

Model No. **T7EDB or T7EDBS - 062 - B35 - B10 - 1 R 00 - A 1 - 01 - ..**

T7EDB series - ISO 4 bolts 3019-2 □

Mounting flange 250-B4-HW

T7EDBS series - SAE E 4 bolts

J744 mounting flange

Displacement for "P1"

Volumetric displacement (ml/rev)

042 = 132,3 054 = 171,0 066 = 213,3

045 = 142,4 057 = 183,3 072 = 227,1

050 = 158,5 062 = 196,7 085 = 268,7

052 = 164,8

Displacement for "P2"

Volumetric displacement (ml/rev)

B14 = 44,0 B24 = 81,1 B38 = 120,6

B17 = 55,0 B28 = 90,0 B42 = 137,5

B20 = 66,0 B31 = 99,2 045 = 145,7

B22 = 70,3 B35 = 113,4 050 = 158,0

Displacement for "P3"

Volumetric displacement (ml/rev)

B02 = 5,8 B07 = 22,5 B11 = 35,0

B03 = 9,8 B08 = 24,9 B12 = 41,0

B04 = 12,8 B09 = 28,0 B14 = 45,0

B05 = 15,9 B10 = 31,8 B15 = 50,0

B06 = 19,8

Modifications

Mounting w/connection variables

4 bolts SAE flange J518

P1 = 1.1/2" - P2 = 1.1/4" - S = 4"		
	Metric thread	UNC thread
T7EDB-P3 = 1"	M0	
T7EDB-P3 = 3/4"	M1	
T7EDBS-P3 = 1"	M0	00
T7EDBS-P3 = 3/4"	M1	01

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 pages 72 - 73)

00 = standard

Direction of rotation (shaft end view)

R = Clockwise L = Counter-clockwise

Type of shaft T7EDB

1 = keyed (ISO 3019/2 - G45N)

Type of shaft T7EDBS

2 = keyed (SAE D & E)

3 = splined 8/16 (SAE D & E) (13 teeth)

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	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⁾	-
			p = 0 bar	p = 140 bar	p = 250 bar	p = 7 bar	p = 140 bar	p = 250 bar
P2	B14	44,0 ml/rev	66,0	59,4	54,2	1,5	16,6	29,0
	B17	55,0 ml/rev	82,5	75,9	70,7	1,7	20,4	35,8
	B20	66,0 ml/rev	99,0	92,4	87,2	1,9	24,3	42,7
	B22	70,3 ml/rev	105,5	98,8	93,7	2,0	25,8	45,4
	B24	81,1 ml/rev	121,7	115,0	109,9	2,2	29,5	52,1
	B28	90,0 ml/rev	135,0	128,4	123,2	2,3	32,7	57,7
	B31	99,2 ml/rev	148,8	142,2	137,0	2,5	35,9	63,5
	B35	113,4 ml/rev	170,1	163,5	158,3	2,7	40,8	72,3
	B38	120,6 ml/rev	180,9	174,3	169,1	2,9	43,4	76,8
	B42	137,5 ml/rev	206,3	199,6	194,5	3,2	49,3	87,4
	045	145,7 ml/rev	218,6	209,2	202,6 ³⁾	4,1	52,8	89,5 ³⁾
050	158,0 ml/rev	237,0	227,7	223,0 ²⁾	4,4	57,1	85,0 ²⁾	
			p = 0 bar	p = 140 bar	p = 300 bar	p = 7 bar	p = 140 bar	p = 300 bar
P3	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
	B09	28,0 ml/rev	42,0	40,3	38,4	0,9	10,4	21,8
	B10	31,8 ml/rev	47,7	46,0	44,1	0,9	11,7	26,2
	B11	35,0 ml/rev	52,5	50,8	48,9	1,0	12,8	27,0
	B12	41,0 ml/rev	61,5	59,8	57,9	1,1	14,9	31,5
	B14	45,0 ml/rev	67,5	65,8	63,9	1,2	16,3	34,5
	B15	50,0 ml/rev	75,0	73,3	71,6 ⁴⁾	1,3	18,1	35,7 ⁴⁾

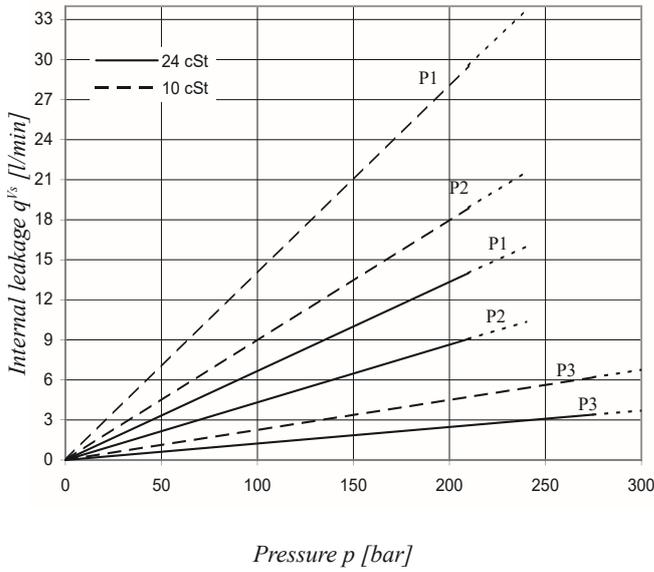
¹⁾ 085 = 90 bar max. int.

²⁾ 050 = 210 bar max. int.

³⁾ 045 = 240 bar max. int.

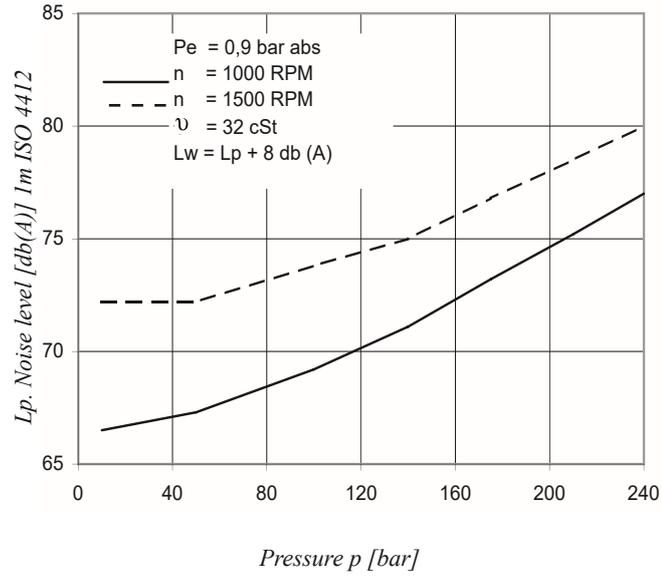
⁴⁾ B15 = 280 bar max. int.

INTERNAL LEAKAGE (TYPICAL)



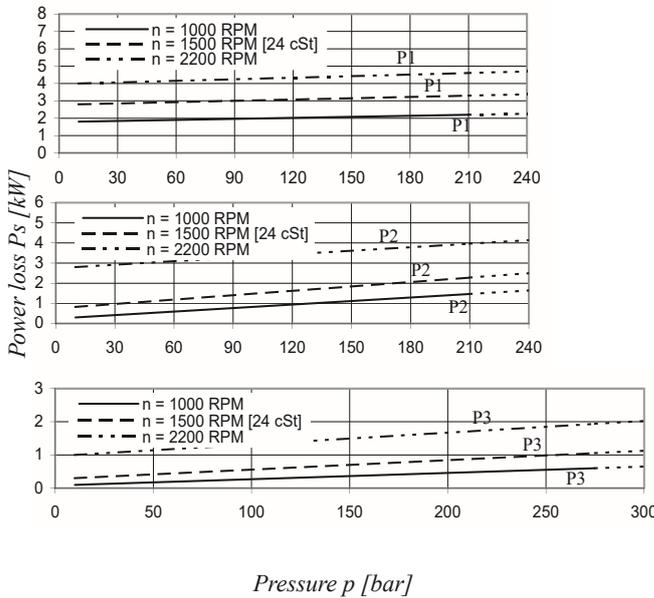
Do not operate pump more than 5 seconds at any speed or viscosity if internal leakage is higher than 50% of theoretical flow.
 Total leakage is the sum of each section loss under its respective operating conditions.

NOISE LEVEL (TYPICAL) - T7EDB - 062 - B35 - B04



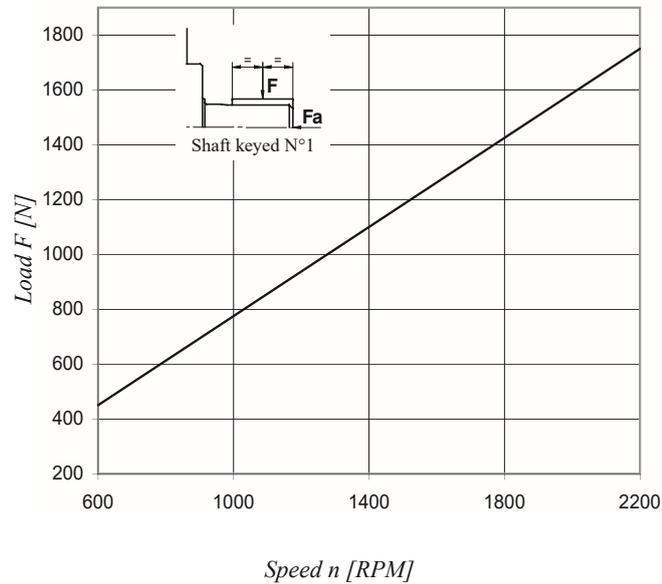
Triple pump noise level is given with all stages discharging at the pressure value indicated on the curve.

POWER LOSS HYDROMECHANICAL (TYPICAL)

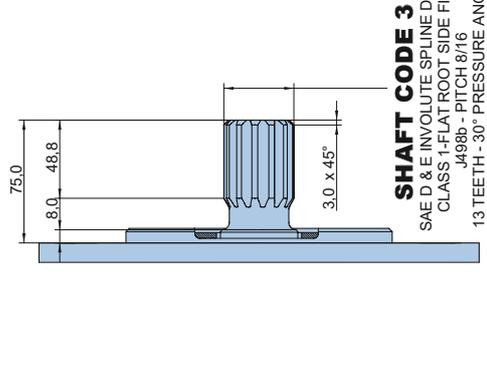
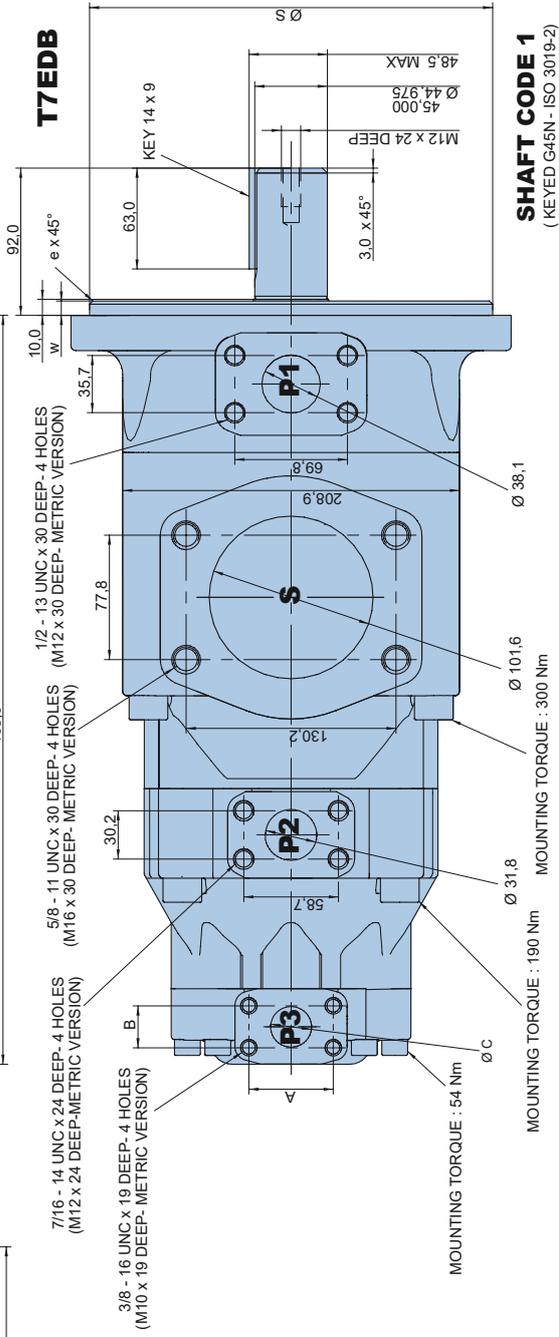
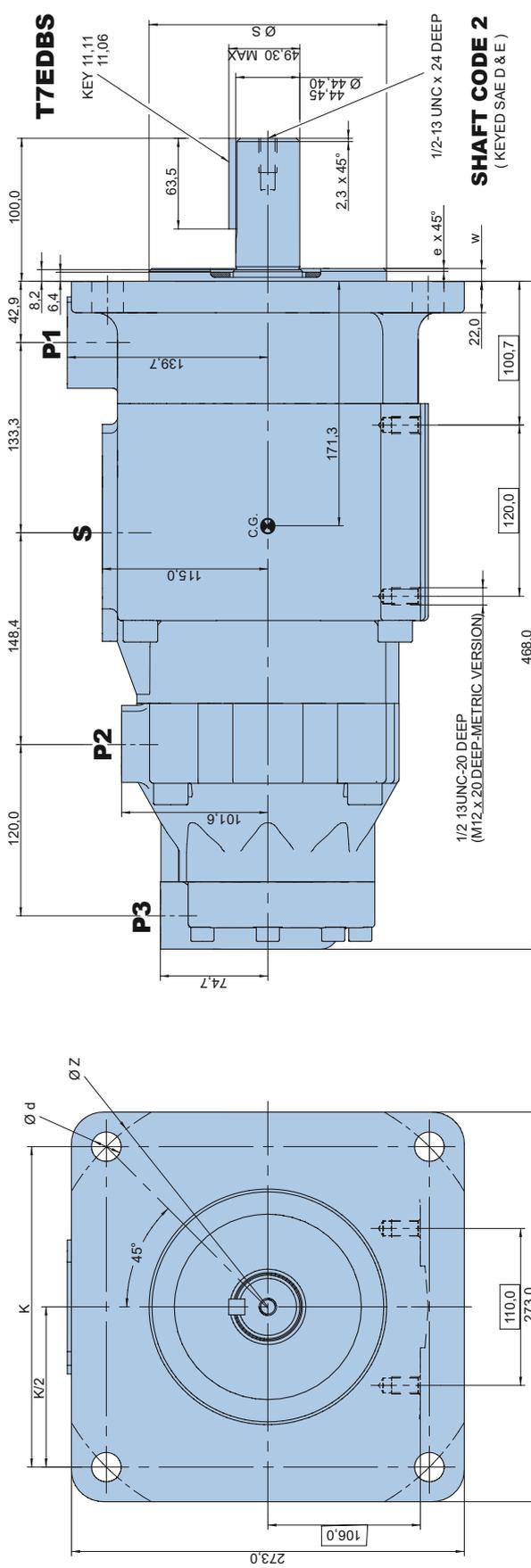


Total hydromechanical power loss is the sum of each section loss under its respective operating conditions.

PERMISSIBLE RADIAL LOAD



Maximum permissible axial load $F_a = 2000 \text{ N}$



Alternate connect. variables	
	00 & M0 01 & M1
A	52,4
B	26,2
C	25,4
	47,6
	22,2
	19,0

Alternate mounting flange						
Series	Dia S		W	K	Dia Z	Dia d
	Max.	Min.				
T7EDB	250,000	249,928	2,0	9,0	-	315
T7EDBS	165,100	165,050	2,0	9,0	224,5	20,6

Shaft torque limits [ml/rev. x bar]	
Shaft	V1 x p max. P1 + P2 + P3
1	114600
2	118340
3	126800

