

**KT7QC** 1 - **022** - **1 R 00** - **B 1 00** \*

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① **Series**

② **Mounting**

- 1 - SAE B
- 2 - SAE C

③ **Cam ring for P1**

Volumetric displacement (cm<sup>3</sup>/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**

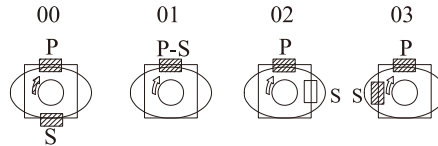
- 1 = keyed (SAE B)
- 2 = keyed (non SAE)
- 3 = Splined (SAE B)
- 4 = Splined (SAE BB)

⑤ **Direction of rotation**

(view on shaft end)  
 R = clockwise  
 L = counter - clockwise

⑥ **Porting combination**

00 = standard



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

⑦ **Design letter**

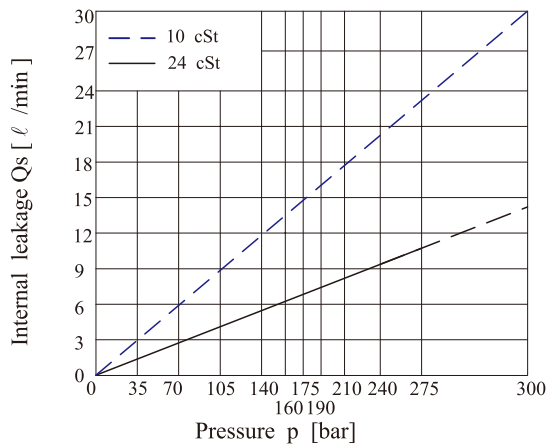
⑧ **Seal class**

- 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**

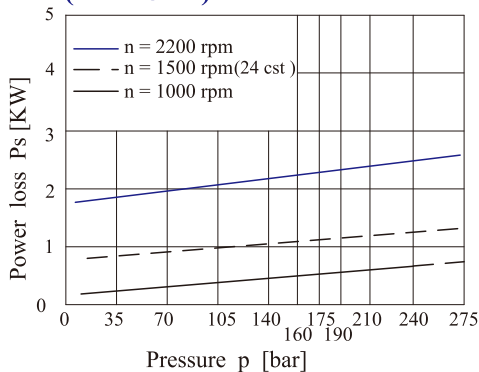
	UNC		METRIC	
	00	01	M0	M1
P	1"	3/4"	1"	3/4"
S	1 1/2"			

**INTERNAL LEAKAGE (TYPICAL)**

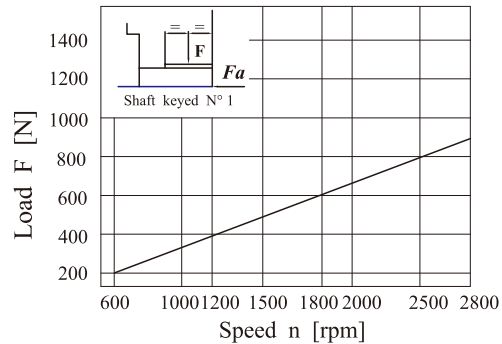


Do not operate pump more than 5 seconds at any speed or viscosity if internal leakage is more than 50 % of theoretical flow.

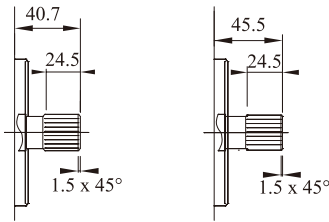
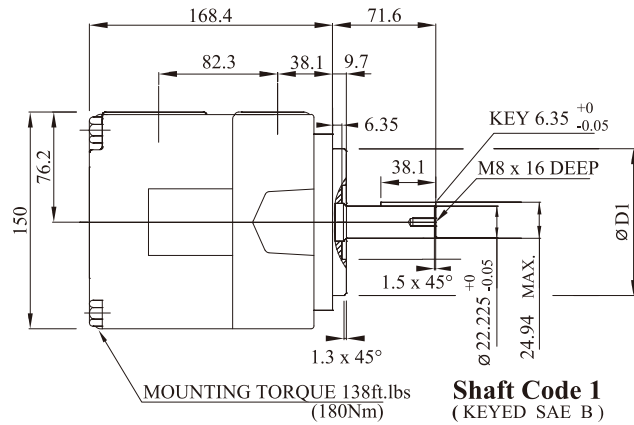
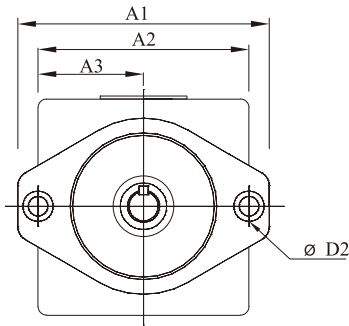
**HYDROMECHANICAL POWER LOSS (TYPICAL)**



**PERMISSIBLE RADIAL LOAD**

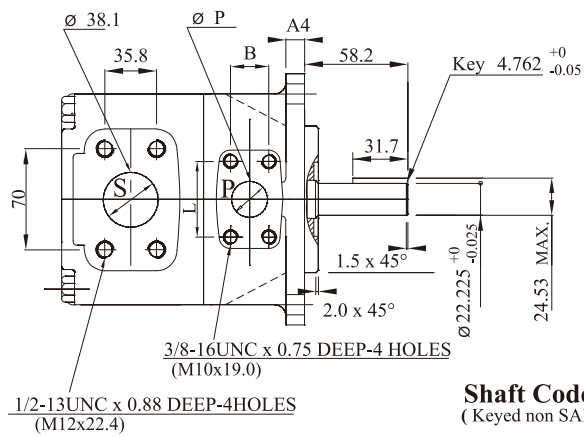


Maximum permissible axial load Fa = 800 N



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

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



	KT7QC1	KT7QC2
Mounting	SAE B	SAE C
∅D1	101.6 / 101.55	127 / 126.94
∅D2	14.3	17.5
A1	174.5	212.5
A2	146	181.0
A3	73	90.5
A4	12.7	15.7

CODE	∅P	L	B
01 / M1	19.05	47.6	22.2
00 / M0	25.4	52.4	26.2

Shaft torque limits (mℓ/rev x bar)		
Pump	Shaft	Vp x p max.P1+P2
KT7QC	1	16500
	2	14300
	3	20600
	4	21820

### KT7QC OPERATING CHARACTERISTICS - TYPICAL [24 cSt]

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

Pressure port	Series	Volumetric Displacement Vp	Flow qve [ ℓ/min ]1500rpm				Input power P [KW]1500rpm				P Max <sub>2</sub> Kg/cm <sup>2</sup>	Max r.p.m
			P = 0 bar	P = 140 bar	P = 240 bar	P = 300 bar	P = 7 bar	P = 140 bar	P = 240 bar	P = 300 bar		
P1	005	17.2mℓ/rev	25.8	21.5	17.7	13.7	1.4	7.5	12.2	14.9	300	2800
	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		
	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		
	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	2.3	26.1	44.1	50.3		
	025 <sub>1)</sub>	79.3mℓ/rev	118.9	113.5	109.0	—	2.5	29.2	49.5	—	240	
	028 <sub>1)</sub>	88.8mℓ/rev	133.2	127.7	124.5 <sub>2)</sub>	—	2.8	32.7	48.5 <sub>2)</sub>	—	210	2500
	031 <sub>1)</sub>	100.0mℓ/rev	150.0	144.5	141.3 <sub>2)</sub>	—	2.8	36.5	54.4 <sub>2)</sub>	—		

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

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

Min Speed : 600 rpm