High Pressure Single Vane Pump HT6DM/HT6DP Series

Specification

HT6DM, HT6DP 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
014	47.6 (2.90)	240 (3500)	206 (3000)	400	2500	26.4 (58.0)
017	58.2 (3.55)					
020	66.0 (4.03)					
024	79.5 (4.85)					
028	89.7 (5.47)					
031	98.3 (6.00)					
035	111.0 (6.77)					
038	120.3 (7.34)					
042	136.0 (8.30)				2200	
045	145.7 (8.89)					
050	158.0 (9.64)	206 (3000)	160 (2300)			
061	193.3 (11.8)					

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Ordering Code : Single Pump

HT6DM	-	014	-	1	R	00	-	A	-	00	-	..
1		2		3	4	5		6		7		8

1. Model :
   Mobile 1 Shaft seals (M) - HT6DM
   Mobile 2 Shaft seals (P) - HT6DP
   SAE C 2 bolts mounting flange J744

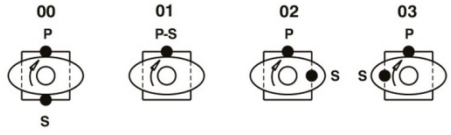
2. Displacement
   Volumetric displacement cm³/rec (in³/rev)
   - 014 - 47.6 (2.90)
   - 017 - 58.2 (3.55)
   - 020 - 66.0 (4.03)
   - 024 - 79.5 (4.85)
   - 028 - 89.7 (5.47)
   - 031 - 98.3 (6.00)
   - 035 - 111.0 (6.77)
   - 038 - 120.3 (7.34)
   - 042 - 136.0 (8.30)
   - 045 - 145.7 (8.89)
   - 050 - 158.0 (9.64)
   - 061 - 193.3 (11.80)

3. Type of shaft
   HT6DM
   - 1 - SAE C Keyed Shaft
   - 2 - non SAE Keyed Shaft
   - 3 - SAE C Splined Shaft
   - 4 - non SAE Splined Shaft

   HT6DP
   - 3 - non SAE 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

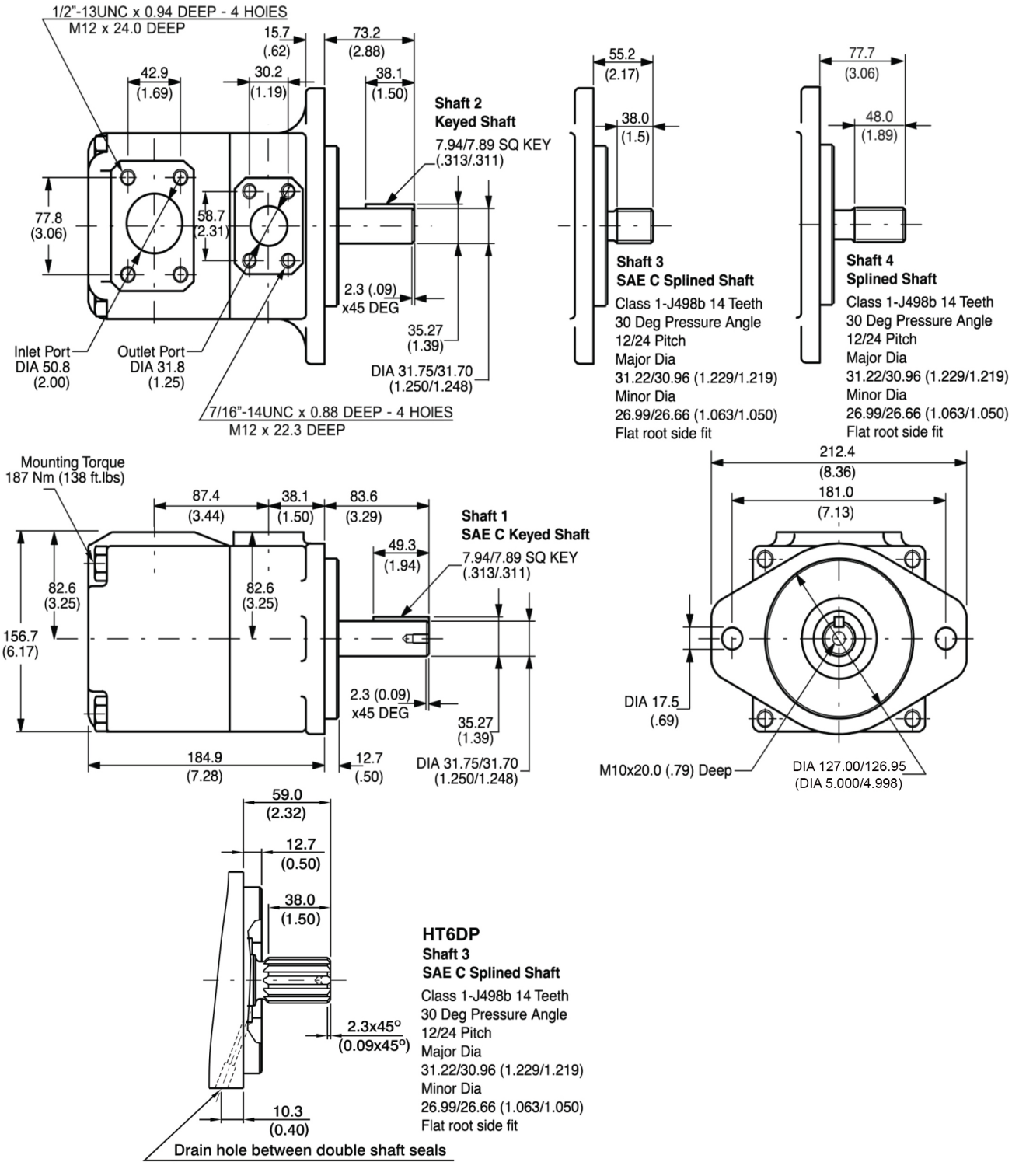
7. Port Connection (4 bolts SAE flange J518C)
   - 00 - UNC Port Connection (Except HT7D)
   - M0 - Metric Port Connection

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

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Installation Dimension mm (inch)

HT6DM, HT6DP



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Performance Characteristics

HT6DM, HT6DP

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
14	2.90 in^3/rev	1200 1800	15.09 22.64	12.91 20.46	11.27 18.82	2.44 4.02	19.60 29.31	33.20 49.34
17	3.55 in^3/rev	1200 1800	18.45 27.68	16.27 25.50	14.63 23.86	2.64 4.31	23.52 35.20	40.06 59.64
20	4.00 in^3/rev	1200 1800	20.92 31.39	18.74 29.21	17.10 27.57	2.78 4.53	26.41 39.52	45.11 67.21
24	4.80 in^3/rev	1200 1800	25.20 37.81	23.02 35.63	21.38 33.99	3.03 4.91	31.40 47.02	53.85 80.32
28	5.50 in^3/rev	1200 1800	28.44 42.66	26.26 40.48	24.62 38.84	3.22 5.19	35.17 52.68	60.45 90.23
31	6.00 in^3/rev	1200 1800	31.17 46.75	28.99 44.57	27.35 42.93	3.38 5.43	38.36 57.45	66.02 98.58
35	6.80 in^3/rev	1200 1800	35.19 52.79	33.01 50.61	31.37 48.97	3.61 5.78	43.05 64.50	74.24 110.91
38	7.30 in^3/rev	1200 1800	38.14 57.21	35.96 55.03	34.32 53.39	3.79 6.04	46.49 69.66	80.26 119.94
42 [1]	8.30 in^3/rev	1200 1800	43.12 64.68	40.94 62.50	39.30 60.86	4.08 6.47	52.30 78.37	90.43 135.19
45 [1]	8.90 in^3/rev	1200 1800	46.19 69.29	44.01 67.11	42.37 65.47	4.26 6.74	55.89 83.75	96.71 144.61
50 [1]	9.64 in^3/rev	1200 1800	50.09 75.14	47.91 72.96	46.73 [2] 71.78 [2]	4.48 7.08	60.44 90.58	89.93 [2] 134.54 [2]
61 [1]	11.8 in^3/rev	1200 1800	60.39 90.98	56.12 84.55	53.68 [2] 80.87 [2]	5.50 8.30	72.76 109.61	121.79 [2] 183.48 [2]

1) 42 - 45 - 50 - 61 = 2200 R.P.M. max.
2) 50 - 61 = 3000 PSI max. int.
Port connection can be furnished with metric threads.