KT6CM- * 014 - 1 R 00 - B 1 *
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

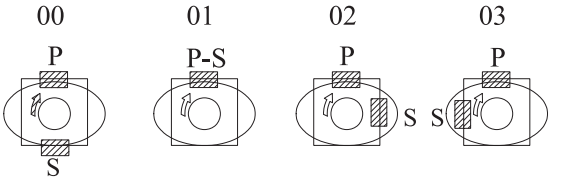
① **Series**

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

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

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

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

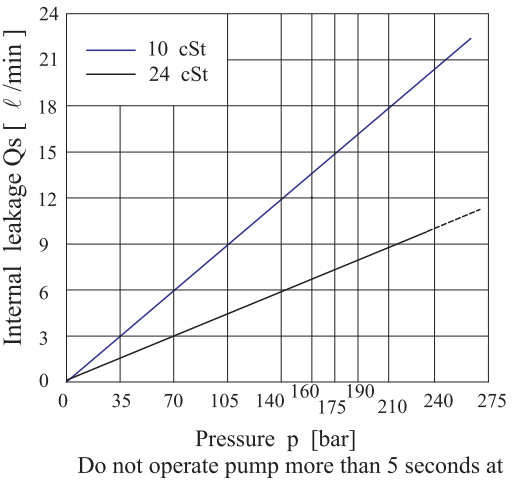
⑥ **Porting combination**
00=standard

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)

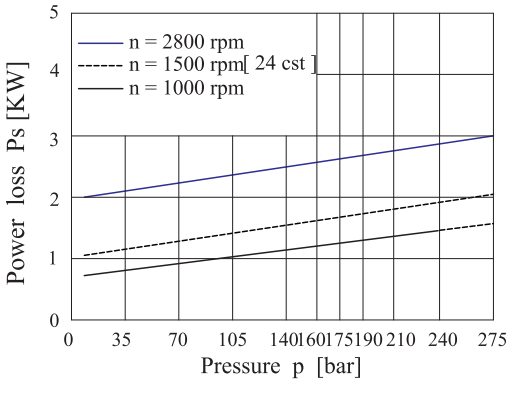
⑨ **Modifications**

INTERNAL LEAKAGE (TYPICAL)

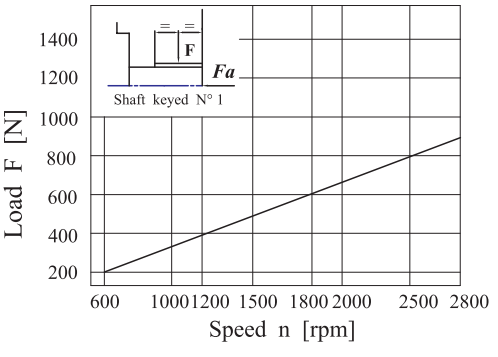


Do not operate pump more than 5 seconds at any speed or viscosity if internal leakage is more than 50 % of theoretical flow.

HYDROMECHANICAL POWER LOSS (TYPICAL)



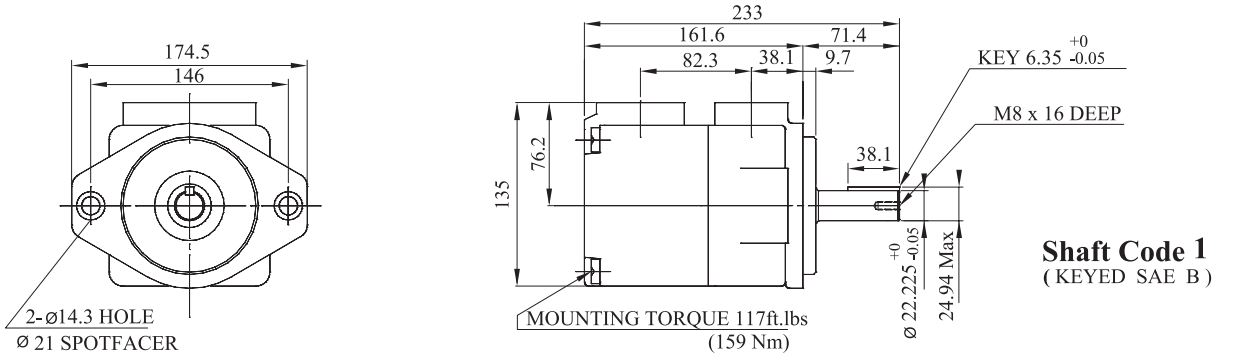
PERMISSIBLE RADIAL LOAD

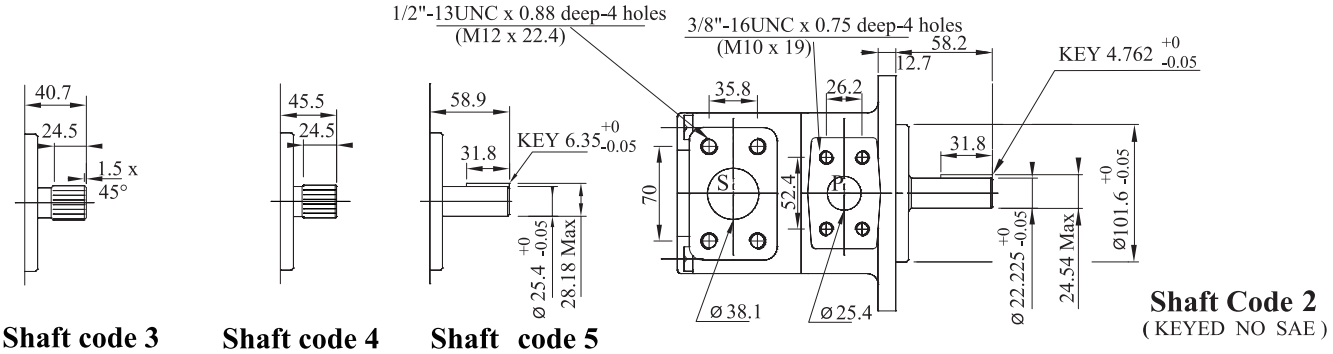


Maximum permissible axial load Fa = 800 N

KCL

KT6CM Dimensional Drawing





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 torque limits(mℓ/rev x bar)		
Pump	Shaft	Vp x p max
KT6CM	1	16500
	2	14300
	3	20600
	4	21821

KT6CM 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		
003	10.8mℓ/rev	1500	16.2	10.7	——	1.3	5.3	——	275	2800
005	17.2mℓ/rev	1500	25.8	20.3	15.8	1.4	7.5	12.2		
006	21.3mℓ/rev	1500	31.9	26.5	22.0	1.5	8.9	14.7		
008	26.4mℓ/rev	1500	39.6	34.1	29.6	1.6	10.7	17.7		
010	34.1mℓ/rev	1500	51.1	45.7	41.2	1.7	13.4	22.3		
012	37.1mℓ/rev	1500	55.6	50.2	45.7	1.7	14.4	24.1		
014	46.0mℓ/rev	1500	69.0	63.5	59.0	1.9	17.6	29.5		
017	58.3mℓ/rev	1500	87.4	82.0	77.5	2.1	21.9	36.9		
020	63.8mℓ/rev	1500	95.7	90.2	85.7	2.2	23.8	40.2		
022	70.3mℓ/rev	1500	105.4	100.0	95.5	2.3	26.1	44.1		
025 1)	79.3mℓ/rev	1500	118.9	113.5	109.0	2.5	29.2	49.5		2500
028 1)	88.8mℓ/rev	1500	133.2	127.7	124.5 2)	2.8	32.7	48.5 2)	210	
031 1)	100.0mℓ/rev	1500	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

KT6EM Ordering Code

KT6EM * - 066 - 3 R 00 - A 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)

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)

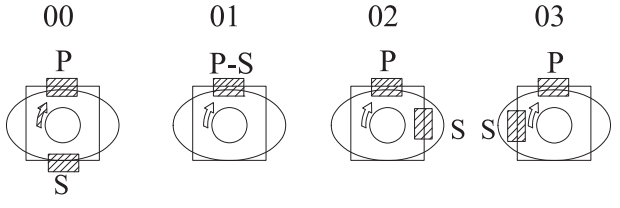
⑤ **Direction of rotation**
(view on shaft end)
R=clockwise
L=counter-clockwise

⑥ **Porting combination**
00=standard

⑦ **Design letter**

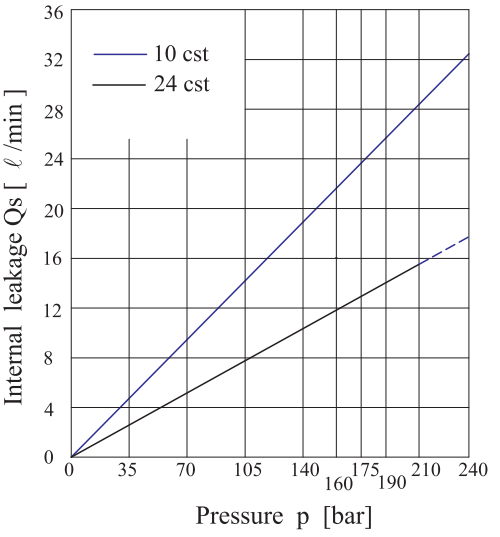
⑧ **Seal class**
1=S1 (for mineral oil)
4=S4 (for fire resistant fluids)
5=S5 (for mineral oil and fire resistant fluids)

⑨ **Modifications**

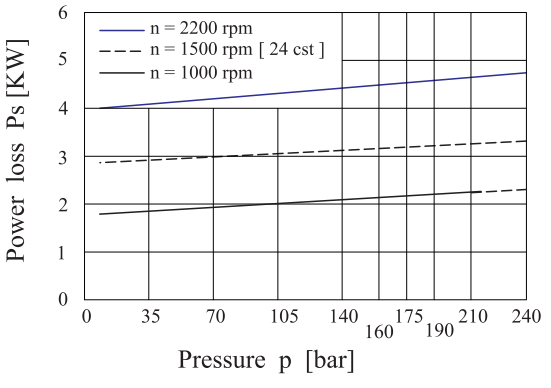


S=Suction port **P=Pressure port**

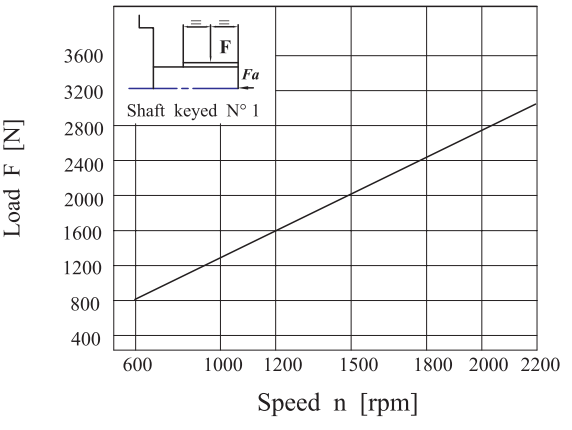
INTERNAL LEAKAGE (TYPICAL)



HYDROMECHANICAL POWER LOSS (TYPICAL)

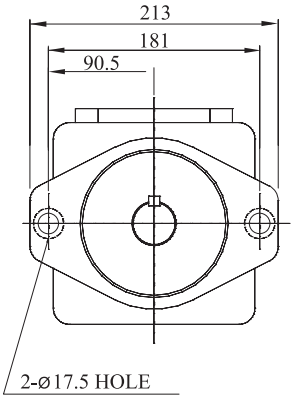


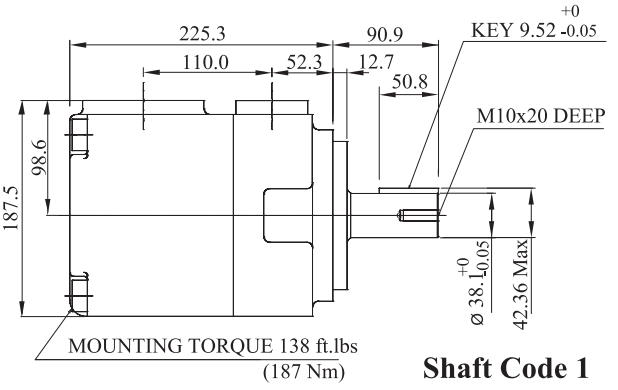
PERMISSIBLE RADIAL LOAD



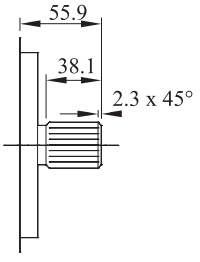
Maximum permissible axial load Fa = 2000 N

KT6EM Dimensional Drawing

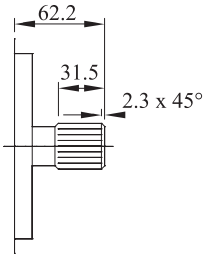




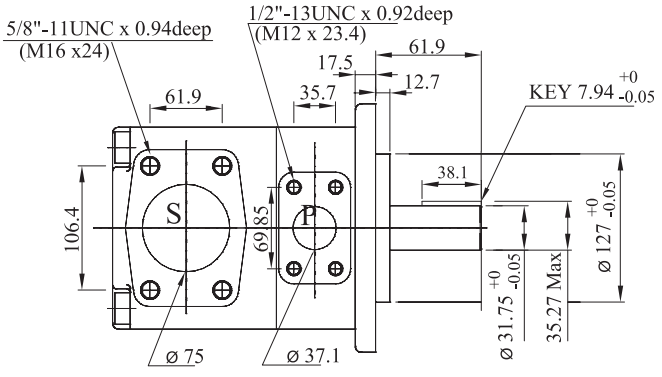
Shaft Code 1
(Keyed SAE CC)



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.
KT6EM	1	54555
	2	34590
	3	61200
	4	61200

KT6EM 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

KT6EDC/M - 066 - 038 - 008 - 1 R 00 - C 1 - P - 0 - *

① ② (P1 P2 P3) ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

① Series

② Cam ring for " P1 "

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	

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

Cam ring for " P3 "

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

③ Type of shaft

1 - Keyed (G45N-ISO 3019-2)
2 - Keyed (SAED & E)
3 - 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 Mounting (pump)

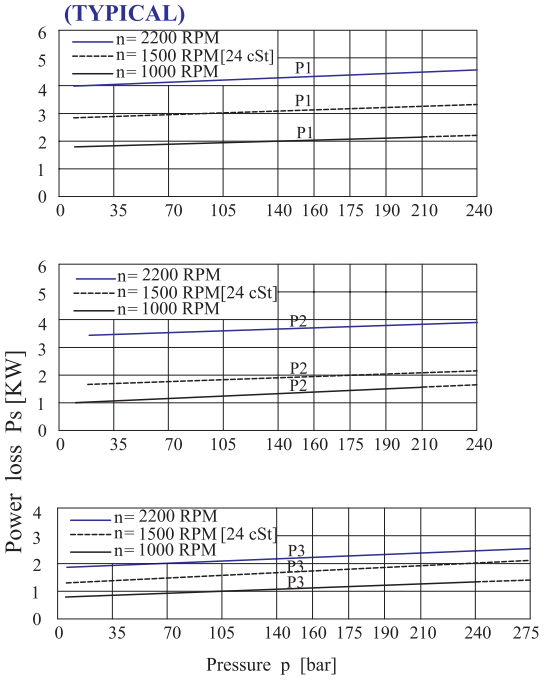
P=Pedestal mounting
F=Face mounting

⑨ Mounting W/connection variables

0=P3=1" SAE
1=P3=3/4" SAE

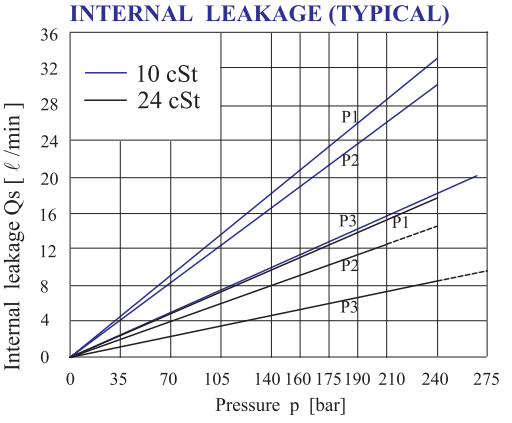
⑩ Modifications

HYDROMECHANICAL POWER LOSS (TYPICAL)

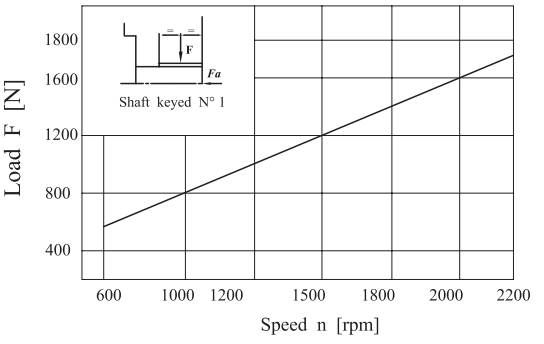


Total hydromechanical power loss is the sum of each section at its operating conditions.

INTERNAL LEAKAGE (TYPICAL)

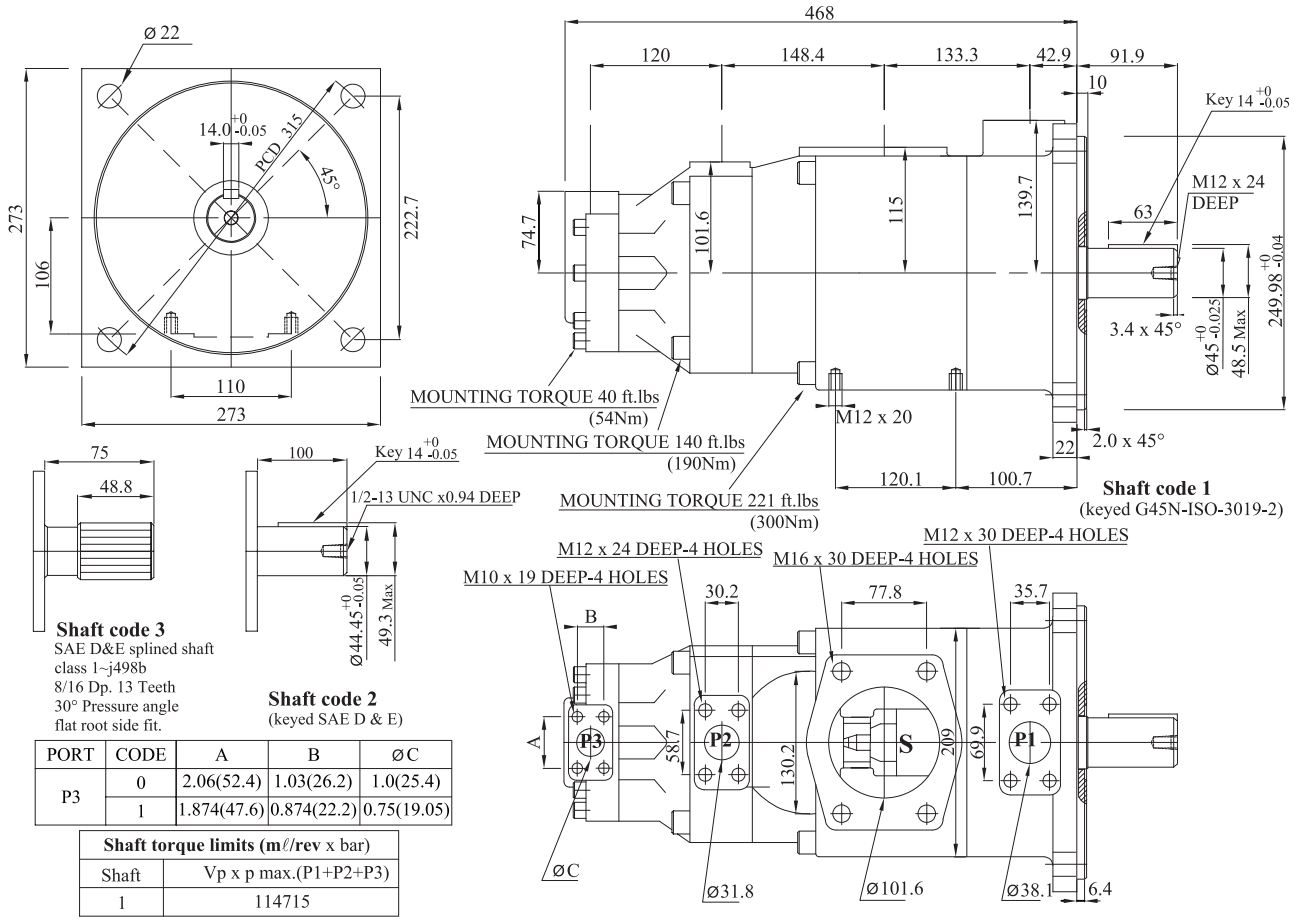


PERMISSIBLE RADIAL LOAD



Maximum permissible axial load Fa = 2000 N

KCL KT6EDC/M Dimensional Drawing



PORT	CODE	A	B	ØC
P3	0	2.06(52.4)	1.03(26.2)	1.0(25.4)
	1	1.874(47.6)	0.874(22.2)	0.75(19.05)

Shaft torque limits (m/rev x bar)	
Shaft	Vp x p max.(P1+P2+P3)
1	114715

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

Pressure Port	Series	Volumetric Displacement Vp	Flow q & n =1500rpm (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		
P1	042	132.3	198.5	188.5	181.3	5.2	49.4	82.6	240	2200
	045	142.4	213.6	203.6	196.5	5.4	52.9	88.7		
	050	158.5	237.7	227.7	220.6	5.7	58.5	98.3		
	052	164.8	247.2	237.2	230.1	5.8	60.8	102.1		
	057	180.7	271.1	261.1	254.0	6.1	66.4	106.9		
	062	196.7	295.0	285.0	277.9	6.4	71.9	121.3		
	066	213.3	319.9	309.9	302.8	6.7	77.7	131.2		
	072	227.1	340.6	330.6	323.5	6.9	82.6	139.5		
	085 1)	269.8	404.7	397.7 2)	—	7.3	65.3 2)	—	90	2000
P2	014	47.6	71.4	62.1	55.9	2.3	18.5	30.6	240	2200
	017	58.2	87.3	78.0	71.8	2.5	22.2	37.0		
	020	66.0	99.0	89.7	83.5	2.8	24.9	41.7		
	024	79.5	119.3	110.0	103.8	3.0	29.6	49.8		
	028	89.7	134.5	125.2	119.0	3.2	33.2	55.9		
	031	98.3	147.5	138.1	131.9	3.3	36.2	61.0		
	035	111.0	166.5	157.2	151.0	3.5	40.7	68.7		
	038	120.3	180.4	171.1	164.9	3.7	43.9	74.3		
	042	136.0	204.0	194.7	188.5	4.0	49.4	83.7		
	045	145.7	218.5	209.2	203.0	4.1	52.8	89.5		
	050	158.0	237.0	227.7	224.0 3)	4.4	57.0	85.0 3)	210	
	061	190.5	285.7	278.0 4)	—	4.6	60.6 4)	—	120	
P3	003	10.8	16.2	11.2	7.7	1.3	5.3	8.4	275	2200
	005	17.2	25.8	20.8	17.3	1.4	7.5	12.2		
	006	21.3	31.9	26.9	23.4	1.5	8.9	14.7		
	008	26.4	39.6	34.6	31.1	1.6	10.7	17.7		
	010	34.1	51.1	46.1	42.6	1.7	13.4	22.3		
	012	37.1	55.6	50.6	47.1	1.7	14.4	24.1		
	014	46.0	69.0	64.0	60.5	1.9	17.6	29.5		
	017	58.3	87.4	82.4	78.9	2.1	21.9	36.9		
	020	63.8	95.7	90.7	87.2	2.2	23.8	40.2		
	022	70.3	105.4	100.4	96.9	2.3	26.1	44.1		
	025	79.3	118.9	113.9	110.4	2.5	29.2	49.5		
	028	88.8	133.2	128.2	125.8 3)	2.8	32.7	48.5 3)	210	
	031	100.0	150.0	145.0	142.6 3)	2.8	36.5	54.2 3)		

1) 085=2000RPM max. 2) 085=75 bar cont. 085=90 bar max. int. 3) 028-031-050=210 bar max. Min Speed : 600 rpm

4) 061=120 bar max. int.
061=80 bar cont.