High Pressure Single Vane Pump HT6C Series

Specification

HT6C for Single pump

Size	Displacement cm^3/r 1(in^3/r)	Max. Intermittent Pressure bar (psi)	Max. Continuous Pressure bar (psi)	Min. Speed rpm	Max. Speed rpm	Weight
003	10.8 (0.66)	275 (4000)	240 (3500)	600	2800	15.0 (33.0)
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)				2500	
025	79.3 (4.84)					
028	88.8 (5.42)	206 (3000)	160 (2300)			
031	100.0 (6.10)					

High Pressure Single Vane Pump
HT6C Series

Ordering Code : Single Pump

HT6C - 003 - 1 R 00 - A - 00 - ..

1 2 3 4 5 6 7 8

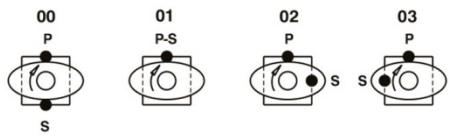
1. Model :
   Industrial - HT6C SAE B 2 bolts mounting flange J744

2. Displacement
   Volumetric displacement cm³/rec (in³/rev)
   - 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)

3. Type of shaft
   - 1 - SAE B Keyed Shaft
   - 2 - non SAE Keyed Shaft
   - 3 - SAE B Splined Shaft
   - 4 - SAE BB Splined Shaft

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

5. Porting combination
   - 00 - standard



S - Suction port P - Pressure pert

6. Design letter

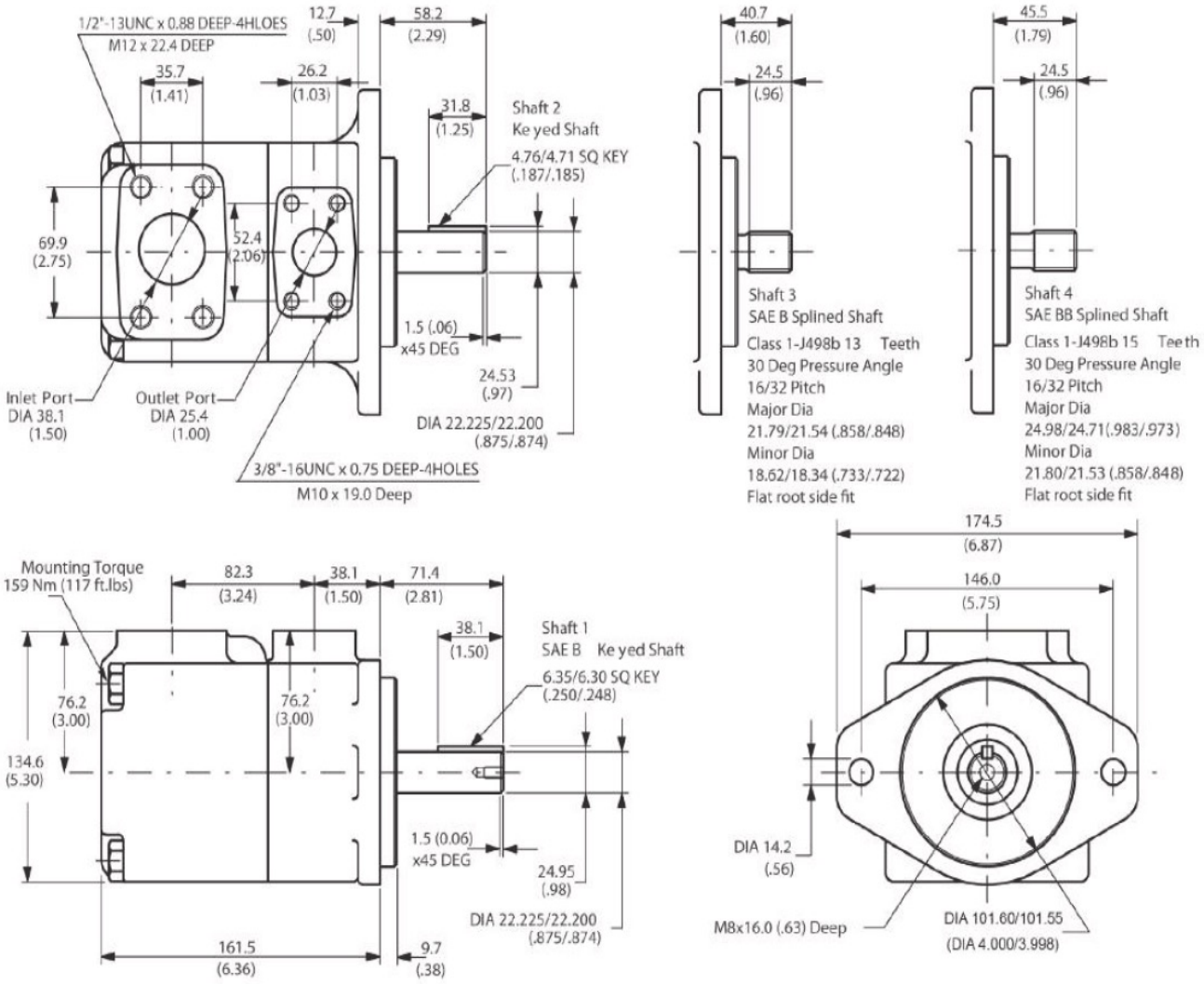
7. Port Connection (4 bolts SAE flange J518C)
   - 00 - UNC Port Connection
   - M0 - Metric Port Connection

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

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Installation Dimension mm (inch)

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Performance Characteristics

HT6C

OPERATING CHARACTERISTICS - TYPICAL [115 SUS]

Series	Volumetric Displacement	Speed n [R.P.M]	Flow Q [GPM]			Input power P [HP]		
			p = 0 PSI	p = 2000 PSI	p = 3500 PSI	p = 100 PSI	p = 2000 PSI	p = 3500 PSI
03	0.66 in^3/rev	1200 1800	3.42 5.14	- 3.61	- -	1.43 2.11	- 8.45	- -
05	1.05 in^3/rev	1200 1800	5.45 8.18	3.99 6.65	- 5.56	1.55 2.29	8.17 12.00	- 19.59
06	1.30 in^3/rev	1200 1800	6.75 10.13	5.22 8.60	4.13 7.51	1.62 2.40	9.69 14.28	16.13 23.57
08	1.61 in^3/rev	1200 1800	8.37 12.55	6.84 11.02	5.75 9.93	1.72 2.54	11.58 17.11	19.43 28.53
10	2.08 in^3/rev	1200 1800	10.81 16.22	9.28 14.69	8.19 13.60	1.86 2.76	14.43 21.38	24.42 36.00
12	2.26 in^3/rev	1200 1800	11.76 17.64	10.23 16.11	9.14 15.02	1.92 2.84	15.53 23.05	26.36 38.92
14	2.81 in^3/rev	1200 1800	14.58 21.88	13.05 20.35	11.96 19.26	2.08 3.09	18.83 27.99	32.12 47.56
17	3.56 in^3/rev	1200 1800	18.48 27.73	16.95 26.20	15.86 25.11	2.31 3.43	23.38 34.81	40.08 59.51
20	3.89 in^3/rev	1200 1800	20.23 30.34	18.70 28.81	17.61 27.42	2.41 3.58	25.41 37.86	43.64 64.85
22	4.29 in^3/rev	1200 1800	22.29 33.43	20.76 31.90	19.67 30.81	2.53 3.76	27.82 41.47	47.85 71.16
25[1)]	4.84 in^3/rev	1200 1800	25.14 37.71	23.61 36.18	22.52 35.09	2.70 4.01	31.15 46.46	53.68 79.90
28[1)]	5.42 in^3/rev	1200 1800	28.15 42.23	26.62 40.70	25.86[2)] 39.94[2)]	2.87 4.27	34.66 51.74	51.37[2)] 76.73[2)]
31[1)]	6.10 in^3/rev	1200 1800	31.70 47.56	30.17 46.03	29.41[2)] 45.27[2)]	3.08 4.58	38.80 57.95	57.58[2)] 86.06[2)]

1) 25 - 28 - 31 = 2500 R.P.M. max. 2) 28 - 31 = 3000 PSI max. int.
- Not to use because internal leakage greater than 50% theoretical flow.
- Port connection can be furnished with metric threads.