High Pressure Single Vane Pump

HT6GC Series (TRUCK Pump)

HOF

Features

- HT6GC Series is a fixed displacement and balanced type single vane pump. The pump is designed for higher load than HT6CM pump by having double row ball bearing with needle bearing and 2 shaft seals.
- Can be connected to PTO directly.

HT6GC - 022 – 6 R 00 - 00

1 2 3 4 5 6

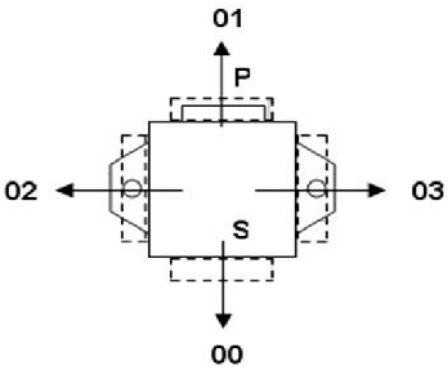
1 Model Series
HT6GC

2 Ring Size (USgpm)
HT6GC - 003, 005, 006, 008, 010, 012, 014
017, 020, 022, 025, 028, 031

3 Shaft
6 - Splined (DIN 5462)

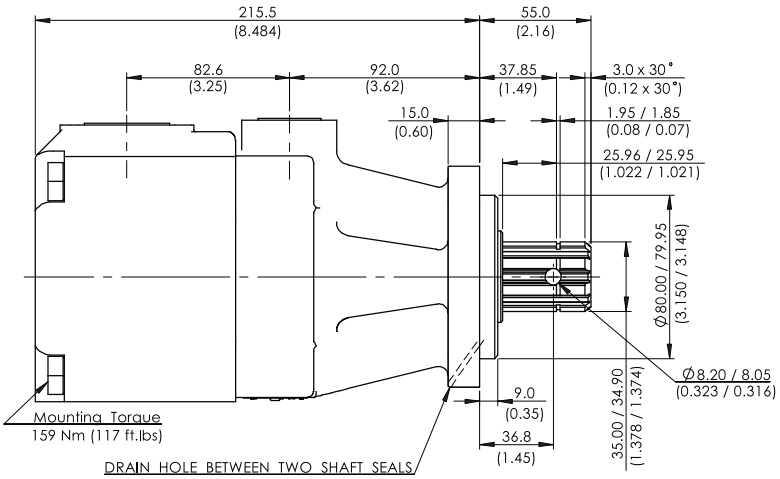
4 Shaft Rotation
(Viewed from shaft end)
R - Turn right
L - Turn left

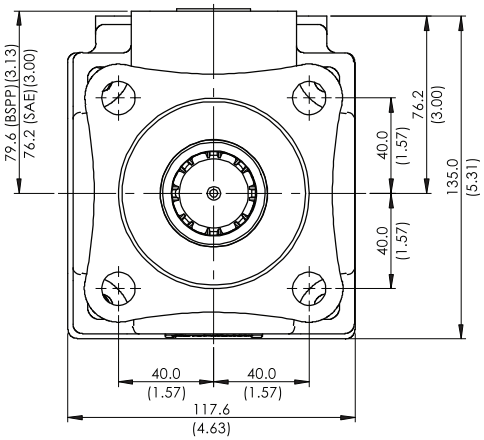
5 Inlet Port position
(Viewed from cover end)
00 - Opposite Outlet
02 - 90° CCW from Outlet
01 - Inline with Outlet
03 - 90° CW from Outlet

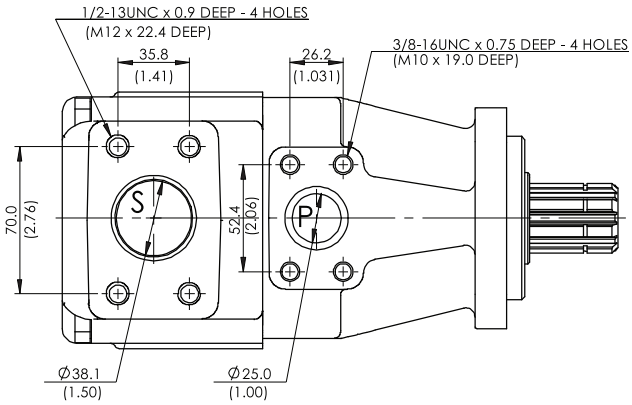


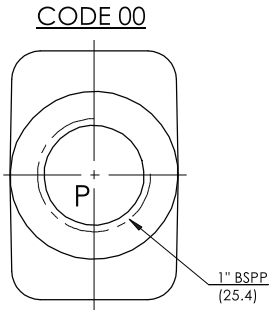
6 Outlet Port Size
00 - Flange 1" BSPP
01 - Flange 1" SAE 4 bolts (UNC)
M1 - Flange 1" SAE 4 bolts(Metric)

Installation Dimensions mm (inch) — HT6GC









Specifications — HT6GC

Size	Displacement cm³/ r (in³/ r)	Max Speed rpm	Min Speed rpm	Max Intermittent Pressure bar (psi)	Max Continuous Pressure bar (psi)	Weight kg (lb)
003	10.8 (0.66)	2800	600	280(4000)	240 (3500)	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)					
025	79.3 (4.84)	2500	600			
028	88.8 (5.42)			210 (3000)	160 (2300)	
031	100.0 (6.10)					

* Performance Characteristics same as HT6C *

High Pressure Double Vane Pump

HT6/HT7/HT67 Series

HOF

Features

- Fixed displacement and balanced type double vane pumps. The pump is designed for higher operating pressure and greater flow at the same housing size.
- With a balanced pin-vane design, outlet pressure is continuously applied only to the pin. The pin provides the steady light force against the vane. Top and bottom areas of the vane are subject to the same pressure, either inlet or outlet pressure, depending on the vane's location during rotor rotation. This pin-vane design minimizes noise level and improves volumetric efficiency.
- With the cartridge independent of the shaft, allowing for easy change of flow capacity and field servicing without removing the pump from its mounting.

HT6CCMW - 031 - 005 - 1 R 00 - 00

1 2 3 4 5 6 7

1 Model Series

Industrial - HT6CC, HT6DC, HT67DC, HT6EC HT67EC, HT6ED, HT7ED, HT7EDS

Mobile 1 shaft seal (M) - HT6CCM, HT6DCM, HT6ECM, HT6EDM

Mobile 2 shaft seals (P) - HT6CCP, HT6DCP, HT6ECP, HT6EDP

Severe Duty shaft (W) - HT6CCW, HT6CCMW, HT6DCW, HT6DCMW, HT67DCW

2 Shaft End Pump

Ring Size (USgpm)

6C - 003, 005, 006, 008, 010, 012, 014, 017, 020, 022, 025, 028, 031

6D - 014, 017, 020, 024, 028, 031, 035, 038, 042, 045, 050

67D - 014, 017, 020, 022, 024, 028, 031, 035, 038, 042, 045, 050

6E - 042, 045, 050, 052, 062, 066, 072

67E, 7E - 042, 045, 050, 052, 054, 057, 062, 066, 072, 085

3 Cover End Pump

Ring Size (USgpm)

6C - 003, 005, 006, 008, 010, 012, 014, 017, 020, 022, 025, 031

6D - 014, 017, 020, 024, 028, 031, 035, 038, 042, 045, 050

67D, 7D - 014, 017, 020, 022, 024, 028, 031, 035, 038, 042, 045, 050

4 Shaft

For HT6CC, HT6CCM

1 - No SAE Keyed Shaft

3 - SAE BB Splined Shaft

5 - SAE B Splined Shaft

For HT6CCW, HT6CCMW

2 - SAE BB Keyed Shaft

R - Special Keyed Shaft (HT6CCMW only)

X - Special Keyed Shaft (HT6CCMW only)

W - Special Keyed Shaft (HT6CCMW only)

V - Special Keyed Shaft (HT6CCMW only)

T - SAE J718c Splined Shaft (HT6CCMW only)

For HT6CCP

3 - No SAE Splined Shaft

4 - SAE BB Splined Shaft

6 - No SAE Splined Shaft

For HT6DC, HT6DCM, HT6DCP, HT67DC

1 - SAE C Keyed Shaft

2 - No SAE Keyed Shaft

3 - SAE C Splined Shaft

4 - No SAE Splined Shaft

3 - No SAE Splined Shaft (HT6DCP only)

For HT6DCW, HT6DCMW, HT67DCW

5 - No SAE Keyed Shaft

T - SAE J718c Splined Shaft (HT6DCMW only)

For HT6EC, HT6ECM, HT6ECP, HT67EC

1 - SAE CC Keyed Shaft

2 - No SAE Keyed Shaft

3 - SAE C Splined Shaft

4 - SAE CC Splined Shaft

T - SAE J718c Splined Shaft (HT6ECM only)

3 - No SAE Splined Shaft (HT6ECP only)

For HT6ED, HT6EDM, HT6EDP, HT7ED, HT7EDS

1 - SAE CC Keyed Shaft (Except HT7ED)

2 - No SAE Keyed Shaft (Except HT7ED)

3 - SAE C Splined Shaft (Except HT7ED)

4 - SAE CC Splined Shaft (Except HT7ED)

5 - ISO R775-G38M Keyed Shaft (HT7ED, HT7EDS only)

3 - No SAE Splined Shaft (HT6EDP only)

T - SAE J718c Splined Shaft (HT6EDP, HT6EDM only)

5 Shaft Rotation
(Viewed from shaft end)

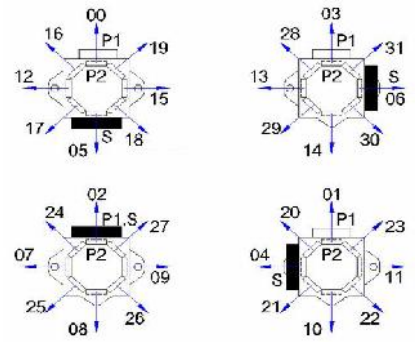
R - Turn right

L - Turn left

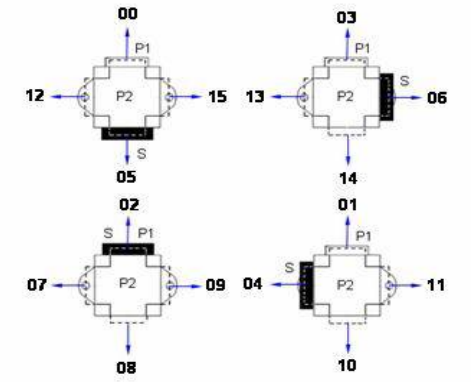
6 Port Position
(Viewed from cover end)

For all models except HT6ED, HT6EDM, HT6EDP, HT7ED, HT7EDS

2 digits code presents the position of cover end outlet (P2) at various positions of shaft end outlet (P1) and inlet (S)



For HT6ED, HT6EDM, HT6EDP, HT7ED, HT7EDS



7 Port Connection

00 - UNC Port Connection

M0 - Metric Port Connection

For HT6CC only

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"	$2^1/_2$"
11	M1	1"	3/4"	$2^1/_2$"

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	15.0 (34.0)
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)					

HT6DC, HT6DCW 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)
014	47.6 (2.90)	240 (3500)	206 (3000)	003	10.8 (0.66)	275 (4000)	240 (3500)	600	2500	37.0 (82.0)
017	58.2 (3.55)			005	17.2 (1.05)					
020	66.0 (4.03)			006	21.3 (1.30)					
024	79.5 (4.85)			008	26.4 (1.61)					
028	89.7 (5.47)			010	34.1 (2.08)					
031	98.3 (6.00)			012	37.1 (2.26)					
035	111.0 (6.77)			014	46.0 (2.81)					
038	120.3 (7.34)			017	58.3 (3.56)					
042	136.0 (8.30)			020	63.8 (3.89)					
045	145.7 (8.89)			022	70.3 (4.29)					
050	158.0 (9.64)	206 (3000)	160 (2300)	025	79.3 (4.84)					
				028	88.8 (5.42)	206 (3000)	160 (2300)			
				031	100.0 (6.10)					

HT67DC, HT67DCW 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)
014	47.6 (2.90)	300 (4350)	250 (3600)	003	10.8 (0.66)	275 (4000)	240 (3500)	600	2500	37.0 (82.0)
017	58.2 (3.55)			005	17.2 (1.05)					
020	66.0 (4.03)			006	21.3 (1.30)					
022	70.0 (4.27)			008	26.4 (1.61)					
024	79.5 (4.85)			010	34.1 (2.08)					
028	89.7 (5.47)			012	37.1 (2.26)					
031	98.3 (6.00)			014	46.0 (2.81)					
035	111.0 (6.77)	280 (4060)		017	58.3 (3.56)					
038	120.3 (7.34)			020	63.8 (3.89)					
042	136.0 (8.30)	260 (3770)	235 (3400)	022	70.3 (4.29)					
045	145.7 (8.89)	240 (3500)	206 (3000)	025	79.3 (4.84)					
050	158.0 (9.64)	206 (3000)	160 (2300)	028	88.8 (5.42)	206 (3000)	160 (2300)			
				031	100.0 (6.10)					

HT6EC 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)
042	132.3 (8.07)	240 (3500)	206 (3000)	003	10.8 (0.66)	275 (4000)	240 (3500)	600	2200	54.2 (119.5)
045	142.4 (8.70)			005	17.2 (1.05)					
050	158.5 (9.67)			006	21.3 (1.30)					
052	164.8 (10.00)			008	26.4 (1.61)					
062	196.7 (12.00)			010	34.1 (2.08)					
066	213.3 (13.00)			012	37.1 (2.26)					
072	227.1 (13.86)			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)	206 (3000)	160 (2300)			
				031	100.0 (6.10)					

HT67EC for Double pump

Shaft End Pump				Cover End Pump				Min. Speed	Max. Speed	Weight
Size	Displacement cm^3/r $1(in^3/r)$	Max. bar (psi)	Max. bar (psi)	Size	Displacement cm^3/r $1(in^3/r)$	Max. bar (psi)	Max. bar (psi)	rpm	rpm	kg (lb)
042	132.3 (8.07)	240 (3500)	206 (3000)	003	10.8 (0.66)	275 (4000)	240 (3500)	600	2200	54.2 (119.5)
045	142.4 (8.70)			005	17.2 (1.05)					
050	158.5 (9.67)			006	21.3 (1.30)					
052	164.8 (10.00)			008	26.4 (1.61)					
054	173.8 (10.60)			010	34.1 (2.08)					
057	180.7 (11.02)			012	37.1 (2.26)					
062	196.7 (12.00)			014	46.0 (2.81)					
066	213.3 (13.00)			017	58.3 (3.56)					
072	227.1 (13.86)			020	63.8 (3.89)					
085	269.8 (16.40)	90 (1300)	75 (1100)	022	70.3 (4.29)					
				025	79.3 (4.84)					
				028	88.8 (5.42)	206 (3000)	160 (2300)			
				031	100.0 (6.10)					

HT6ED 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)
042	132.3 (8.07)	240 (3500)	206 (3000)	014	47.6 (2.90)	240 (3500)	206 (3000)	600	2200	64.5 (142.0)
045	142.4 (8.70)			017	58.2 (3.55)					
050	158.5 (9.67)			020	66.0 (4.03)					
052	164.8 (10.00)			024	79.5 (4.85)					
062	196.7 (12.00)			028	89.7 (5.47)					
066	213.3 (13.00)			031	98.3 (6.00)					
072	227.1 (13.86)			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)	206 (3000)	160 (2300)			

HT7ED,HT7EDS 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)
042	132.3 (8.07)	240 (3500)	206 (3000)	014	47.6 (2.90)	300 (4350)	250 (3600)	600	2200	64.5 (142.0)
045	142.4 (8.70)			017	58.2 (3.55)					
050	158.5 (9.67)			020	66.0 (4.03)					
052	164.8 (10.00)			022	70.0 (4.27)					
054	173.8 (10.60)			024	79.5 (4.85)					
057	180.7 (11.02)			028	89.7 (5.47)					
062	196.7 (12.00)			031	98.3 (6.00)					
066	213.3 (13.00)			035	111.0 (6.77)	280 (4060)				
072	227.1 (13.86)			038	120.3 (7.34)					
085	269.8 (16.40)	90 (1300)	75 (1100)	042	136.0 (8.30)	260 (3770)	235 (3400)			
				045	145.7 (8.89)	240 (3500)	206 (3000)			
				050	158.0 (9.64)	206 (3000)	160 (2300)			

HT6CCM, HT6CCP, HT6CCMW 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)	400	2800	15.0 (34.0)
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)					

HT6DCM, HT6DCP,HT6DCMW for Double pump

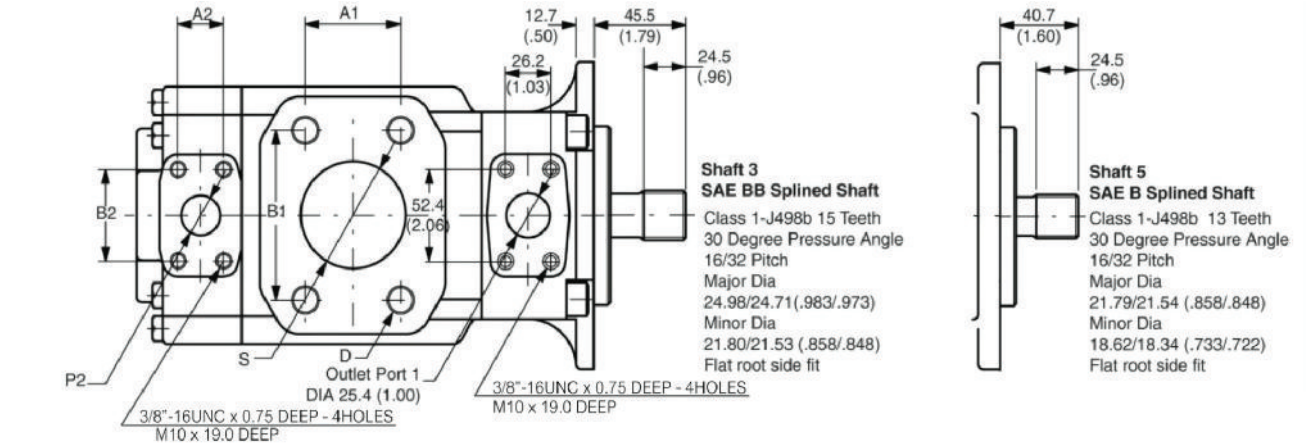
Shaft End Pump				Cover End Pump				Min. Speed	Max. Speed	Weight
Size	Displacement $cm^3/r\ 1(in^3/r)$	Max. Intermittent Pressure bar (psi)	Max. Continuous Pressure bar (psi)	Size	Displacement $cm^3/r\ 1(in^3/r)$	Max. Intermittent Pressure bar (psi)	Max. Continuous Pressure bar (psi)	rpm	rpm	kg (lb)
014	47.6 (2.90)	240 (3500)	206 (3000)	003	10.8 (0.66)	275 (4000)	240 (3500)	400	2500	37.0 (82.0)
017	58.2 (3.55)			005	17.2 (1.05)					
020	66.0 (4.03)			006	21.3 (1.30)					
024	79.5 (4.85)			008	26.4 (1.61)					
028	89.7 (5.47)			010	34.1 (2.08)					
031	98.3 (6.00)			012	37.1 (2.26)					
035	111.0 (6.77)			014	46.0 (2.81)					
038	120.3 (7.34)			017	58.3 (3.56)					
042	136.0 (8.30)			020	63.8 (3.89)					
045	145.7 (8.89)			022	70.3 (4.29)					
050	158.0 (9.64)	206 (3000)	160 (2300)	025	79.3 (4.84)					
				028	88.8 (5.42)	206 (3000)	160 (2300)			
				031	100.0 (6.10)					

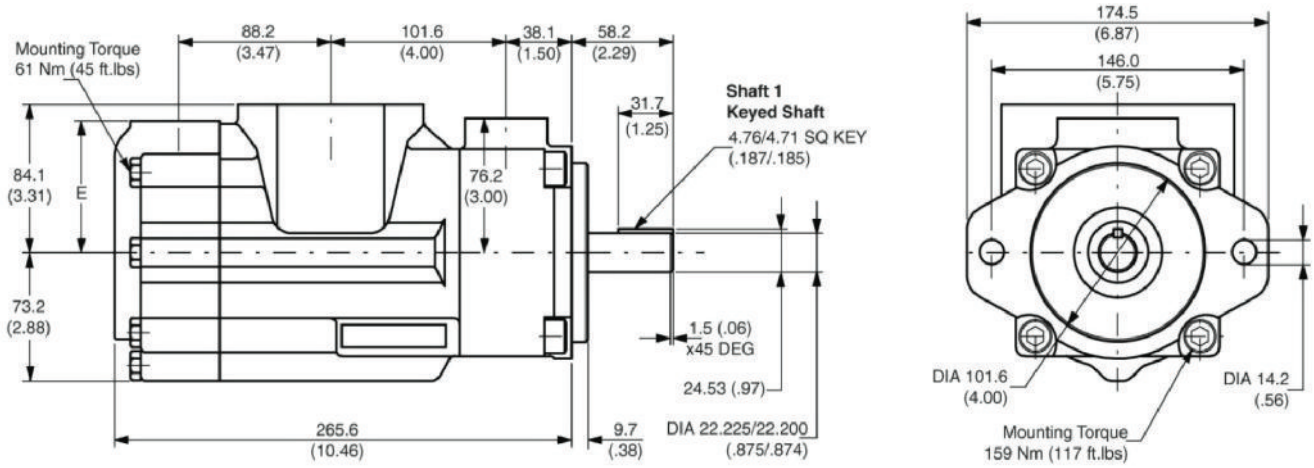
HT6ECM, HT6ECP for Double pump

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)
042	132.3 (8.07)	240 (3500)	206 (3000)	003	10.8 (0.66)	275 (4000)	240 (3500)	400	2200	54.2 (119.5)
045	142.4 (8.70)			005	17.2 (1.05)					
050	158.5 (9.67)			006	21.3 (1.30)					
052	164.8 (10.00)			008	26.4 (1.61)					
062	196.7 (12.00)			010	34.1 (2.08)					
066	213.3 (13.00)			012	37.1 (2.26)					
072	227.1 (13.86)			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)	206 (3000)	160 (2300)			
				031	100.0 (6.10)					

HT6EDM, HT6EDP 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)
042	132.3 (8.07)	240 (3500)	206 (3000)	014	47.6 (2.90)	240 (3500)	206 (3000)	400	2200	64.5 (142.0)
045	142.4 (8.70)			017	58.2 (3.55)					
050	158.5 (9.67)			020	66.0 (4.03)					
052	164.8 (10.00)			024	79.5 (4.85)					
062	196.7 (12.00)			028	89.7 (5.47)					
066	213.3 (13.00)			031	98.3 (6.00)					
072	227.1 (13.86)			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)	206 (3000)	160 (2300)			





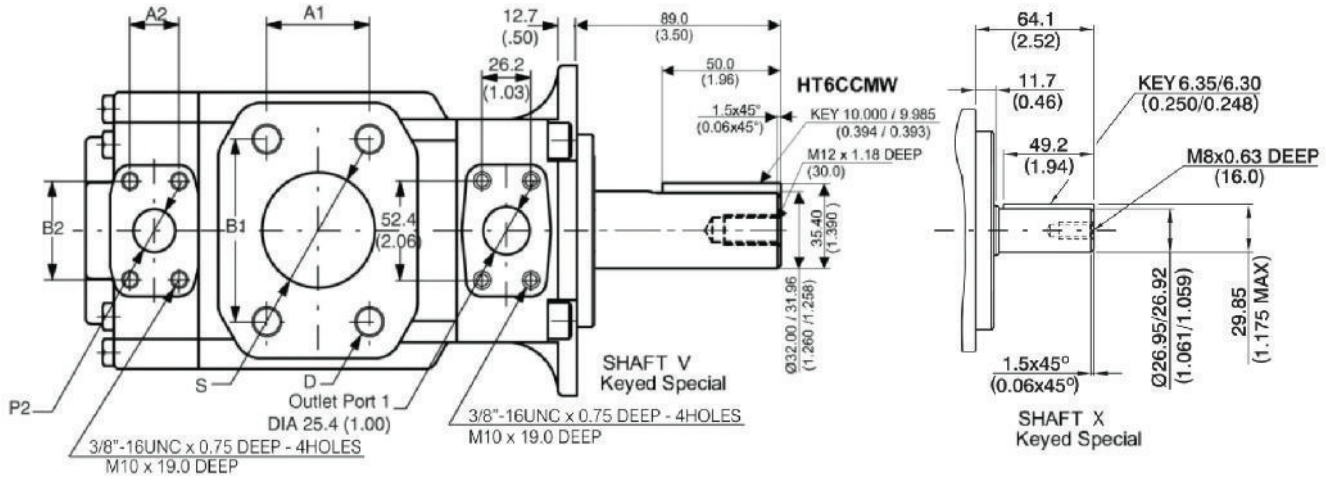
Inlet Port Size	S	A1	B1	D
3"	76.2(3.00)	61.9(2.44)	106.4(4.19)	5/8"-11UNC x 1.12 DEEP M16 x 28.4 DEEP
2"½	63.5(2.50)	50.8(2.00)	88.9(3.50)	1/2"-13UNC x 0.94 DEEP M12 x 23.9 DEEP

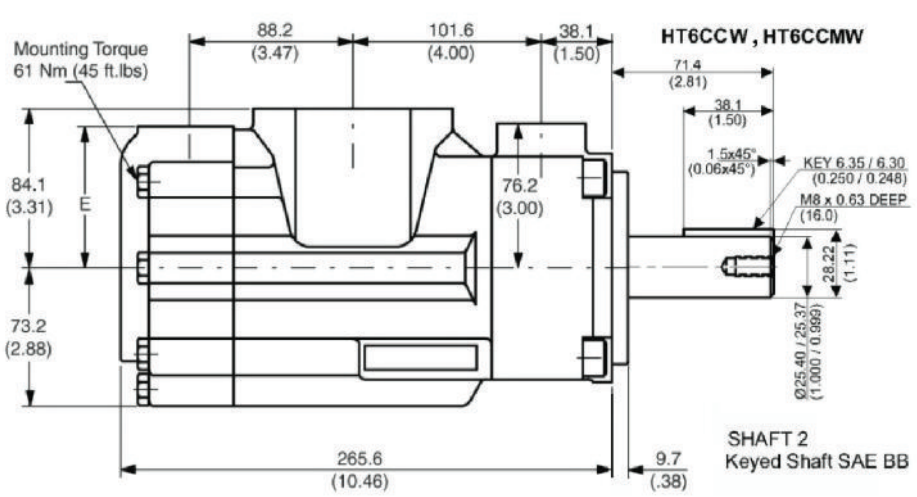
Cover End Outlet Port Size	P2	A2	B2	E
1"	25.4(1.00)	26.2(1.03)	52.4(2.06)	74.7(2.94)
3/4"	19.0(0.75)	22.4(0.88)	47.7(1.88)	76.2(3.00)

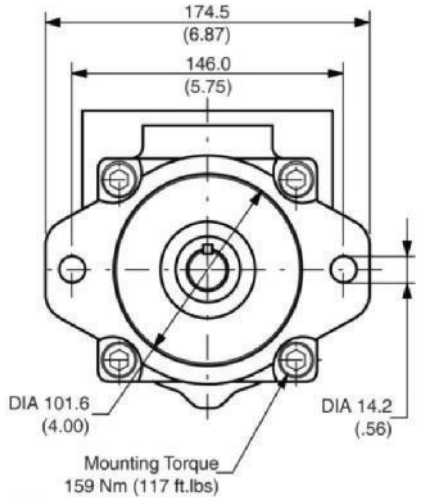
OPERATING CHARACTERISTICS - TYPICAL [115 SUS]

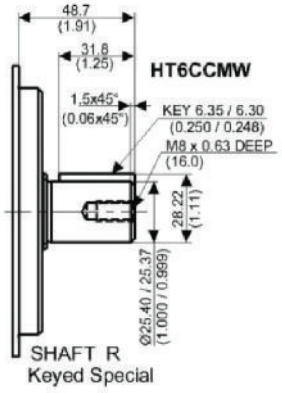
Pressure port	Series	Volumetric Displacement	Flow Q [GPM] & n = 1800 RPM			Input power P [HP] & n = 1800 RPM		
			p = 0 PSI	p = 2000 PSI	p = 3500 PSI	p = 100 PSI	p = 2000 PSI	p = 3500 PSI
P1 & P2	03	.66 in^3/rev	5.14	3.61	-	2.11	8.45	-
	05	1.05 in^3/rev	8.18	6.65	5.56	2.29	12.00	19.59
	06	1.30 in^3/rev	10.13	8.60	7.51	2.40	14.28	23.37
	08	1.61 in^3/rev	12.55	11.02	9.93	2.54	17.11	28.53
	10	2.08 in^3/rev	16.22	14.69	13.60	2.76	21.38	36.00
	12	2.26 in^3/rev	17.64	16.11	15.02	2.84	23.05	38.92
	14	2.81 in^3/rev	21.88	20.35	19.26	3.09	27.99	47.56
	17	3.56 in^3/rev	27.73	26.20	25.11	3.43	34.81	59.51
	20	3.89 in^3/rev	30.34	28.81	27.42	3.58	37.86	64.85
	22	4.29 in^3/rev	33.43	31.90	30.81	3.76	41.47	71.16
	25[1]	4.84 in^3/rev	37.71	36.18	35.09	4.01	46.46	79.90
	28[1]	5.42 in^3/rev	42.23	40.70	39.94[2]	4.27	51.74	76.73[2]
	31[1]	6.10 in^3/rev	47.56	46.03	45.27[2]	4.58	57.95	86.06[2]

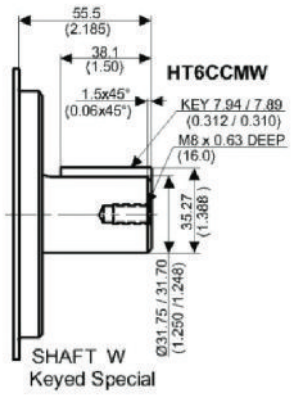
1) 25 - 28 - 31 = 2500 R.P.M. max. 2) 28 - 31 = 3000 PSI max. int.
- Not to use because internal leakage greater than 50% theoretical flow. Port connection can be furnished with metric threads.

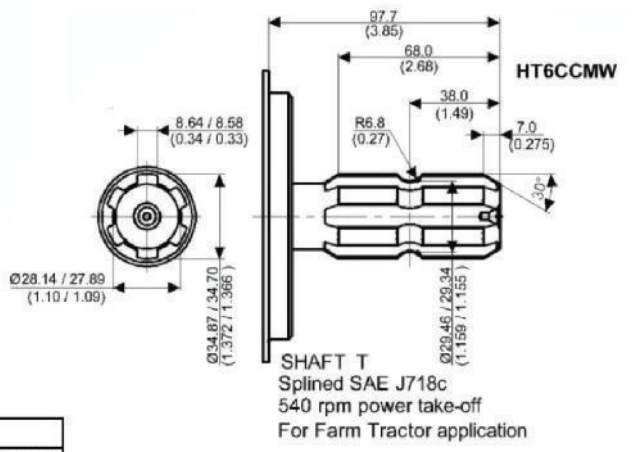












Inlet Port Size	S	A1	B1	D
3"	76.2(3.00)	61.9(2.44)	106.4(4.19)	5/8"-11UNC x 1.12 DEEP M16 x 28.4 DEEP
2"½	63.5(2.50)	50.8(2.00)	88.9(3.50)	1/2"-13UNC x 0.94 DEEP M12 x 23.9 DEEP

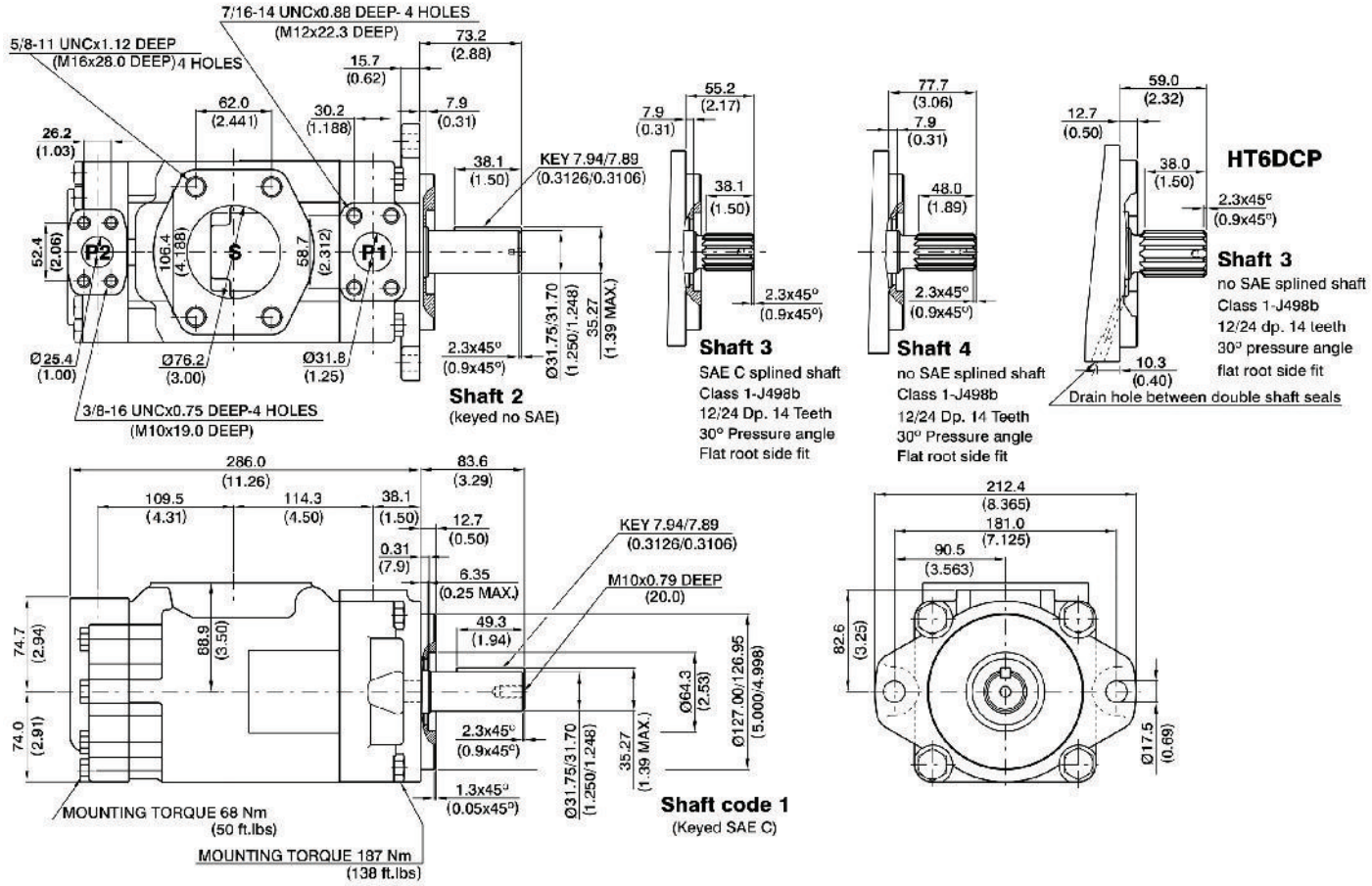
Cover End Outlet Port Size	P2	A2	B2	E
1"	25.4(1.00)	26.2(1.03)	52.4(2.06)	74.7(2.94)
3/4"	19.0(0.75)	22.4(0.88)	47.7(1.88)	76.2(3.00)

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 = 100 PSI	p = 2000 PSI	p = 3500 PSI
P1 & P2	03	.66 in^3/rev	5.14	3.61	-	2.11	8.45	-
	05	1.05 in^3/rev	8.18	6.65	5.56	2.29	12.00	19.59
	06	1.30 in^3/rev	10.13	8.60	7.51	2.40	14.28	23.37
	08	1.61 in^3/rev	12.55	11.02	9.93	2.54	17.11	28.53
	10	2.08 in^3/rev	16.22	14.69	13.60	2.76	21.38	36.00
	12	2.26 in^3/rev	17.64	16.11	15.02	2.84	23.05	38.92
	14	2.81 in^3/rev	21.88	20.35	19.26	3.09	27.99	47.56
	17	3.56 in^3/rev	27.73	26.20	25.11	3.43	34.81	59.51
	20	3.89 in^3/rev	30.34	28.81	27.42	3.58	37.86	64.85
	22	4.29 in^3/rev	33.43	31.90	30.81	3.76	41.47	71.16
	25[1]	4.84 in^3/rev	37.71	36.18	35.09	4.01	46.46	79.90
	28[1]	5.42 in^3/rev	42.23	40.70	39.94[2]	4.27	51.74	76.73[2]
	31[1]	6.10 in^3/rev	47.56	46.03	45.27[2]	4.58	57.95	86.06[2]

1) 25 - 28 - 31 = 2500 R.P.M. max. *2) 28 - 31 = 3000 PSI max. int.*

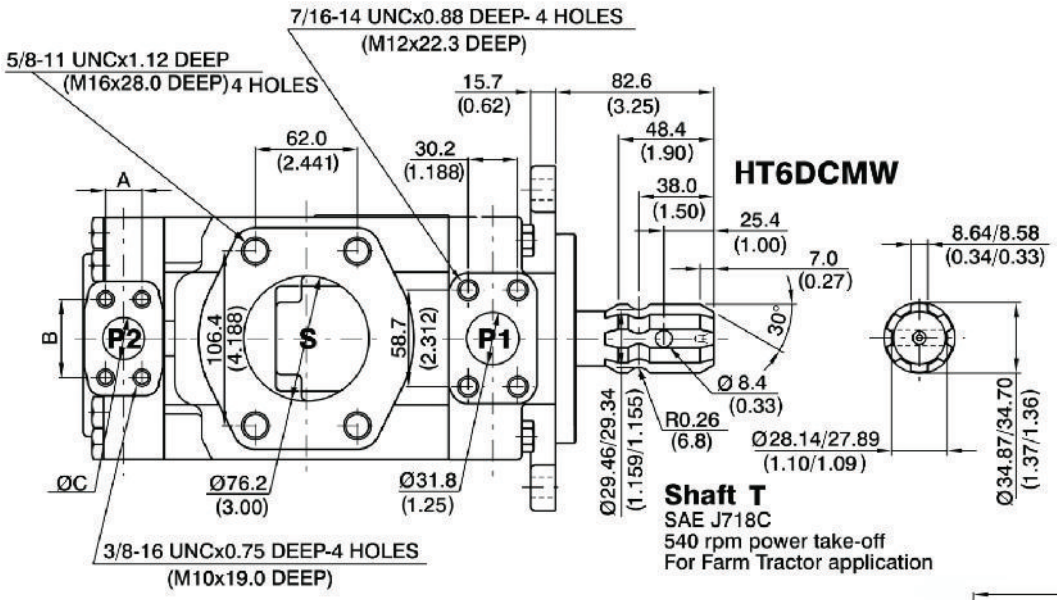
- Not to use because internal leakage greater than 50% theoretical flow. *Port connection can be furnished with metric threads.*

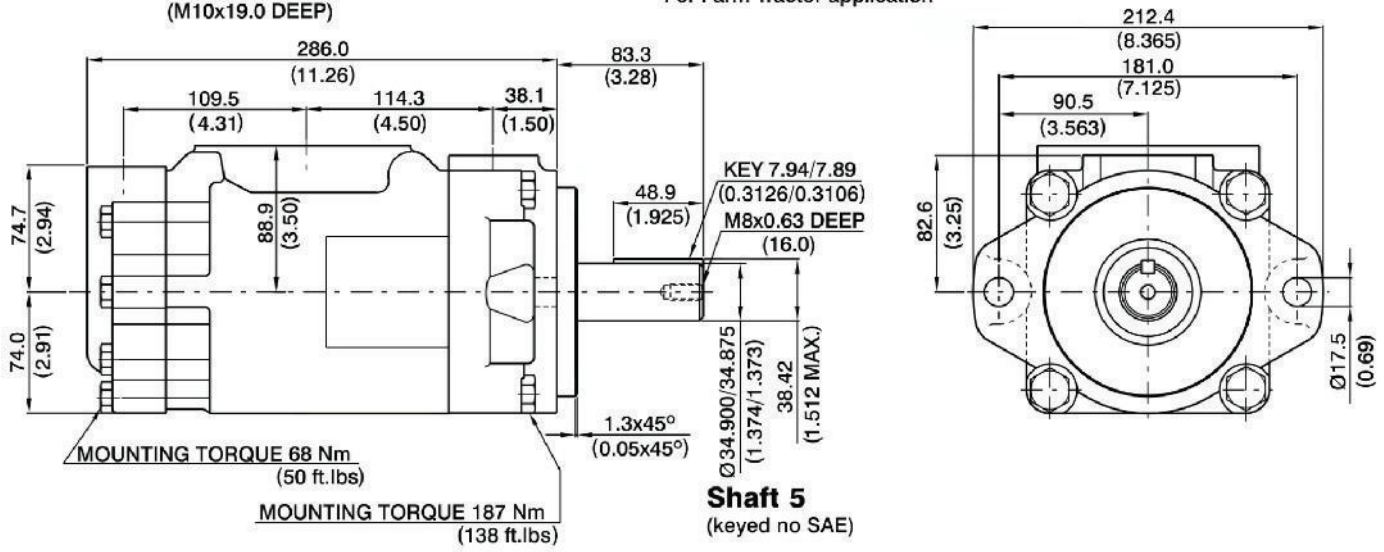


OPERATING CHARACTERISTICS - TYPICAL [115 SUS]

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 = 100 PSI	p = 2000 PSI	p = 3500 PSI
P1	14	2.90 in³/rev	22.64	20.46	18.82	4.02	29.31	49.34
	17	3.55 in³/rev	27.68	25.50	23.86	4.31	35.20	59.64
	20	4.00 in³/rev	31.39	29.21	27.57	4.53	39.52	67.21
	24	4.80 in³/rev	37.82	35.63	33.99	4.91	47.02	80.32
	28	5.50 in³/rev	42.66	40.48	38.84	5.19	52.68	90.23
	31	6.00 in³/rev	46.75	44.57	42.93	5.43	57.45	98.58
	35	6.80 in³/rev	52.79	50.61	48.97	5.78	64.50	110.91
	38	7.30 in³/rev	57.21	55.03	53.39	6.04	69.66	119.94
	42[2]	8.30 in³/rev	64.68	62.50	60.86	6.47	78.37	135.19
	45[2]	8.90 in³/rev	69.29	67.11	65.47	6.74	83.75	144.61
	50[2]	9.64 in³/rev	75.14	72.96	71.78[1]	7.08	90.58	134.54[1]
P2	03	.66 in³/rev	5.14	3.61	-	2.11	8.45	-
	05	1.05 in³/rev	8.18	6.65	5.56	2.29	12.00	19.59
	06	1.30 in³/rev	10.13	8.60	7.51	2.40	14.28	23.57
	08	1.61 in³/rev	12.55	11.02	9.93	2.54	17.11	28.53
	10	2.08 in³/rev	16.22	14.69	13.60	2.76	21.38	36.00
	12	2.26 in³/rev	17.64	16.11	15.02	2.84	23.05	38.92
	14	2.81 in³/rev	21.88	20.35	19.26	3.09	27.99	47.56
	17	3.56 in³/rev	27.73	26.20	25.11	3.43	34.81	59.51
	20	3.89 in³/rev	30.34	28.81	27.42	3.58	37.86	64.85
	22	4.29 in³/rev	33.43	31.90	30.81	3.76	41.47	71.16
	25	4.84 in³/rev	37.71	36.18	35.09	4.01	46.46	79.90
	28	5.42 in³/rev	42.23	40.70	39.94[1]	4.27	51.74	76.73[1]
	31	6.10 in³/rev	47.56	46.03	45.27[1]	4.58	57.95	86.06[1]

1) 28 - 31 - 50 = 3000 PSI max. int. 2) 42 - 45 - 50 = 2200 R.P.M. max
- Not to use because internal leakage greater than 50% theoretical flow Port connection can be furnished with metric threads.





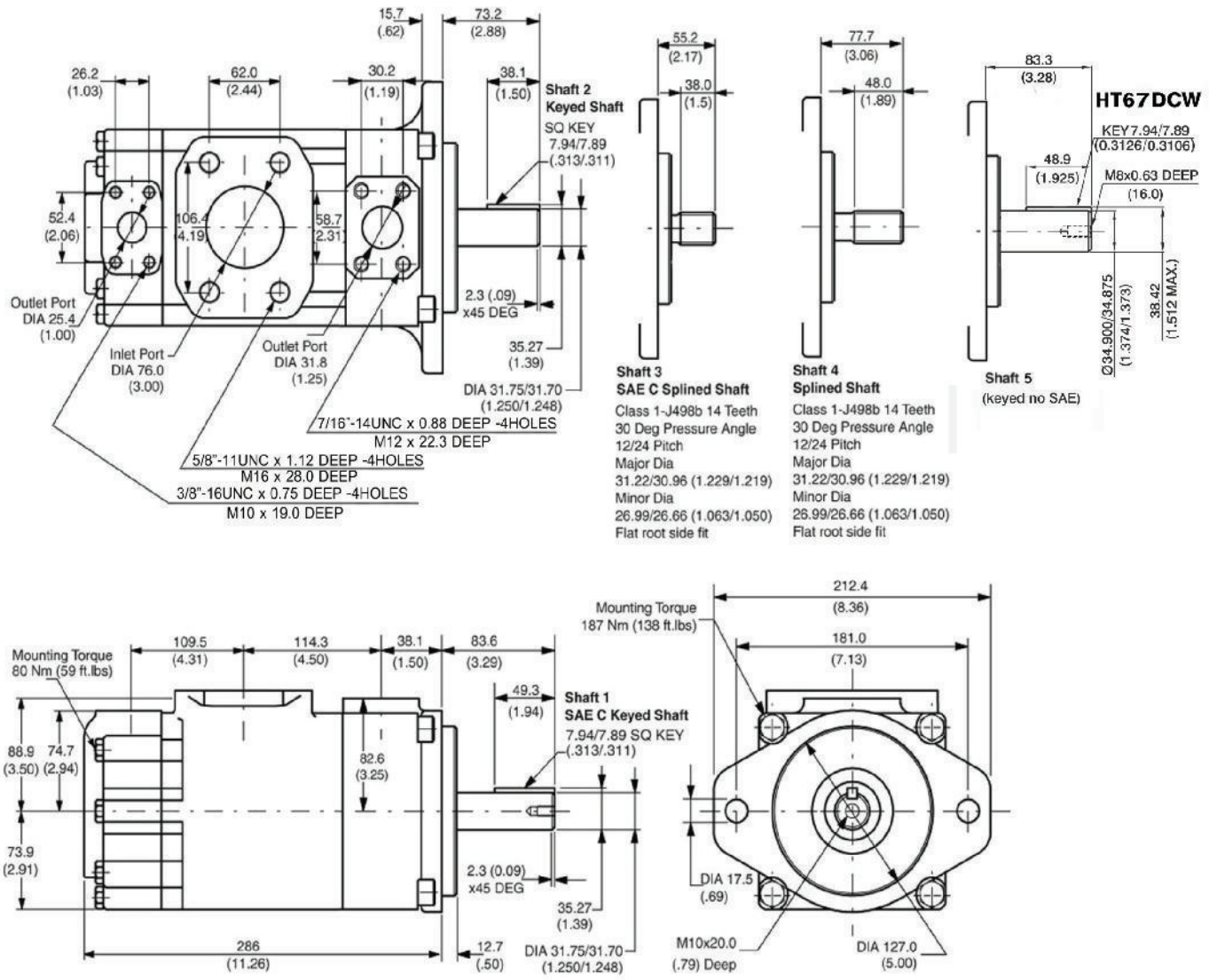
Alternate connect.variables		
	00 & M0	01 & M1
A	26.2 (1.03)	22.2 (0.874)
B	52.4 (2.06)	47.6 (1.874)
C	25.4 (1.00)	19.05 (0.75)

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 = 100 PSI	p = 2000 PSI	p = 3500 PSI
P1	14	2.90 in^3/rev	22.64	20.46	18.82	4.02	29.31	49.34
	17	3.55 in^3/rev	27.68	25.50	23.86	4.31	35.20	59.64
	20	4.00 in^3/rev	31.39	29.21	27.57	4.53	39.52	67.21
	24	4.80 in^3/rev	37.82	35.63	33.99	4.91	47.02	80.32
	28	5.50 in^3/rev	42.66	40.48	38.84	5.19	52.68	90.23
	31	6.00 in^3/rev	46.75	44.57	42.93	5.43	57.45	98.58
	35	6.80 in^3/rev	52.79	50.61	48.97	5.78	64.50	110.91
	38	7.30 in^3/rev	57.21	55.03	53.39	6.04	69.66	119.94
	42[2)]	8.30 in^3/rev	64.68	62.50	60.86	6.47	78.37	135.19
	45[2)]	8.90 in^3/rev	69.29	67.11	65.47	6.74	83.75	144.61
	50[2)]	9.64 in^3/rev	75.14	72.96	71.78[1)]	7.08	90.58	134.54[1)]
P2	03	.66 in^3/rev	5.14	3.61	-	2.11	8.45	-
	05	1.05 in^3/rev	8.18	6.65	5.56	2.29	12.00	19.59
	06	1.30 in^3/rev	10.13	8.60	7.51	2.40	14.28	23.57
	08	1.61 in^3/rev	12.55	11.02	9.93	2.54	17.11	28.53
	10	2.08 in^3/rev	16.22	14.69	13.60	2.76	21.38	36.00
	12	2.26 in^3/rev	17.64	16.11	15.02	2.84	23.05	38.92
	14	2.81 in^3/rev	21.88	20.35	19.26	3.09	27.99	47.56
	17	3.56 in^3/rev	27.73	26.20	25.11	3.43	34.81	59.51
	20	3.89 in^3/rev	30.34	28.81	27.42	3.58	37.86	64.85
	22	4.29 in^3/rev	33.43	31.90	30.81	3.76	41.47	71.16
	25	4.84 in^3/rev	37.71	36.18	35.09	4.01	46.46	79.90
	28	5.42 in^3/rev	42.23	40.70	39.94[1)]	4.27	51.74	76.73[1)]
	31	6.10 in^3/rev	47.56	46.03	45.27[1)]	4.58	57.95	86.06[1)]

1) 28 - 31 - 50 = 3000 PSI max. int. *2) 42 - 45 - 50 = 2200 R.P.M. max*

- Not to use because internal leakage greater than 50% theoretical flow *Port connection can be furnished with metric threads.*



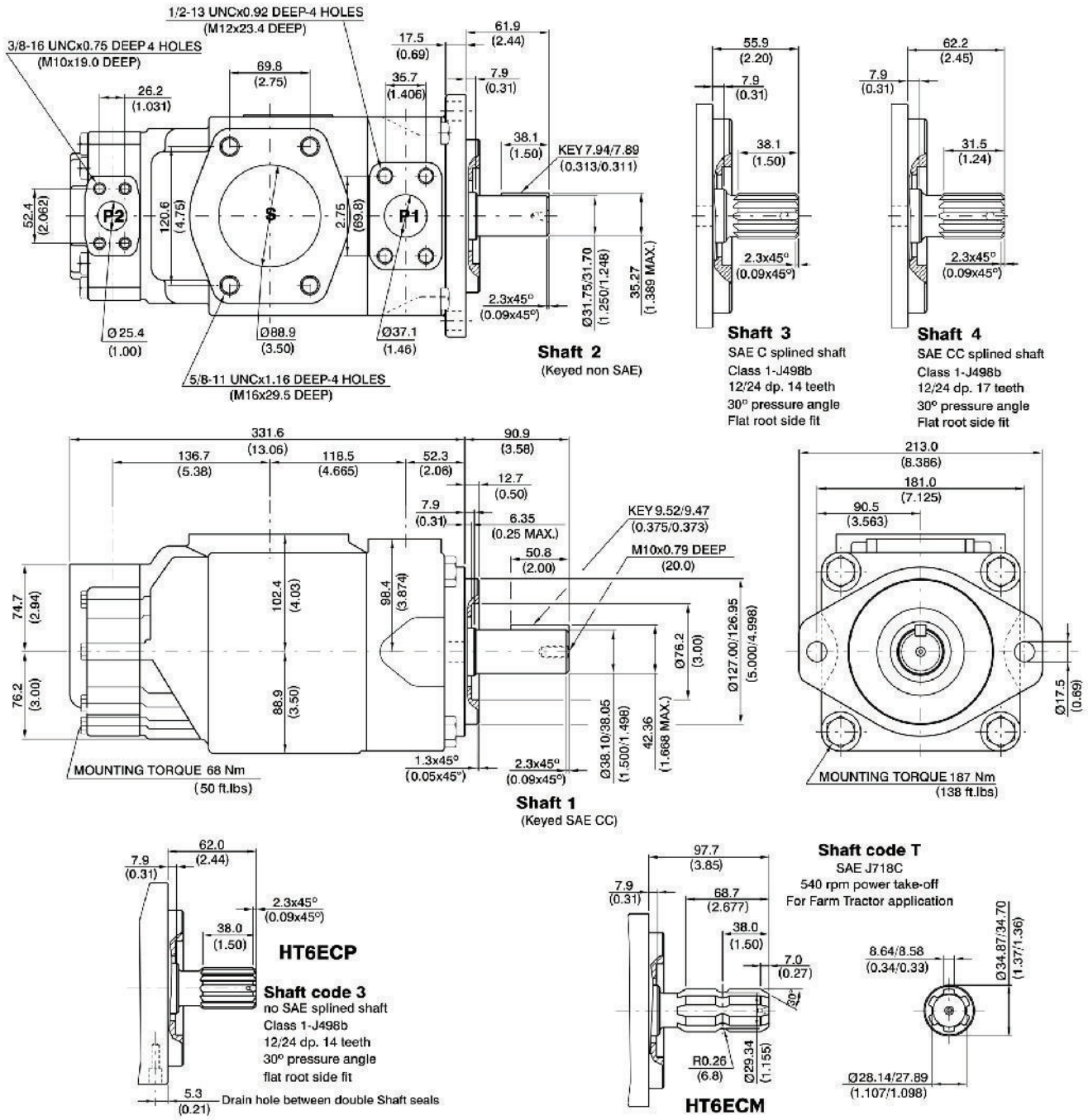
Performance Characteristics HT67DC, HT67DCW

OPERATING CHARACTERISTICS – TYPICAL [115 SUS]

Pressure port	Series	Volumetric Displacement	Flow [l/min] & n = 1800 RPM			Input power P [kW] & n = 1800 RPM		
			p = 0 PSI	p = 2000 PSI	p = 3630 PSI	p = 100 PSI	p = 2000 PSI	p = 3630 PSI
P1	014	2.68 in³/rev	20.92	19.18	17.81	3.46	27.77	47.03
	017	3.36 in³/rev	26.16	24.41	23.04	3.77	33.88	57.71
	020	4.03 in³/rev	31.39	29.64	28.27	4.07	39.98	68.39
	022	4.29 in³/rev	33.43	31.69	30.32	4.19	42.37	72.57
	024	4.95 in³/rev	38.57	36.82	35.45	4.49	48.36	83.06
	028	5.49 in³/rev	42.80	41.06	39.69	4.74	53.30	91.70
	031	6.05 in³/rev	47.18	45.43	44.06	4.99	58.41	100.63
	035	6.92 in³/rev	53.93	52.18	50.81	5.39	66.29	114.42
	038	7.36 in³/rev	57.35	55.61	54.24	5.59	70.28	121.42
	042	8.39 in³/rev	65.39	63.65	62.28	6.05	79.66	137.83
	045	8.89 in³/rev	69.29	67.11	65.31	6.74	83.75	145.79
	050	9.64 in³/rev	75.14	72.96	71.78 [1)]	7.08	90.58	134.50 [1)]
			p = 0 PSI	p = 2000 PSI	p = 4000 PSI	p = 100 PSI	p = 2000 PSI	p = 4000 PSI
P2	003	.66 in³/rev	5.14	3.85	-	2.11	8.45	-
	005	1.05 in³/rev	8.18	6.89	5.68	2.29	12.00	19.81
	006	1.30 in³/rev	10.13	8.84	7.63	2.40	14.28	23.79
	008	1.61 in³/rev	12.55	11.26	10.05	2.54	17.11	28.75
	010	2.08 in³/rev	16.22	14.93	13.71	2.76	21.38	36.22
	012	2.26 in³/rev	17.64	16.35	15.14	2.84	23.05	39.14
	014	2.81 in³/rev	21.88	20.59	19.37	3.09	27.99	47.78
	017	3.56 in³/rev	27.73	26.44	25.22	3.43	34.81	59.73
	020	3.89 in³/rev	30.34	29.05	27.84	3.58	37.86	65.07
	022	4.29 in³/rev	33.43	32.14	30.93	3.76	41.47	71.38
	025	4.84 in³/rev	37.71	36.42	35.21	4.01	46.46	80.12
	028	5.42 in³/rev	42.23	40.94	40.32 [1)]	4.27	51.74	76.73 [1)]
	031 using	6.10 in³/rev	47.56	46.27	45.65 [1)]	4.58	57.95	86.06 [1)]

- We do not recommend using 003 at 4000 PSI & 1500 RPM as the internal leakage is over 50% of theoretical flow.

1) 050 – 028 – 031 = 3000 PSI max. int.

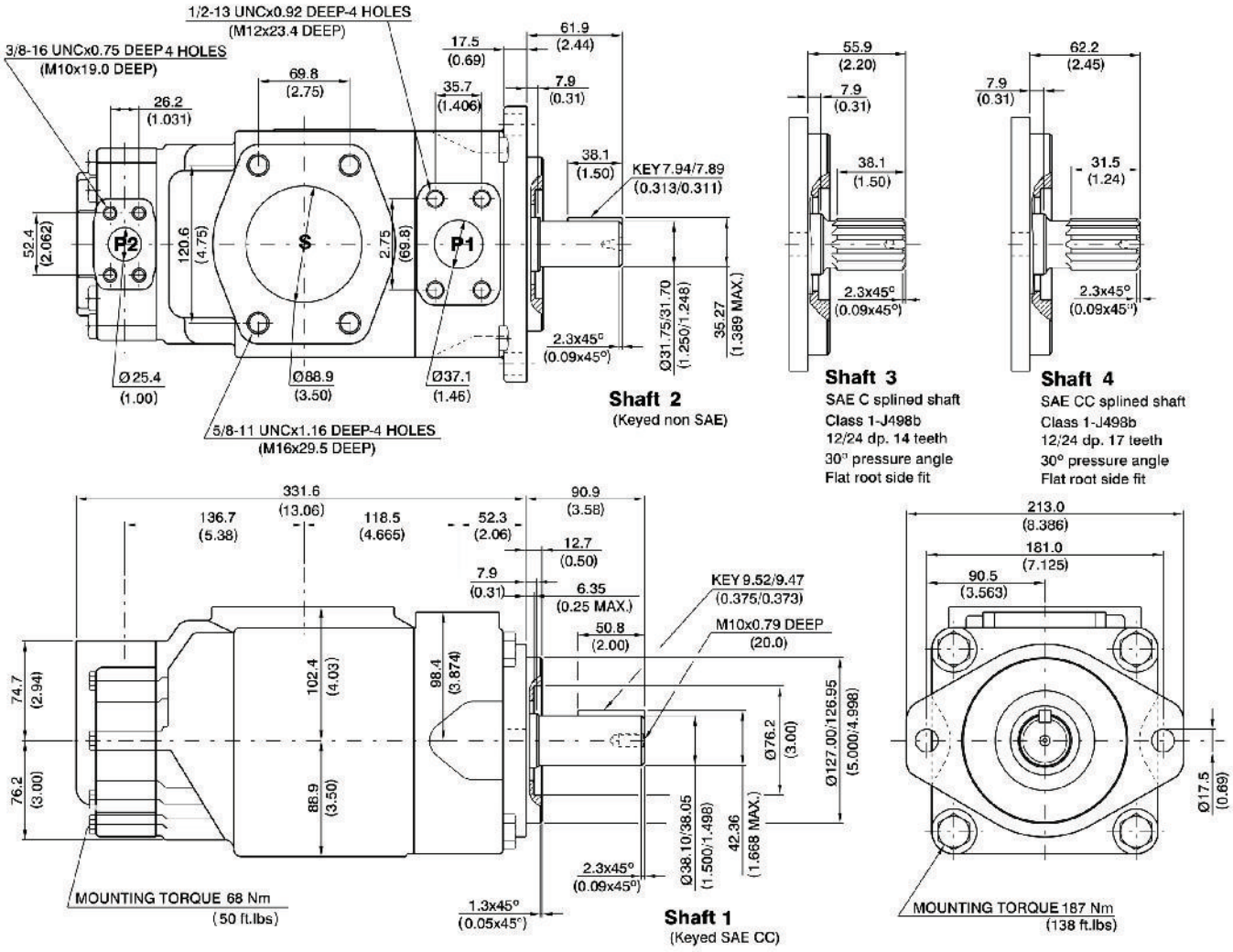


OPERATING CHARACTERISTICS - TYPICAL [115 SUS]

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 = 100 PSI	p = 2000 PSI	p = 3500 PSI
P1	042	8.07 in^3/rev	62.92	60.37	58.52	8.09	78.44	133.80
	045	8.70 in^3/rev	67.72	65.17	63.32	6.87	82.09	141.51
	050	9.67 in^3/rev	75.38	72.83	70.98	7.32	91.02	157.15
	052	10.00 in^3/rev	78.37	75.82	73.97	7.49	94.52	163.27
	062	12.00 in^3/rev	93.54	90.99	89.14	8.38	112.22	194.25
	066	13.00 in^3/rev	101.44	98.89	97.04	8.84	121.43	210.37
	072	13.86 in^3/rev	108.00	105.45	103.60	9.22	129.09	223.77
P2	003	.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	4.84 in^3/rev	37.71	36.18	35.09	4.01	46.46	79.90
	028	5.42 in^3/rev	42.23	40.70	39.94[1)]	4.27	51.74	76.73[1)]
	031	6.10 in^3/rev	47.56	46.03	45.27[1)]	4.58	57.95	86.06[1)]

1) 028 - 031 = 3000 PSI max. int. - Not to use because internal leakage greater than 50% theoretical flow
Port connection can be furnished with metric threads.

Installation Dimensions mm (inch) — HT67EC



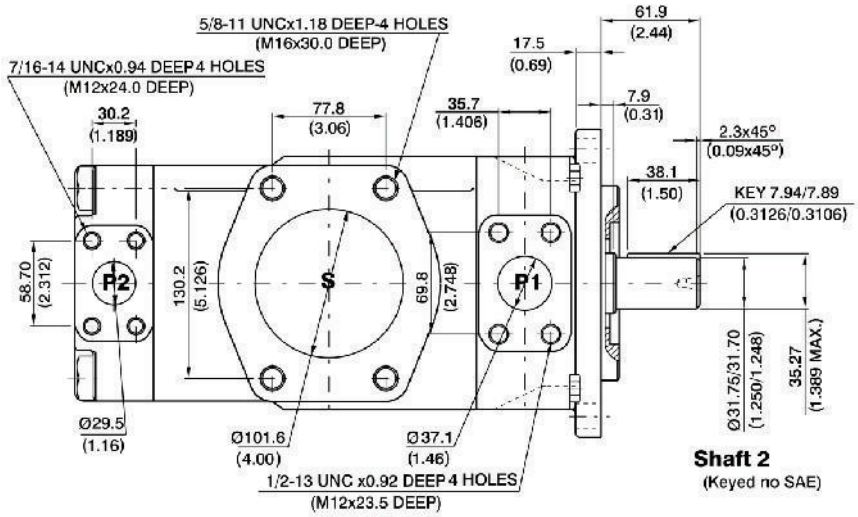
Performance Characteristics — HT67EC

OPERATING CHARACTERISTICS – TYPICAL [115 SUS]

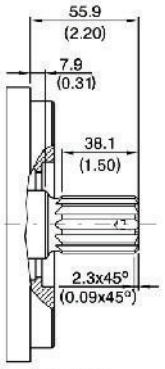
Pressure port	Series	Volumetric Displacement	Flow [GPM] & n = 1800 RPM			Input power P [HP] & n = 1800 RPM		
			p = 0 PSI	p = 2000 PSI	p = 3500 PSI	p = 100 PSI	p = 2000 PSI	p = 3500 PSI
P1	042	8.07 in³/rev	62.92	60.37	58.52	8.09	78.44	133.80
	045	8.70 in³/rev	67.72	65.17	63.32	8.37	84.04	143.60
	050	9.67 in³/rev	75.38	72.83	70.98	8.82	92.97	159.24
	052	10.00 in³/rev	78.37	75.82	73.97	8.99	96.47	165.36
	054	10.43 in³/rev	81.27	78.72	76.87	9.17	99.75	177.46
	057	11.18 in³/rev	87.12	84.57	82.72	9.51	106.57	189.84
	062	12.00 in³/rev	93.54	90.99	89.14	9.88	114.17	196.34
	066	13.00 in³/rev	101.44	98.89	97.04	10.34	123.38	212.46
	072	13.86 in³/rev	108.00	105.45	103.60	10.72	131.04	225.86
	085	16.40 in³/rev	127.79	126.13 [1]	-	11.88	101.66 [1]	-
			p = 0 PSI	p = 2000 PSI	p = 4000 PSI	p = 100 PSI	p = 2000 PSI	p = 4000 PSI
P2	003	.66 in³/rev	5.14	3.85	-	2.11	8.45	-
	005	1.05 in³/rev	8.18	6.89	5.68	2.29	12.00	19.81
	006	1.30 in³/rev	10.13	8.84	7.63	2.40	14.28	23.79
	008	1.61 in³/rev	12.55	11.26	10.05	2.54	17.11	28.75
	010	2.08 in³/rev	16.22	14.93	13.71	2.76	21.38	36.22
	012	2.26 in³/rev	17.64	16.35	15.14	2.84	23.05	39.14
	014	2.81 in³/rev	21.88	20.59	19.37	3.09	27.99	47.78
	017	3.56 in³/rev	27.73	26.44	25.22	3.43	34.81	59.73
	020	3.89 in³/rev	30.34	29.05	27.84	3.58	37.86	65.07
	022	4.29 in³/rev	33.43	32.14	30.93	3.76	41.47	71.38
	025	4.84 in³/rev	37.71	36.42	35.21	4.01	46.46	80.12
	028	5.42 in³/rev	42.23	40.94	40.32 [2]	4.27	51.74	76.73 [2]
	031	6.10 in³/rev	47.56	46.27	45.65 [2]	4.58	57.95	86.06 [2]

- We do not recommend using 003 at 4000 PSI & 1500 RPM as the internal leakage is over 50% of theoretical flow.

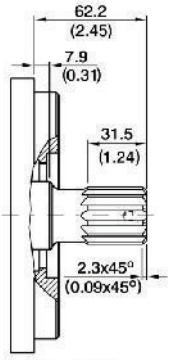
1) 085 = 1300 PSI max. int. 2) 028 – 031 = 3000 PSI max.



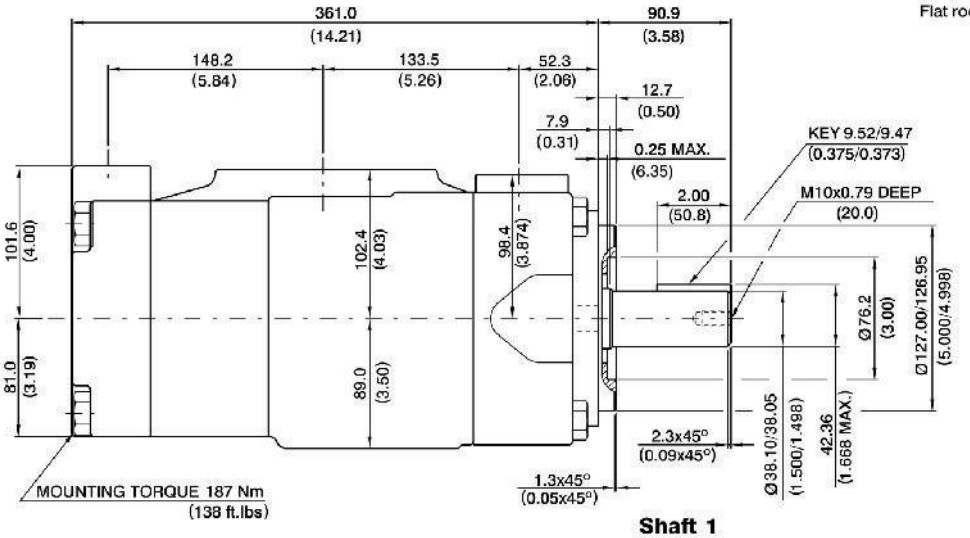
Shaft 2
(Keyed no SAE)



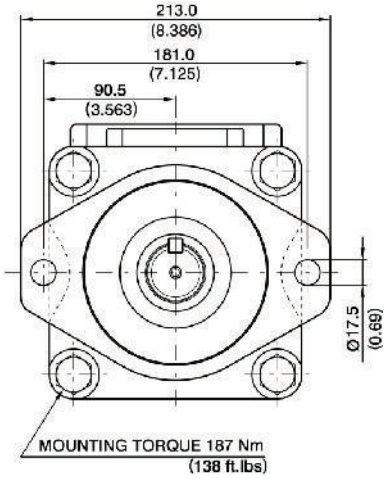
Shaft 3
SAE C splined shaft
Class 1-J498b
12/24 dp. 14 teeth
30° pressure angle
Flat root side fit

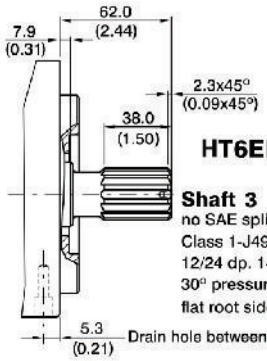


Shaft 4
SAE CC splined shaft
Class 1-J498b
12/24 dp. 17 teeth
30° pressure angle
Flat root side fit



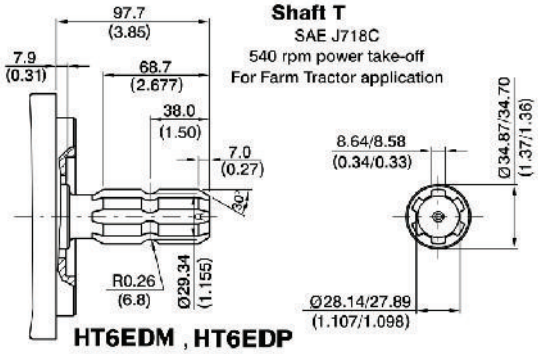
Shaft 1
(Keyed SAE CC)





HT6EDP

Shaft 3
no SAE splined shaft
Class 1-J498b
12/24 dp. 14 teeth
30° pressure angle
flat root side fit



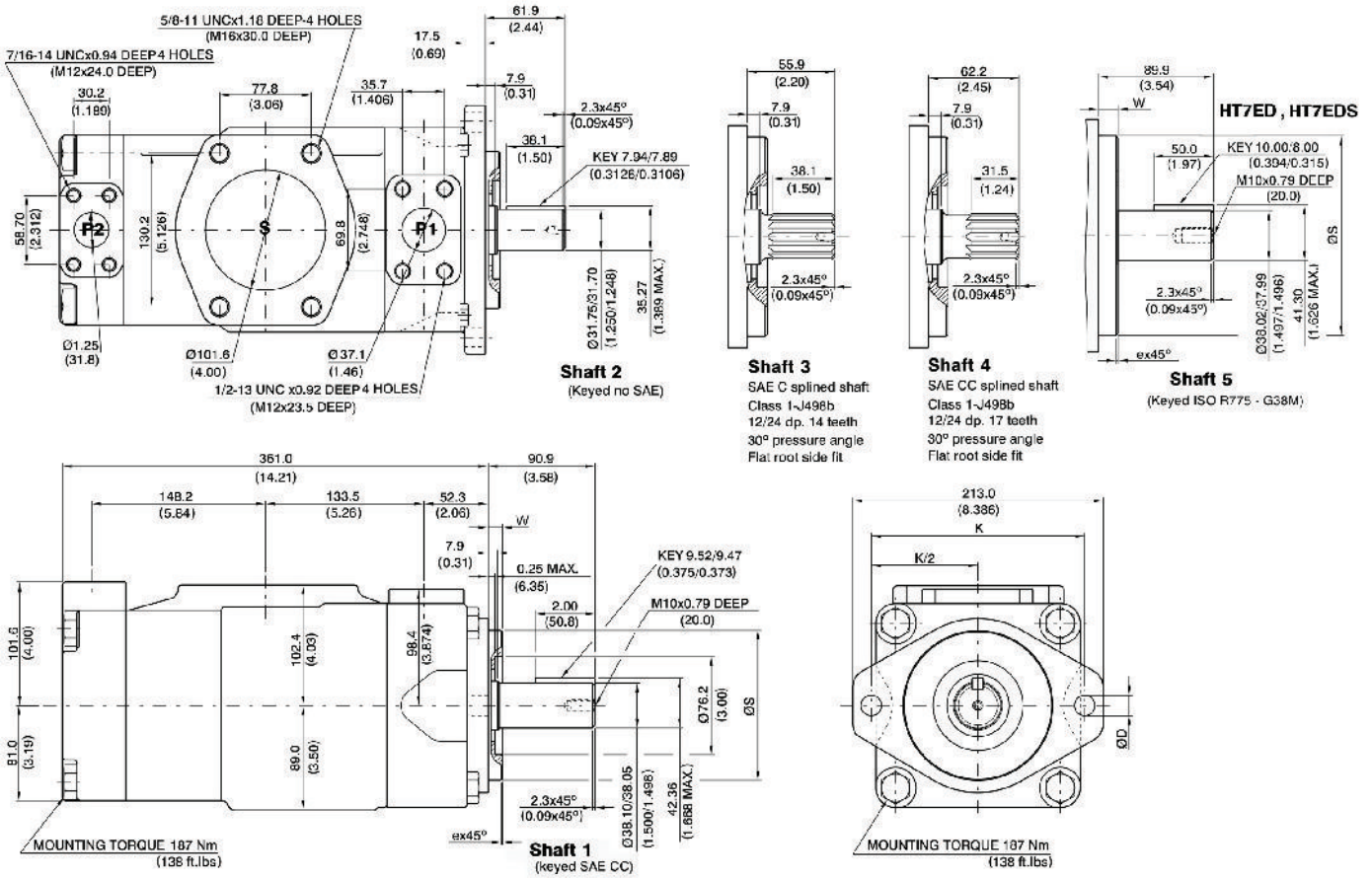
Shaft T
SAE J718C
540 rpm power take-off
For Farm Tractor application

HT6EDM , HT6EDP

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 = 100 PSI	p = 2000 PSI	p = 3500 PSI
P1	042	8.07 in^3/rev	62.92	60.37	58.52	8.09	78.44	133.80
	045	8.70 in^3/rev	67.72	65.17	63.32	6.87	82.09	141.51
	050	9.67 in^3/rev	75.38	72.83	70.98	7.32	91.02	157.15
	052	10.00 in^3/rev	78.37	75.82	73.97	7.49	94.52	163.27
	062	12.00 in^3/rev	93.54	90.99	89.14	8.38	112.22	194.25
	066	13.00 in^3/rev	101.44	98.89	97.04	8.84	121.43	210.37
	072	13.86 in^3/rev	108.00	105.45	103.60	9.22	129.09	223.77
P2	014	2.90 in^3/rev	22.64	20.46	18.82	4.02	29.31	49.34
	017	3.55 in^3/rev	27.68	25.50	23.86	4.31	35.20	59.64
	020	4.00 in^3/rev	31.39	29.21	27.57	4.53	39.52	67.21
	024	4.80 in^3/rev	37.82	35.63	33.99	4.91	47.02	80.32
	028	5.50 in^3/rev	42.66	40.48	38.84	5.19	52.68	90.23
	031	6.00 in^3/rev	46.75	44.57	42.93	5.43	57.45	98.58
	035	6.80 in^3/rev	52.79	50.61	48.97	5.78	64.50	110.91
	038	7.30 in^3/rev	57.21	55.03	53.39	6.04	69.66	119.94
	042	8.30 in^3/rev	64.68	62.50	60.86	6.47	78.37	135.19
	045	8.90 in^3/rev	69.29	67.11	65.47	6.74	83.75	144.61
	050	9.64 in^3/rev	75.14	72.96	71.78[1)]	7.08	90.58	134.54[1)]

1) 050 = 3000 PSI max. int. Port connection can be furnished with metric threads.



Alternate mounting flange						
Series	ØS		ex45°	W	K	ØD
	MAX.	Min.				
HT7ED	124.99 (4.921)	124.94 (4.919)	2.0 (0.079)	9.49 (0.374)	180.0 (7.087)	18.0 (0.709)
HT7EDS	127.00 (5.00)	126.94 (4.998)	1.3 (0.051)	12.7 (0.50)	181.0 (7.126)	17.5 (0.689)

OPERATING CHARACTERISTICS – TYPICAL [115 SUS]

Pressure port	Series	Volumetric Displacement	Flow [GPM] & n = 1800 RPM			Input power P [HP] & n = 1800 RPM		
			p = 0 PSI	p = 2000 PSI	p = 3500 PSI	p = 100 PSI	p = 2000 PSI	p = 3500 PSI
P1	042	8.07 in³/rev	62.92	60.37	58.52	8.09	78.44	133.80
	045	8.70 in³/rev	67.72	65.17	63.32	8.37	84.04	143.60
	050	9.67 in³/rev	75.38	72.83	70.98	8.82	92.97	159.24
	052	10.00 in³/rev	78.37	75.82	73.97	8.99	96.47	165.36
	054	10.43 in³/rev	81.27	78.72	76.87	9.17	99.75	177.46
	057	11.18 in³/rev	87.12	84.57	82.72	9.51	106.57	189.84
	062	12.00 in³/rev	93.54	90.99	89.14	9.88	114.17	196.34
	066	13.00 in³/rev	101.44	98.89	97.04	10.34	123.38	212.46
	072	13.86 in³/rev	108.00	105.45	103.60	10.72	131.04	225.86
	085	16.40 in³/rev	127.79	126.13 [1]	-	11.88	101.66 [1]	-
			p = 0 PSI	p = 2000 PSI	p = 3630 PSI	p = 100 PSI	p = 2000 PSI	p = 3630 PSI
P2	014	2.68 in³/rev	20.92	19.18	17.81	3.46	27.77	47.03
	017	3.36 in³/rev	26.16	24.41	23.04	3.77	33.88	57.71
	020	4.03 in³/rev	31.39	29.64	28.27	4.07	39.98	68.39
	022	4.29 in³/rev	33.43	31.69	30.32	4.19	42.37	72.57
	024	4.95 in³/rev	38.57	36.82	35.45	4.49	48.36	83.06
	028	5.49 in³/rev	42.80	41.06	39.69	4.74	53.30	91.70
	031	6.05 in³/rev	47.18	45.43	44.06	4.99	58.41	100.63
	035	6.92 in³/rev	53.93	52.18	50.81	5.39	66.29	114.42
	038	7.36 in³/rev	57.35	55.61	54.24	5.59	70.28	121.42
	042	8.39 in³/rev	65.39	63.65	62.28	6.05	79.66	137.83
	045	8.89 in³/rev	69.29	67.11	65.31	6.74	83.75	145.79
	050	9.64 in³/rev	75.14	72.96	71.78 [2]	7.08	90.58	134.50 [2]

1) 085 = 1300 PSI max. int. 2) 050 = 3000 PSI max. int..