

Model No. **T6ERM - 066 - 1 R 00 - A 1 0 - A 1 ..**

Series

Cam ring

(Delivery at 0 PSI & 1200 r.p.m.)

042 = 41.94 GPM      062 = 62.36 GPM  
 045 = 46.15 GPM      066 = 67.62 GPM  
 050 = 50.25 GPM      072 = 72.00 GPM  
 052 = 52.25 GPM

Type of shaft

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

Direct. of rotation (view on shaft end)

R = clockwise  
 L = counter-clockwise

Porting combination

Modification

Seal class

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

Design letter

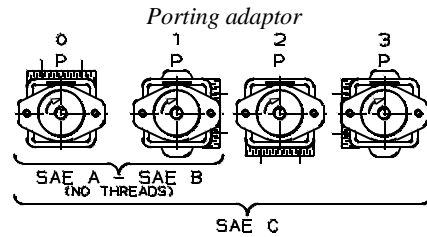
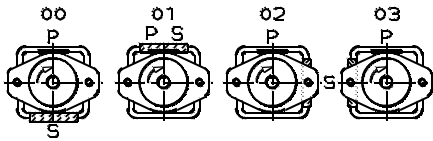
Porting adaptor

Coupling

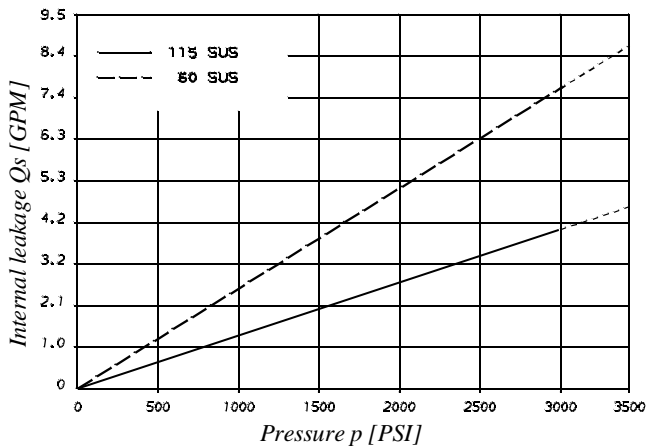
1 = SAE A                      4 = SAE C  
 2 = SAE B                      5 = SAE J498b  
 3 = SAE BB                      16/32 - 11 teeth

Adaptor

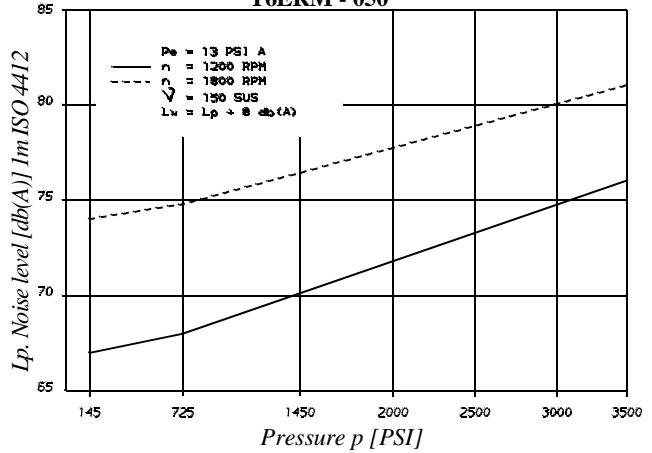
0 = None                      B = SAE B  
 A = SAE A                      C = SAE C



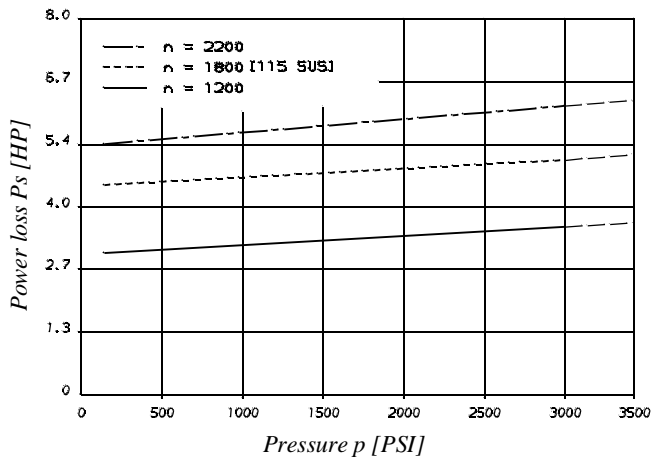
INTERNAL LEAKAGE (TYPICAL)



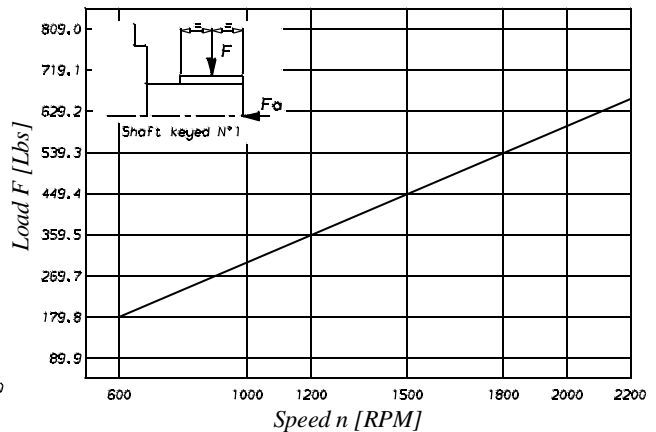
NOISE LEVEL (TYPICAL)  
T6ERM - 050



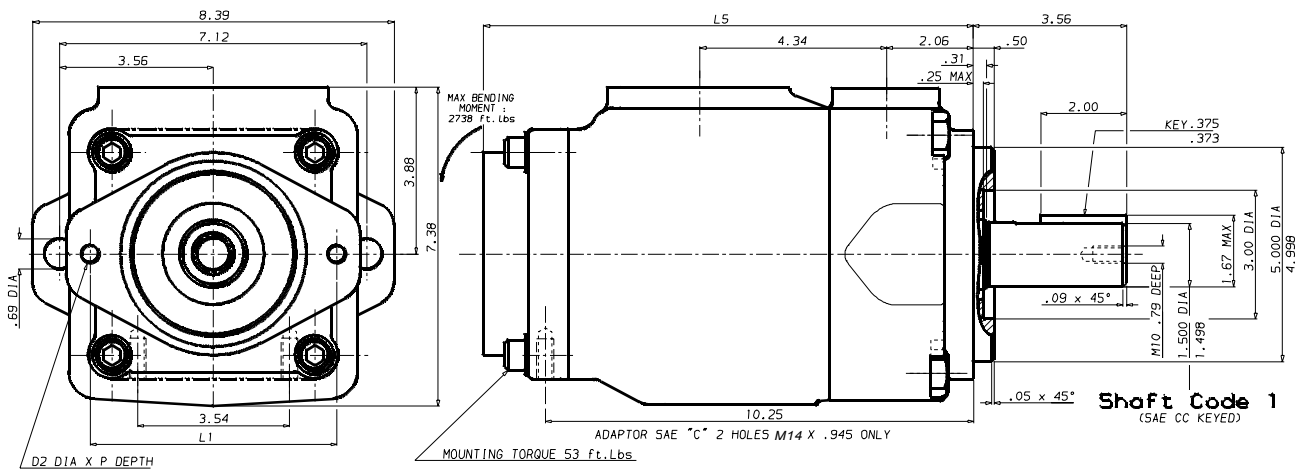
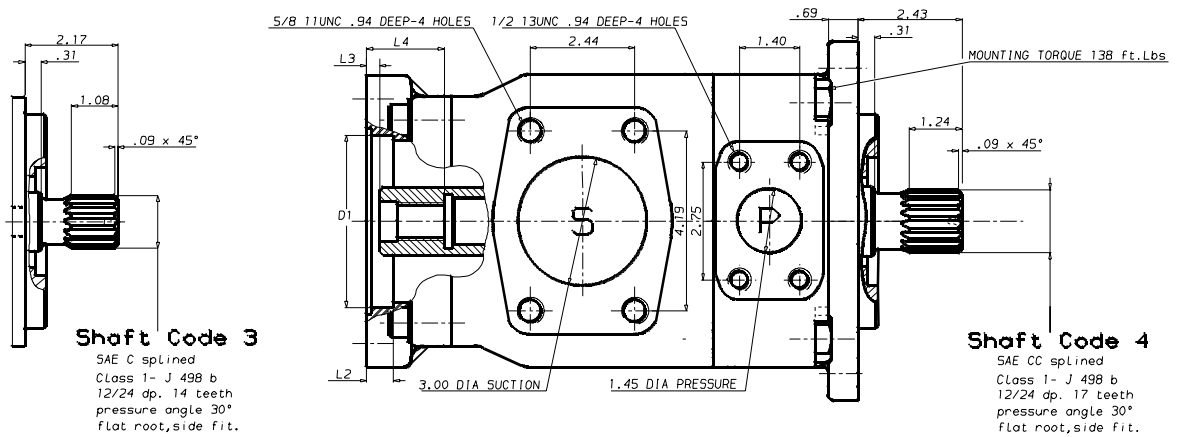
POWER LOSS HYDROMECHANICAL (TYPICAL)



PERMISSIBLE RADIAL LOAD



Maximum permissible axial load Fa = 449 Lbs



Adaptor	D1	D2	P	L1	L2	L3	L4	L5
SAE A	3.25	M10	.94	4.19	.43	.31	1.26	10.71
SAE B	4.00	M12	1.10	5.75	.63	.31	1.81	11.26
SAE C	5.00	M16	-	7.12	.63	.31	2.20	11.65

Adaptor	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)	.625	.750	.875	.875	1.00	1.250
Minor dia. (min)	.500	.630	.753	.753	.877	1.086

Shaft torque limits [in3/rev x PSI]			
Shaft	V x p max.	Coupling drive	V x p max.
1	71355	SAE A	9743
3	54207	SAE B	18246
4	106474	SAE BB	28937
		SAE C	58884
		SAE - 11 teeth	14039

**OPERATING CHARACTERISTICS - TYPICAL [115 SUS]**

Series	Volumetric Displacement Vp	Flow Q [GPM] & n = 1800 RPM			Input power P [HP] & n = 1800 RPM		
		p = 0 PSI	p = 2000 PSI	p = 3500 PSI	p = 100 PSI	p = 2000 PSI	p = 3500 PSI
042	8.07 in <sup>3</sup> /rev	62.92	60.37	58.52	8.09	78.44	133.80
045	8.70 in <sup>3</sup> /rev	67.72	65.17	63.32	6.87	82.09	141.15
050	9.67 in <sup>3</sup> /rev	75.38	72.83	70.98	7.32	91.02	157.15
052	10.00 in <sup>3</sup> /rev	78.37	75.82	73.97	7.49	94.52	163.27
062	12.00 in <sup>3</sup> /rev	93.54	90.99	89.14	8.38	112.22	194.25
066	13.00 in <sup>3</sup> /rev	101.44	98.89	97.04	8.84	121.43	210.37
072	13.86 in <sup>3</sup> /rev	108.00	105.45	103.60	9.22	129.09	223.77

Port connection can be furnished with metric threads.

Ass'y Tandem VV - ..

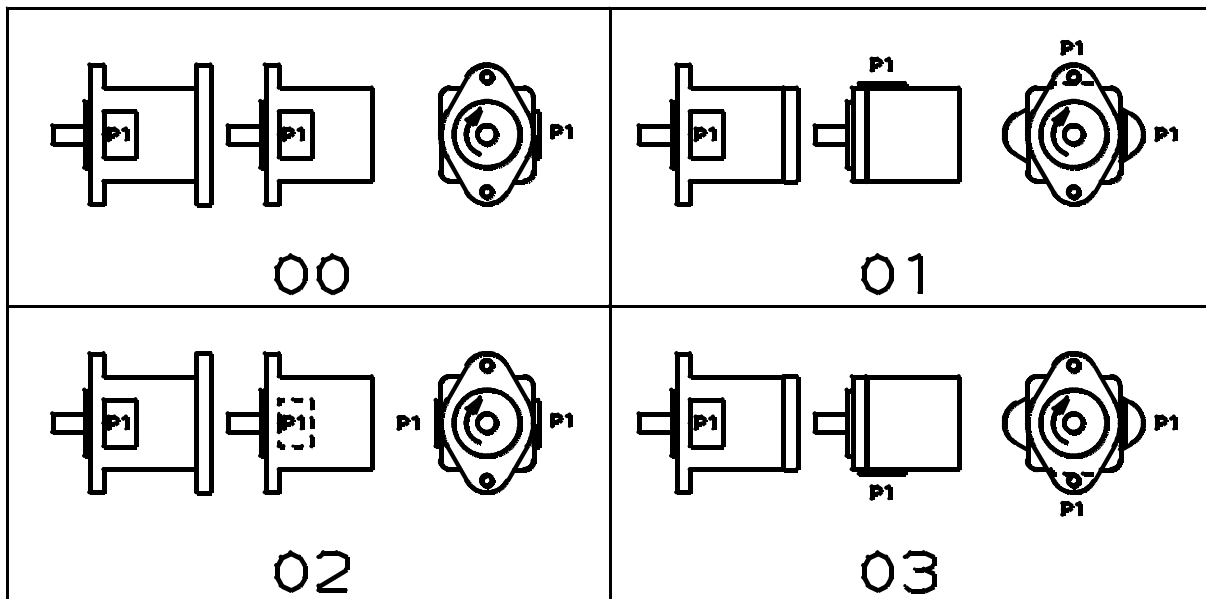
VV = Vane pump + vane pump	Porting combination
VP = Vane pump + Piston pump (PV)	00
VG = Vane pump + Gear pump (GP)	01
VH = Vane pump + Hybrid pump (T6H*)	02
	03

Assembly screws

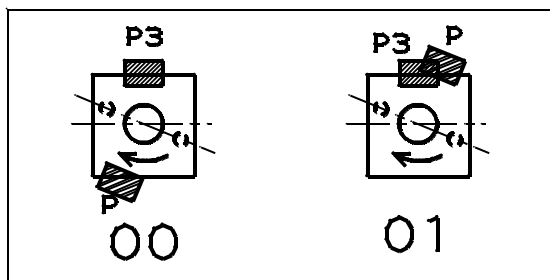
- SAE A rear mounting adaptor : 2 screws M10 x 1.18 (Mounting torque = 433.6 in.lbf)
- SAE B rear mounting adaptor : 2 screws M12 x 1.38 (Mounting torque = 778.8 in.lbf)
- SAE C rear mounting adaptor : 2 screws M16 x 1.57 (Mounting torque = 1902 in.lbf)

ASSEMBLY PORTING DEFINITION

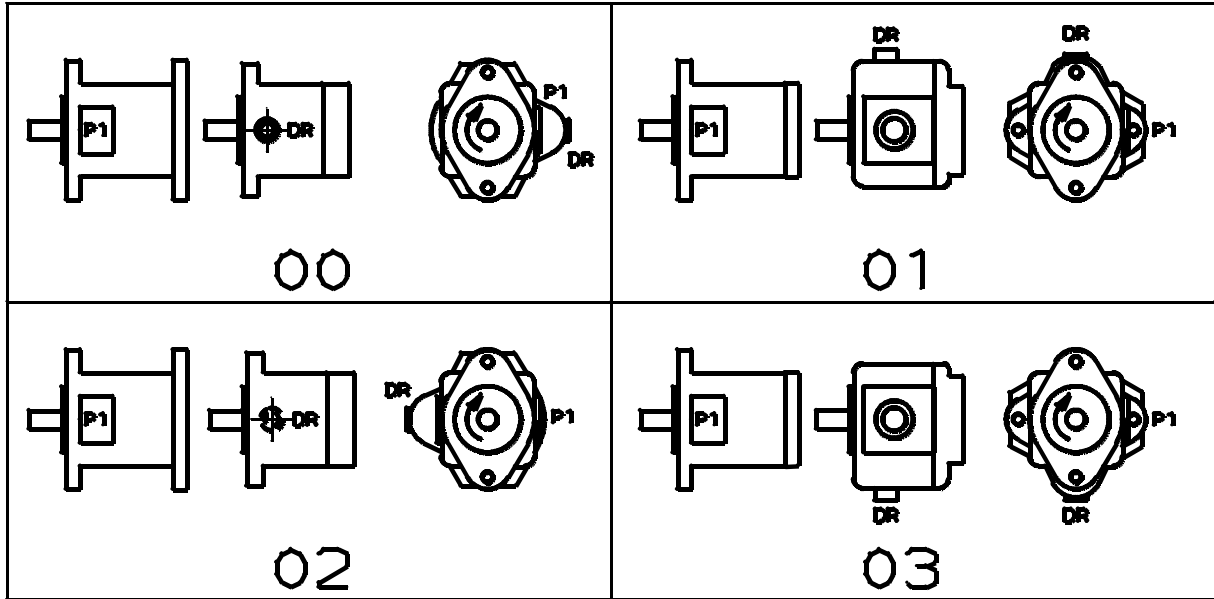
- VV type = Front single vane pump (view from shaft end).



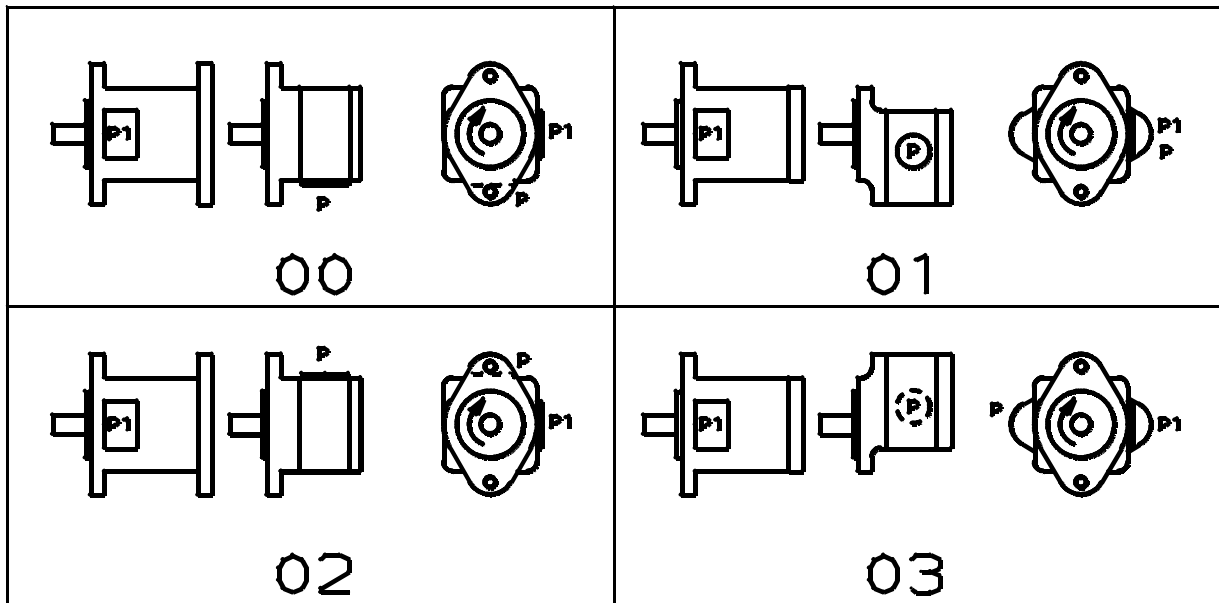
- VV type = For triple vane pump (view from shaft end).



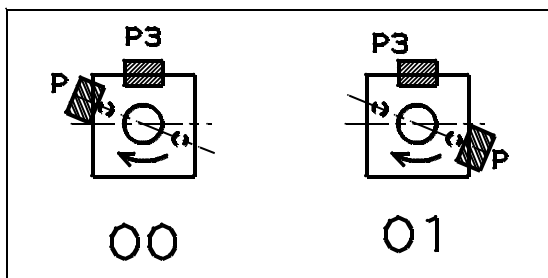
- **VP & VH type** = For the second pump the reference is the DR drain port on piston pump (view from shaft end).



- **VG type** = For single vane pump (view from shaft end).



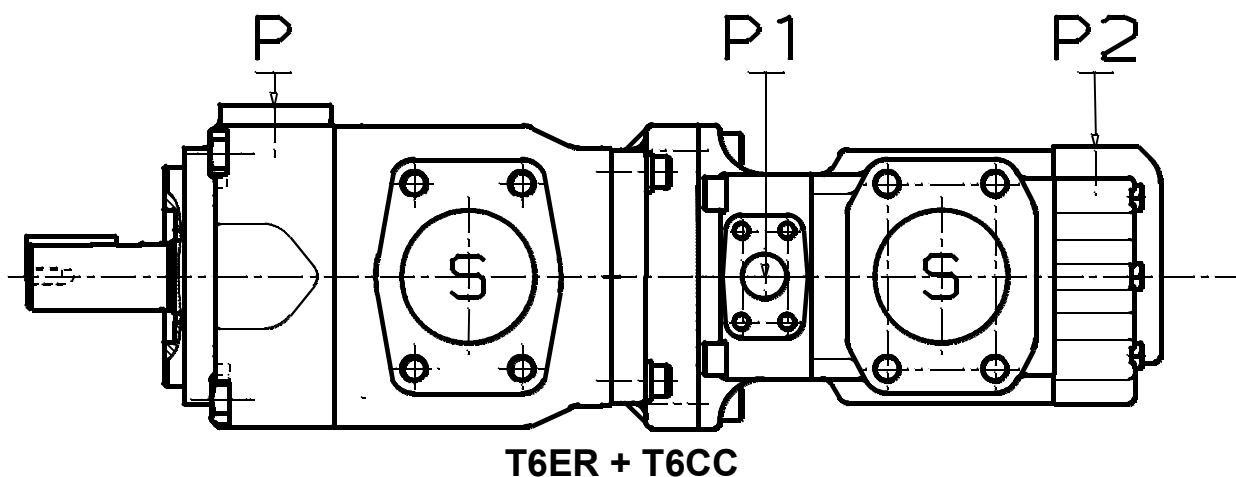
- **VG type** = For triple vane pump (view from shaft end).



Rear pump		Drive train vane pump			
Series	Arbre	T6*R (single pumps)		T6***R (triple pumps)	
		Coupling	Adaptor	Coupling	Adaptor
T6C*	3	2	B	Not available	
T6CR*					
T6CSH	4	3	B		
T6CC*	3	3	B	Not available	
	5	2	B		
T6D*	3	4	C	Not available	
T6DR*					
T6DC*					
T6DCC*					
T6E*	3	4	C	Not available	
T6ER*					
T6EC*					
T6ED*					
TB	4	1	A	Available	
	3	5	A		
T7B	3	2	B	Not available	
	4	3	B		
T6H***	4	3	B	Not available	
PV6	1	2	A	Available with special coupling	
PV10	1	2	B	Not available	
PV15					
PV20	1	4	C	Not available	
PV29					
GP1D	3	1	A	Available	
GP2D	3	1	A	Available up to .73 in <sup>3</sup> /rev.	
GP2A	3	1	A	Available	
GP3A	3	2	B	Not available	

For additional information on Piston or Gear pumps, see the specific bulletins.

EXAMPLE



- **1. Define front pump**  
T6ER - \*\*\* - 1 R 02 - B21 - A 1
- **2. Define rear pump**  
T6CC - \*\*\* - \*\*\* - 5 R 01 - C 100
- **3. Define mounting**  
Ass'y tandem VV03