

Industrial Hydraulic Pumps T7/T67/T6

Denison Vane Technology, fixed displacement

aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



ENGINEERING YOUR SUCCESS.

Model No. **T7EE or T7EES - 066 - 045 - 1 R 00 - A 1 0 0 0 - ..**

T7EE series - ISO 4 bolts 3019-2

Mounting flange 250 B4 HW

T7EES series - SAE E 4 bolts

J744 mounting flange

P1 P2

Displacement P1 & P2

Volumetric displacement (ml/rev.)

042 = 132,3 057 = 183,3

045 = 142,4 062 = 196,7

050 = 158,5 066 = 213,3

052 = 164,8 072 = 227,1

054 = 171,0 085 = 268,7

Type of shaft T7EES

1 = keyed (SAE CC) 4 = splined (SAE D & E) 13 teeth

3 = splined (SAE CC) 17 teeth 5 = keyed (SAE D & E)

Type of shaft T7EE

2 = keyed (ISO 3019-2 - G45N)

Direction of rotation (shaft end view)

R = Clockwise

L = Counter-clockwise

Modifications

Mounting w/connection variables

4 bolts SAE flanges J518

P1 & P2 = 1.1/2" - S = 4"		
	T7EE - T7EES	T7EES
Type	Metric thread	UNC thread
Code	M0	00

Coupling adaptor

0 = none

2 = SAE B

3 = SAE BB

* for SAE C, please contact Parker

Seal class

1 = S1 BUNA N - 0,7 bar max. (for mineral oil)

4 = S4 EPDM - 7 bar max. (for fire resistant fluids)

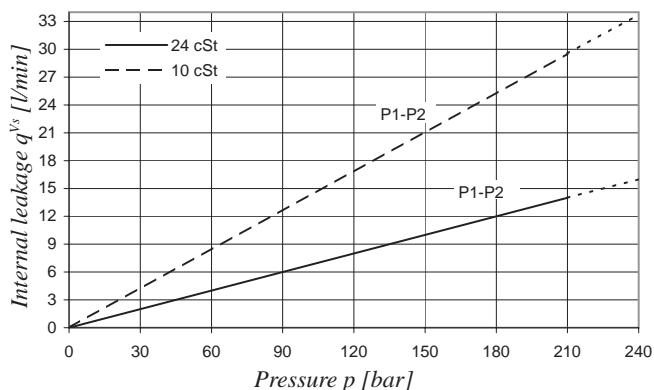
5 = S5 VITON® - 7 bar max. (for mineral oil and fire resistant fluids)

Design letter

Porting combination (see page 72)

00 = standard

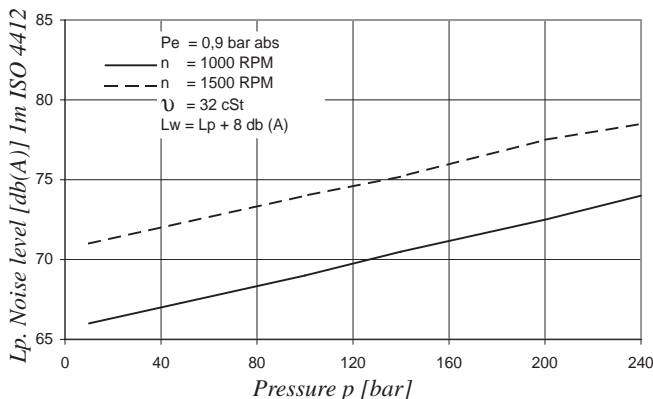
INTERNAL LEAKAGE (TYPICAL)



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

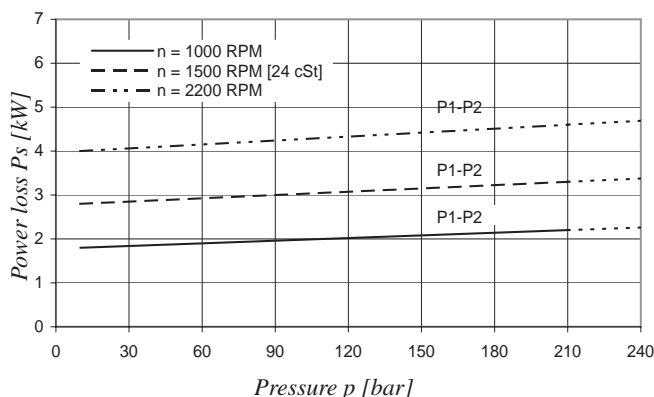
Total leakage is the sum of each section loss under its respective operating conditions.

NOISE LEVEL (TYPICAL) - T7EE - 050 - 050



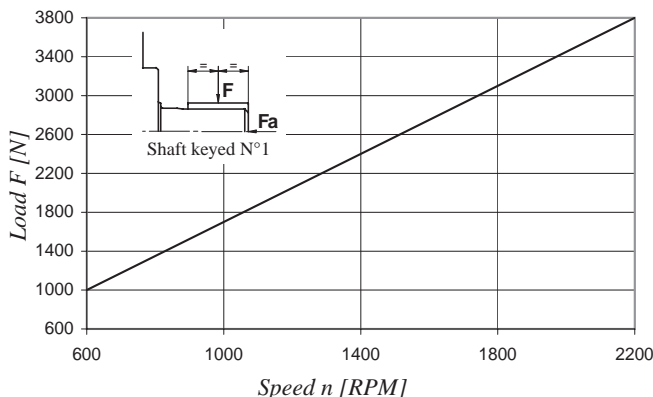
Double pump noise level is given with both stages discharging at the pressure value indicated on the curve.

POWER LOSS HYDROMECHANICAL (TYPICAL)



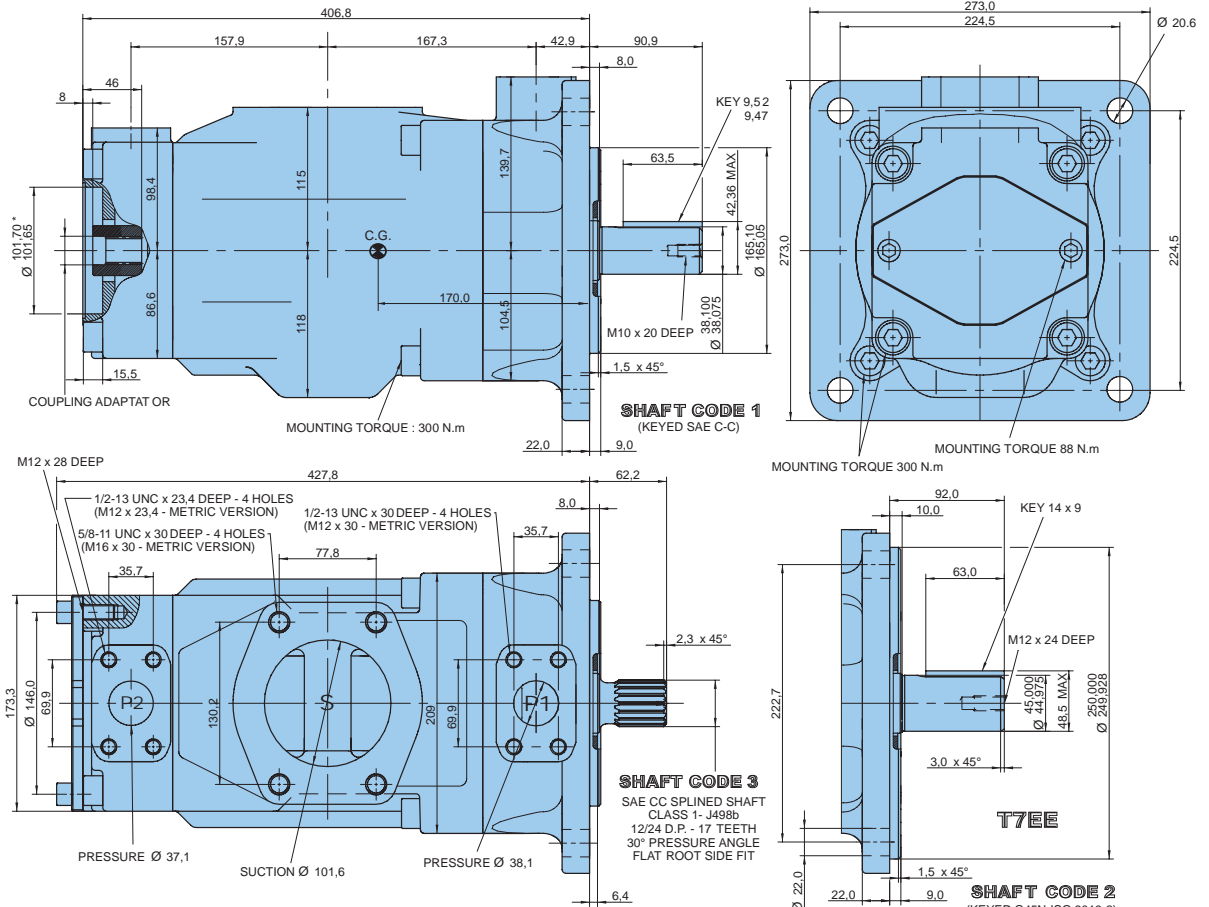
Total hydromechanical power loss is the sum of each section loss under its respective operating conditions.

PERMISSIBLE RADIAL LOAD



Maximum permissible axial load Fa = 2000 N





Code	Coupling adaptor
0	Without coupling
2	SAE B - 13 teeth - Pitch 16/32 Major dia. (min) 22,225 - Minor dia. (min) 19,134
3	SAE BB - 15 teeth - Pitch 16/32 Major dia. (min.) 25,400 - Minor dia. (min.) 22,268

Shaft torque limits [ml/rev. x bar]			
Shaft	Vi x p max.	Coupling drive	Vi x p max.
1	90380	SAE B	20600
2	114600	SAE BB	32670
3	126800		
4	126800		
5	118340		

OPERATING CHARACTERISTICS - TYPICAL [24 cSt]

Pressure port	Series	Vi Volumetric displacement	Flow q _v [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 & P2	042	132,3 ml/rev	198,5	188,5	181,3	5,2	49,4	82,6
	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
	054	171,0 ml/rev	256,5	246,5	239,4	5,9	63,0	105,8
	057	183,3 ml/rev	275,0	265,0	257,9	6,1	67,3	113,2
	062	196,7 ml/rev	295,0	285,0	277,9	6,4	71,9	121,3
	066	213,3 ml/rev	319,9	309,0	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	268,7 ml/rev	403,0	392,0 ¹⁾	-	9,1	65,8 ¹⁾	-

¹⁾ 085 = 90 bar max. int.
* For SAE C, please contact Parker.



Porting Diagrams

Hydraulic Pumps

T7/T67/T6C Industrial, Denison Vane Pumps

T7BB/T7BBS

T6CC

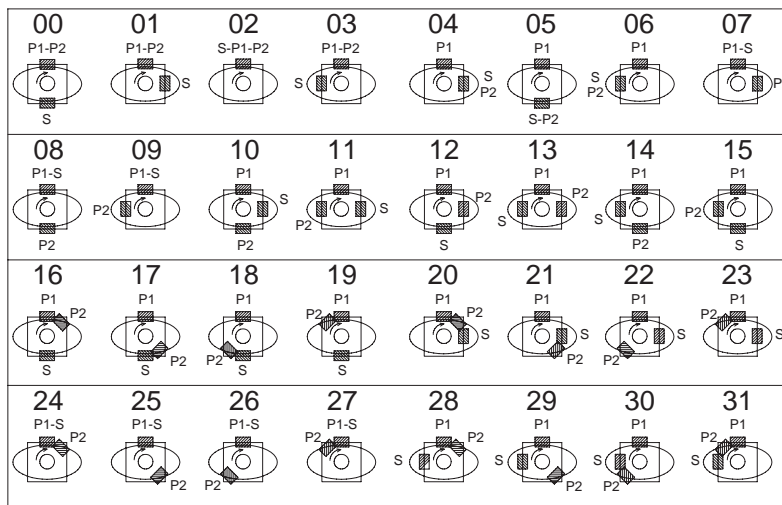
T67CB

T7DB/T7DBS

T67DC

T7EB/T7EBS

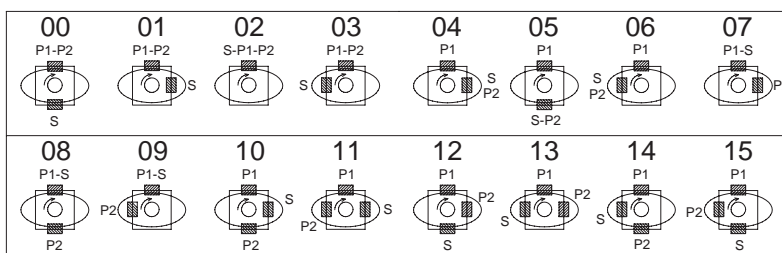
T67EC



T7DD/T7DDS

T7ED/T7EDS

T7EE/T7EES



T7DBB/T7DBBS

T7DCB/T7DCBS

T7DCC/T7DCCS

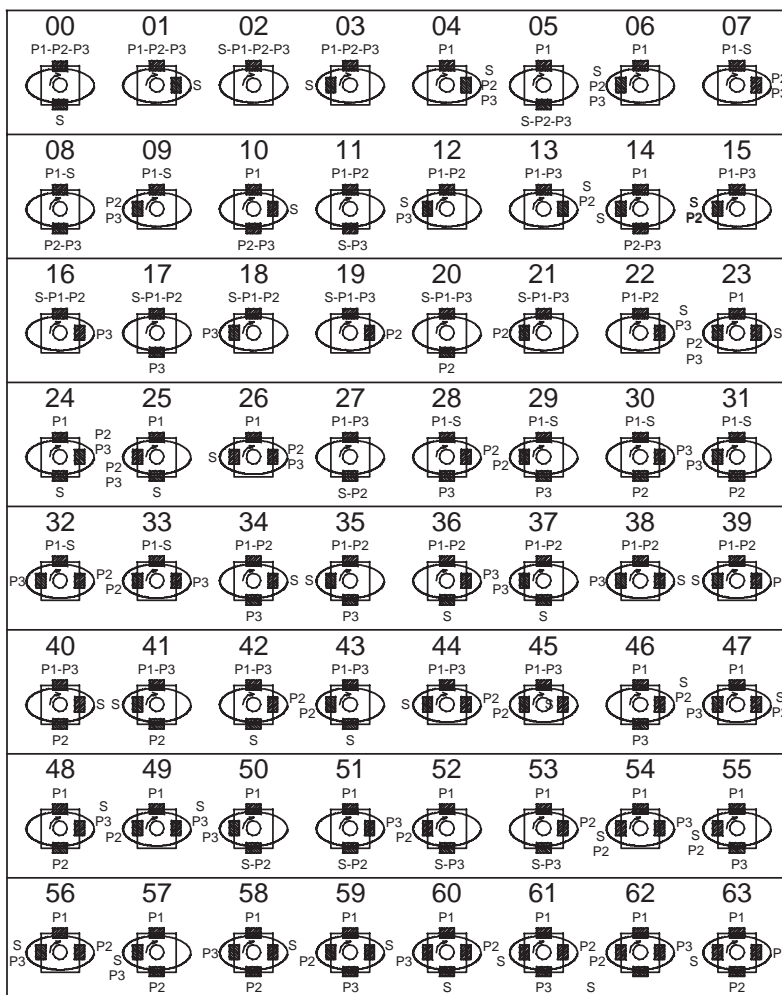
T7DBB/T7DBBS

T67DDCS

T7EDB/T7EDBS

T67EDC/T67EDCS

T7EEC/T7EECS



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