

Industrial Hydraulic Pumps T7/T67/T6

Denison Vane Technology, fixed displacement

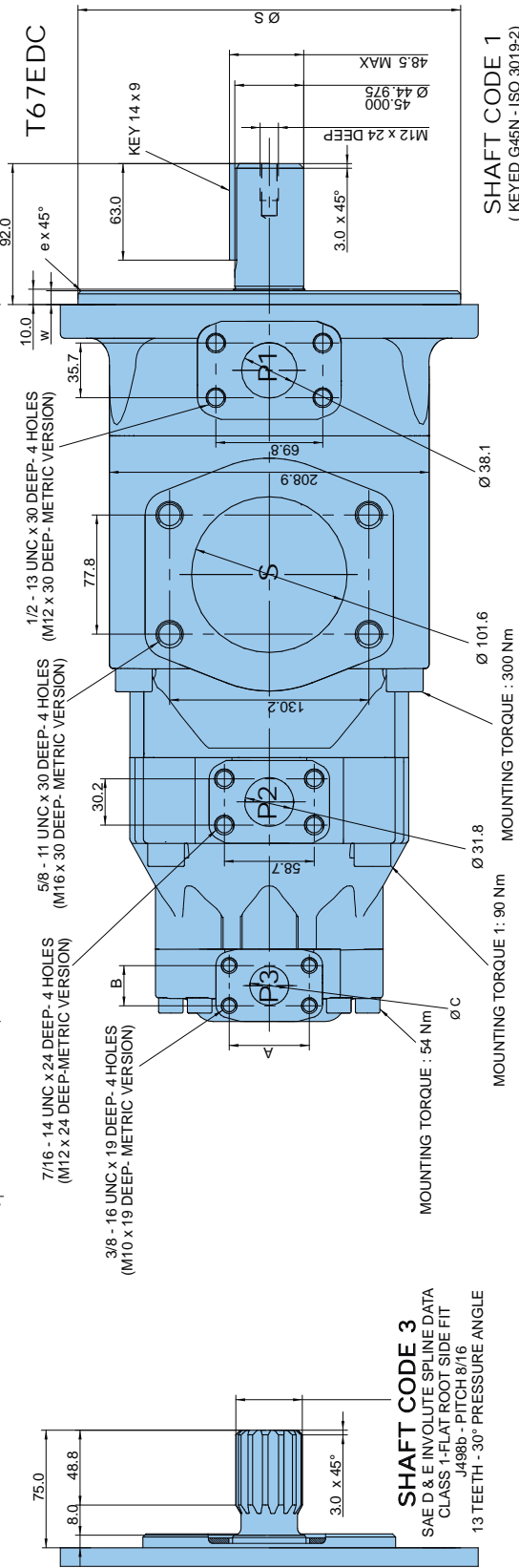
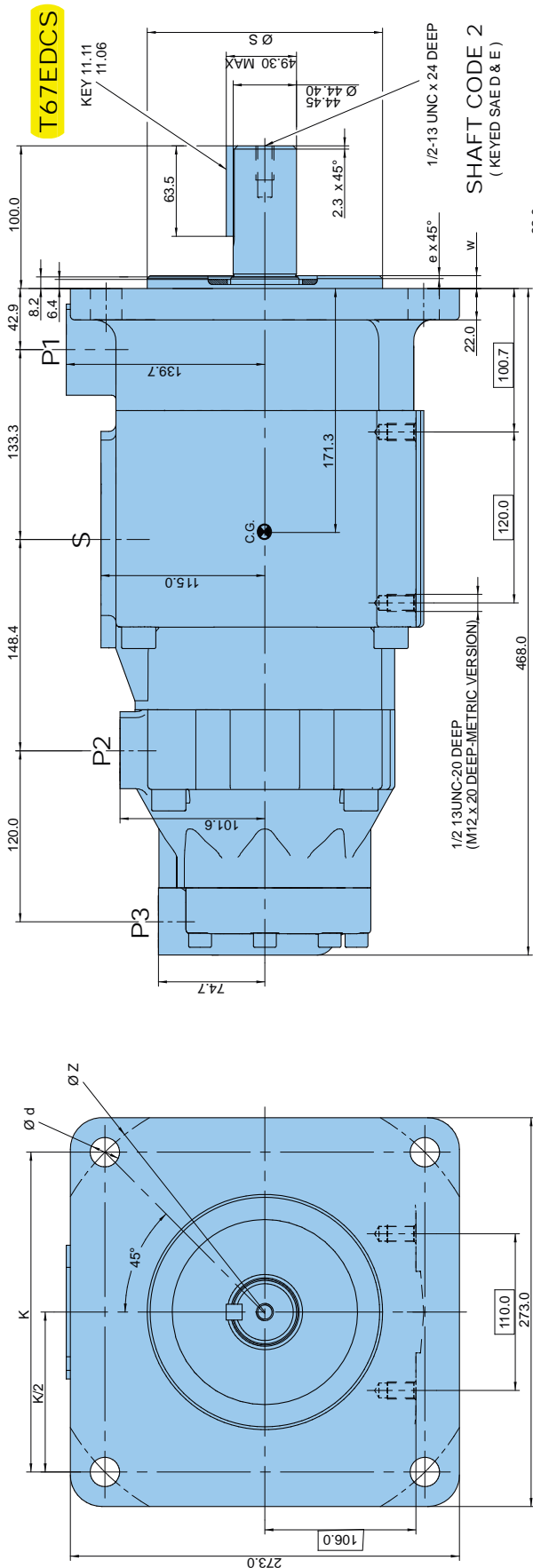
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Alternate connect. variables	
	00
01	
A	52.4
B	26.2
C	25.4
	19.0

Series	Dia S		e x 45°	W	K	Dia Z	Dia d
	Max.	Min.					
T67EDC	250.000	249.928	2.0	9.0	-	315	22.0
T67EDCS	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

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

Type of shaft T67EDC
 1 = keyed (ISO 3019/2 - G45N)

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 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 _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 ²⁾	-	9.1	65.8 ²⁾	-
			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 ¹⁾	4.4	57.1	85.0 ¹⁾
			p = 0 bar	p = 140 bar	p = 275 bar	p = 7 bar	p = 140 bar	p = 275 bar
P3	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 ¹⁾	2.8	32.7	48.5 ¹⁾
	031	100.0 ml/rev	150.0	145.0	142.6 ¹⁾	2.8	36.5	54.4 ¹⁾

* 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.

¹⁾ 050 - 028 - 031 = 210 bar max. int.

²⁾ 085 = 90 bar max. int.

³⁾ 045 = 240 bar max. int.