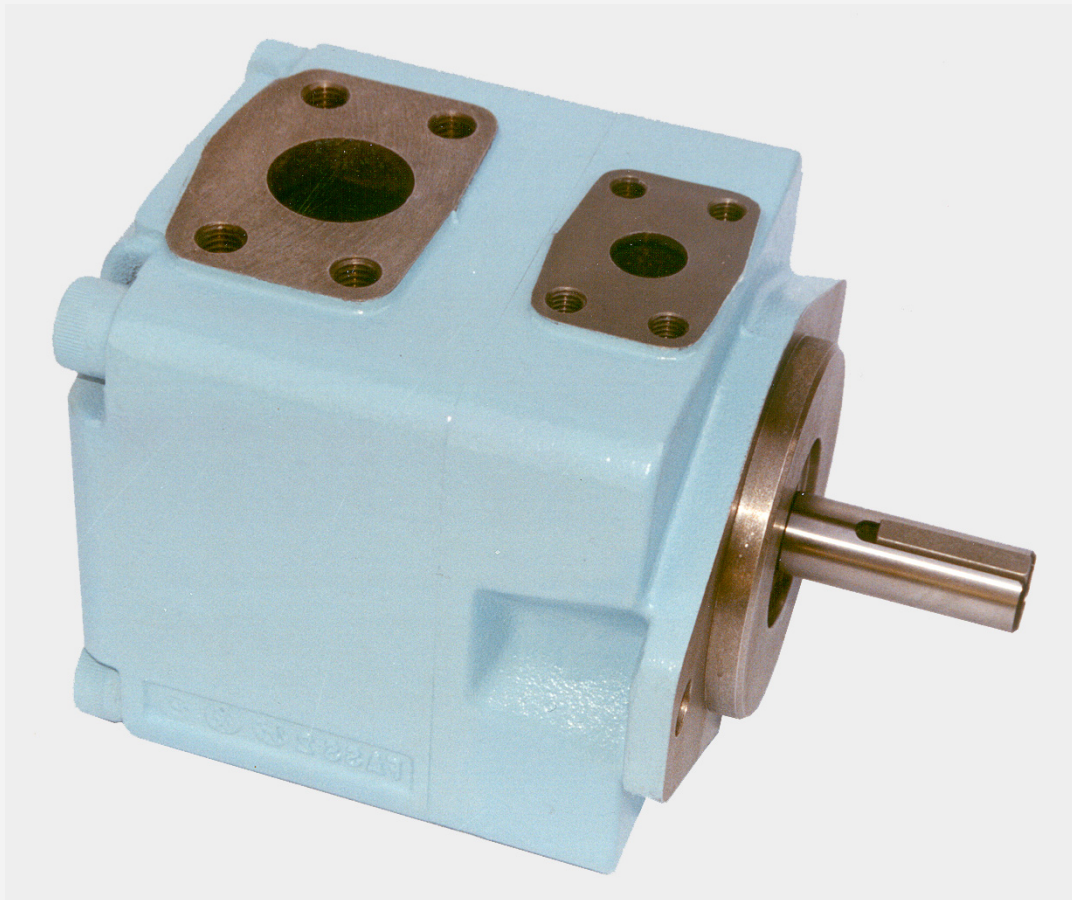


**DENISON HYDRAULICS**  
**high performance hydraulic vane pumps**  
**single, double, triple**  
**T7 and T67 industrial application**



Publ. 1 - EN 079 - B 01 / 97 / 3000 / FB Replaces : 1 - EN 079 - A

**DENISON** Hydraulics

**Model No.**

**T67DB W - 045 - B10 - 1 R 00 - A 1 M1 -**

Series - SAE C 2 bolts  
Mounting flange J744c

Use for severe duty shaft only

**Cam ring for "P1"**

(Delivery at 0 bar & 1500 RPM)

014 = 71,4 l/min	035 = 166,5 l/min
020 = 99,0 l/min	038 = 180,4 l/min
024 = 119,3 l/min	042 = 204,0 l/min
028 = 134,5 l/min	045 = 218,5 l/min
031 = 147,4 l/min	050 = 237,0 l/min

**Cam ring for "P2"**

(Delivery at 0 bar & 1500 RPM)

B02 = 8,7 l/min	B07 = 33,7 l/min
B03 = 14,7 l/min	B08 = 37,4 l/min
B04 = 19,2 l/min	B10 = 47,7 l/min
B05 = 23,8 l/min	B12 = 61,5 l/min
B06 = 29,7 l/min	B15 = 75,0 l/min

**Type of shaft**

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

**Type of shaft - W severe duty**

- 5 = keyed (non SAE)

**Modifications**

**Mounting w/connection variables**

- 11 = 4 bolts SAE flanges (J518c) UNC thread
- M1 = 4 bolts SAE flanges (J518c) metric thread

**Seal class**

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

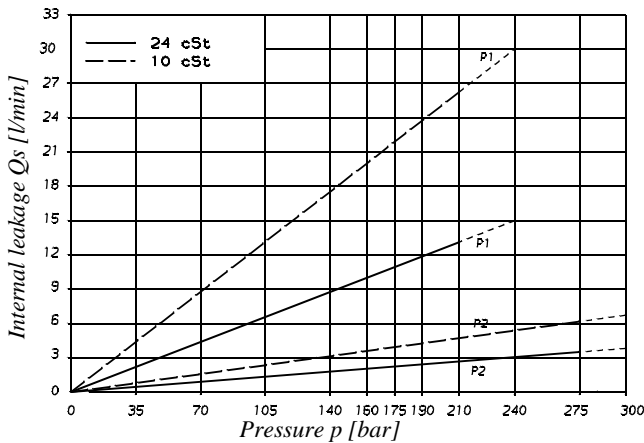
**Design letter**

- 00 = standard

**Direction of rotation (view on shaft end)**

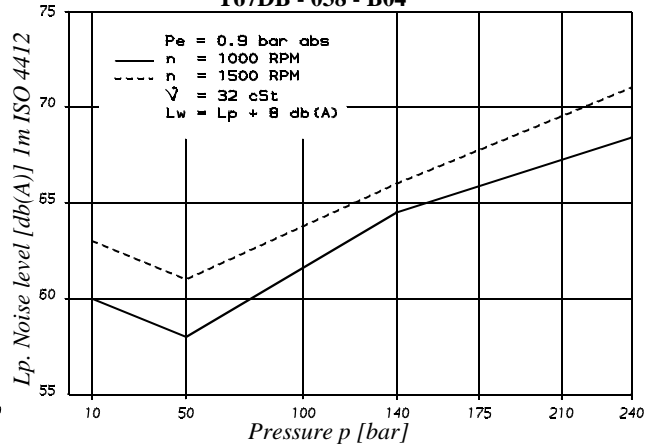
- R = clockwise
- L = counter-clockwise

**INTERNAL LEAKAGE (TYPICAL)**



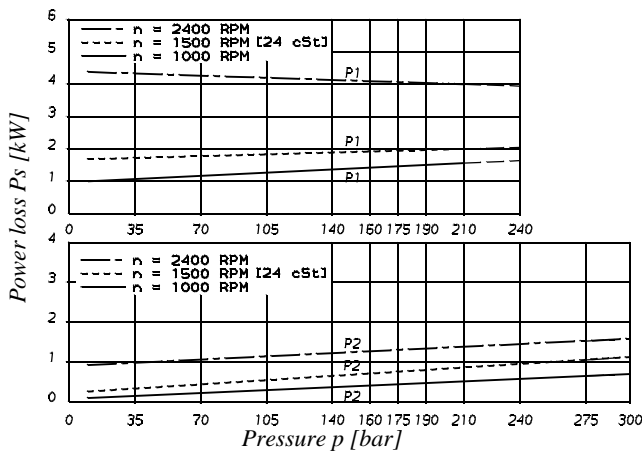
Do not operate pump more than 5 seconds at any speed or viscosity if internal leakage is higher than 50% of theoretical flow. Total leakage is the sum of each section loss at its operating conditions.

**NOISE LEVEL (TYPICAL)**  
T67DB - 038 - B04



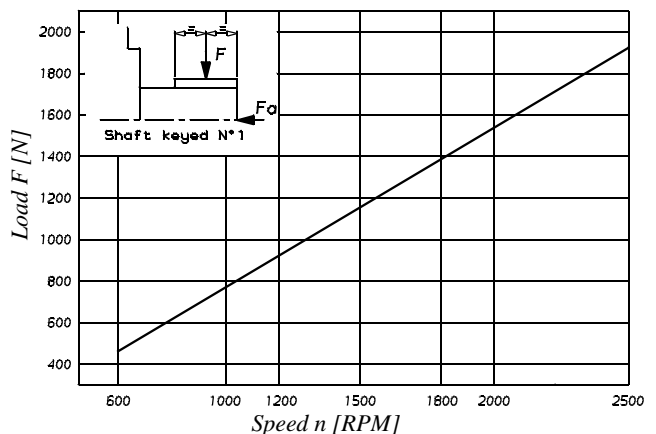
Double pump noise level is given with each section discharging at the pressure noted on the curve.

**POWER LOSS HYDROMECHANICAL (TYPICAL)**



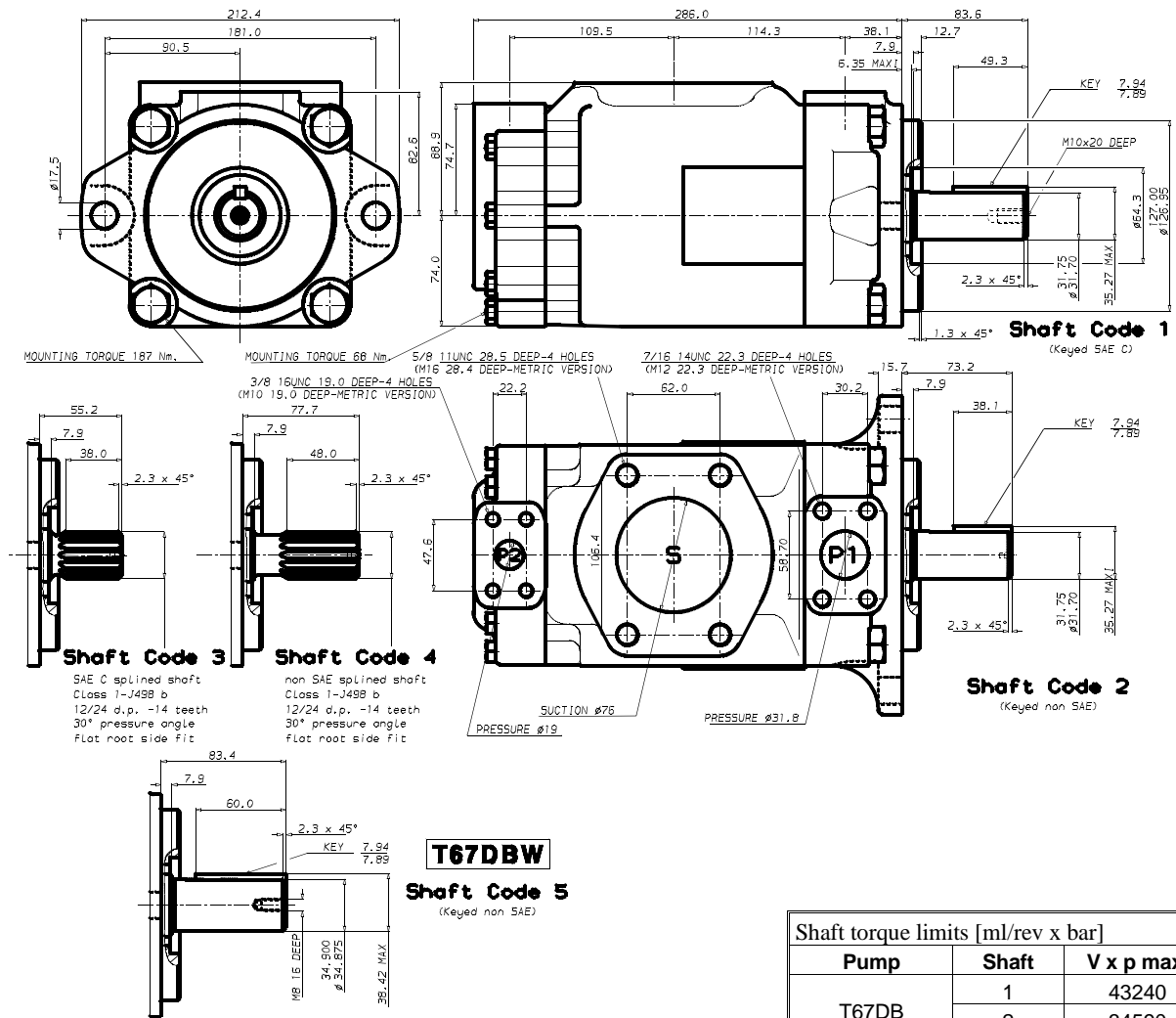
Total hydromechanical power loss is the sum of each section at its operating conditions.

**PERMISSIBLE RADIAL LOAD**



Maximum permissible axial load  $F_a = 1200 N$

**DIMENSIONS & OPERATING CHARACTERISTICS - Weight : 36,6 kg - T67DB SERIES**



Shaft torque limits [ml/rev x bar]		
Pump	Shaft	V x p max.
T67DB	1	43240
	2	34590

**OPERATING CHARACTERISTICS - TYPICAL [24 Cst]**

Pressure port	Series	Volumetric displacem. Vi	Flow q <sub>v</sub> [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	014	47,6 ml/rev	71,4	62,1	55,9	2,3	18,5	30,6
	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	147,4	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*	136,0 ml/rev	204,0	194,7	188,5	4,0	49,4	83,7
	045*	145,7 ml/rev	218,5	209,2	203,0	4,1	52,8	89,5
	050*	158,0 ml/rev	237,0	227,7	224,0**	4,4	57,0	85,0**
P2			p = 0 bar	p = 140 bar	p = 300 bar	p = 7 bar	p = 140 bar	p = 300 bar
	B02	5,8 ml/rev	8,7	7,0	5,1	0,5	2,6	5,1
	B03	9,8 ml/rev	14,7	13,0	11,1	0,6	4,0	8,1
	B04	12,8 ml/rev	19,2	17,5	15,6	0,6	5,0	10,4
	B05	15,9 ml/rev	23,9	22,2	20,2	0,7	6,1	12,7
	B06	19,8 ml/rev	29,7	28,0	26,1	0,7	7,5	15,6
	B07	22,5 ml/rev	33,7	32,0	30,2	0,8	8,5	17,6
	B08	24,9 ml/rev	37,4	35,7	33,7	0,8	9,3	19,5
	B10	31,8 ml/rev	47,7	46,0	44,1	0,9	11,7	24,6
	B12	41,0 ml/rev	61,5	59,8	57,9	1,1	14,9	31,5
	B15	50,0 ml/rev	75,0	73,3	71,6***	1,3	18,1	35,7***

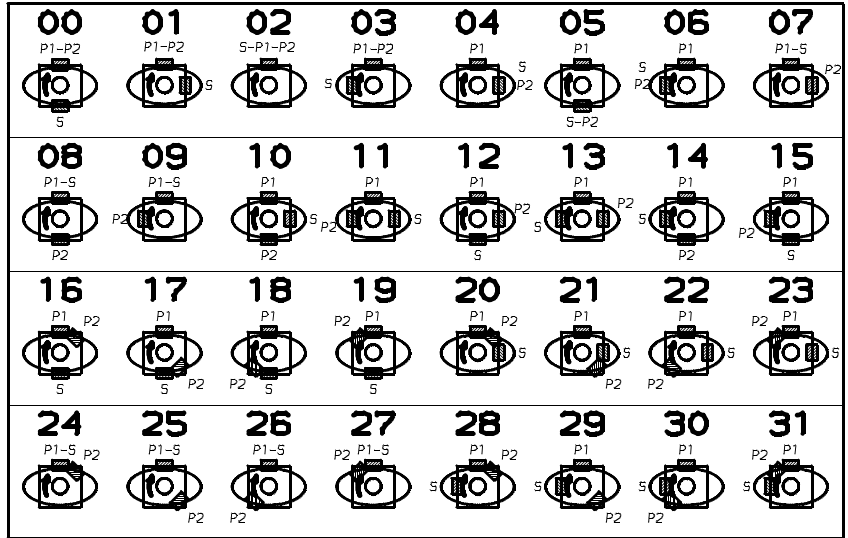
\* 042 - 045 - 050 = 2200 RPM max.

\*\* 050 = 210 bar max. int.

\*\*\* B15 = 280 bar max. int.

PORTING DIAGRAMS - T67 SERIES INDUSTRIAL APPLICATION

T67BB - T67CB - T67DB - T67EB



T67DBB, T67DCB & T67EDB

