High Pressure Single Vane Pump HT7E/HT7ES Series

Specification

HT7E, HT7ES 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
042	132.3 (8.07)	240 (3500)	206 (3000)	600	2200	43.0 (94.6)
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)	90 (1300)	75 (1100)		2000	

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Ordering Code : Single Pump

HT7ES - 042 - 1 R 00 - A - 00 - ..

1 2 3 4 5 6 7 8

1. Model :
   Industrial - HT7E ISO 2 bolts 3019-2 mounting flange 125 A2 HW
   - HT7ES SAE C 2 bolts mounting flange J744

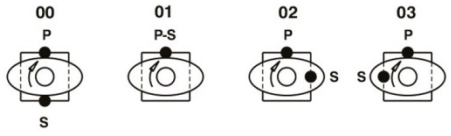
2. Displacement
   Volumetric displacement cm³/rec (in³/rev)
   042 - 132.3 (8.07)
   045 - 142.4 (8.70)
   050 - 158.5 (9.67)
   052 - 164.8 (10.00)
   054 - 173.8 (10.60)
   057 - 180.7 (11.02)
   062 - 196.7 (12.00)
   066 - 213.3 (13.00)
   072 - 227.1 (13.86)
   085 - 269.8 (16.40)

3. Type of shaft
   HT7E, HT7ES
   5 - ISO R775-G38M Keyed Shaft

   HT7ES
   1 - SAE CC Keyed Shaft
   2 - non SAE Keyed Shaft
   3 - SAE C Splined Shaft
   4 - SAE CC 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

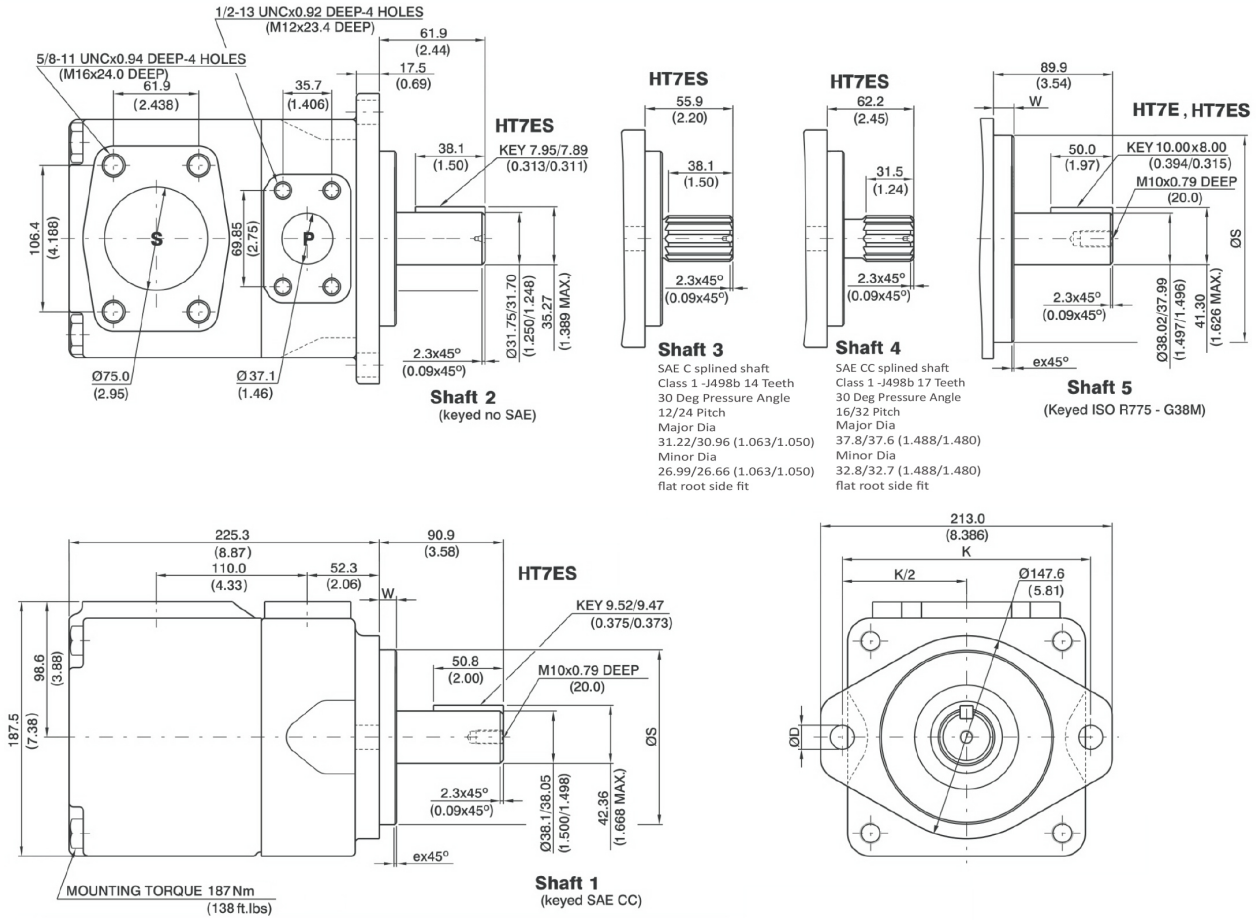
7. Port Connection (4 bolts SAE flange J518C)
   00 - UNC Port Connection (Except HT7E)
   M0 - Metric Port Connection

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

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Installation Dimension mm (inch)

HT7E, HT7ES



Alternate mounting flange						
Series	ØS		ex45°	W	K	ØD
	MAX.	MIN.				
HT7E	124.99 (4.921)	124.94 (4.919)	2.0 (0.079)	9.49 (0.374)	180.0 (7.087)	18.0 (0.709)
HT7ES	127.00 (5.00)	126.94 (4.998)	12.7 (0.50)	12.7 (0.50)	181.0 (7.126)	17.5 (0.689)

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Performance Characteristics

HT7E, HT7ES

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
042	8.07 in^3/rev	1800	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)]	-

1) 85 = 1300 PSI max. int.
**Special 3"½ (3.5 dia) suction also available*