

**Model No. T67EDC or T67EDCS - 062 - B35 - 010 - 1 R 00 - A 1 - M1 - ..**

T67EDC series - ISO 4 bolts 3019-2

Mounting flange 250-B4-HW

T67EDCS series - SAE E 4 bolts

J744 mounting flange

P1 P2 P3

Modifications

Mounting w/connection variables

4 bolts SAE flange J518

P1 = 1.1/2" - P2 = 1.1/4" - S = 4"		
	Metric thread	UNC thread
T67EDC-P3 = 1"	M0	
T67EDC-P3 = 3/4"	M1	
T67EDCS-P3 = 1"	M0	00
T67EDCS-P3 = 3/4"	M1	01

**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)

003 = 10,8 012 = 37,1 022 = 70,3

005 = 17,2 014 = 46,0 025 = 79,3

006 = 21,3 017 = 58,3 028 = 88,8

008 = 26,4 020 = 63,8 031 = 100,0

010 = 34,1

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 T67EDC

1 = keyed (ISO 3019/2 - G45N)

Type of shaft T67EDCS

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 <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	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 <sup>2)</sup>	-	9,1	65,8 <sup>2)</sup>	-
P2			p = 0 bar	p = 140 bar	p = 250 bar	p = 7 bar	p = 140 bar	p = 250 bar
	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 <sup>3)</sup>	4,1	52,8	89,5 <sup>3)</sup>
	050	158,0 ml/rev	237,0	227,7	223,0 <sup>1)</sup>	4,4	57,1	85,0 <sup>1)</sup>
P3			p = 0 bar	p = 140 bar	p = 275 bar	p = 7 bar	p = 140 bar	p = 275 bar
	003	10,8 ml/rev	16,2	11,2	*	1,3	5,3	*
	005	17,2 ml/rev	25,8	20,8	16,1	1,4	7,5	13,9
	006	21,3 ml/rev	31,9	26,9	22,2	1,5	8,9	16,8
	008	26,4 ml/rev	39,6	34,6	29,9	1,6	10,7	20,3
	010	34,1 ml/rev	51,1	46,1	41,4	1,7	13,4	25,6
	012	37,1 ml/rev	55,6	50,6	45,9	1,7	14,4	27,6
	014	46,0 ml/rev	69,0	64,0	59,3	1,9	17,6	33,7
	017	58,3 ml/rev	87,4	82,4	77,7	2,1	21,9	42,2
	020	63,8 ml/rev	95,7	90,7	86,0	2,2	23,8	46,0
	022	70,3 ml/rev	105,4	100,4	95,7	2,3	26,1	50,4
	025	79,3 ml/rev	118,9	113,9	109,2	2,5	29,2	56,6
	028	88,8 ml/rev	133,2	128,2	125,8 <sup>1)</sup>	2,8	32,7	48,5 <sup>1)</sup>
	031	100,0 ml/rev	150,0	145,0	142,6 <sup>1)</sup>	2,8	36,5	54,4 <sup>1)</sup>

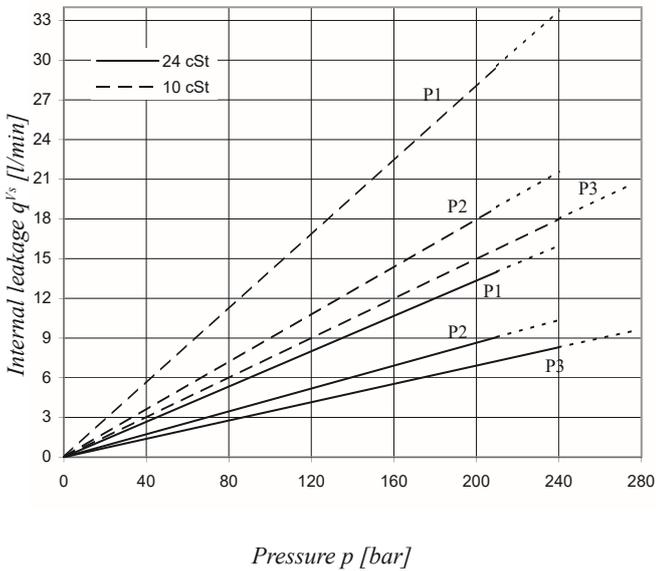
\* We do not recommend to use the size 003 in P3 at 275 bar & 1500 RPM as the internal leakage is over 50% of theoretical flow.

<sup>1)</sup> 050 - 028 - 031 = 210 bar max. int.

<sup>2)</sup> 085 = 90 bar max. int.

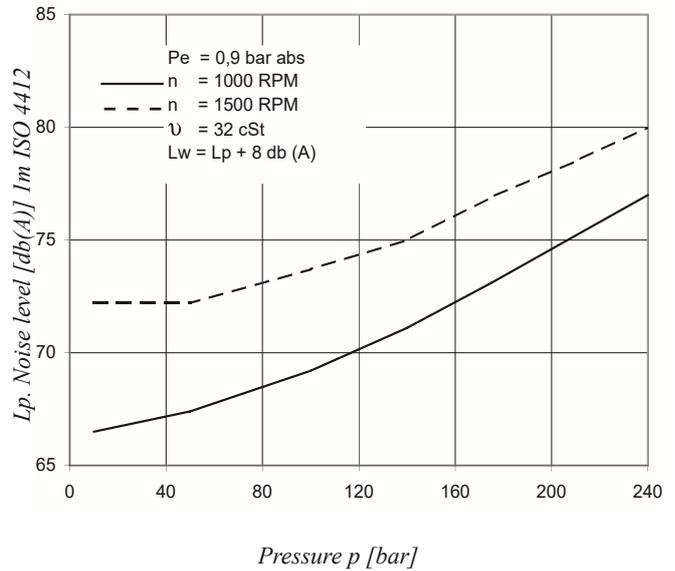
<sup>3)</sup> 045 = 240 bar max. int.

**INTERNAL LEAKAGE (TYPICAL)**



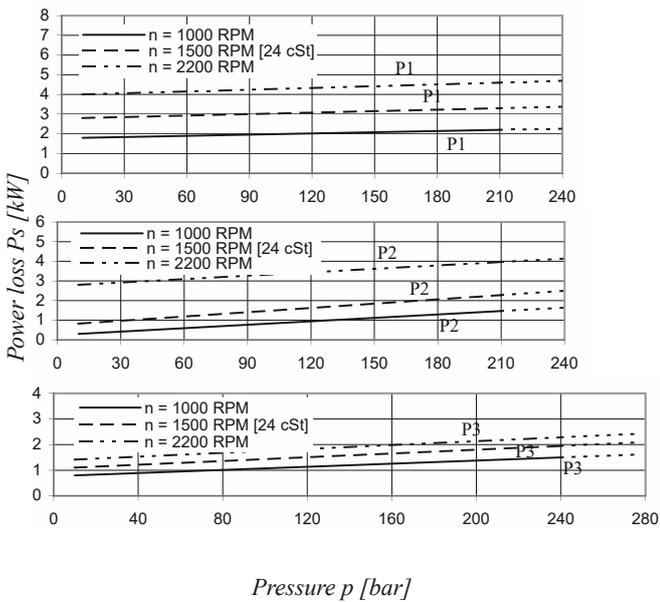
Do not operate pump more than 5 seconds at any speed or viscosity if internal leakage is higher than 50% of theoretical flow.  
 Total leakage is the sum of each section loss under its respective operating conditions.

**NOISE LEVEL (TYPICAL) - T67EDCS - 062 - B35 - 022**



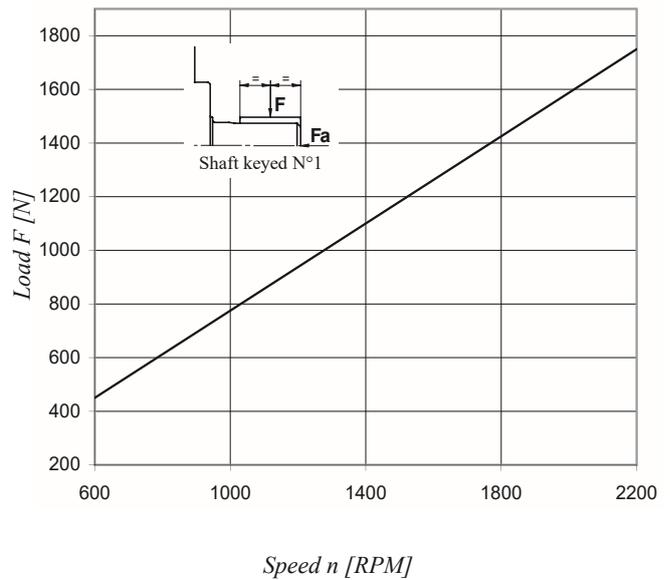
Triple pump noise level is given with all stages discharging at the pressure value indicated on the curve.

**POWER LOSS HYDROMECHANICAL (TYPICAL)**

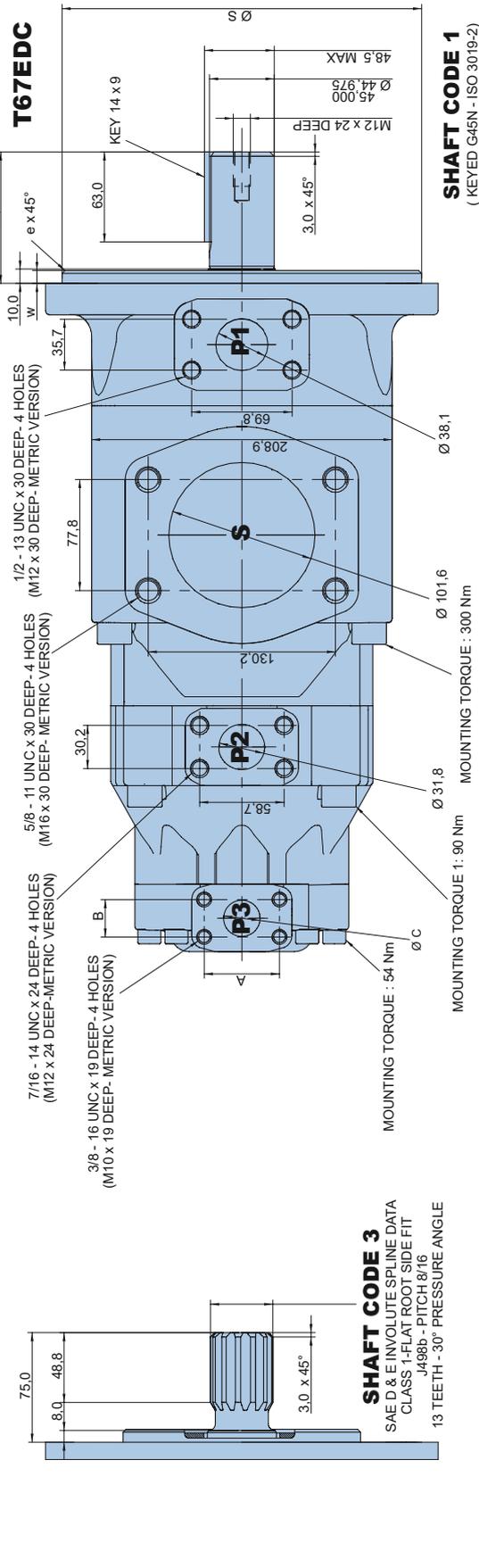
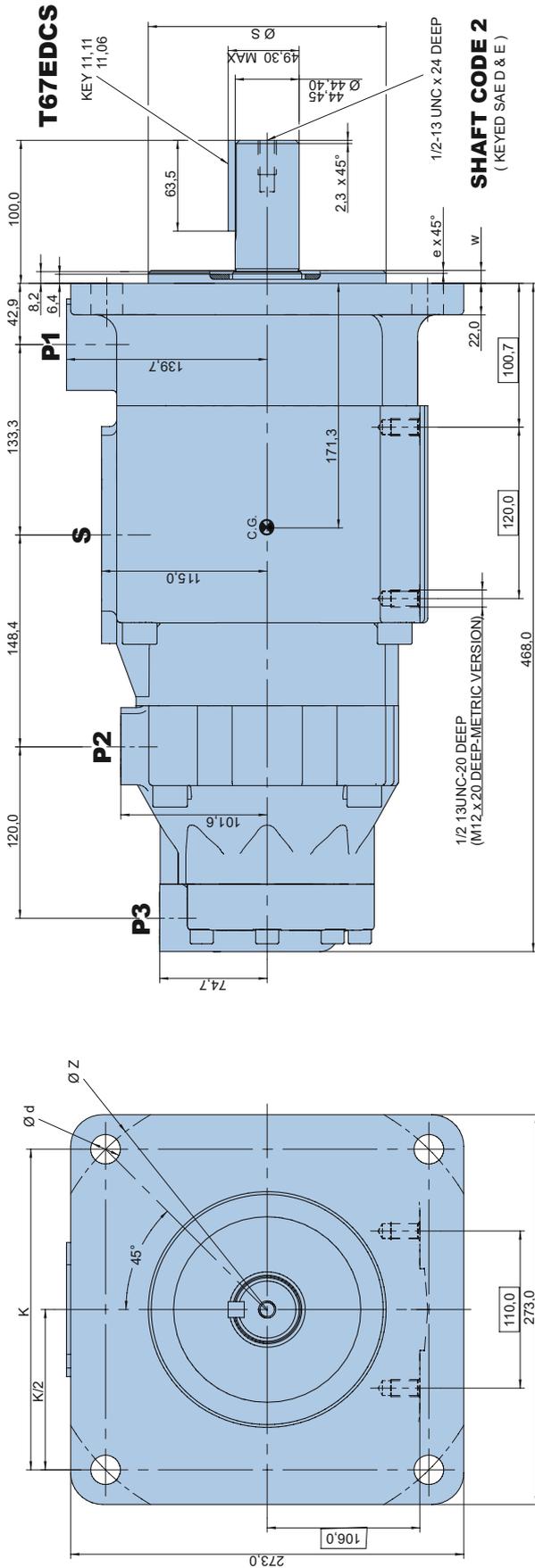


Total hydromechanical power loss is the sum of each section loss under its respective operating conditions.

**PERMISSIBLE RADIAL LOAD**



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



**SHAFT CODE 3**  
 SAE D & E INVOLUTE SPLINE DATA  
 CLASS 1-FLAT ROOT SIDE FIT  
 1498b - PITCH 8/16  
 13 TEETH - 30° PRESSURE ANGLE

**Alternate connect. variables**

	<b>00</b>	<b>01</b>
<b>A</b>	52.4	47.6
<b>B</b>	26.2	22.2
<b>C</b>	25.4	19.0

**Alternate mounting flange**

Series	Dia S		e x 45°	W	K	Dia Z	Dia d
	Max.	Min.					
<b>T67EDC</b>	250,000	249,928	2,0	9,0	-	315	22,0
<b>T67EDCS</b>	165,100	165,050	2,0	9,0	224,5	-	20,6

**Shaft torque limits [ml/rev. x bar]**

Shaft	Vi x p max. P1 + P2 + P3
1	114600
2	118340
3	126800