

T6CR Ordering Code

T6CR * **-025-1 R 00 - A 10 - A 1..**
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

① **Series**

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

③ **Cam ring**

Volumetric displacement (ml/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	

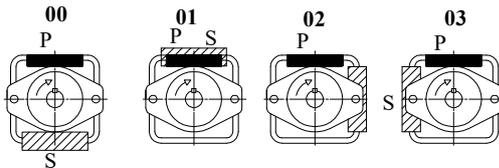
④ **Type of shaft**

1 = keyed (SAE BB)	2 = keyed (No SAE)
3 = splined (SAE B)	4 = splined (SAE BB)
5 = keyed (no SAE)	

⑤ **Direction of rotation**

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

⑥ **Porting combination**



⑦ **Adapter**

0 = None B = SAE B
 A = SAE A

⑧ **Coupling**

1 = SAE A 5 = SAE J498b
 2 = SAE B 16/32 - 11 teeth
 3 = SAE BB

⑨ **Porting adapter**

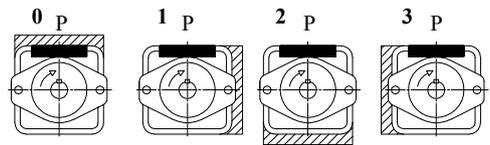
⑩ **Design letter**

⑪ **Seal class**

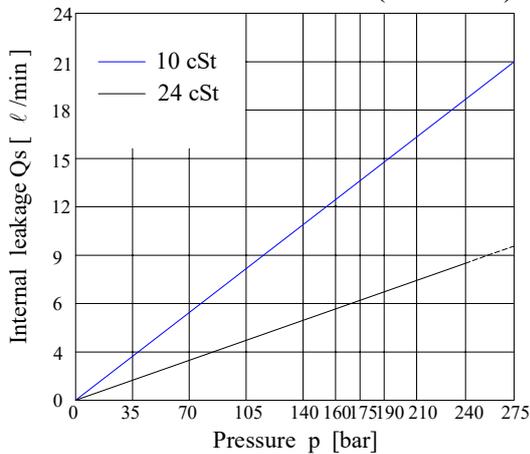
1=S1 (for mineral oil)
 4=S4 (for fire resistant fluids)
 5=S5 (for mineral oil and fire resistant fluids)

⑫ **Modification**

Porting adapter

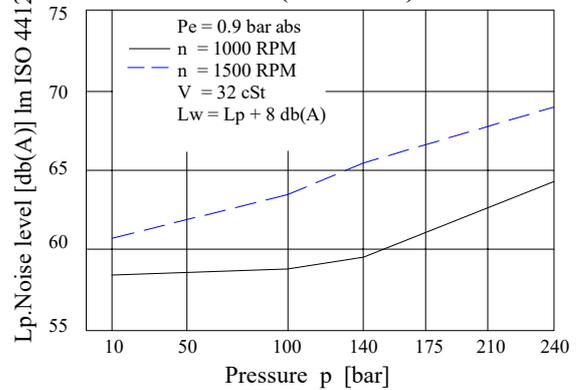


INTERNAL LEAKAGE (TYPICAL)

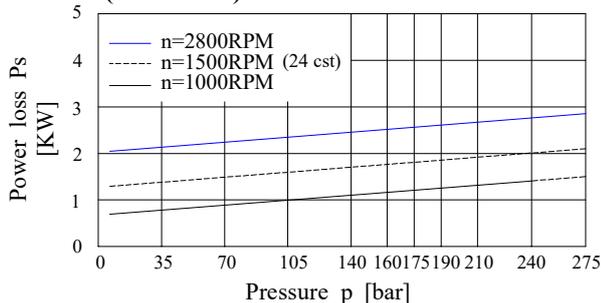


Do not operate the pump more than 5 seconds at any speed or viscosity of internal leakage is more than 50% of theoretical flow.

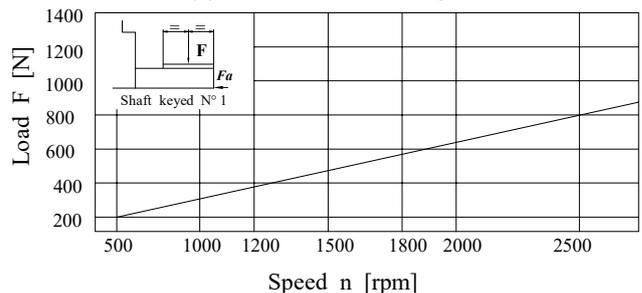
NOISE LEVEL (TYPICAL) T6CR-022



HYDROMECHANICAL POWER LOSS (TYPICAL)

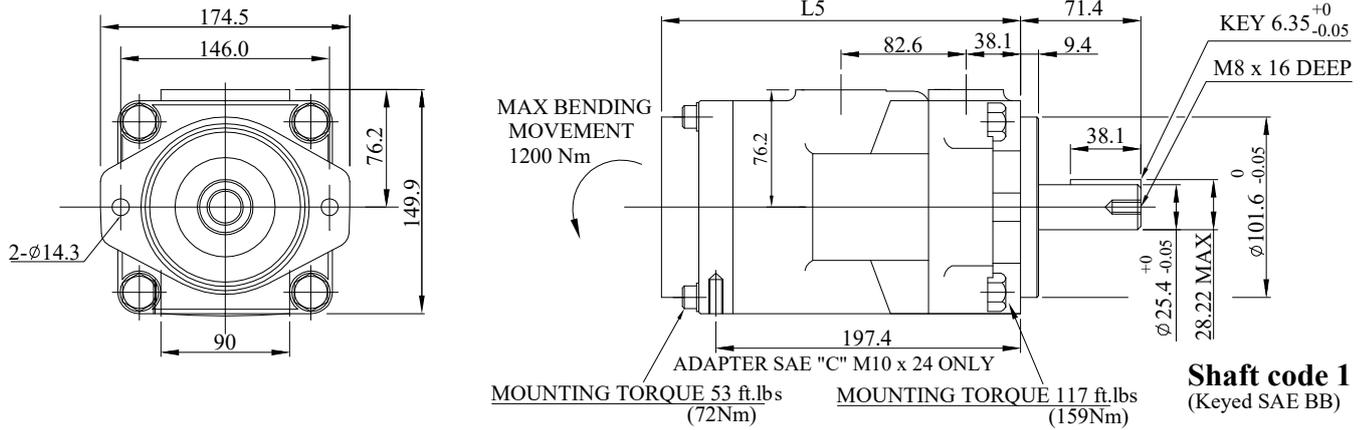


PERMISSIBLE RADIAL LOAD



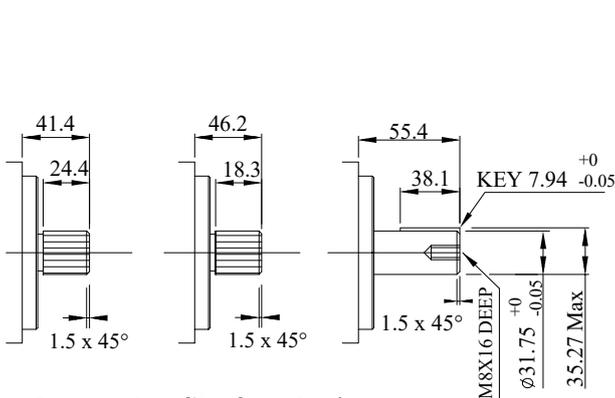
Maximum axial load permissible Fa = 800 N

T6CR Dimensional Drawing



Shaft code 1
(Keyed SAE BB)

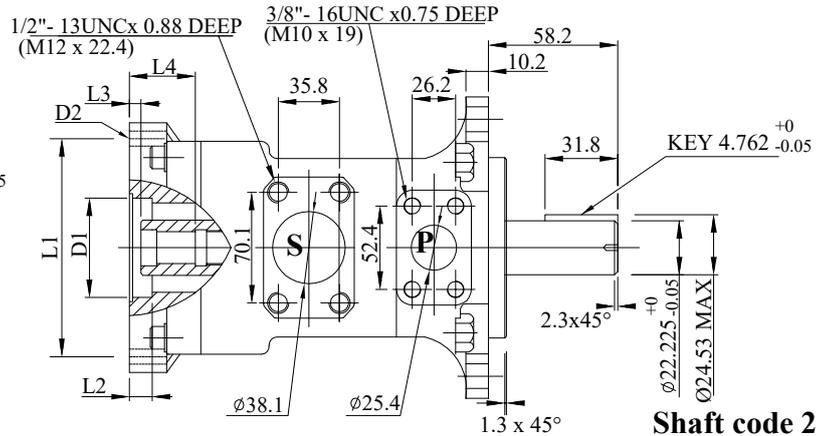
MOUNTING TORQUE 53 ft.lbs (72Nm) MOUNTING TORQUE 117 ft.lbs (159Nm)



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 b
16/32 d.p.-15 teeth
30° pressure angle
flat root side fit

Shaft code 5
(Keyed no SAE)



Shaft code 2
(Keyed no SAE)

Shaft torque limits (mℓ/rev x bar)			
Shaft	V x p max.	Coupling drive	V x p max.
1	21420	SAE A	11000
2	14300	SAE B	20600
3	20600	SAE BB	22050
4	32670		
5	34180	SAE -11 teeth	15850

Adapter	SAE A			SAE B	
	SAE A	SAE 11 teeth	SAE B	SAE B	SAE BB
Coupling drive	SAE A	SAE 11 teeth	SAE B	SAE B	SAE BB
Number of teeth	9	11	13	13	15
Pitch	16/32	16/32	16/32	16/32	16/32
Pressure angle	30°	30°	30°	30°	30°
Major dia.(min)	15.875	19.05	22.225	22.225	25.40
Minor dia.(min)	12.70	16.00	19.125	19.125	22.275

Adapter	D1	D2	P	L1	L2	L3	L4	L5
SAE A	82.6	M10	24	106.4	11.0	7.9	32.0	209.0
SAE B	101.65	M12	28	146.0	16.0	7.9	46.0	223.0

OPERATING CHARACTERISTICS - TYPICAL [24 cSt]

Pressure port	Series	Volumetric Displacement Vp	Flow q&n [ℓ/min] 1500rpm			Input power P [KW] 1500rpm			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		
P1	003	10.8mℓ/rev	16.2	11.2	7.7	1.3	5.3	8.4	275	2800
	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		
	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 1)	79.3mℓ/rev	118.9	113.9	110.4	2.5	29.2	49.5		
	028 1)	88.8mℓ/rev	133.2	128.2	125.8 2)	2.8	32.7 2)	48.5 2)	210	2500
031 1)	100.0mℓ/rev	150.0	145.0	142.6 2)	2.8	36.5 2)	54.5 2)			

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

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

Min Speed : 600 rpm

Port connection can be furnished with metric threads.

T6DR Ordering Code

T6DR * - 045 - 1 R 00 - A 1 0 - A 1 ..
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

① **Series**

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

③ **Cam ring**

Volumetric displacement (ml/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

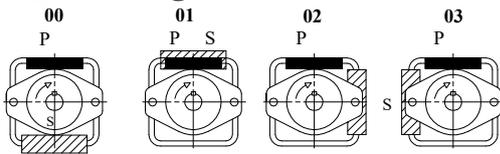
④ **Type of shaft**

- 1 = keyed (SAE C)
- 2 = keyed (SAE CC)
- 3 = splined (SAE C)
- 5 = keyed (no SAE)

⑤ **Direction of rotation**

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

⑥ **Porting combination**



⑦ **Adapter**

- 0 = None B = SAE B
- A = SAE A C = SAE C

⑧ **Coupling**

- 1 = SAE A 4 = SAE C
- 2 = SAE B 5 = SAE J498b
- 3 = SAE BB 16/32 - 11 teeth

⑨ **Porting adapter**

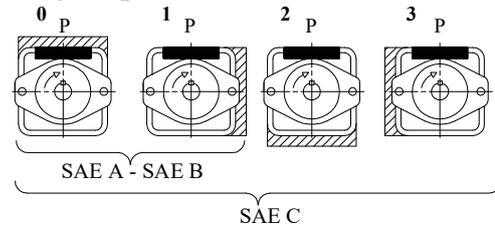
⑩ **Design letter**

⑪ **Seal class**

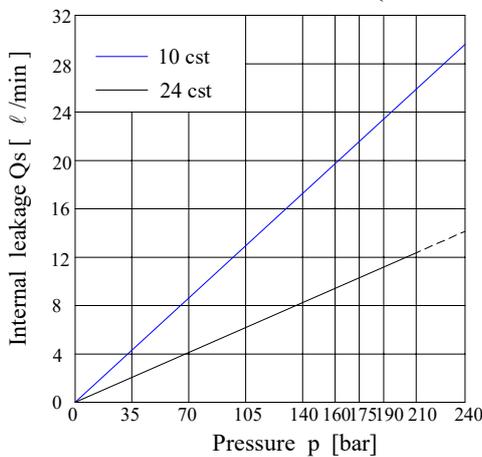
- 1=S1 (for mineral oil)
- 4=S4 (for the resistant fluids)
- 5=S5 (for mineral oil and fire resistant fluids)

⑫ **Modification**

Porting adapter

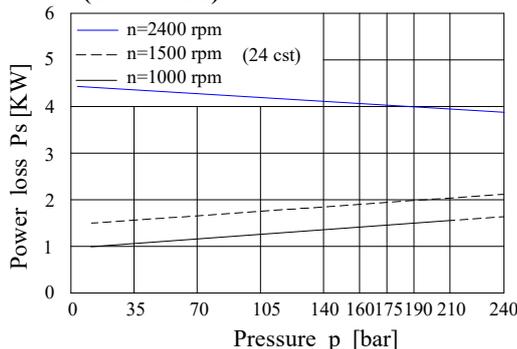


INTERNAL LEAKAGE (TYPICAL)

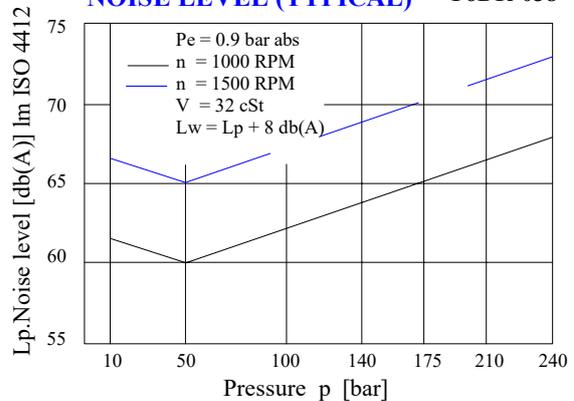


Do not operate the pump more than 5 seconds at any speed or viscosity of internal leakage is more than 50% of theoretical flow.

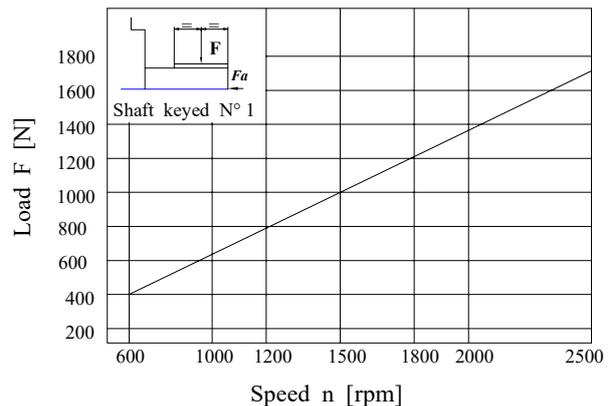
HYDROMECHANICAL POWER LOSS (TYPICAL)



NOISE LEVEL (TYPICAL) T6DR-038

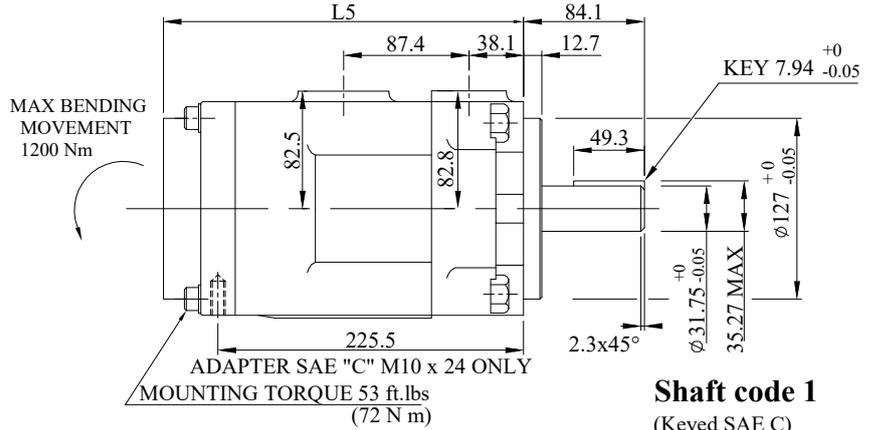
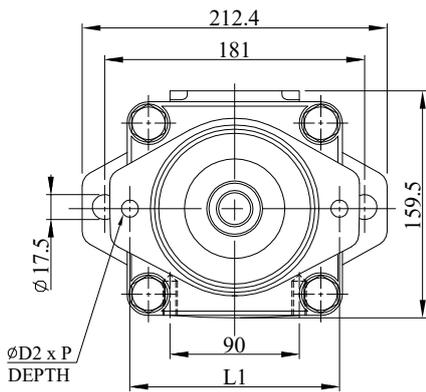


PERMISSIBLE RADIAL LOAD

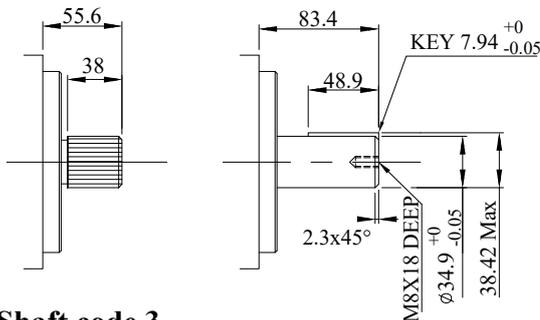


Maximum permissible axial load Fa = 1200 N

T6DR Dimensional Drawing

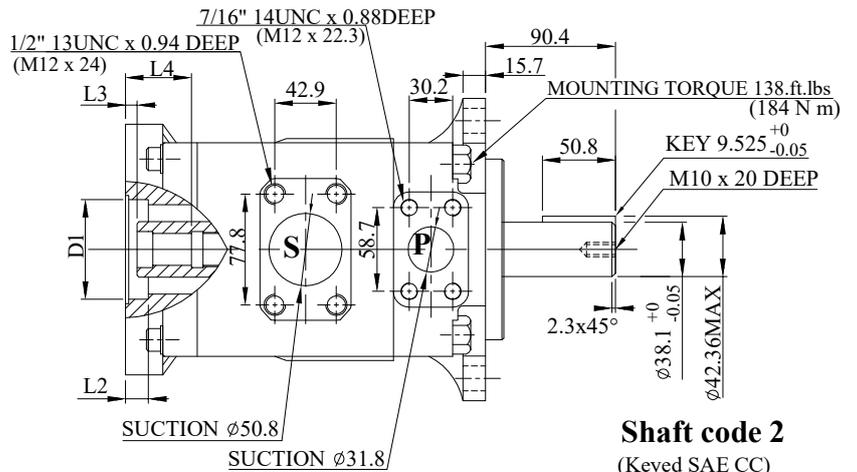


Shaft code 1
(Keyed SAE C)



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

Shaft code 5
(Keyed no SAE)



Shaft code 2
(Keyed SAE CC)

Shaft torque limits (mℓ/rev x bar)			
Shaft	V x p max.	Couplings drive	V x p max.
1	43240	SAE A	11000
2	66036	SAE B	20600
3	61200	SAE BB	32670
5	55600	SAE C	37390
		SAE -11 teeth	15850

Adapter	SAE "A"			SAE "B"		SAE "C"
Coupling drive	SAE A	SAE 11 teeth	SAE B	SAE B	SAE BB	SAE C
Number of teeth	9	11	13	13	15	14
Pitch	16/32	16/32	16/32	16/32	16/32	12/24
Pressure angle	30°	30°	30°	30°	30°	30°
Major dia.(min)	15.875	19.05	22.225	22.225	25.400	31.750
Minor dia.(min)	12.700	16.017	19.134	19.134	22.268	27.589

Adaptor	D1	D2	P	L1	L2	L3	L4	L5
SAE A	82.65/82.60	M10	24	106.4	11.0	8.0	32.0	237.0
SAE B	101.70/101.65	M12	28	146.0	16.0	8.0	46.0	251.0
SAE C	127.10/127.05	M16	-	181.0	16.0	8.0	56.0	261.0

OPERATING CHARACTERISTICS - TYPICAL [24 cSt]

Series	V olumetric Displacement Vp	Flow Q (ℓ/min) & n = 1500 RPM			Input power P (kw) & n = 1500 RPM			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		
014	47.6 mℓ/rev	71.4	62.1	55.9	2.3	18.5	30.6	240	2500
017	58.2 mℓ/rev	87.3	78.0	71.8	2.5	22.2	37.0		
020	66.0 mℓ/rev	99.0	89.7	83.5	2.8	24.9	41.7		
024	79.5 mℓ/rev	119.3	110.0	103.8	3.0	29.6	49.8		
028	89.7 mℓ/rev	134.5	125.2	119.0	3.2	33.2	55.9		
031	98.3 mℓ/rev	147.5	138.1	131.9	3.3	36.2	61.0		
035	111.0 mℓ/rev	166.5	157.2	151.0	3.5	40.7	68.7		
038	120.3 mℓ/rev	180.4	171.1	164.9	3.7	43.9	74.3		
042 1)	136.0 mℓ/rev	204.0	194.7	188.5	4.0	49.4	83.7		
045 1)	145.7 mℓ/rev	218.5	209.2	203.0	4.1	52.8	89.5		
050 1)	158.0 mℓ/rev	237.0	227.7	224.0 2)	4.4	57.0	85.0 2)	210	2200
061 1)	190.5 mℓ/rev	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.

3) 061 = 120 bar max. int.
061=80 bar cont.

Min Speed : 600 rpm

T6ER Ordering Code

T6ER * - 066 - 1 R 00 - A 1 0 - A 1 ..
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

① **Series**

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

③ **Cam ring**

Volumetric displacement (ml/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**

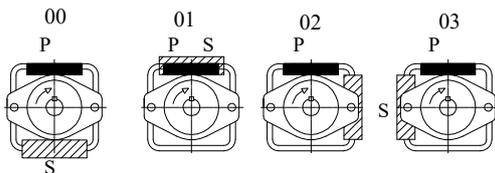
- 1 = keyed (SAE CC)
- 3 = splined (SAE C)
- 4 = splined (SAE CC)

⑤ **Direction of rotation**

(view on shaft end)

- R=clockwise
- L=counter-clockwise

⑥ **Porting combination**



⑦ **Adapter**

- 0 = None
- A = SAE A
- B = SAE B
- C = SAE C

⑧ **Coupling**

- 1 = SAE A
- 2 = SAE B
- 3 = SAE BB
- 4 = SAE C
- 5 = SAE J498b
- 16/32 - 11 teeth

⑨ **Porting adapter**

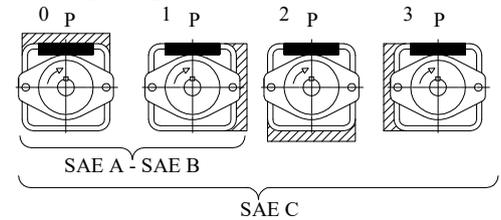
⑩ **Design letter**

⑪ **Seal class**

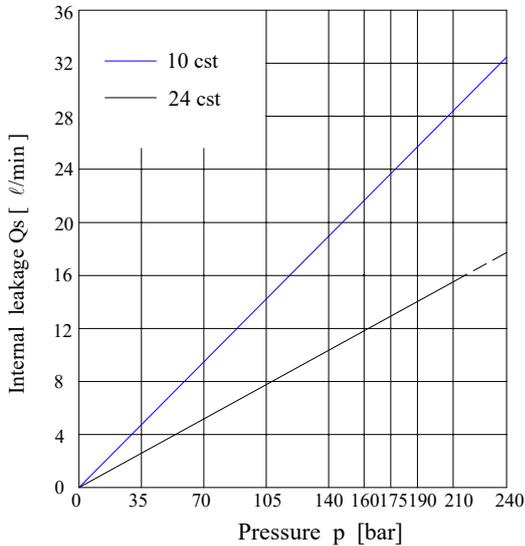
- 1=S1 (for mineral oil)
- 4=S4 (for fire resistant fluids)
- 5=S5 (for mineral oil and fire resistant fluids)

⑫ **Modification**

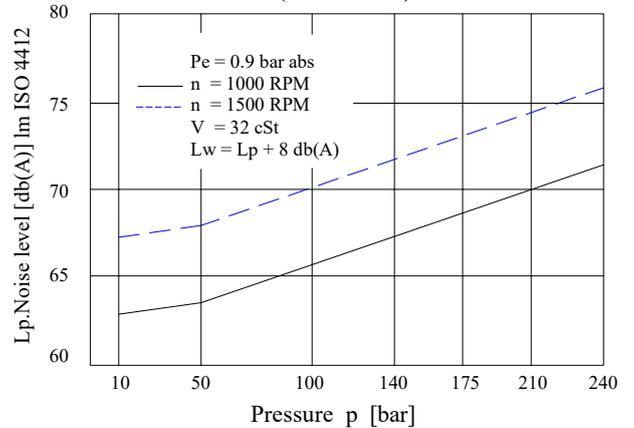
Porting adapter



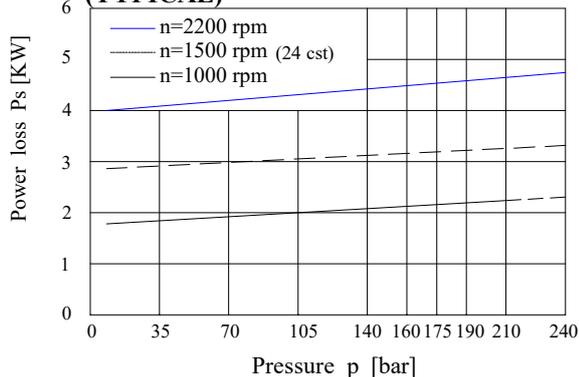
INTERNAL LEAKAGE (TYPICAL)



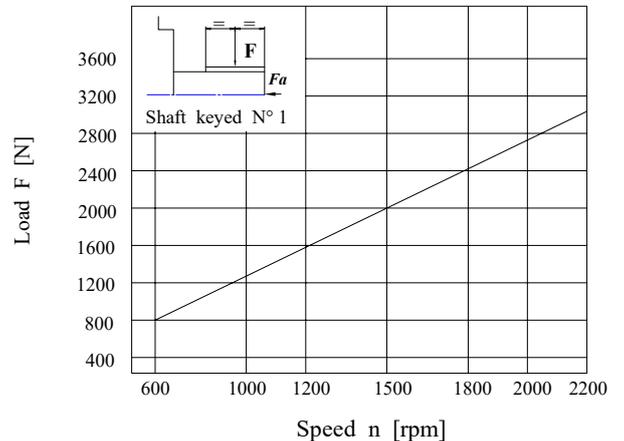
NOISE LEVEL (TYPICAL) T6ER-050



HYDROMECHANICAL POWER LOSS (TYPICAL)

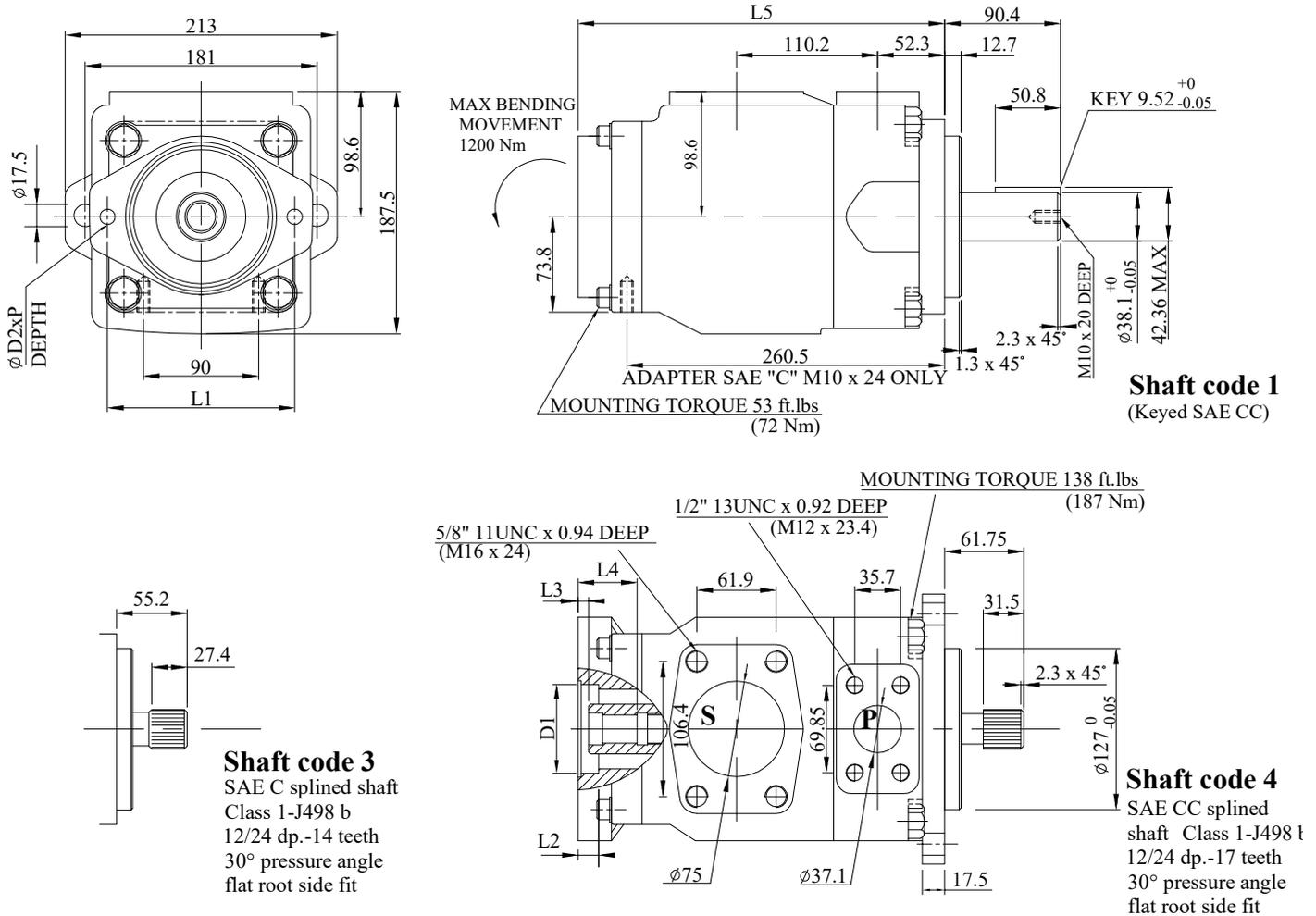


PERMISSIBLE RADIAL LOAD



Maximum permissible axial load Fa = 2000 N

T6ER Dimensional Drawing



Shaft torque limits (mℓ/rev x bar)			
Shaft	V x p max.	Coupling drive	Vp x p max.
1	80560	SAE A	11000
3	61200	SAE B	20600
4	120210	SAE BB	32670
		SAE C	66480
		SAE -11 teeth	15850

Adapter	SAE "A"			SAE "B"		SAE "C"
Coupling drive	SAE A	SAE 11 teeth	SAE B	SAE B	SAE BB	SAE C
Number of teeth	9	11	13	13	15	14
Pitch	16/32	16/32	16/32	16/32	16/32	12/24
Pressure angle	30°	30°	30°	30°	30°	30°
Major dia.(min)	15.875	19.05	22.225	22.225	25.400	31.750
Minor dia.(min)	12.700	16.0	19.134	19.134	22.268	27.585

Adapter	D1	D2	P	L1	L2	L3	L4	L5
SAE A	82.65/82.60	M10	24	106.4	11.0	7.9	32.0	272.0
SAE B	101.70/101.65	M12	28	146.0	16.0	7.9	46.0	286.0
SAE C	127.10/127.05	M16	—	181.0	16.0	7.9	56.0	296.0

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/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	132.3 mℓ/rev	198.5	188.5	181.3	5.2	49.4	82.6	240	2200
045	142.4 mℓ/rev	213.6	203.6	196.5	5.4	52.9	88.7		
050	158.5 mℓ/rev	237.7	227.7	220.6	5.7	58.5	98.3		
052	164.8 mℓ/rev	247.2	237.2	230.1	5.8	60.8	102.1		
057	180.7 mℓ/rev	271.1	261.1	254.0	6.1	66.4	106.9		
062	196.7 mℓ/rev	295.0	285.0	277.9	6.4	71.9	121.3		
066	213.3 mℓ/rev	319.9	309.9	302.8	6.7	77.7	131.2		
072	227.1 mℓ/rev	340.6	330.6	323.5	6.9	82.6	139.5		
085 1.2)	269.8 mℓ/rev	404.7	397.7	—	7.3	65.3	—	90	2000

1) 085=2000 rpm max.

2) 085=75 bar cont. 085=90 bar max.int

Min Speed : 600 rpm