High Pressure Double Vane Pump HT6GCC Series (Truck Pump)

Specification

HT6GCC for Double pump

Shaft End Pump				Cover End Pump				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	kg (lb)
003	10.8 (0.66)	280 (4000)	240 (3500)	003	10.8 (0.66)	280 (4000)	240 (3500)	2800	28.0 (61.6)
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)			2500	
028	88.8 (5.42)	210 (3000)	160 (2300)	028	88.8 (5.42)	210 (3000)	160 (2300)		
031	100.0 (6.10)			031	100.0 (6.10)				

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Ordering Code

HT6GCC - 014 - 003 - 6 R 00 - A - 00 - ..

1 2 3 4 5 6 7 8 9

1. Model :
   Truck Pump - HT6GCC ISO 4 bolts - 7653 (R17-102)

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
   - 6 - DIN 5462 Splined Shaft

5. Direction of rotation (view on 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

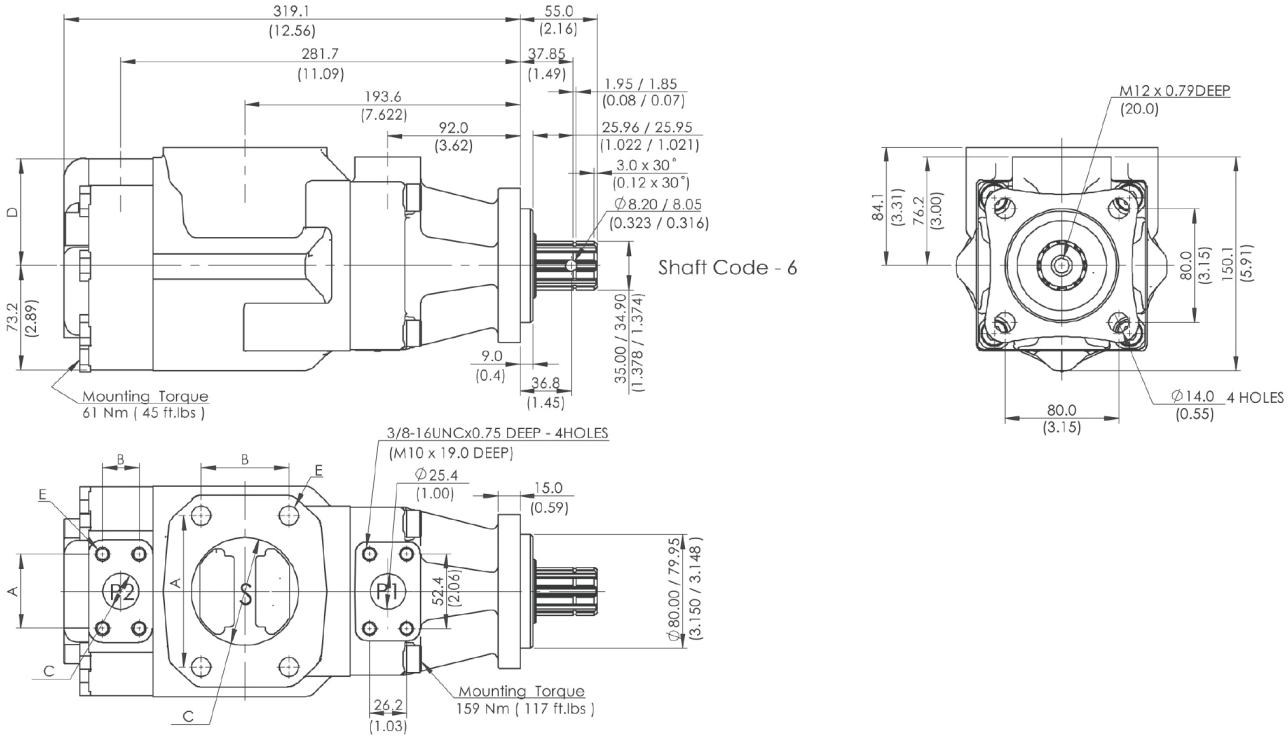
Code		4 bolt SAE flanges		
UNC	Metric	P1	P2	S
00	0M	1"	1"	3"
01	M0	1"	3/4"	3"
10	1M	1"	1"	2½"
11	M1	1"	3/4"	2½"

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 Nomograph)

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

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Installation Dimension mm (inch)



Port	A	B	C	D	E
S	106.4 (4.19)	61.9 (2.44)	Ø 76.2 (3.00)	-	5/8" - 11 UNC x 1.12 DEEP (M16 x 28.4 DEEP)
S	88.9 (3.50)	50.8 (2.00)	Ø 63.5 (2.50)	-	1/2" - 13 UNC x 0.94 DEEP (M12 x 24.0 DEEP)
P2	47.7 (1.88)	22.2 (0.88)	Ø 19.0 (0.75)	76.2 (3.00)	3/8" - 16 UNC x 0.75 DEEP (M10 x 19.0 DEEP)
P2	52.4 (2.06)	26.2 (1.03)	Ø 25.4 (1.00)	74.7 (3.94)	

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Performance Characteristics

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

HT6GCC/HT6CCZ Series (Truck Pump) - Porting Diagram

Porting Diagrams

