KT6DM * - B45 - 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)

B14=47.6	B35=111.0
B17=58.2	B38=120.3
B20=66.0	B42=136.0
B24=79.5	B45=145.7
B28=89.7	B50=158.0
B31=98.3	B61=190.5

④ Type of shaft
1 = keyed (SAE C)

2 = keyed (no SAE)

3 = splined (SAE C)

4 = splined (no SAE)

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

⑥ Porting combination
00=Standard

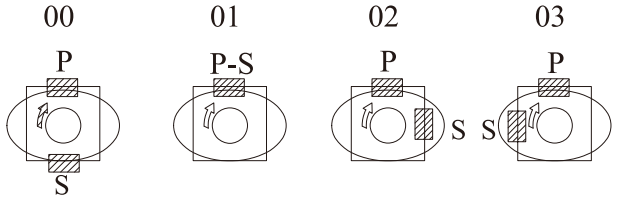
⑦ Design letter

⑧ Seal class
1 = S1 (for mineral oil)

4 = S4 (for fire resistant fluids)

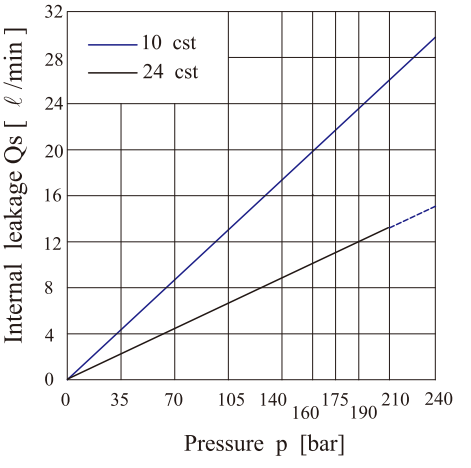
5 = S5 (for mineral oil and fire resistant fluids)

⑨ Modifications

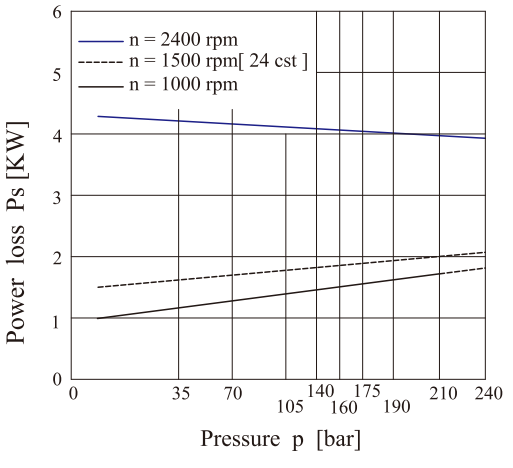


S=Suction port **P=Pressure port**

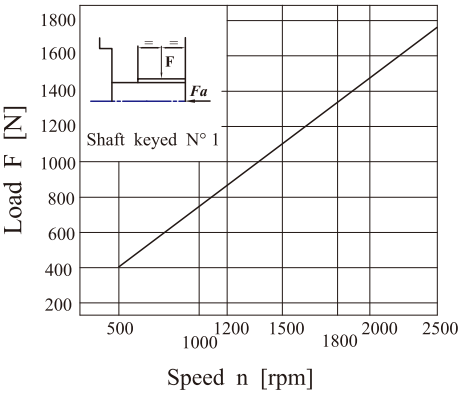
INTERNAL LEAKAGE (TYPICAL)



HYDROMECHANICAL POWER LOSS (TYPICAL)

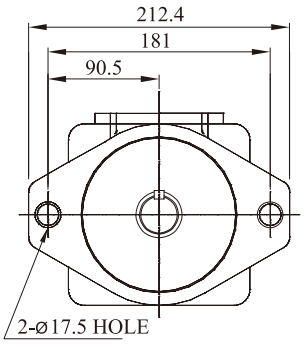


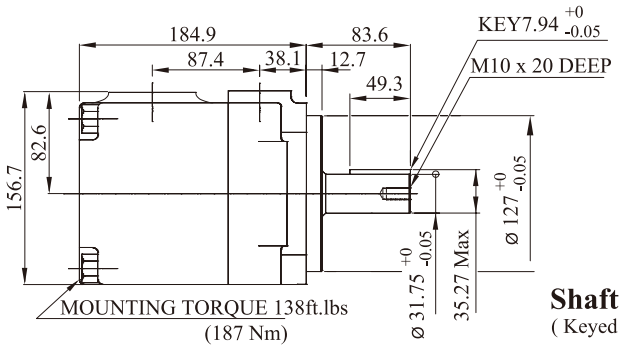
PERMISSIBLE RADIAL LOAD



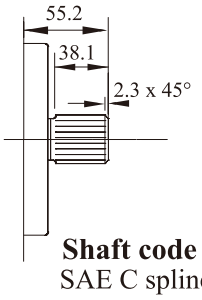
Maximum permissible axial load Fa = 1200 N

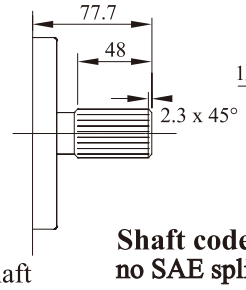
KT6DM Dimensional Drawing





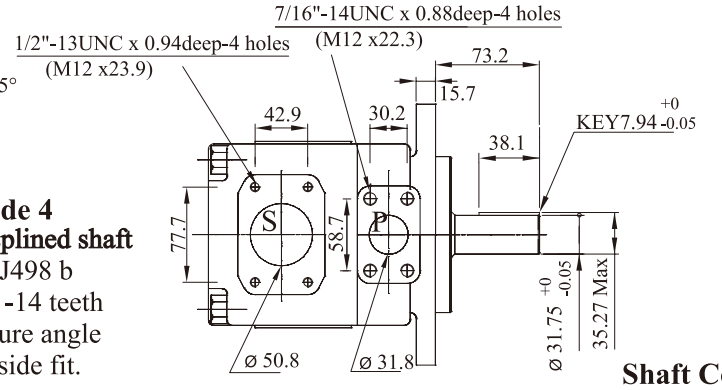
Shaft Code 1
(Keyed SAE C)



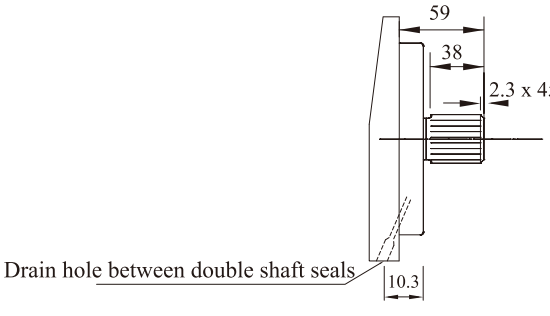


Shaft code 3
SAE C splined shaft
Class 1 - J498 b
12/24 dp. -14 teeth
30° pressure angle
Flat root side fit.

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 code 3
no SAE splined
shaft Class 1 - J498 b
12/24 dp. -14 teeth
30° pressure angle
Flat root side fit.

Shaft torque limits (mℓ/rev x bar)		
Pump	Shaft	Vp x p max
KT6DM	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		
B14	47.6mℓ/rev	1500	71.4	62.1	55.9	2.3	18.5	30.6	240	2500
B17	58.2mℓ/rev	1500	87.3	78.0	71.8	2.5	22.2	37.0		
B20	66.0mℓ/rev	1500	99.0	89.7	83.5	2.8	24.9	41.7		
B24	79.5mℓ/rev	1500	119.3	110.0	103.8	3.0	29.6	49.8		
B28	89.7mℓ/rev	1500	134.5	125.2	119.0	3.2	33.2	55.9		
B31	98.3mℓ/rev	1500	147.5	138.1	131.9	3.3	36.2	61.0		
B35	111.0mℓ/rev	1500	166.5	157.2	151.0	3.5	40.7	68.7		
B38	120.3mℓ/rev	1500	180.4	171.1	164.9	3.7	43.9	74.3		
B42 1)	136.0mℓ/rev	1500	204.0	194.7	188.5	4.0	49.4	83.7		2200
B45 1)	145.7mℓ/rev	1500	218.5	209.2	203.0	4.1	52.8	89.5		
B50 1)	158.0mℓ/rev	1500	237.0	227.7	224.0 2)	4.4	57.0	85.0 2)	210	
B61 1)	190.5mℓ/rev	1500	285.7	278.0 3)	———	4.6	60.6 3)	———	120	

1) B42 - B45 - B50 - B61 = 2200 R.P.M.max 2) B50 = 210 bar max. int. 3) B61 = 120 bar max. int.