High Pressure Double Vane Pump HT6CC/ HT6CCW Series

Specification

HT6CC, HT6CCW 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)
003	10.8 (0.66)	275 (4000)	240 (3500)	003	10.8 (0.66)	275 (4000)	240 (3500)	600	2800	27.0 (59.4)
005	17.2 (1.05)			005	17.2 (1.05)					
006	21.3 (1.30)			006	21.3 (1.30)					
008	26.4 (1.61)			008	26.4 (1.61)					
010	34.1 (2.08)			010	34.1 (2.08)					
012	37.1 (2.26)			012	37.1 (2.26)					
014	46.0 (2.81)			014	46.0 (2.81)					
017	58.3 (3.56)			017	58.3 (3.56)					
020	63.8 (3.89)			020	63.8 (3.89)					
022	70.3 (4.29)			022	70.3 (4.29)					
025	79.3 (4.84)			025	79.3 (4.84)					
028	88.8 (5.42)	206 (3000)	160 (2300)	028	88.8 (5.42)	206 (3000)	160 (2300)			
031	100.0 (6.10)			031	100.0 (6.10)					

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Ordering Code : Double Pump

HT6CC - 014 - 003 - 1 R 00 - A - 11 - ..

1 2 3 4 5 6 7 8 9

1. Model :
   Industrial - HT6CC
   Severe Duty Shaft (W) - HT6CCW
   SAE B 2 bolts mounting flange J744

2. Displacement P1
   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. Displacement P2
   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)

4. Type of shaft
   HT6CC
   - 1 - non SAE Keyed Shaft
   - 3 - SAE BB Splined Shaft
   - 5 - SAE B Splined Shaft

   HT6CCW
   - 2 - SAE BB Keyed 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 (HT67CB for port connection 11, M1only)

Code		4 bolt SAE flanges		
UNC	Metric	P1	P2	S
00	0M	1"	1"	3"
01	M0	1"	3/4"[1)]	3"
10	1M	1"	1"	2½"[2)]
11	M1	1"	3/4"[1)]	2½"[2)]

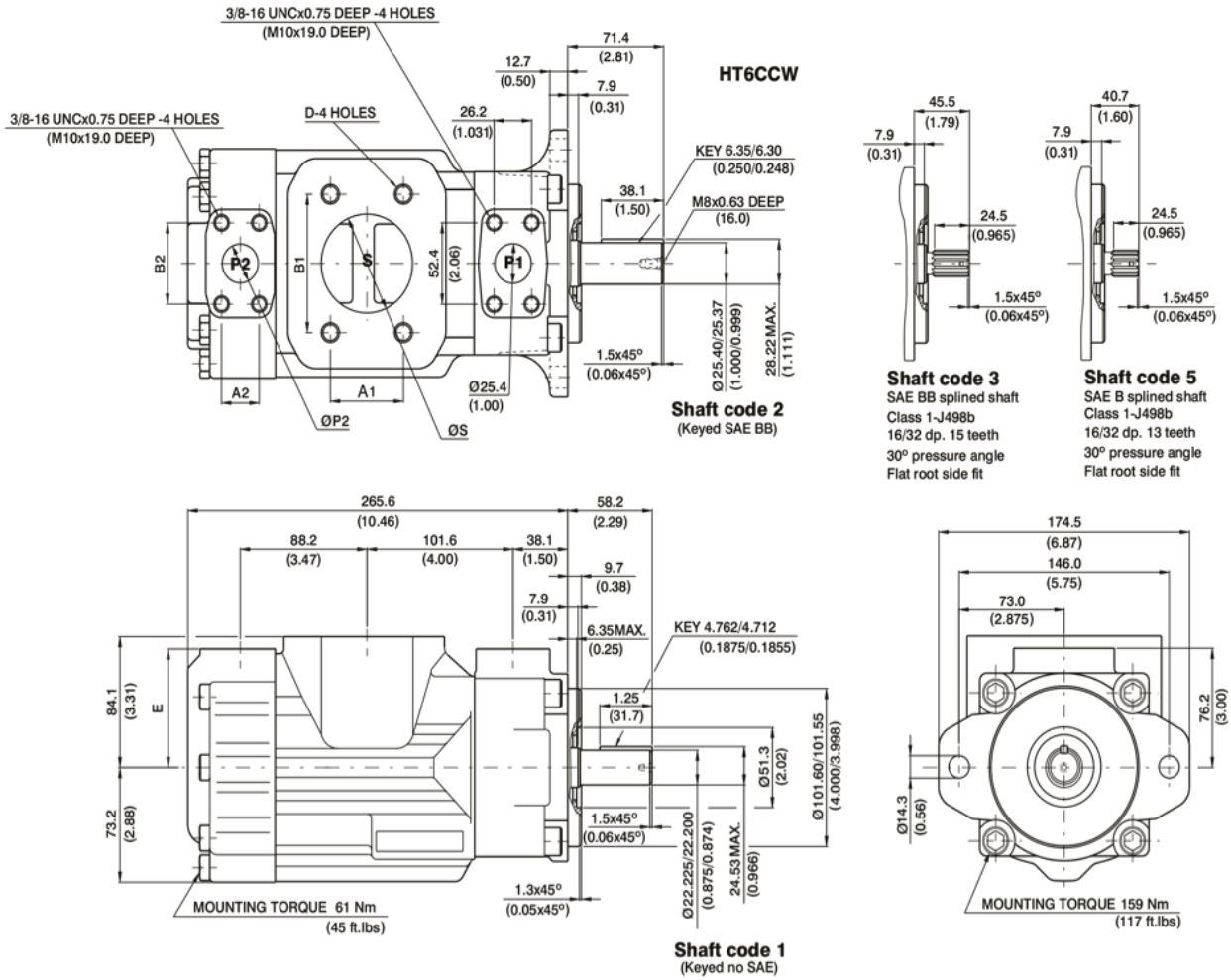
1) for 46 ml/rev max.
2) for 126 ml/rev max.
always select the largest cartridge in the front place. (see page Hose Size Selection Nomo graph)

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

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Installation Dimension mm (inch)

HT6CC, HT6CCW



Shaft torque limits [ml/rev x bar (in³/rev x psi)]	
Shaft	Vp x p max. (P1+P2)
1	14300 (12666)
2	21420 (18972)
3	32670 (28937)
5	20600 (18246)

Inlet Port Size	S	A1	B1	D
3"	76.2 (3.00)	61.9 (2.44)	106.4 (4.19)	5/8" - 11 UNC x 1.12 DEEP M16 x 28.4 DEEP
2½"	63.5 (2.50)	50.9 (2.00)	88.9 (3.50)	1/2" - 13 UNC x 0.94 DEEP M12 x 23.9 DEEP

Cover End Outlet Port Size	P2	A2	B2	E
1"	25.4 (1.00)	26.2 (1.03)	52.4 (2.06)	74.7 (2.94)
3/4"	19.0 (0.75)	22.4 (0.88)	47.7 (1.88)	76.2 (3.00)

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HT6CC, HT6CCW

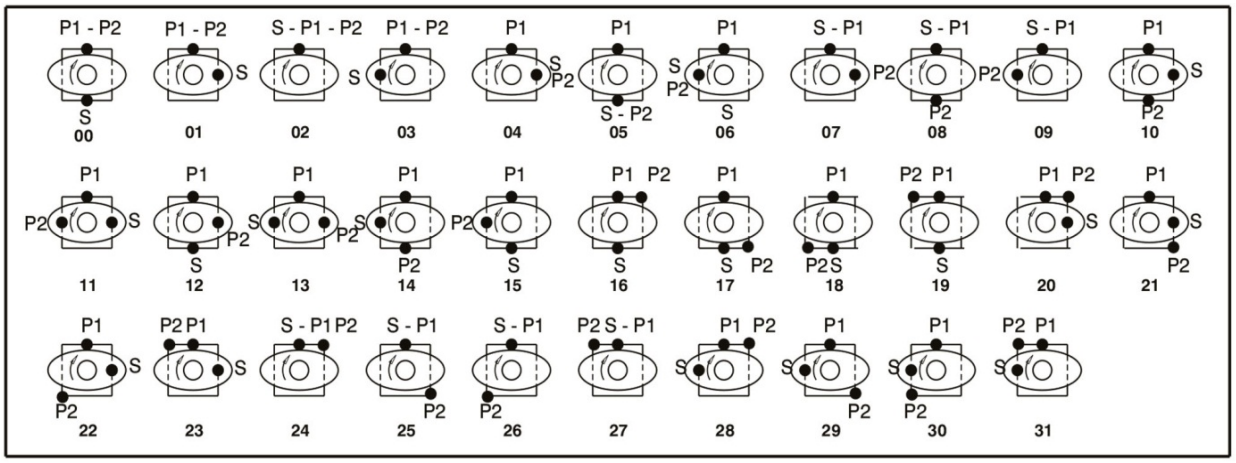
OPERATING CHARACTERISTICS - TYPICAL [115 SUS]

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 & 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[1)]	4.84 in^3/rev	37.71	36.18	35.09	4.01	46.46	79.90
	028[1)]	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)]

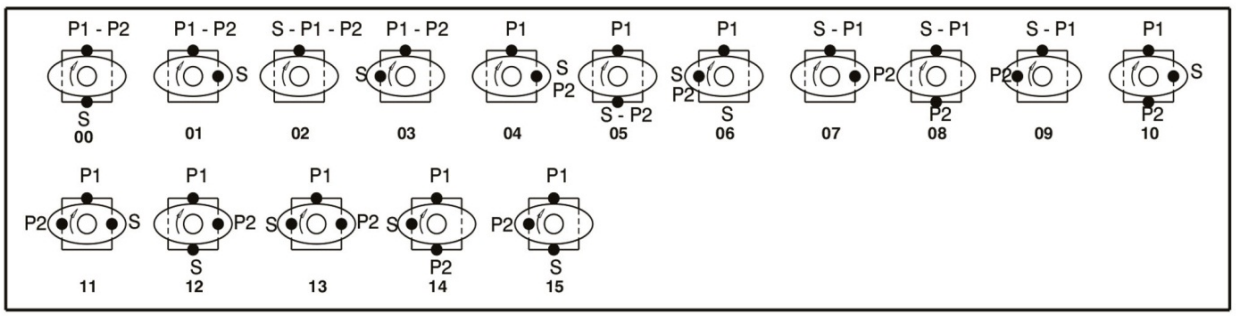
1) 025 - 028 - 031 = 2500 R.P.M. max. 2) 028 - 031 = 2200 PSI max. int.
- Not to use because internal leakage greater than 50% theoretical flow.
- Port connection can be furnished with metric threads.

High Pressure Double Vane Pump
HT6/HT67/HT7 Series - Porting Diagram

Porting Diagrams



HT6CC/HT6CCM/HT6CCP/HT6CCW/HT6CCMW, HT6DCM/HT6DCP/HT6DCMW, HT6ECM/HT6ECP
HT7BB/HT7BBS, HT7DB/HT7DBS, HT7EB/HT7EBS
HT67CB/HT67CBW, HT67DC/HT67DCW, HT67EC



HT6EDM/HT6EDP
HT7DD/HT7DDS, HT7ED/HT7EDS, HT7EE/HT7EES