

Mobile Hydraulic Pumps T6*M

Denison Vane Technology, fixed displacement

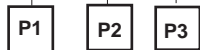
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ENGINEERING YOUR SUCCESS.

Model No. T6DCCM - B38 - B28 - B08 - 1 R 00 - B 1 - 00

Series



Cam ring for "P1"

(Delivery at 0 bar & 1500 r.p.m.)

- B14 = 71,4 l/min B35 = 166,5 l/min
- B17 = 87,3 l/min B38 = 180,4 l/min
- B20 = 99,0 l/min B42 = 204,0 l/min
- B24 = 119,3 l/min B45 = 218,5 l/min
- B28 = 134,5 l/min B50 = 237,0 l/min
- B31 = 147,4 l/min

Cam ring for "P2" & "P3"

(Delivery at 0 bar & 1500 r.p.m.)

- B03 = 16,2 l/min B17 = 87,4 l/min
- B05 = 25,8 l/min B20 = 95,7 l/min
- B06 = 31,9 l/min B22 = 105,4 l/min
- B08 = 39,6 l/min B25 = 118,9 l/min
- B10 = 51,1 l/min B28 = 133,2 l/min
- B12 = 55,6 l/min B31 = 150,0 l/min
- B14 = 69,0 l/min

Modification

Mounting W/connection variables

Type	UNC		Metric	
P3	1"	3/4"	1"	3/4"
Code	00	01	M0	M1

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 combination (see pages 34 - 35)

00 = standard

Direct. of rotation (view on shaft end)

- R = clockwise
- L = counter-clockwise

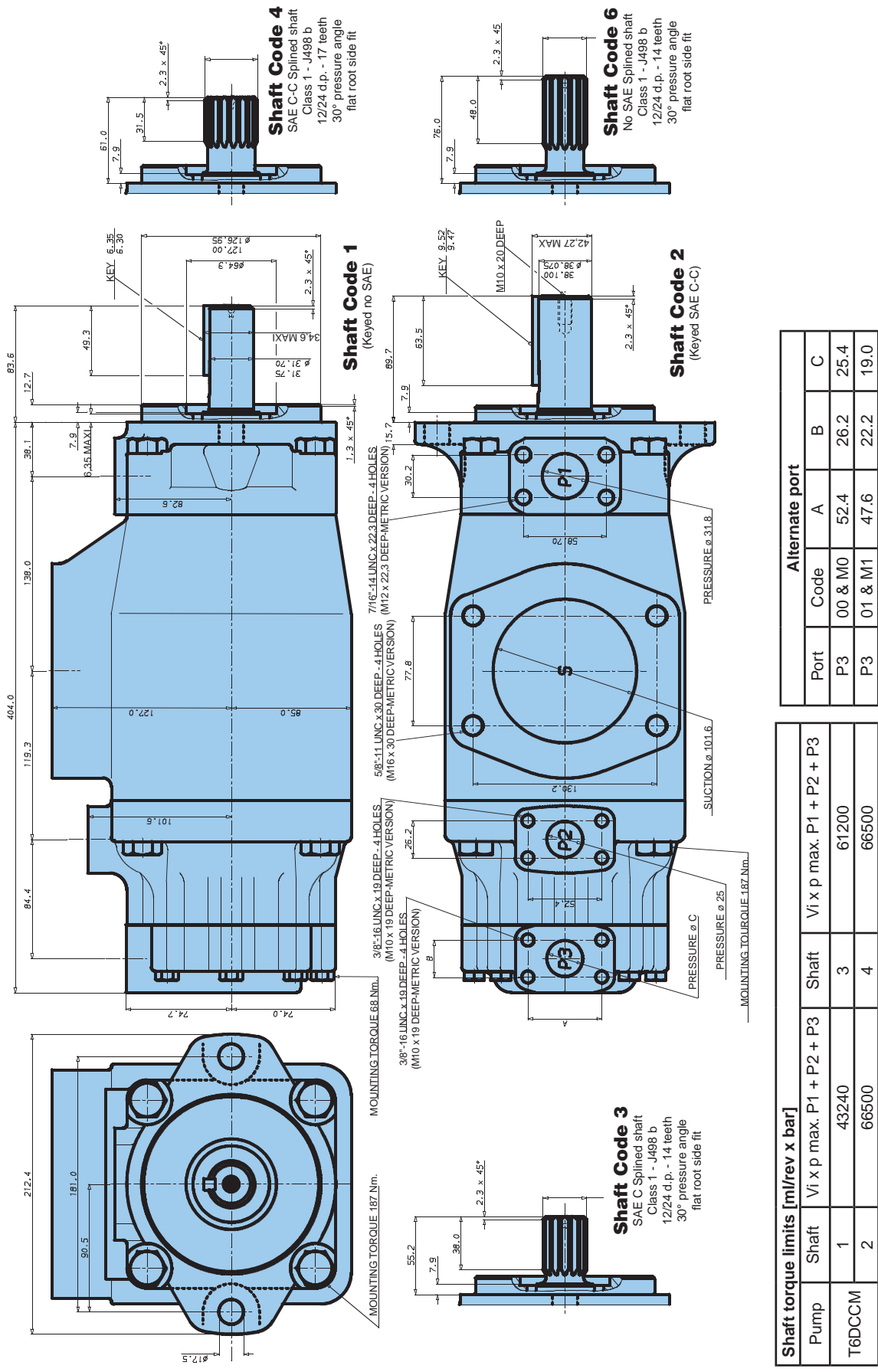
Type of shaft

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

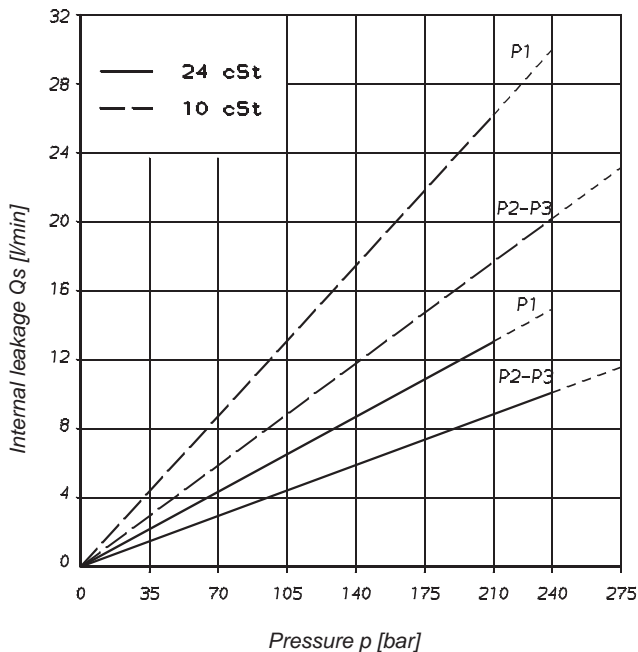
OPERATING CHARACTERISTICS - TYPICAL [24 cSt]

Pressure port	Series	Volumetric Displacement Vi	Flow Q [l/min] & n = 1500 RPM			Input power P [kW] & n = 1500 RPM		
			p = 0 bar	p = 140 bar	p = 240 bar	p = 7 bar	p = 140 bar	p = 240 bar
P1	B14	47.6 ml/rev	71.4	62.1	55.9	2.3	18.5	30.6
	B17	58.2 ml/rev	87.3	78.0	71.8	2.5	22.2	37.0
	B20	66.0 ml/rev	99.0	89.7	83.5	2.8	24.9	41.7
	B24	79.5 ml/rev	119.3	110.0	103.8	3.0	29.6	49.8
	B28	89.7 ml/rev	134.5	125.2	119.0	3.2	33.2	55.9
	B31	98.3 ml/rev	147.4	138.1	131.9	3.3	36.2	61.0
	B35	111.0 ml/rev	166.5	157.2	151.0	3.5	40.7	68.7
	B38	120.3 ml/rev	180.4	171.1	164.9	3.7	43.9	74.3
	B42 ²⁾	136.0 ml/rev	204.0	194.7	188.5	4.0	49.4	83.7
	B45 ²⁾	145.7 ml/rev	218.5	209.2	203.0	4.1	52.8	89.5
B50 ²⁾	158.0 ml/rev	237.0	227.7	224.0 ¹⁾	4.4	57.0	85.0 ¹⁾	
P2 & P3	B03	10.8 ml/rev	16.2	10.7	-	1.3	5.3	-
	B05	17.2 ml/rev	25.8	20.3	15.8	1.4	7.5	12.2
	B06	21.3 ml/rev	31.9	26.5	22.0	1.5	8.9	14.7
	B08	26.4 ml/rev	39.6	34.1	29.6	1.6	10.7	17.7
	B10	34.1 ml/rev	51.1	45.7	41.2	1.7	13.4	22.3
	B12	37.1 ml/rev	55.6	50.2	45.7	1.7	14.4	24.1
	B14	46.0 ml/rev	69.0	63.5	59.0	1.9	17.6	29.5
	B17	58.3 ml/rev	87.4	82.0	77.5	2.1	21.9	36.9
	B20	63.8 ml/rev	95.7	90.2	85.7	2.2	23.8	40.2
	B22	70.3 ml/rev	105.4	100.0	95.5	2.3	26.1	44.1
	B25	79.3 ml/rev	118.9	113.5	109.0	2.5	29.2	49.5
	B28	88.8 ml/rev	133.2	127.7	124.5 ¹⁾	2.8	32.7	48.5 ¹⁾
B31	100.0 ml/rev	150.0	144.5	141.3 ¹⁾	2.8	36.5	54.4 ¹⁾	

¹⁾ B28 - B31 - B50 = 210 bar max. int. ²⁾ B42 - B45 - B50 = 2200 R.P.M. max
 - Not to use because internal leakage greater than 50% theoretical flow

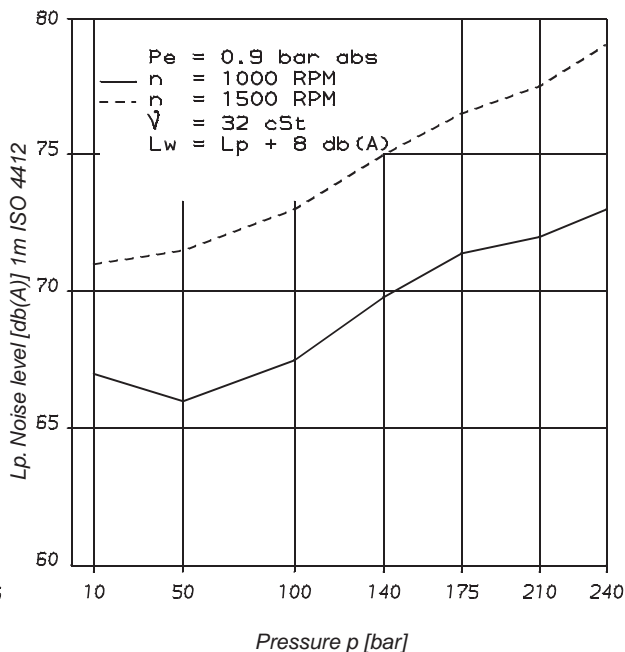


INTERNAL LEAKAGE (TYPICAL)



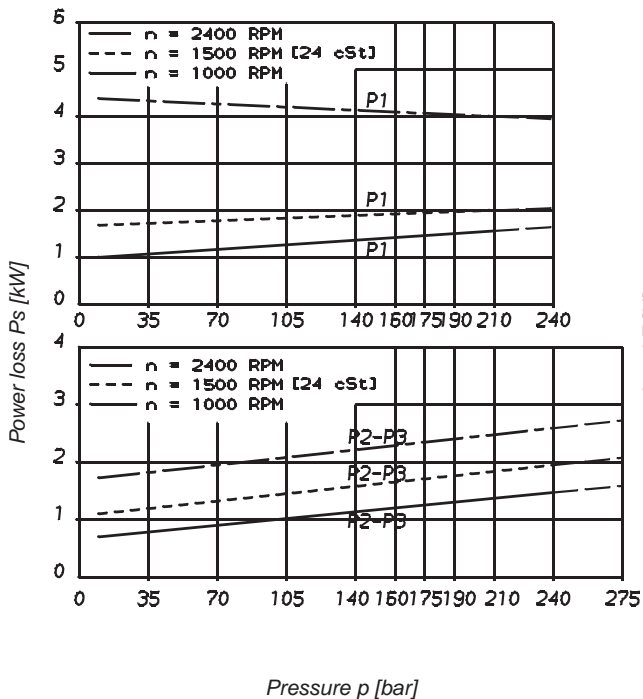
Total leakage is the sum of each section loss at its operating conditions.

NOISE LEVEL (TYPICAL)
T6DCCM - B38 - B22 - B22



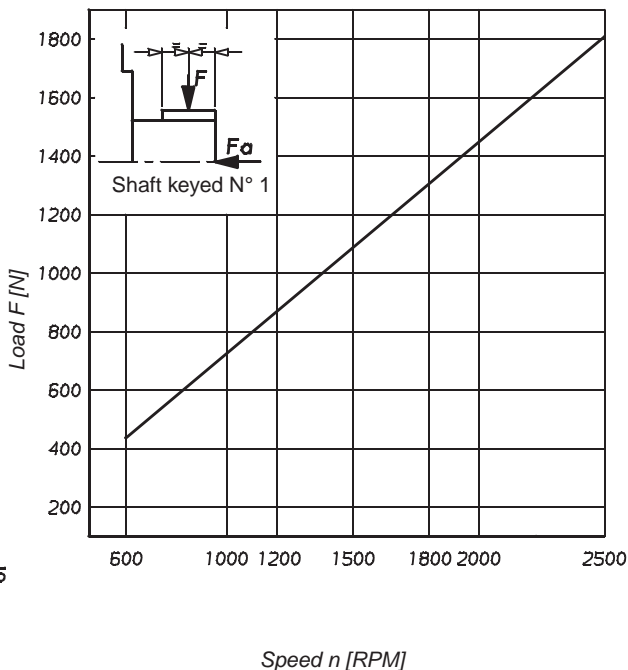
Triple pump noise level is given with each section discharging at the pressure noted on the curve.

POWER LOSS HYDROMECHANICAL (TYPICAL)



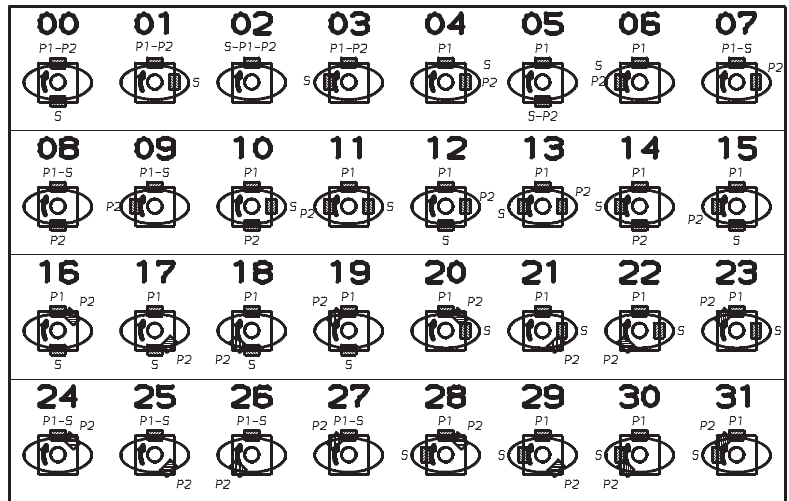
Total hydrodynamic power loss is the sum of each section at its operating conditions.

PERMISSIBLE RADIAL LOAD

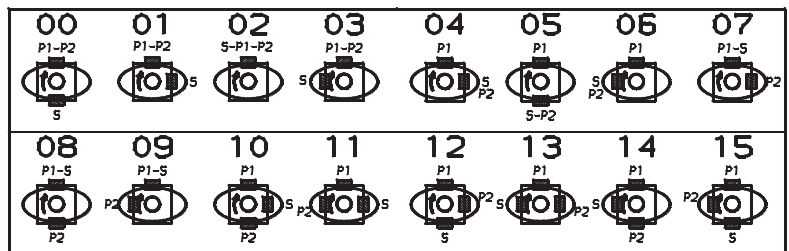


Maximum permissible axial load $F_a = 800\text{ N}$

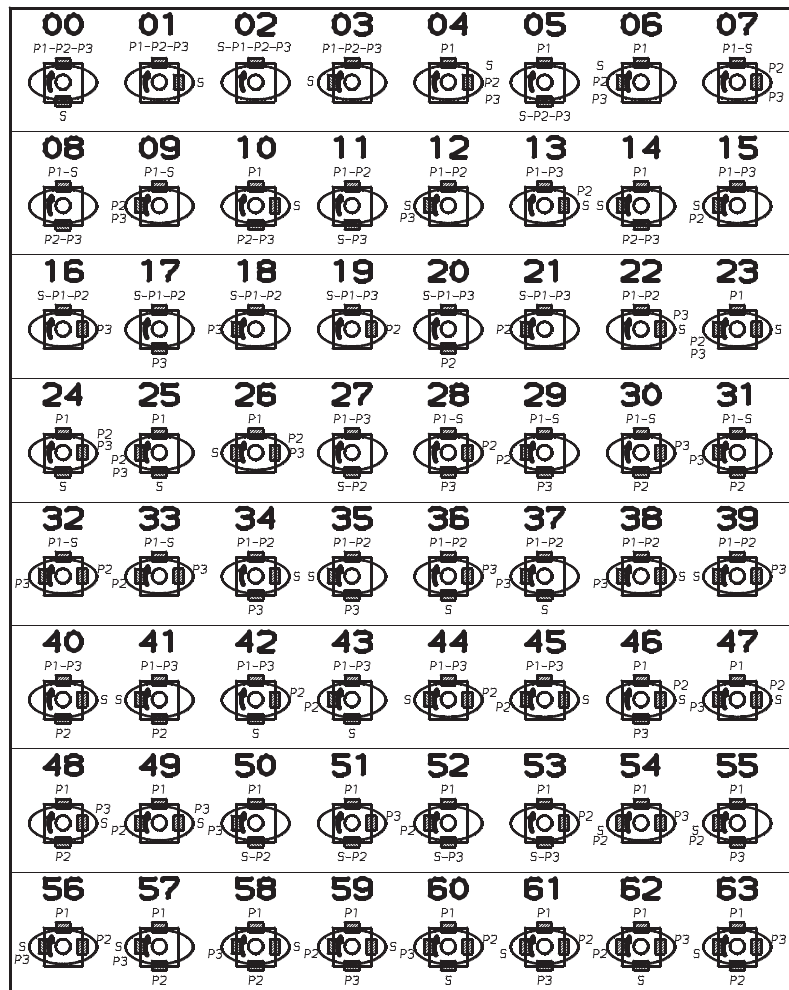
T6CC* - T6DC* - T6EC*



T6ED*



T6DCCM - T6EDC*



T6DCCM - T6EDC*



S	P2	P3				P2	P3			
		02	16	17	18		20	30	08	31
		19	07	28	32			21	33	29
		01	22	34	38		40	48	10	58
		13	04	46	47			45	49	59
		00	36	11	37		27	51	05	50
		42	24	53	60			43	62	52
		03	39	35	12		41	63	14	57
		44	26	61	56			15	54	55

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