

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)					
025	79.3 (4.84)	206 (3000)	160 (2300)	600	2500	15.0 (33.0)
028	88.8 (5.42)					
031	100.0 (6.10)					

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Ordering Code : Single Pump

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

1	2	3	4	5	6	7	8
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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

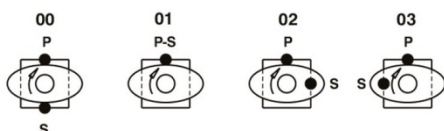
1 - SAE B Keyed Shaft
2 - non SAE Keyed Shaft
3 - SAE B Splined Shaft
4 - SAE BB Splined Shaft

4. Direction of rotation (Viewed from shaft end)

R - Turn right
L - Turn left

5. Porting combination

00 - standard



S - Suction port P - Pressure port

6. Design letter

7. Port Connection (4 bolts SAE flange J518C)

00 - UNC Port Connection
M0 - Metric Port Connection

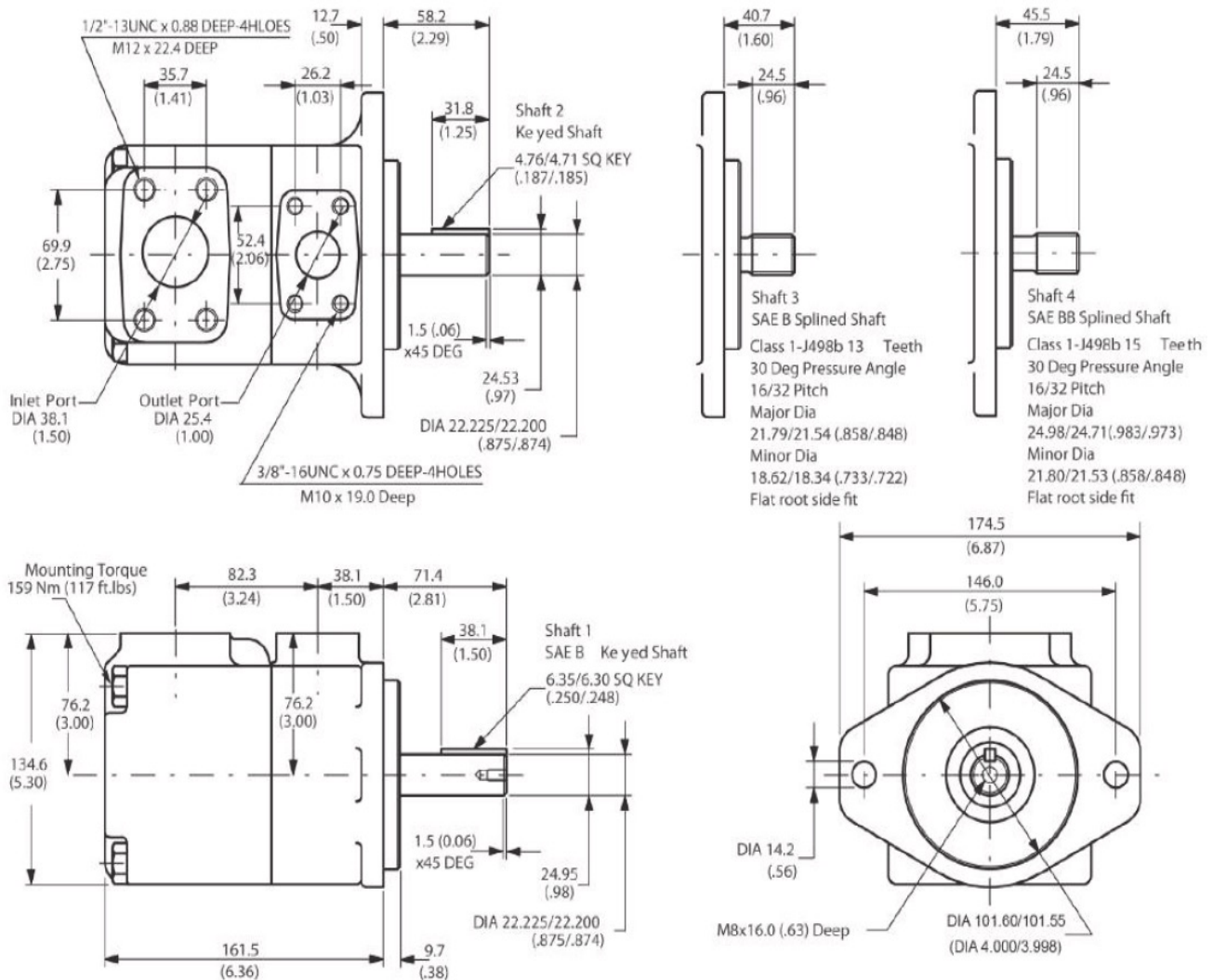
8. Modifications

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