

HIGH PERFORMANCE VANE PUMP T6CB

T6CB - 022 - B08-1 R 00 - C 1 - 02 *

Series

Camring for "P1"

Volumetric displacement cm^3/rev (in^3/rev)

*003/B03/Y03 = 10.8 (0.66)	015/B15/Y15 = 50.5 (3.08)
005/B05/Y05 = 17.2 (1.05)	017/B17/Y17 = 58.3 (3.56)
006/B06/Y06 = 21.3 (1.30)	020/B20/Y20 = 63.8 (3.89)
008/B08/Y08 = 26.4 (1.61)	022/B22/Y22 = 70.3 (4.29)
010/B10/Y10 = 34.1 (2.08)	025/B25/Y25 = 79.3 (4.84)
012/B12/Y12 = 37.1 (2.26)	028/B28/Y28 = 88.8 (5.42)
014/B14/Y14 = 46.0 (2.81)	031/B31/Y31 = 100.0 (6.10)

* '0' - Uni - directional 'B' - Bi - directional

Camring for "P2"

Volumetric displacement cm^3/rev (in^3/rev)

B02 = 6.5 (0.39)
B03 = 8.8 (0.54)
B04 = 12.8 (0.78)
B06 = 20.7 (1.26)
B08 = 26.1 (1.59)
B09 = 31.5 (1.92)
B12 = 39.7 (2.42)

Type of shaft

- 1- keyed (no SAE)
- 3- splined

Modifications

Mounting W/connection variables

S = 2 1/2" SAE 4-Bolt Pad.

CODE	P1	P2
01	1" SAE 4 bolt Pad. (UNC)	3/4" SAE 4 bolt Pad. (UNC)
M1	1" SAE 4 bolt Pad. (Metric)	3/4" SAE 4 bolt Pad. (Metric)
02	SAE 16, 1 5/16" 12 UNF-2B	SAE 12, 1 1/16" 12 UNF-2B

Seal class

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

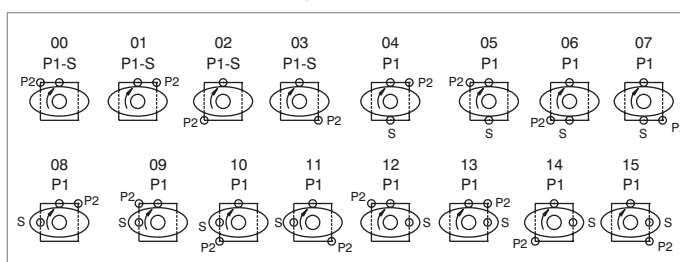
Design letter

Porting combination

00 - standard

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

Porting combination



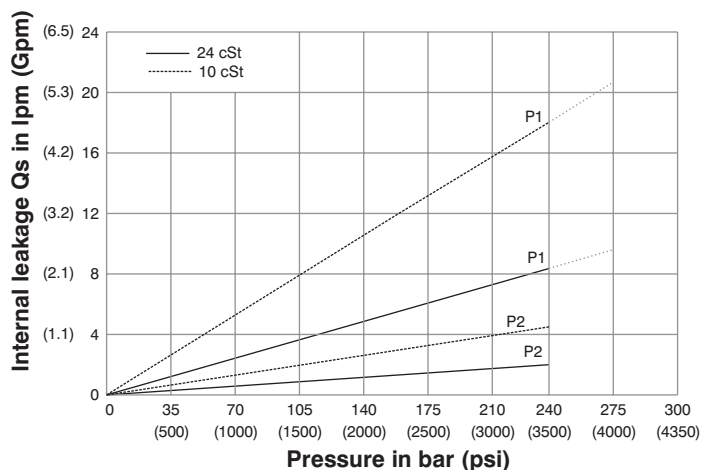
OPERATING CHARACTERISTICS - TYPICAL (24 cST) (Input power p (KW) for one cartridge only)

Pressure port	Series	Volumetric Displacement Vp		Flow q & n = 1500 rpm						Input power p & n = 1500 rpm					
		in^3/rev	cm^3/rev	p = 0 bar (0 psi)	p = 140 bar (2000 psi)	p = 240 bar (3500 psi)	p = 7 bar (100 psi)	p = 140 bar (2000 psi)	p = 240 bar (3500 psi)	p = 7 bar (100 psi)	p = 140 bar (2000 psi)	p = 240 bar (3500 psi)	p = 7 bar (100 psi)	p = 140 bar (2000 psi)	p = 240 bar (3500 psi)
P1	003	0.66	10.8	4.29	16.2	2.96	11.2	2.04	7.7	1.74	1.3	7.11	5.3	11.26	8.4
	005	1.05	17.2	6.83	25.8	5.50	20.8	4.57	17.3	1.88	1.4	10.06	7.5	16.36	12.2
	006	1.30	21.3	8.44	31.9	7.11	26.9	6.19	23.4	2.01	1.5	11.94	8.9	19.71	14.7
	008	1.61	26.4	10.48	39.6	9.15	34.6	8.22	31.1	2.15	1.6	14.35	10.7	22.93	17.7
	010	2.08	34.1	13.52	51.1	12.19	46.1	11.26	42.6	2.28	1.7	18.64	13.4	29.90	22.3
	012	2.26	37.1	14.71	55.6	13.36	50.6	12.46	47.1	2.28	1.7	19.31	14.4	32.32	24.1
	014	2.81	46.0	18.25	69.0	16.93	64.0	16.00	60.5	2.55	1.9	23.60	17.6	39.56	29.5
	015	3.08	50.5	20.00	75.6	18.73	73.2	19.02	67.5	2.68	2.0	25.61	19.1	42.91	32.0
	017	3.56	58.3	23.12	87.4	21.79	82.4	20.87	78.9	2.82	2.1	29.37	21.9	49.48	36.9
	020	3.89	63.8	25.32	95.7	23.99	90.7	23.07	87.2	2.95	2.2	31.92	23.8	53.91	40.2
	022	4.29	70.3	27.88	105.4	26.56	100.4	25.63	96.9	3.08	2.3	35.00	26.1	59.14	44.1
	025 ¹⁾	4.84	79.3	31.46	118.9	30.13	113.9	29.21	110.4	3.35	2.5	39.16	29.2	66.38	49.5
	028 ^{1,2)}	5.42	88.8	35.24	133.2	33.92	128.2	33.28	125.8	3.75	2.8	43.85	32.7	65.04	48.5
	031 ^{1,2)}	6.10	100.0	39.68	150.0	38.35	145.0	37.72	142.6	3.75	2.8	48.95	36.5	72.95	54.4
P2				p = 0 bar (0 psi)	p = 100 bar (1500 psi)	p = 240 bar (3500 psi)	p = 7 bar (100 psi)	p = 100 bar (1500 psi)	p = 240 bar (3500 psi)						
	B02	0.39	6.5	2.64	10.0	2.11	8.0	-	-	0.53	0.4	2.81	2.1	-	-
	B03	0.54	8.8	3.49	13.2	2.96	11.2	2.43	9.2	0.67	0.5	3.62	2.7	7.11	5.3
	B04	0.78	12.8	5.08	19.2	4.55	17.2	4.02	15.2	0.93	0.7	5.23	3.9	10.06	7.5
	B06	1.26	20.7	8.20	31.0	7.67	29.0	7.14	27.0	1.07	0.8	8.05	6.0	12.34	9.2
	B08	1.59	26.1	10.34	39.1	9.78	37.0	9.25	35.0	1.34	1.0	10.05	7.5	15.69	11.7
	B09	1.92	31.5	12.48	47.2	11.93	45.1	11.42	43.2	1.47	1.1	11.94	8.9	23.60	17.6
	B12	2.42	39.7	15.74	59.5	15.18	57.4	14.68	55.5	1.74	1.3	15.02	11.2	29.50	22.0

1) 025-028-031 = 2500 RPM. max. 2) 028-031 = 210 bar (3000 psi) max. int.

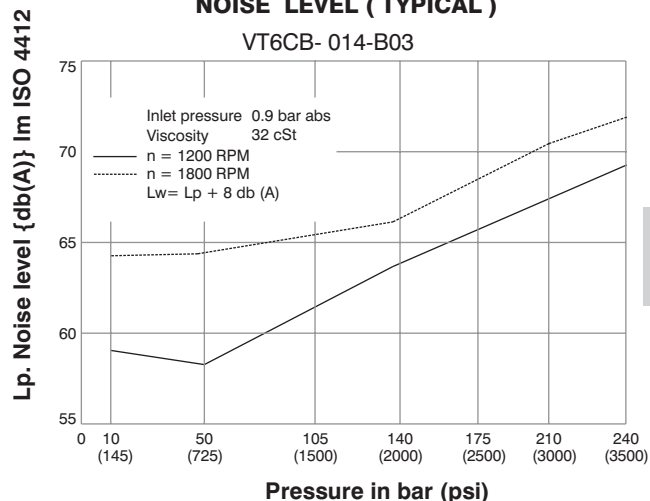
- Not to use because internal leakage greater than 50% of theoretical flow.

INTERNAL LEAKAGE (TYPICAL)



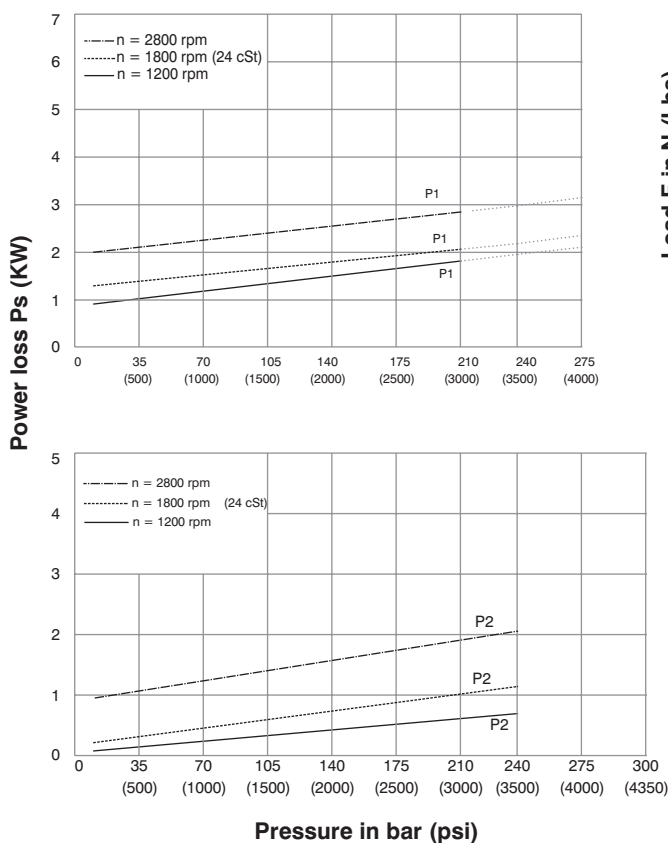
Do not operate pump more than 5 seconds at any speed or viscosity if internal leakage is more than 50 of theoretical flow.
Total leakage is the sum of each section loss at its operating conditions.

NOISE LEVEL (TYPICAL)



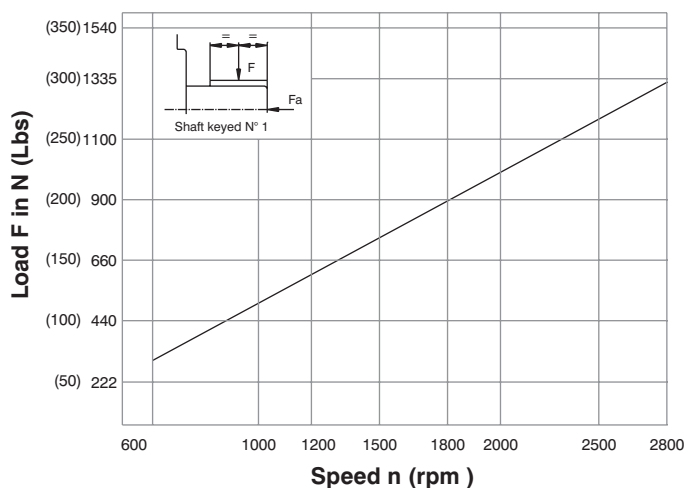
Double pump noise level is given with each section discharging at the pressure noted on the curve.

HYDROMECHANICAL POWER LOSS (TYPICAL)

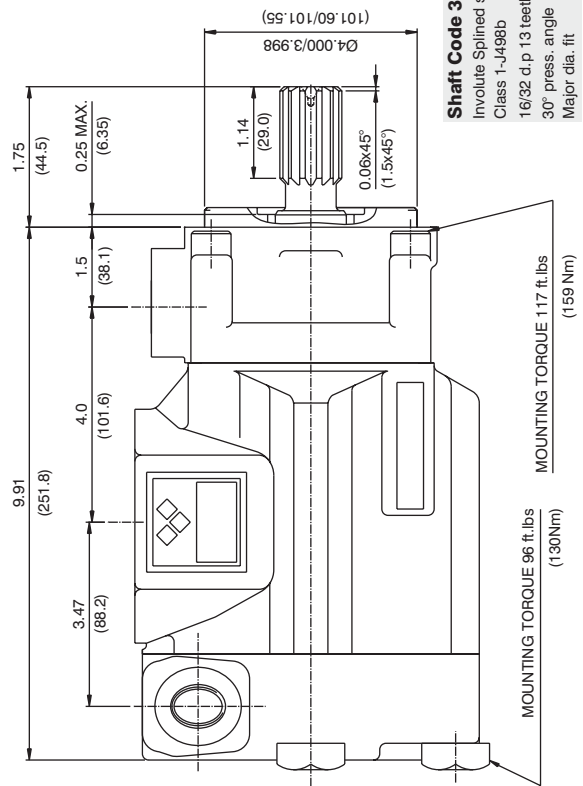
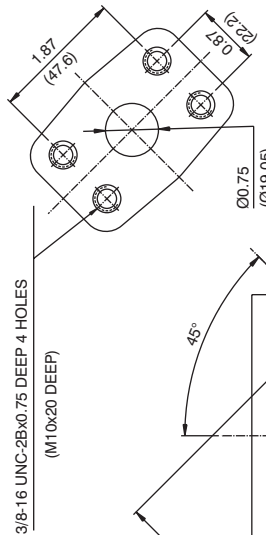
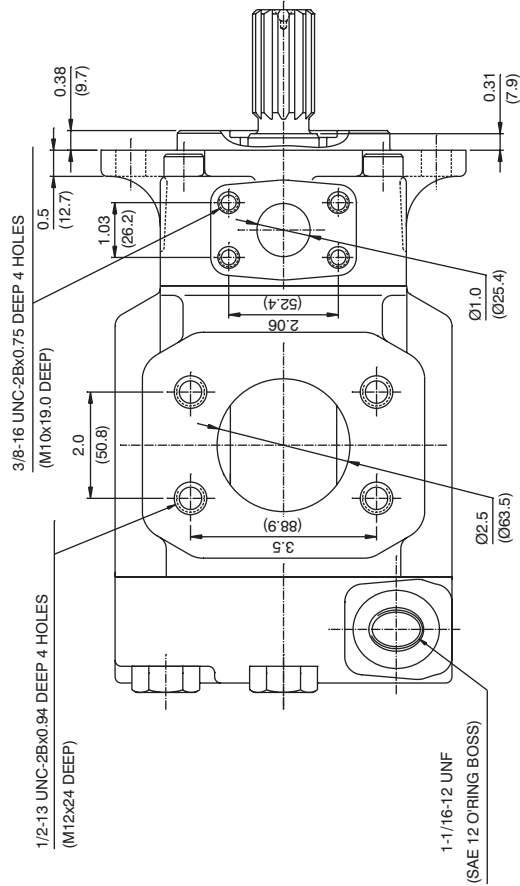
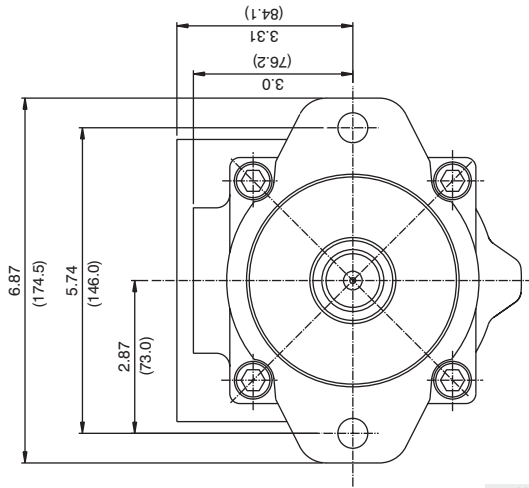
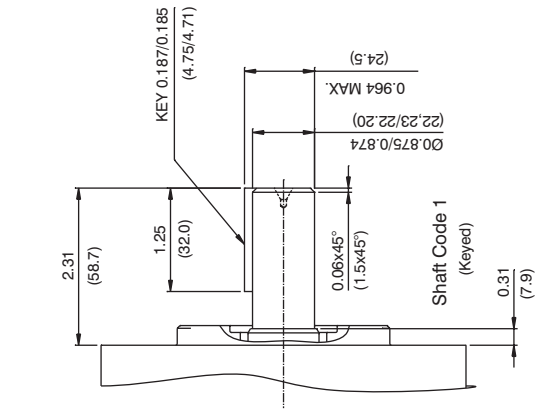


Total hydromechanical power loss is the sum of each section at its operating conditions.

PERMISSIBLE RADIAL LOAD



Maximum permissible axial load F_a = 800N (180 lbs)



Shaft Code 3
Involute Splined shaft
Class 1-J498b
16/32 d.p 13 teeth
30° press. angle
Major dia. fit

