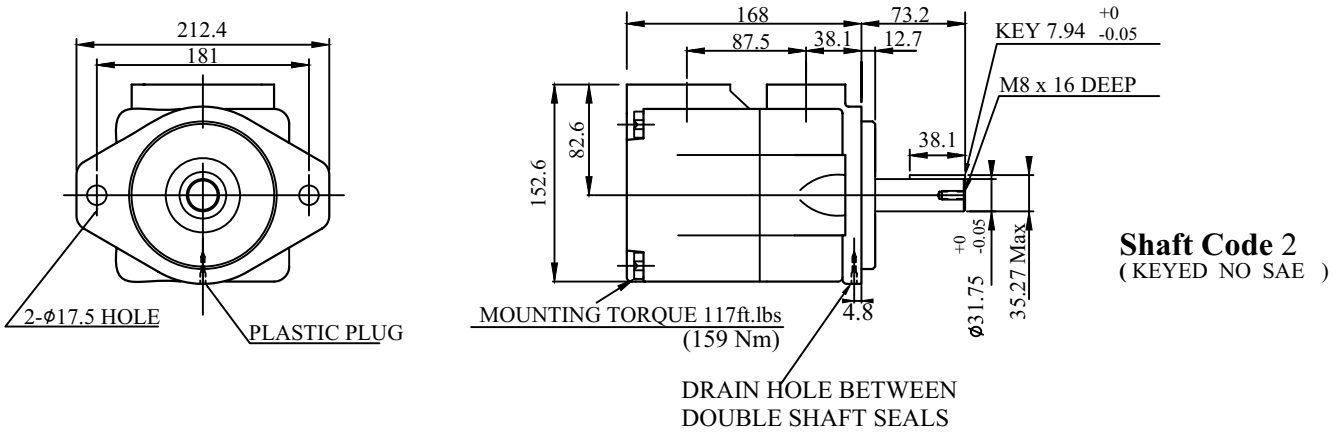
HYDROMECHANICAL POWER LOSS (TYPICAL)



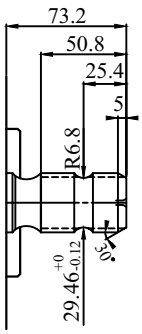
PERMISSIBLE RADIAL LOAD



Maximum permissible axial load Fa = 800 N

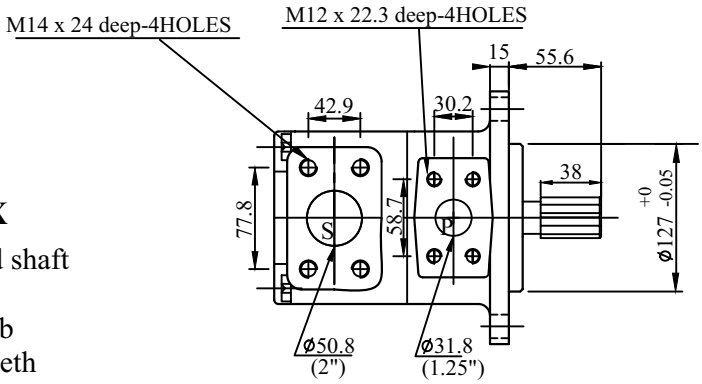


Shaft Code 2
(KEYED NO SAE)



Shaft Code X

ASAE splined shaft
dec.1996
Class 1 - J498 b
16/32 dp. 21 teeth
30° pressure angle
Flat root side fit / type 2



Shaft Code 3

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

OPERATING CHARACTERISTICS - TYPICAL [24 cSt]

Series	Volumetric Displacement Vp	Flow q [l/min] n=1500 rpm			Input power P [KW] n=1500 rpm			P Max	Max
		p = 0 bar	p = 140 bar	p = 240 bar	p =7 bar	p = 140 bar	p = 240 bar	Kg/cm²	r.p.m
014	46.0 mℓ/rev	69.0	63.5	59.0	1.9	17.6	29.5	275	2800
017	58.3 mℓ/rev	87.4	82.0	77.5	2.1	21.9	36.9		
020	63.8 mℓ/rev	95.7	90.2	85.7	2.2	23.8	40.2		
022	70.3 mℓ/rev	105.4	100.0	95.5	2.3	26.1	44.1		
025 1)	79.3 mℓ/rev	118.9	113.5	109.0	2.5	29.2	49.5		2500
028 1)	88.8 mℓ/rev	133.2	127.7	124.5 2)	2.8	32.7	48.5 2)	210	
031 1)	100.0 mℓ/rev	150.0	144.5	141.3 2)	2.8	36.5	54.4 2)		

1) 025 - 028 - 031 = 2500 R.P.M.max 2) 028 - 031 = 210 bar max. int. Min Speed ： 600 rpm

KT6CP1 014 - 1 R 00 - B 1 *
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① Series

② Cam ring
Volumetric displacement (cm^3/rev)
B14=46.0
B17=58.3
B20=63.8
B22=70.3
B25=79.3
B28=88.8
B31=100.0

③ Type of shaft
2= keyed (no SAE)

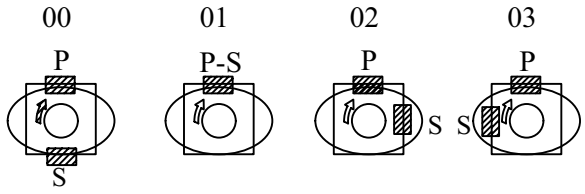
④ Direction of rotation
(view on shaft end)
R=clockwise
L=counter-clockwise

⑤ Porting combination
00=standard

⑥ Design letter

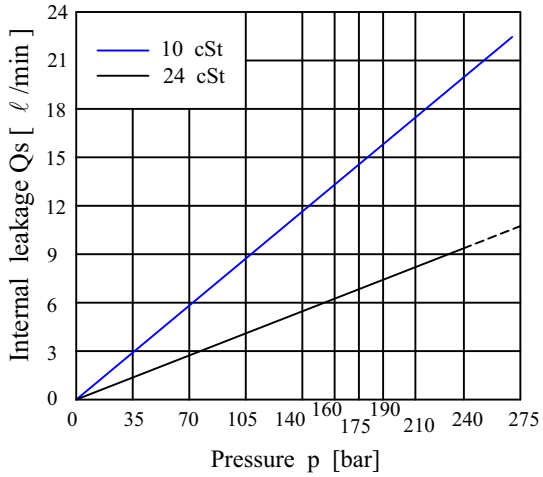
⑦ Seal class
1 = S1 (for mineral oil)
4 = S4 (for fire resistant fluids)
5 = S5 (for mineral oil and fire resistant fluids)

⑧ Modifications



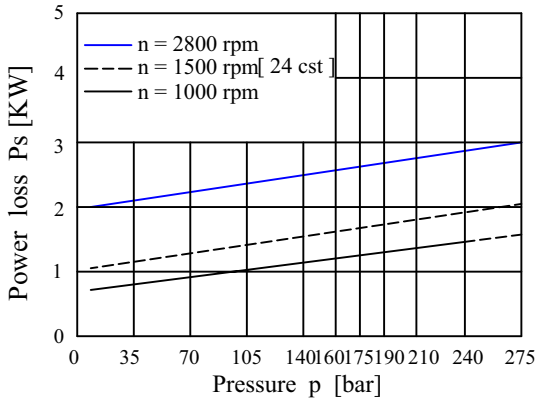
S=Suction port **P=Pressure port**

INTERNAL LEAKAGE (TYPICAL)

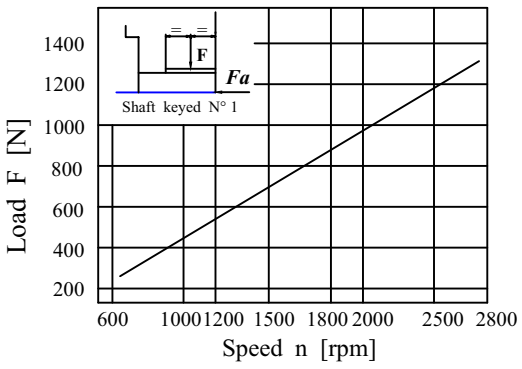


Do not operate pump more than5 seconds at any speed or viscosity if internal leakage is more than 50 % of theoretical flow.

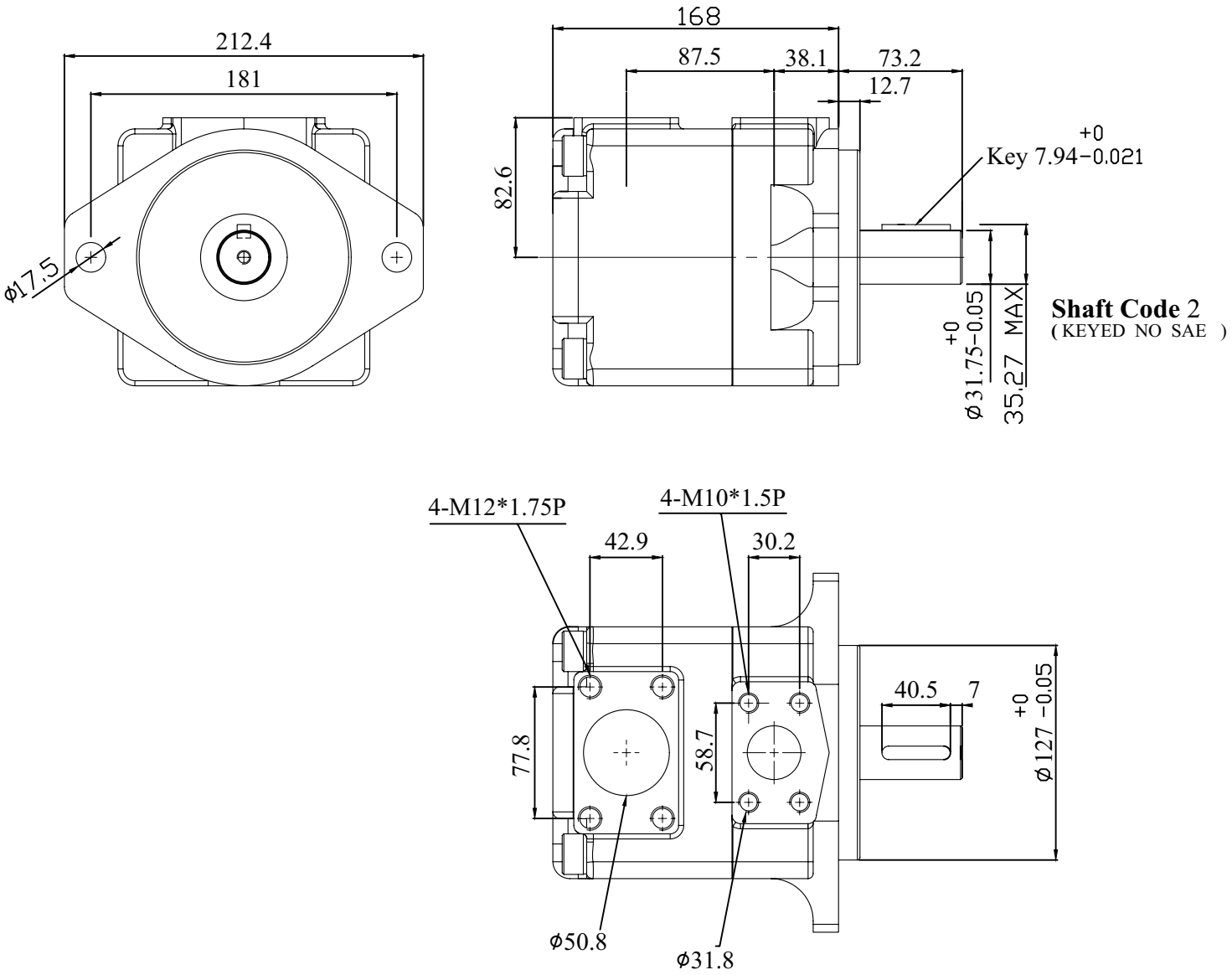
HYDROMECHANICAL POWER LOSS (TYPICAL)



PERMISSIBLE RADIAL LOAD



Maximum permissible axial load Fa = 800 N



OPERATING CHARACTERISTICS - TYPICAL [24 cSt]

Series	Volumetric Displacement Vp	Flow q [l/min] n=1500 rpm			Input power P [KW] n=1500 rpm			P Max Kg/cm²	Max r.p.m
		p = 0 bar	p = 140 bar	p = 240 bar	p =7 bar	p = 140 bar	p = 240 bar		
014	46.0 mℓ/rev	69.0	63.5	59.0	1.9	17.6	29.5	275	2800
017	58.3 mℓ/rev	87.4	82.0	77.5	2.1	21.9	36.9		
020	63.8 mℓ/rev	95.7	90.2	85.7	2.2	23.8	40.2		
022	70.3 mℓ/rev	105.4	100.0	95.5	2.3	26.1	44.1		
025 1)	79.3 mℓ/rev	118.9	113.5	109.0	2.5	29.2	49.5		2500
028 1)	88.8 mℓ/rev	133.2	127.7	124.5 2)	2.8	32.7	48.5 2)	210	
031 1)	100.0 mℓ/rev	150.0	144.5	141.3 2)	2.8	36.5	54.4 2)		

1) 025 - 028 - 031 = 2500 R.P.M.max 2) 028 - 031 = 210 bar max. int. Min Speed ： 600 rpm

KT6D * - 045 - 1 R 00 - B 1 *
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

① Series

② Y - Metric port connection (not for code Q)
Omit for UNC

③ Cam ring
Volumetric displacement (cm^3/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

④ Type of shaft
1 = keyed (SAE C)

2 = keyed (no SAE)

3 = splined (SAE C)

4 = splined (no SAE)

⑤ Direct. of rotation
(view on shaft end)
R=clockwise
L=counter-clockwise

⑥ Porting combination
00=Standard

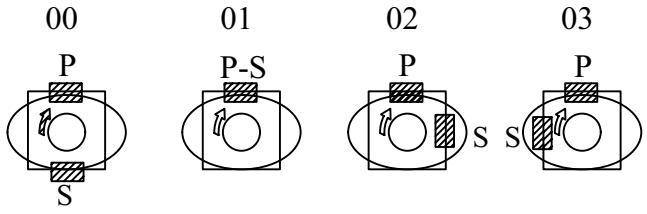
⑦ Design letter

⑧ Seal class
1 = S1 (for mineral oil)

4 = S4 (for fire resistant fluids)

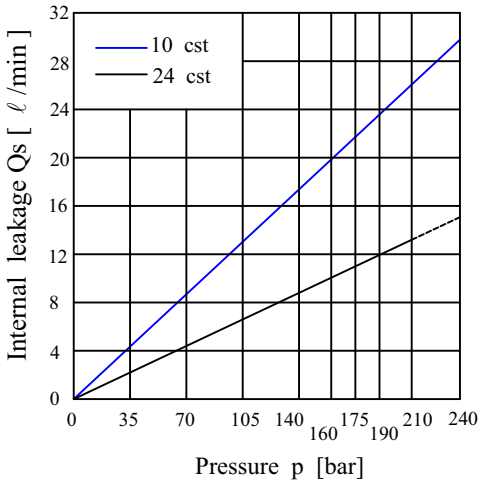
5 = S5 (for mineral oil and fire resistant fluids)

⑨ Modifications

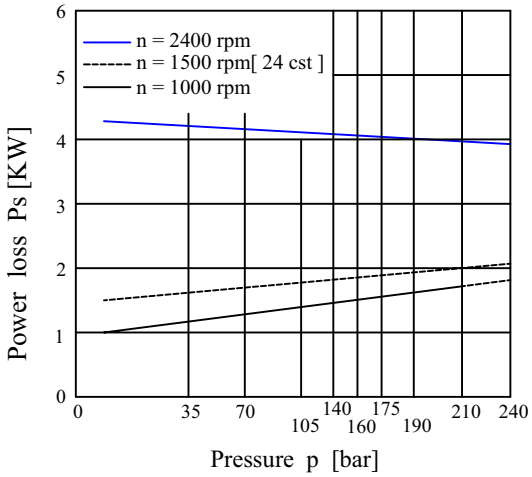


S=Suction port **P=Pressure port**

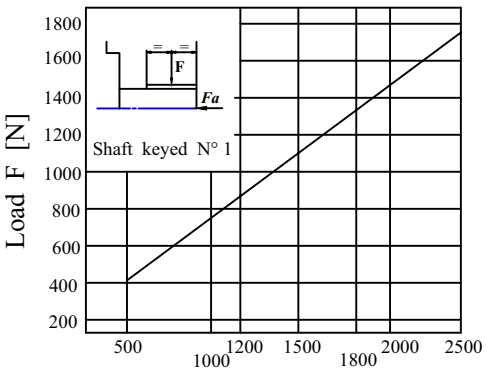
INTERNAL LEAKAGE (TYPICAL)



HYDROMECHANICAL POWER LOSS (TYPICAL)

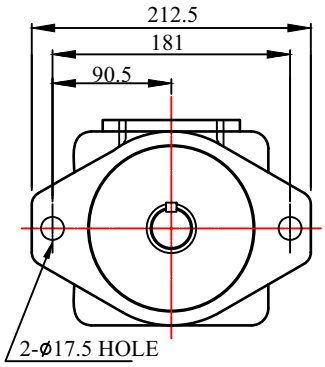


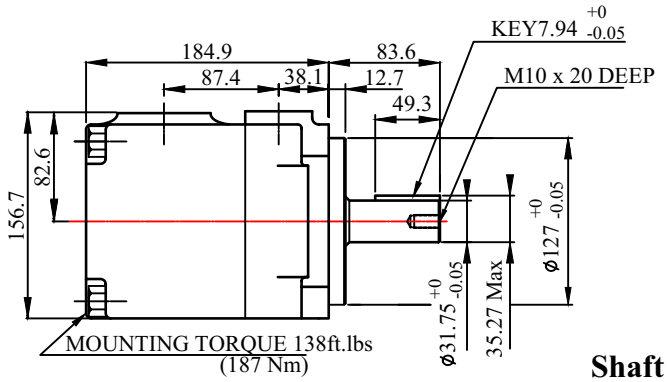
PERMISSIBLE RADIAL LOAD



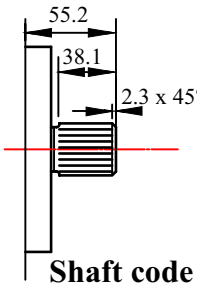
Maximum permissible axial load Fa = 1200 N

KT6D Dimensional Drawing

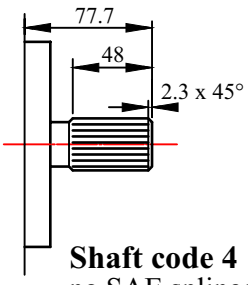




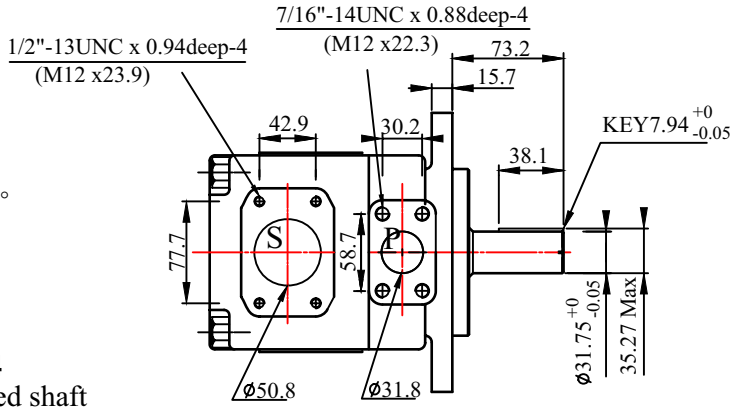
Shaft Code 1
(Keyed SAE C)



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
no SAE splined shaft
Class 1 - J498 b
12/24 dp. -14 teeth
30° pressure angle
Flat root side fit.



Shaft Code 2
(Keyed no SAE)

Shaft torque limits (ml/rev x bar)		
Pump	Shaft	Vp x p max
KT6D	1	43283
	2	34590
	3	61200
	4	61200

OPERATING CHARACTERISTICS - TYPICAL [24 cSt]

Series	Volumetric Displacement Vp	Speed n [R.P.M]	Flow qve [ℓ/min]=1500 rpm			Input power P [KW]=1500 rpm			P Max Kg/cm²	Max r.p.m
			p = 0 bar	p = 140 bar	p = 240 bar	p =7 bar	p = 140 bar	p = 240 bar		
014	47.6mℓ/rev	1500	71.4	62.1	55.9	2.3	18.5	30.6	240	2500
017	58.2mℓ/rev	1500	87.3	78.0	71.8	2.5	22.2	37.0		
020	66.0mℓ/rev	1500	99.0	89.7	83.5	2.8	24.9	41.7		
024	79.5mℓ/rev	1500	119.3	110.0	103.8	3.0	29.6	49.8		
028	89.7mℓ/rev	1500	134.5	125.2	119.0	3.2	33.2	55.9		
031	98.3mℓ/rev	1500	147.5	138.1	131.9	3.3	36.2	61.0		
035	111.0mℓ/rev	1500	166.5	157.2	151.0	3.5	40.7	68.7		
038	120.3mℓ/rev	1500	180.4	171.1	164.9	3.7	43.9	74.3		
042 1)	136.0mℓ/rev	1500	204.0	194.7	188.5	4.0	49.4	83.7		2200
045 1)	145.7mℓ/rev	1500	218.5	209.2	203.0	4.1	52.8	89.5		
050 1)	158.0mℓ/rev	1500	237.0	227.7	224.0 2)	4.4	57.0	85.0 2)	210	
061 1)	190.5mℓ/rev	1500	285.7	278.0 3)	———	4.6	60.6 3)	———	120	

1) 042 - 045 - 050 - 061 = 2200 R.P.M.max 2) 050 = 210 bar max. int. 3) 060 = 120 bar max. int. Min Speed ： 600 rpm

KT6DS - 045 - 1 R 00 - B 1 *
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① Series

② Cam ring

Volumetric displacement (cm^3/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	

③ Type of shaft

1 = keyed (SAE C)

2 = keyed (no SAE)

3 = splined (SAE C)

4 = splined (no SAE)

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

⑤ Porting combination
00=Standard

⑥ Design letter

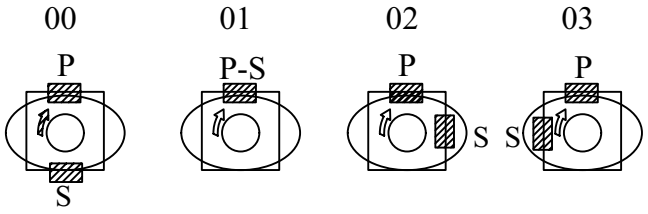
⑦ Seal class

1 = S1 (for mineral oil)

4 = S4 (for fire resistant fluids)

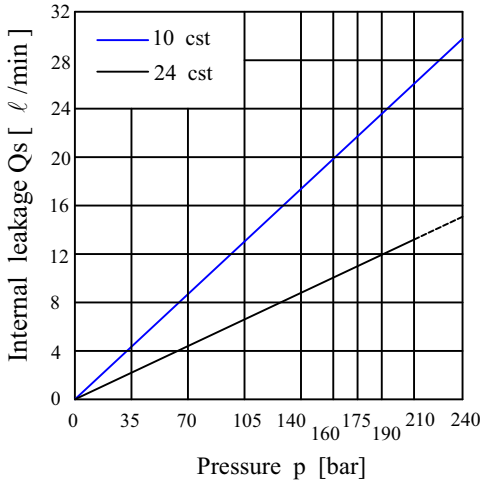
5 = S5 (for mineral oil and fire resistant fluids)

⑧ Modifications

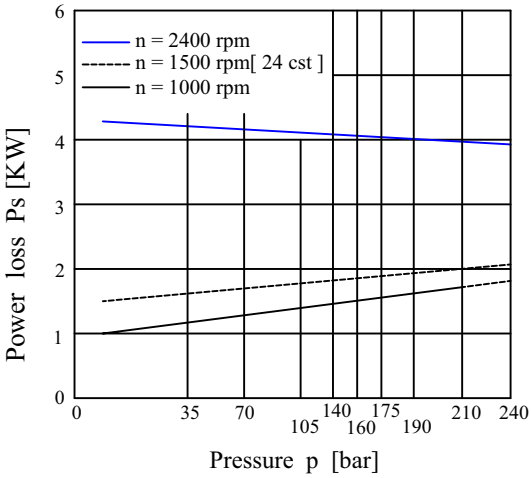


S=Suction port **P=Pressure port**

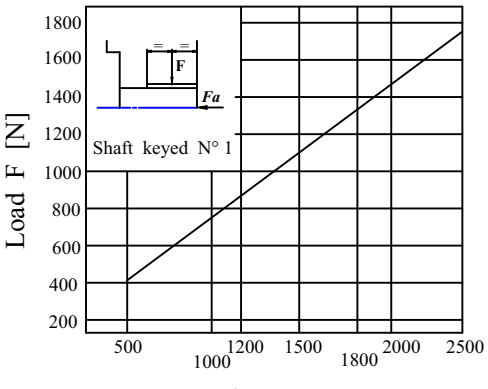
INTERNAL LEAKAGE (TYPICAL)



HYDROMECHANICAL POWER LOSS (TYPICAL)

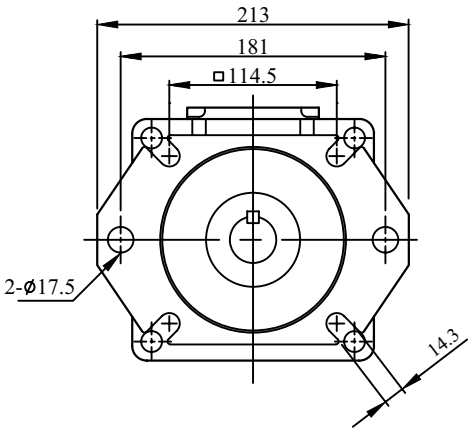


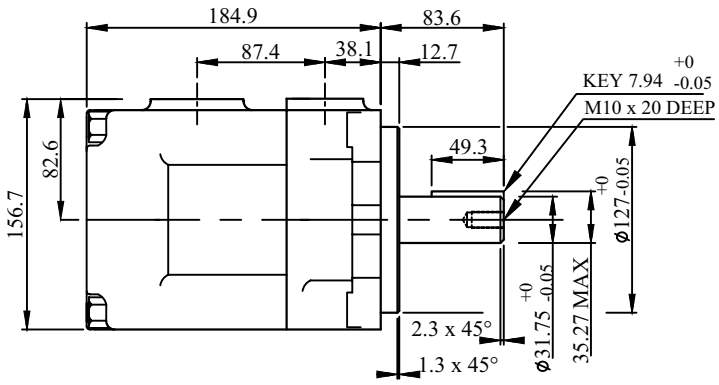
PERMISSIBLE RADIAL LOAD



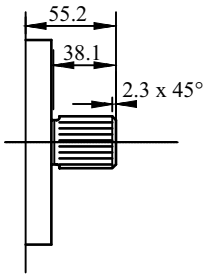
Maximum permissible axial load Fa = 1200 N

KT6DS Dimensional Drawing

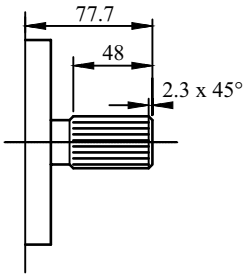




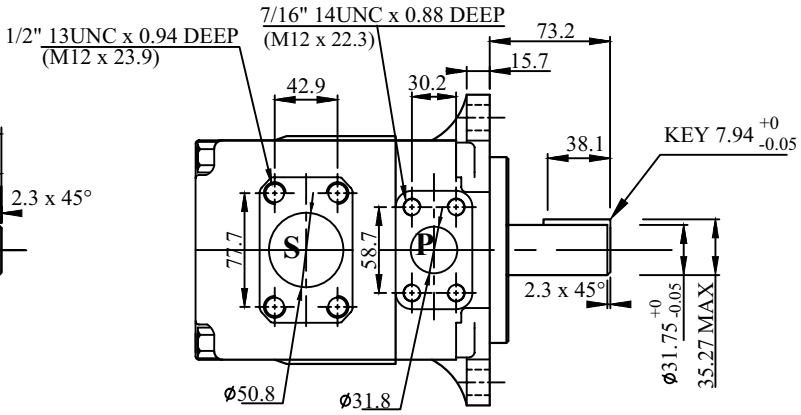
Shaft code 1
(Keyed SAE C)



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
NO SAE splined shaft
Class 1 - J498 b 12/24
d.p. -14 teeth 30°
pressure angle Flat root
side fit.



Shaft code 2
(Keyed no SAE)

Shaft torque limits (mℓ/rev x bar)		
Pump	Shaft	Vp x p max
KT6DS	1	43283
	2	34590
	3	61200
	4	61200

OPERATING CHARACTERISTICS - TYPICAL [24 cSt]

Series	Volumetric Displacement Vp	Speed n [R.P.M]	Flow qve [ℓ/min]=1500 rpm			Input power P [KW]=1500 rpm			P Max Kg/cm²	Max r.p.m
			p = 0 bar	p = 140 bar	p = 240 bar	p =7 bar	p = 140 bar	p = 240 bar		
014	47.6mℓ/rev	1500	71.4	62.1	55.9	2.3	18.5	30.6	240	2500
017	58.2mℓ/rev	1500	87.3	78.0	71.8	2.5	22.2	37.0		
020	66.0mℓ/rev	1500	99.0	89.7	83.5	2.8	24.9	41.7		
024	79.5mℓ/rev	1500	119.3	110.0	103.8	3.0	29.6	49.8		
028	89.7mℓ/rev	1500	134.5	125.2	119.0	3.2	33.2	55.9		
031	98.3mℓ/rev	1500	147.5	138.1	131.9	3.3	36.2	61.0		
035	111.0mℓ/rev	1500	166.5	157.2	151.0	3.5	40.7	68.7		
038	120.3mℓ/rev	1500	180.4	171.1	164.9	3.7	43.9	74.3		
042 1)	136.0mℓ/rev	1500	204.0	194.7	188.5	4.0	49.4	83.7		2200
045 1)	145.7mℓ/rev	1500	218.5	209.2	203.0	4.1	52.8	89.5		
050 1)	158.0mℓ/rev	1500	237.0	227.7	224.0 2)	4.4	57.0	85.0 2)	210	
061 1)	190.5mℓ/rev	1500	285.7	278.0 3)	———	4.6	60.6 3)	———	120	

1) 042 - 045 - 050 - 061 = 2200 R.P.M.max 2) 050 = 210 bar max. int. 3) 060 = 120 bar max. int. Min Speed : 600 rpm

KT6E ① * ② - 066 ③ - 3 ④ R ⑤ 00 ⑥ - A ⑦ 1 ⑧ * ⑨

① **Series**

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

③ **Cam ring**
Volumetric displacement (cm^3/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	

④ **Type of shaft**
1 = keyed (SAE CC)
2 = keyed (no SAE)
3 = splined (SAE C)
4 = splined (SAE CC)

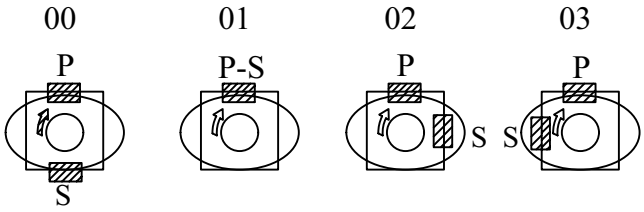
⑤ **Direction of rotation**
(view on shaft end)
R=clockwise
L=counter-clockwise

⑥ **Porting combination**
00=standard

⑦ **Design letter**

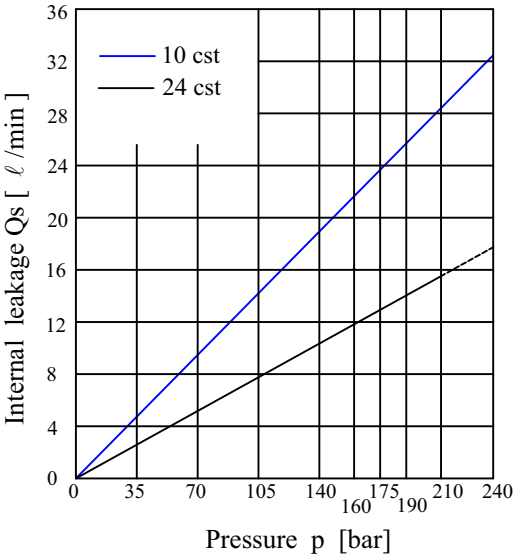
⑧ **Seal class**
1=S1 (for mineral oil)
4=S4 (for fire resistant fluids)
5=S5 (for mineral oil and fire resistant fluids)

⑨ **Modifications**

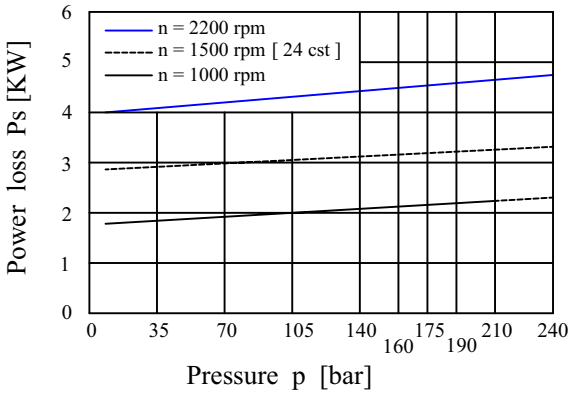


S=Suction port **P=Pressure port**

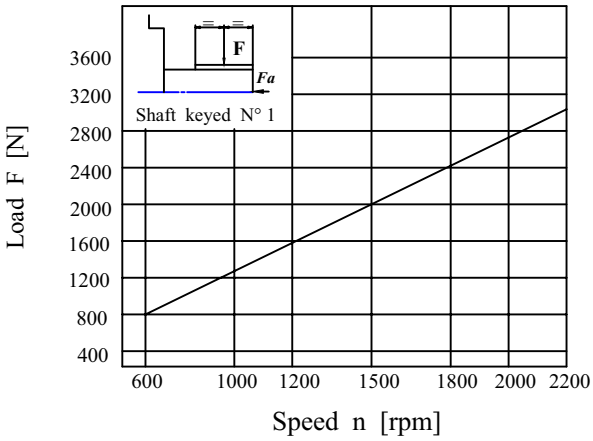
INTERNAL LEAKAGE (TYPICAL)



HYDROMECHANICAL POWER LOSS (TYPICAL)

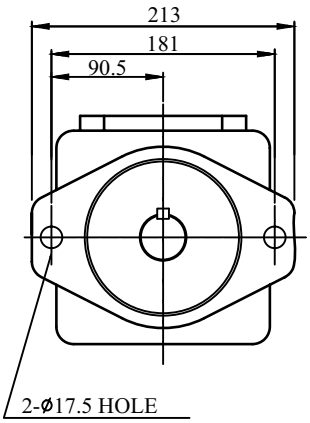


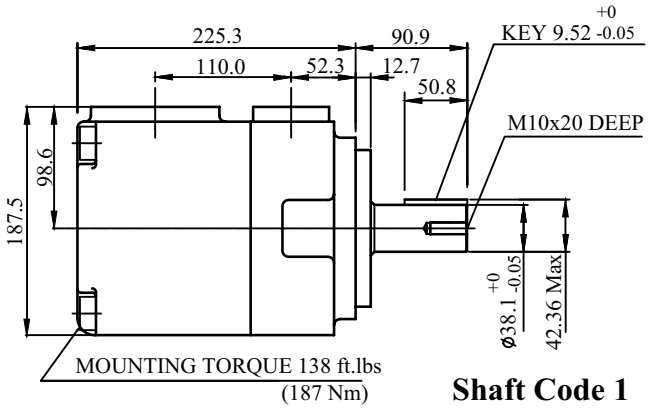
PERMISSIBLE RADIAL LOAD



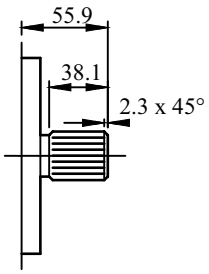
Maximum permissible axial load Fa = 2000 N

KT6E Dimensional Drawing

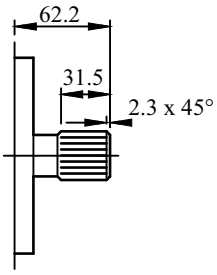




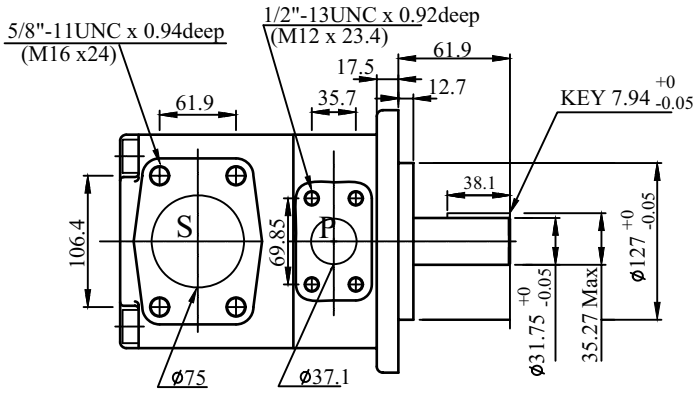
Shaft Code 1
(Keyed SAE CC)



Shaft code 3
SAE C Splined shaft
class 1 - J498b 12/24
dp. -14 teeth 30°
pressure angle. Flat root
side fit.



Shaft code 4
SAE CC Splined shaft
class 1 - J498b 12/24
dp. -17 teeth 30°
pressure angle. Flat root
side fit.



Shaft Code 2
(Keyed no SAE)

shaft torque limits(mℓ/rev x bar)		
Pump	Shaft	Vp x P max.
KT6E	1	54555
	2	34590
	3	61200
	4	61200

KT6E OPERATING CHARACTERISTICS - TYPICAL [24 cSt]

Series	Volumetric Displacement Vp	Speed n [R.P.M]	Flow qve [ℓ/min]			Input power P [KW]			P Max Kg/cm^2	Max r.p.m
			p = 0 bar	p =140 bar	p =240 bar	p =7 bar	p =140 bar	p =240 bar		
042	132.3mℓ/rev	1500	198.5	188.5	181.3	5.2	49.4	82.6	240	2200
045	142.4mℓ/rev	1500	213.6	203.6	196.5	5.4	52.9	88.7		
050	158.5mℓ/rev	1500	237.7	227.7	220.6	5.7	58.5	98.3		
052	164.8mℓ/rev	1500	247.2	237.2	230.1	5.8	60.8	102.1		
057	180.7mℓ/rev	1500	271.1	261.1	254.0	6.1	66.4	106.9		
062	196.7mℓ/rev	1500	295.0	285.0	277.9	6.4	71.9	121.3		
066	213.3mℓ/rev	1500	319.9	309.9	302.8	6.7	77.7	131.2		
072	227.1mℓ/rev	1500	340.6	330.6	323.5	6.9	82.6	139.5		
085 1)	269.8mℓ/rev	1500	404.7 2)	397.7	———	7.3 2)	65.3 2)	———	90	2000

1) 085 = 2000 rpm max. 2) 085 = 75 bar cont. 085=90bar max. int

Min Speed ： 600 rpm

KT6GC - 022 - 6 R 00 - A 1 - 00 *
① ② ③④ ⑤ ⑥⑦ ⑧ ⑨

① Series

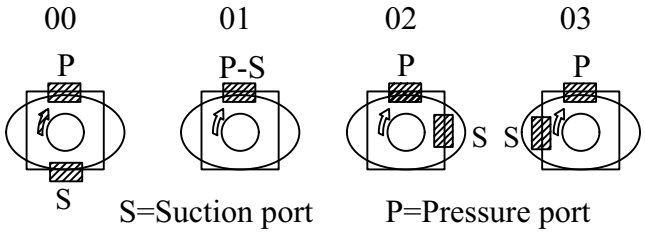
② Cam ring
Volumetric displacement (cm³/rev)

B03=10.8	B17=58.3
B05=17.2	B20=63.8
B06=21.3	B22=70.3
B08=26.4	B25=79.3
B10=34.1	B28=88.8
B12=37.1	B31=100.0
B14=46.0	

③ Type of shaft
6-splined (DIN 5462)

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

⑤ Porting combination
00-standard



S=Suction port P=Pressure port

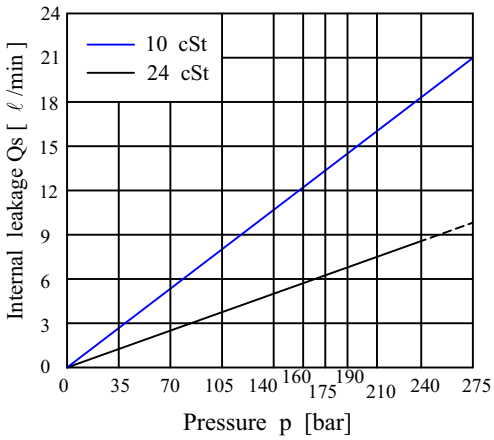
⑥ Design letter

⑦ Seal class
1-S1

⑧ Mounting W/connection variables
00-Flange 1" BSPP
01-Flange 1" SAE 4 bolts(UNC)
M1-Flange 1" SAE 4 bolts(METRIC)

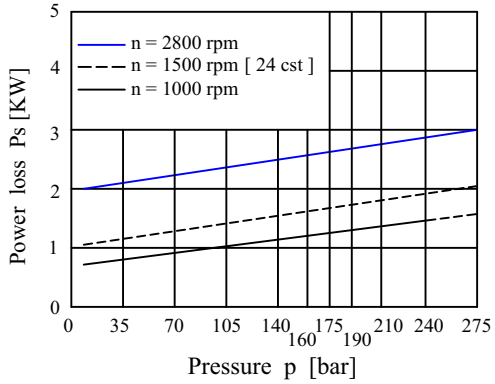
⑨ Modifications

INTERNAL LEAKAGE (TYPICAL)

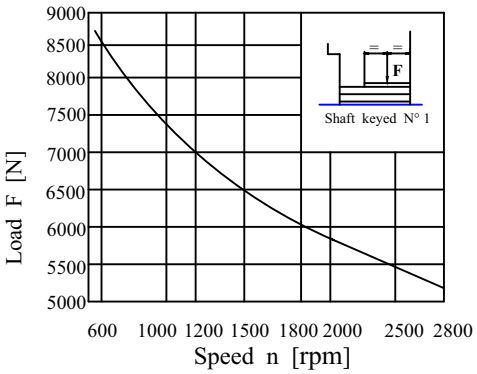


Do not operate pump more than 5 seconds at any speed or viscosity if internal leakage is more than 50 % of theoretical flow.

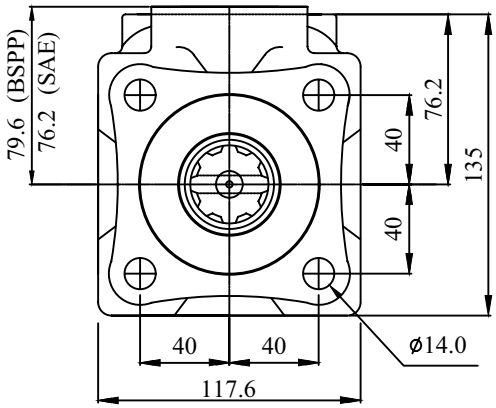
HYDROMECHANICAL POWER LOSS (TYPICAL)

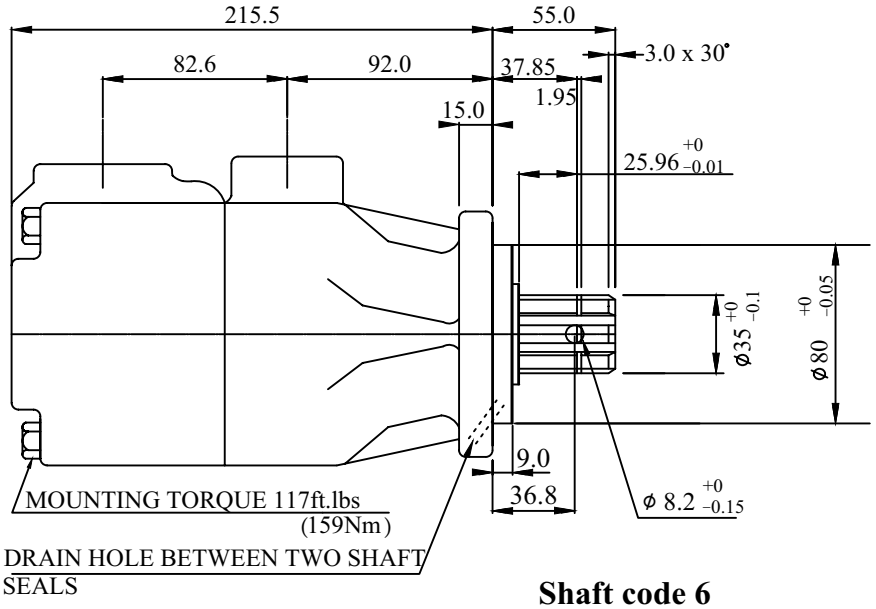


PERMISSIBLE RADIAL LOAD



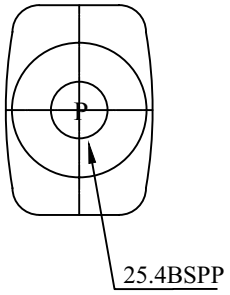
Life time 3000 hours when 70% of the time at 500 N and 30% at max. load

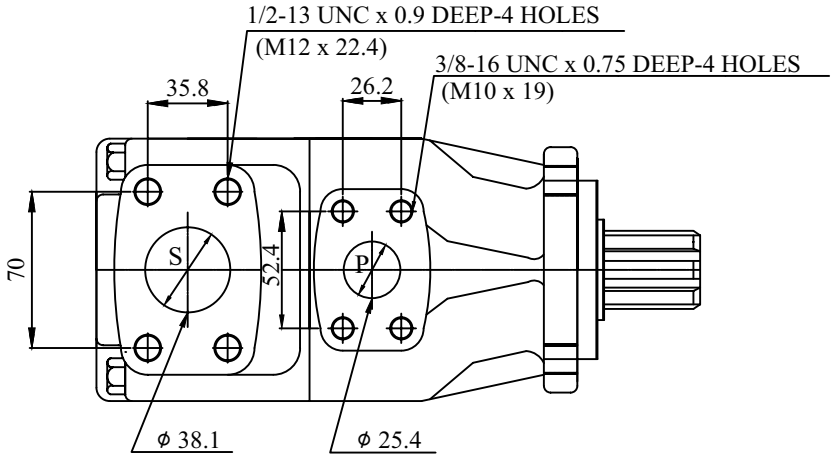




Shaft code 6
(DIN 5462) B8 x 32 x 36

CODE 00





OPERATING CHARACTERISTICS - TYPICAL (24 cST)

Pressure Port	Series	Volumetric Displacement Vp	Flow q & n =1500 rpm (ℓ/min)			Input power p & n =1500rpm (KW)			P Max Kg/cm²	Max r.p.m
		cm³/rev	P=0 bar	P=140 bar	P=240 bar	P=7 bar	P=140 bar	P=240 bar		
KT6GC	B03	10.8	16.2	10.7		1.3	5.3		275	2800
	B05	17.2	25.8	20.3	15.8	1.4	7.5	12.2		
	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		
	B14	46.0	69.0	63.5	59.0	1.9	17.6	29.5		
	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		2500
	B28 1)	88.8	133.2	127.7	124.5 2)	2.8	32.7	48.5 2)	210	
	B31 1)	100.0	150.0	144.5	141.3 2)	2.8	36.5	54.4 2)		

1) 025-028-031=2500rpm . max.

2) 028-031=210 bar max. int.
--Not to use because internal leakage greater than 50% theoretical flow.

Min Speed ： 400 rpm