High Pressure Double Vane Pump HT67EC Series

Specification

HT67EC for Double pump

Shaft End Pump				Cover End Pump				Min. speed	Max. speed	Weight
Size	Displacement cm^3/r 1(in^3/r)	Max. Intermittent Pressure bar (psi)	Max. Continuous Pressure bar (psi)	Size	Displacement cm^3/r 1(in^3/r)	Max. Intermittent Pressure bar (psi)	Max. Continuous Pressure bar (psi)	rpm	rpm	kg (lb)
042	132.3 (8.07)	240 (3500)	206 (3000)	003	10.8 (0.66)	275 (4000)	240 (3500)	600	2200	54.2 (119.2)
045	142.4 (8.70)			005	17.2 (1.05)					
050	158.5 (9.67)			006	21.3 (1.30)					
052	164.8 (10.00)			008	26.4 (1.61)					
054	173.8 (10.60)			010	34.1 (2.08)					
057	180.7 (11.02)			012	37.1 (2.26)					
062	196.7 (12.00)			014	46.0 (2.81)					
066	213.3 (13.00)			017	58.3 (3.56)					
072	227.1 (13.86)			020	63.8 (3.89)					
085	269.8 (16.40)	90 (1300)	75 (1100)	022	70.3 (4.29)					
				025	79.3 (4.84)					
				028	88.8 (5.42)	206 (3000)	160 (2300)			
				031	100.0 (6.10)					

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Ordering Code : Double Pump

HT67EC - 042 - 003 - 1 R 00 - A - 00 - ..

1 2 3 4 5 6 7 8 9

1. Model :
   Industrial - HT67EC SAE C 2 bolts mounting flange J744

2. Displacement P1
   Volumetric displacement cm³/rec (in³/rev)
   7E
   042 - 132.3 (8.07)
   045 - 142.4 (8.70)
   050 - 158.5 (9.67)
   052 - 164.8 (10.00)
   054 - 173.8 (10.60)
   057 - 180.7 (11.02)
   062 - 196.7 (12.00)
   066 - 213.3 (13.00)
   072 - 227.1 (13.86)
   085 - 269.8 (16.40)

3. Displacement P2
   Volumetric displacement cm³/rec (in³/rev)
   6C
   003 - 10.8 (0.66)
   005 - 17.2 (1.05)
   006 - 21.3 (1.30)
   008 - 26.4 (1.61)
   010 - 34.1 (2.08)
   012 - 37.1 (2.26)
   014 - 46.0 (2.81)
   017 - 58.3 (3.56)
   020 - 63.8 (3.89)
   022 - 70.3 (4.29)
   025 - 79.3 (4.84)
   028 - 88.8 (5.42)
   031 - 100.0 (6.10)

4. Type of shaft
   1 - SAE CC Keyed Shaft
   2 - non SAE Keyed Shaft
   3 - SAE C Splined Shaft
   4 - SAE CC Splined Shaft

5. Direction of rotation (Viewed from shaft end)
   R - Turn right
   L - Turn left

6. Porting combination (see page Porting Diagrams)
   00 - standard

7. Design letter

8. Port Connection (4 bolts SAE flange J518C)
   00 - UNC Port Connection
   M0 - Metric Port Connection

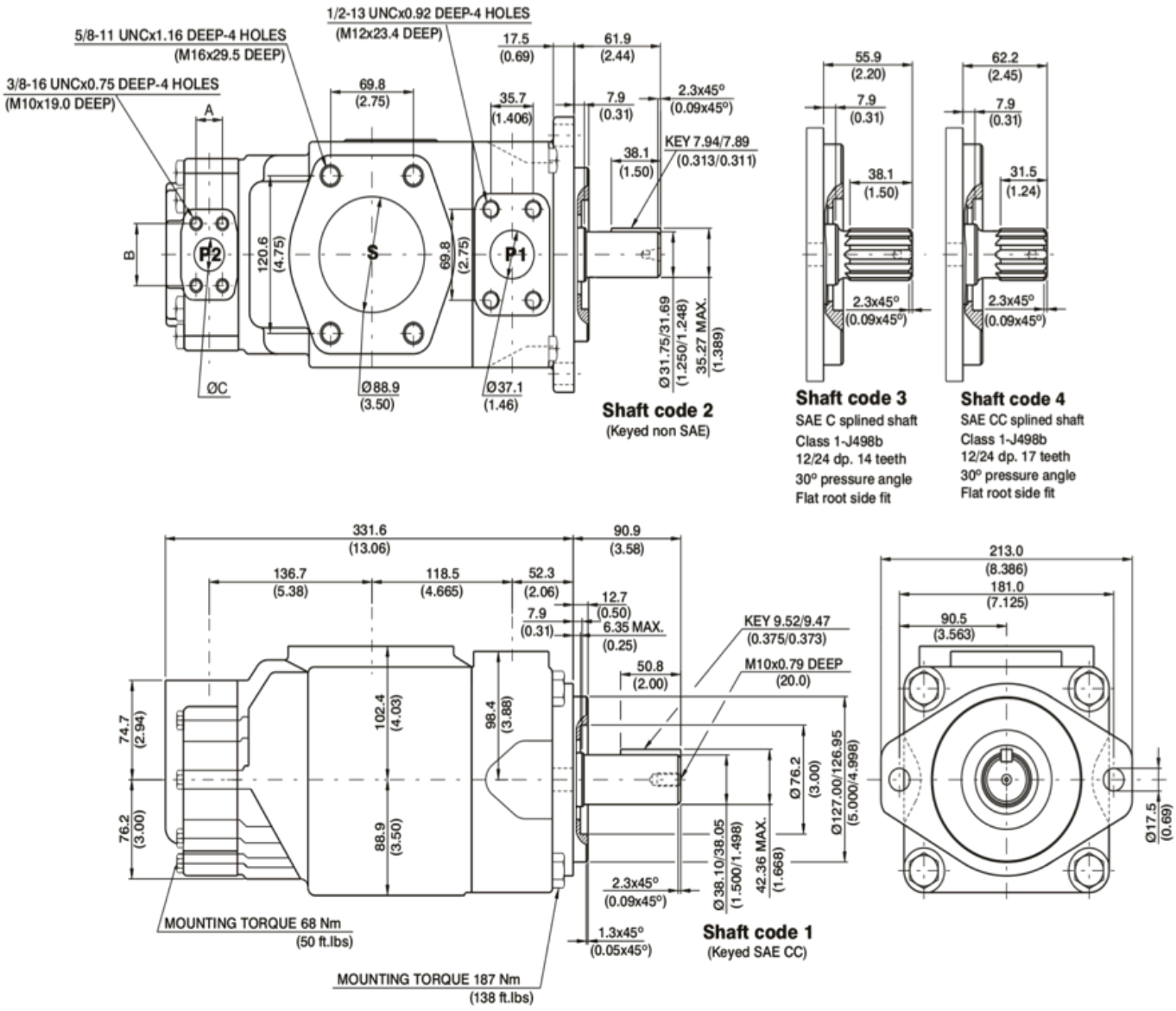
Code		4 bolt SAE flanges		
UNC	Metric	P1	P2	S
00	M0	1½"	1"	3½"
01	M1	1½"	3/4"	3½"

9. Modifications
   Omit - Standard
   718 - Surface grinding the flange face for the manifold.

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Installation Dimension mm (inch)

HT67EC



Cover End Outlet Port Size	A	B	C
1"	26.2 (1.03)	52.4 (2.06)	25.4 (1.00)
3/4"	22.4 (0.88)	47.7 (1.88)	19.0 (0.75)

Shaft torque limits [ml/rev x bar (in³/rev x psi)]	
Shaft	Vp x p max. (P1+P2)
1	72306 (64044)
2	34590 (30638)
3	61200 (54207)
4	76376 (67582)

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Performance Characteristics

HT67EC

OPERATING CHARACTERISTICS - TYPICAL [115 SUS]

Pressure port	Series	Volumetric Displacement	Flow Q {GPM} & n = 1800 RPM			Input power P {HP} & n = 1800 RPM		
			p = 0 PSI	p = 2000 PSI	p = 3500 PSI	p = 0 PSI	p = 2000 PSI	p = 3500 PSI
P1	042	8.07 in^3/rev	62.92	60.37	58.52	8.09	78.44	133.80
	045	8.70 in^3/rev	67.72	65.17	63.32	8.37	84.04	143.60
	050	9.67 in^3/rev	75.38	72.83	70.98	8.82	92.97	159.24
	052	10.00 in^3/rev	78.37	75.82	73.97	8.99	96.47	165.36
	054	10.43 in^3/rev	81.27	78.72	76.87	9.17	99.75	177.46
	057	11.18 in^3/rev	87.12	84.57	82.72	9.51	106.57	189.84
	062	12.00 in^3/rev	93.54	90.99	89.14	9.88	114.17	196.34
	066	13.00 in^3/rev	101.44	98.89	97.04	10.34	123.38	212.46
	072	13.86 in^3/rev	108.00	105.45	103.60	10.72	131.04	225.86
	085	16.40 in^3/rev	127.79	126.13[1)]	-	11.88	101.66[1)]	-
P2	003	0.66 in^3/rev	5.14	3.61	-	2.11	8.45	-
	005	1.05 in^3/rev	8.18	6.65	5.56	2.29	12.00	19.59
	006	1.30 in^3/rev	10.13	8.60	7.51	2.40	14.28	23.57
	008	1.61 in^3/rev	12.55	11.02	9.93	2.54	17.11	28.53
	010	2.08 in^3/rev	16.22	14.69	13.60	2.76	21.38	36.00
	012	2.26 in^3/rev	17.64	16.11	15.02	2.84	23.05	38.92
	014	2.81 in^3/rev	21.88	20.35	19.26	3.09	27.99	47.56
	017	3.56 in^3/rev	27.73	26.20	25.11	3.43	34.81	59.51
	020	3.89 in^3/rev	30.34	28.81	27.42	3.58	37.86	64.85
	022	4.29 in^3/rev	33.43	31.90	30.81	3.76	41.47	71.16
	025	4.84 in^3/rev	37.71	36.18	35.09	4.01	46.46	79.90
	028	5.42 in^3/rev	42.23	40.70	39.94[2)]	4.27	51.74	76.73[2)]
	031	6.10 in^3/rev	47.56	46.03	45.27[2)]	4.58	57.95	86.06[2)]

1) 085 = 1300 PSI max. int. 2) 028 - 031 = 3000 PSI max. int.
- Not to use because internal leakage greater than 50% theoretical flow.
- Port connection can be furnished with metric threads.