High Pressure Single Vane Pump HT6GC/ HT67GB/ HT6ZC (Truck Pump)

Specification

HT6GC, HT6ZC for Single pump

Size	Displacement cm³/r 1(in³/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	17.5 (38.5)
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)				2500	
025	79.3 (4.84)					
028	88.8 (5.42)	206 (3000)	160 (2300)			
031	100.0 (6.10)					

HT67GB for Single pump

Size	Displacement cm³/r 1(in³/r)	Max. Intermittent Pressure bar (psi)	Max. Continuous Pressure bar (psi)	Min. Speed rpm	Max. Speed rpm	Weight
002	5.8 (0.35)	320 (4640)	290 (4200)	600	3600	17.5 (38.5)
003	9.8 (0.59)					
004	12.8 (0.78)					
005	15.9 (0.97)					
006	19.8 (1.20)					
007	22.5 (1.37)					
008	24.9 (1.51)					
009	28.0 (1.70)					
010	31.8 (1.94)					
011	35.0 (2.13)	300 (4350)	275 (4000)		3000	
012	41.0 (2.50)					
014	45.0 (2.74)					
015	50.0 (3.05)	280 (4060)	240 (3500)			

High Pressure Single Vane Pump
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Ordering Code

HT6GC - 003 - 6 R 00 - A - 00 - ..

1 2 3 4 5 6 7 8

1. Model :
   Truck Pump - HT6GC, HT67GB
   ISO 4 bolts - 7653 (R17-102)

   - HT6ZC
   UNI Flange 3 bolts

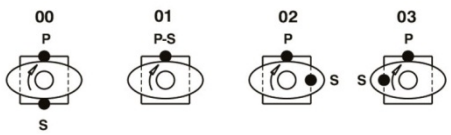
2. Displacement
   Volumetric displacement cm³/rec (in³/rev)

6C	7B
003 - 10.8 (0.66)	002 - 5.8 (0.35)
005 - 17.2 (1.05)	003 - 9.8 (0.60)
006 - 21.3 (1.30)	004 - 12.8 (0.78)
008 - 26.4 (1.61)	005 - 15.9 (0.97)
010 - 34.1 (2.08)	006 - 19.8 (1.20)
012 - 37.1 (2.26)	007 - 22.5 (1.37)
014 - 46.0 (2.81)	008 - 24.9 (1.51)
017 - 58.3 (3.56)	010 - 31.8 (1.92)
020 - 63.8 (3.89)	012 - 41.0 (2.47)
022 - 70.3 (4.29)	015 - 50.0 (3.01)
025 - 79.3 (4.84)	
028 - 88.8 (5.42)	
031 - 100.0 (6.10)	

3. Type of shaft
   6 - DIN 5462 Splined Shaft (HT6GC, HT67GB)
   6 - DIN 5463 Splined Shaft (HT6ZC)

4. Direction of rotation (view on shaft end)
   R - Turn right
   L - Turn left

5. Porting combination (see page Porting Diagrams)



   S - Suction port P - Pressure port

6. Design letter

7. Port Connection (4 bolts SAE flange J518C)
   01 - UNC Port Connection
   M1 - Metric Port Connection

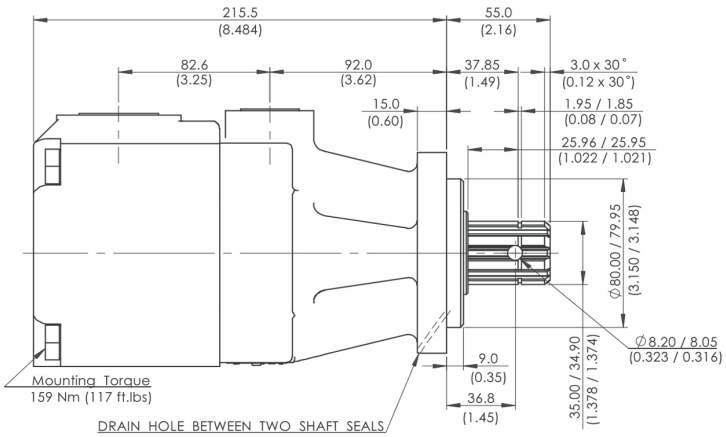
	UNC		Metric	
Code	00	01	M0	M1
S = 1.½"	SAE	SAE	SAE	SAE
P = 1	BSPP	SAE	BSPP	SAE

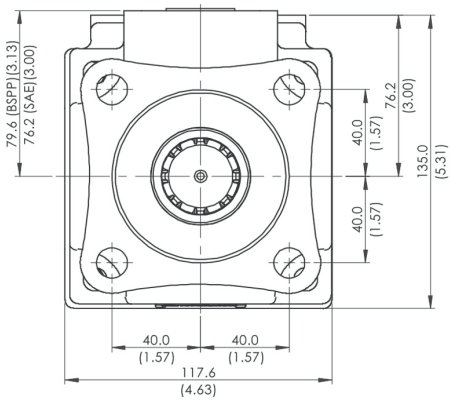
8. Modifications
   Omit - Standard
   718 - Surface grinding the flange face for the manifold.

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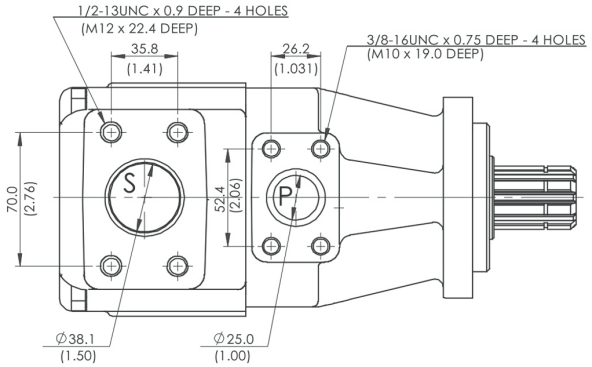
Installation Dimension mm (inch)

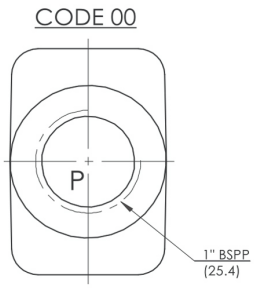
HT6GC, HT67GB





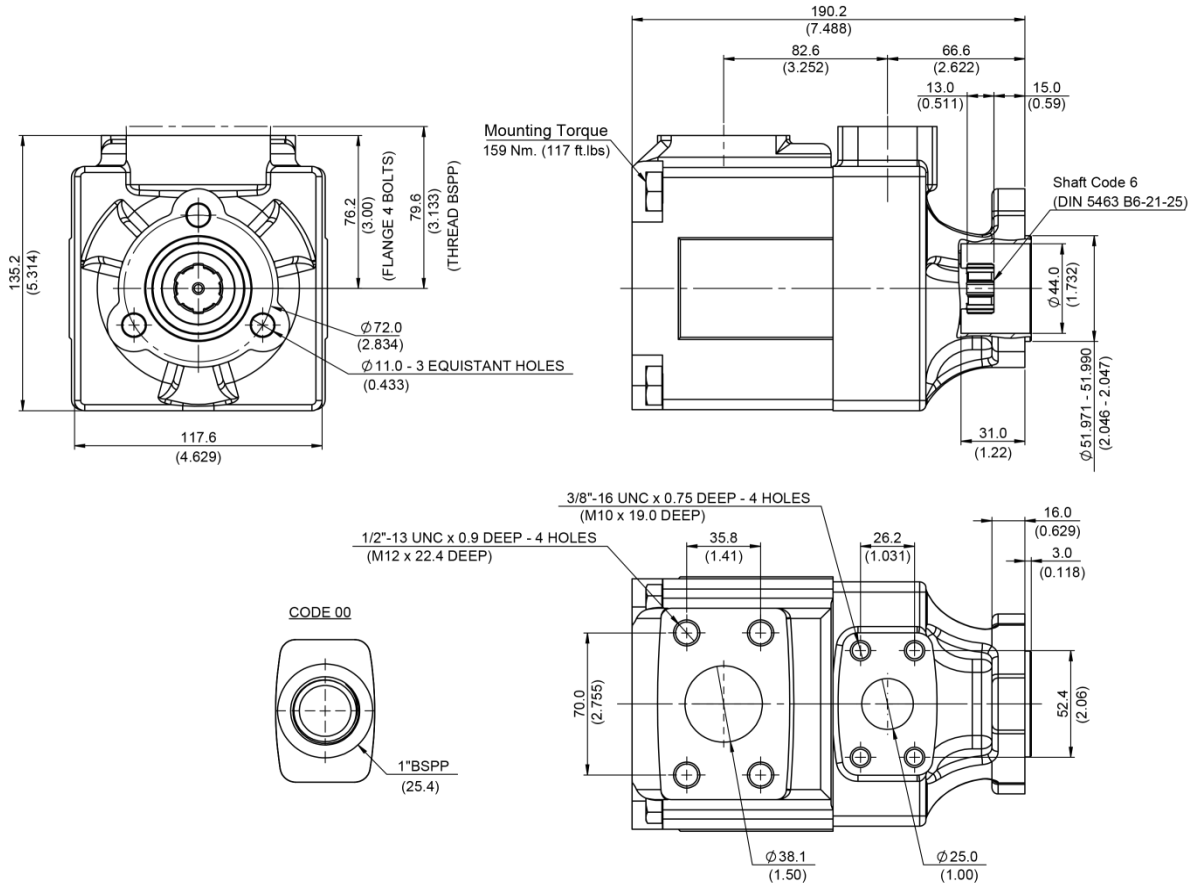
Shaft code 6
(DIN 5462) B8x32x36





High Pressure Single Vane Pump
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HT6ZC



High Pressure Single Vane Pump HT6GC/ HT67GB/ HT6ZC (Truck Pump)

Performance Characteristics

HT6GC, HT6ZC

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
003	0.66 in³/rev	1200 1800	3.42 5.14	- 3.61	- -	1.43 2.11	- 8.45	- -
005	1.05 in³/rev	1200 1800	5.45 8.18	3.99 6.65	- 5.56	1.55 2.29	8.17 12.00	- 19.59
006	1.30 in³/rev	1200 1800	6.75 10.13	5.22 8.60	4.13 7.51	1.62 2.40	9.69 14.28	16.13 23.57
008	1.61 in³/rev	1200 1800	8.37 12.55	6.84 11.02	5.75 9.93	1.72 2.54	11.58 17.11	19.43 28.53
010	2.08 in³/rev	1200 1800	10.81 16.22	9.28 14.69	8.19 13.60	1.86 2.76	14.43 21.38	24.42 36.00
012	2.26 in³/rev	1200 1800	11.76 17.64	10.23 16.11	9.14 15.02	1.92 2.84	15.53 23.05	26.36 38.92
014	2.81 in³/rev	1200 1800	14.58 21.88	13.05 20.35	11.96 19.26	2.08 3.09	18.83 27.99	32.12 47.56
017	3.56 in³/rev	1200 1800	18.48 27.73	16.95 26.20	15.86 25.11	2.31 3.43	23.38 34.81	40.08 59.51
020	3.89 in³/rev	1200 1800	20.23 30.34	18.70 28.81	17.61 27.42	2.41 3.58	25.41 37.86	43.64 64.85
022	4.29 in³/rev	1200 1800	22.29 33.43	20.76 31.90	19.67 30.81	2.53 3.76	27.82 41.47	47.85 71.16
025[1)]	4.84 in³/rev	1200 1800	25.14 37.71	23.61 36.18	22.52 35.09	2.70 4.01	31.15 46.46	53.68 79.90
028[1)]	5.42 in³/rev	1200 1800	28.15 42.23	26.62 40.70	25.86[2)] 39.94[2)]	2.87 4.27	34.66 51.74	51.37[2)] 76.73[2)]
031[1)]	6.10 in³/rev	1200 1800	31.70 47.56	30.17 46.03	29.41[2)] 45.27[2)]	3.08 4.58	38.80 57.95	57.58[2)] 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.

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HT67GB

OPERATING CHARACTERISTICS - TYPICAL [115 SUS]

Series	Volumetric Displacement	Flow Q {GPM} & n = 1500 RPM			Input power P {HP} & n = 1500 RPM		
		p = 0 PSI	p = 2000 PSI	p = 4650 PSI	p = 0 PSI	p = 2000 PSI	p = 4650 PSI
003	0.59 in^3/rev	3.88	3.43	2.85	0.80	5.36	11.52
004	0.78 in^3/rev	5.07	4.62	4.04	0.80	6.70	14.74
005	0.97 in^3/rev	6.31	5.86	5.28	0.93	8.17	18.09
006	1.20 in^3/rev	7.84	7.39	6.81	0.93	10.05	22.25
007	1.37 in^3/rev	8.90	8.45	7.89	1.07	11.39	25.20
008	1.51 in^3/rev	9.88	9.43	8.84	1.07	12.46	27.74
009	1.70 in^3/rev	11.09	10.56	10.06	1.20	13.94	31.09
010	1.94 in^3/rev	12.60	12.15	11.57	1.20	15.68	35.12
011	2.13 in^3/rev	13.86	13.41	12.91[1)]	1.34	17.15	36.19[1)]
012	2.50 in^3/rev	16.24	15.79	15.29[1)]	1.47	19.97	42.22[1)]
014	2.74 in^3/rev	17.83	17.38	16.88[1)]	1.60	21.84	46.24[1)]
015	3.05 in^3/rev	19.81	19.36	18.91[2)]	1.74	24.26	47.85[2)]

1) 11 - 12 - 14 = 4350 PSI max. int. 2) 15 = 4000 PSI max. int.
- Not to use because internal leakage greater than 50% theoretical flow.
- Port connection can be furnished with metric threads.