



Vane Pumps (Mobile & Industrial)

T7A Series High Performance Small Displacement Single Vane Pumps



The T Series fixed displacement vane pump is the highest performance pump of its kind. The balanced design and double lip vane technology are key features in providing a contamination resistant and reliable pump. High pressure

capabilities, extremely low noise, precise flow repeatability, and it's ability for fast pressure cycle changes make it the perfect fluid source for industrial applications.

Pump Performance Data

Series T7AS	Displacement in ³ /rev (cc/rev)	Max. Outlet Pressure PSI (BAR)	Rated Drive Speed RPM	Flow @ 1800 RPM GPM (LPM)
B06	0.37 (6)	4000 (280)	3600	2.73 (10.3)
B10	0.61 (10)	4000 (280)	3600	4.68 (17.7)
B11	0.67 (11)	4000 (280)	3600	5.22 (19.8)
B13	0.79 (13)	4000 (280)	3600	6.08 (23.0)
B17	1.04 (17)	4000 (280)	3600	8.18 (31.0)
B20	1.22 (20)	4000 (280)	3600	9.43 (35.7)
B22	1.34 (22)	4000 (280)	3600	10.68 (40.4)
B25	1.53 (25)	3500 (240)	3000	11.84 (44.8)

Series T7ASW	Displacement in ³ /rev (cc/rev)	Max. Outlet Pressure PSI (BAR)	Rated Drive Speed RPM	Flow @ 1800 RPM GPM (LPM)
B26	1.59 (26)	4350 (300)	3600	12.39 (46.9)
B28	1.71 (28)	4350 (300)	3600	13.32 (50.4)
B30	1.83 (30)	4350 (300)	3600	14.26 (54.0)
B32	1.95 (32)	4350 (300)	3600	15.12 (57.2)
B34	2.07 (34)	4000 (280)	3000	16.13 (61.1)
B36	2.20 (36)	4000 (280)	3000	17.14 (64.9)
B40	2.44 (40)	4000 (280)	3000	19.01 (72.0)

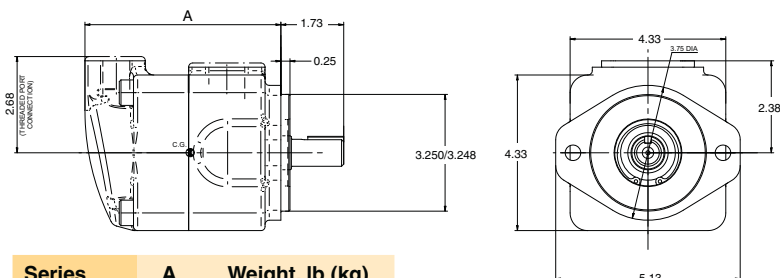
Markets

Material Handling	Lift Trucks
Recycling	Compactors

Applications

Benefits/Features

- Fully balanced pump
- 12-vane design for low pressure ripple
- Cam ring construction allows easy displacement changes
- Wide range of shafts
- SAE flanges or threaded ports
- Port orientations every 90°



Series	A	Weight, lb (kg)
T7AS	5.45	20.9 (9.5)
T7ASW	6.33	23.9 (11.3)



Vane Pumps

T7A Model Ordering Code



Code	Series Standard Mounting
7AS	SAE A 2-Bolt Flange (J744)
7ASW	SAE A 2-Bolt Flange (J744) Higher Displacement

7AS Codes	Displacement in ³ /rev (cc/rev)	7ASW Codes	Displacement in ³ /rev (cc/rev)
B06	0.35 (5.73)	B26	1.59 (26.06)
B10	0.60 (9.83)	B28	1.71 (28.02)
B11	0.67 (10.98)	B30	1.83 (29.99)
B13	0.78 (12.78)	B32	1.94 (31.79)
B17	1.05 (17.21)	B34	2.07 (33.92)
B20	1.21 (19.83)	B36	2.20 (36.05)
B22	1.37 (22.45)	B40	2.44 (39.98)
B25	1.52 (24.91)		

Code	Shaft Type	
	7AS	7ASW
1	Keyed (non SAE) 0.75 Dia.	Keyed (non SAE) 0.75 Dia.
3	Splined 16/32 (SAE B) 13 Teeth	Splined 16/32 (SAE B) 13 Teeth
4	Splined 16/32 (non SAE) 9 Teeth	Splined 16/32 (non SAE) 11 Teeth

Code	Rotation*
R	CW
L	CCW

*As viewed from shaft end.

Code	Porting Combinations*
00	
01	
02	
03	

* P = Pressure Port; S = Suction Port

Code	Seal Class
1	S1 (Buna N)
5	S5 (fluorocarbon)*

*Not available for 7ASW

Code	Mounting w/Connection Variables					
	7AS			7ASW		
	Type	Suction Port (S)	Pressure Port (P)	Type	Suction Port (S)	Pressure Port (P)
00	4-Bolt SAE Flange (J518) UNC Thread	1" SAE	3/4" SAE	4-Bolt SAE Flange (J518) UNC Thread	1 1/4" SAE	3/4" SAE
02	SAE Thread	1 5/16" (SAE16)	1 1/16" (SAE 12)	SAE Thread	1 5/8" (SAE20)	1 1/16" (SAE 12)
03	NPTF Thread	1 1/4" NPTF	3/4" NPTF	SAE & NPTF Threads	1 1/4" NPTF	1 1/16" (SAE 12)

Vane Pumps (Mobile & Industrial)



T6 Series Single, Double & Triple High Performance Vane Pumps



The T Series fixed displacement vane pump is the highest performance pump of its kind. The balanced design and double lip vane technology are key features in providing a contamination resistant and reliable pump. High pressure and speed capabilities,

extremely low noise, and a cartridge designed to prime in cold weather conditions, make this fluid power source ideal for mobile applications.

Pump Performance Data

Single Pump Model Series	Displacement in ³ /rev (cc/rev)*	Max. Outlet Pressure** PSI (BAR)	Rated Drive Speed** RPM	Flow @1800 RPM and 0 PSI* GPM (LPM)	Input Horsepower @ 1800 RPM and 2000 PSI* HP (KW)
T6CM	0.66 - 6.10 (10.8 - 100)	4000 (280)	2800	5.14 - 47.56 (19.3 - 180.0)	8.45 - 57.95 (6.3 - 43.2)
T6DM	2.90 - 9.64 (47.5 - 158)	3500 (240)	2500	22.64 - 75.14 (85.7 - 284.4)	29.31 - 90.58 (21.9 - 67.5)
T6EM	8.07 - 13.85 (132.3 - 227)	3500 (240)	2200	62.92 - 108.00 (238.2 - 408.8)	78.44 - 129.09 (58.5 - 96.3)

* Available range based on various combinations of displacements

**Lower for larger displacements. See catalog.

Markets

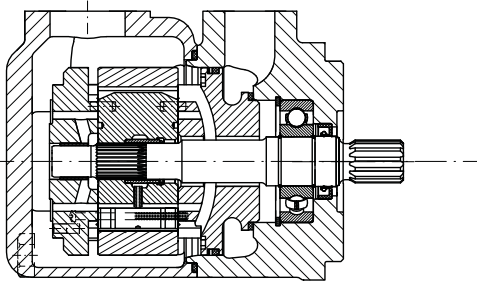
Applications

Industrial	Injection Molding
Construction	Wheel Loader, ADTs, Fan Drives
Recycling	Shredders, Balers, Compactors, Vacuum Truck Systems, Refuse Trucks - ASL, Rear Loaders



Vane Pumps (Mobile & Industrial)

T6 Series Single, Double & Triple High Performance Vane Pumps



Benefits/Features

- Mobile cartridge designed for cold start-ups
- Wide range of displacements
- Low noise provides machine operator safety
- Speed range from 400 to 2800 rpm
- Large flow within a small envelope
- Double shaft seal option allows direct mounting to gearboxes

Pump Performance Data

T6CM/CP	Output Flow (lpm) @ 1800 RPM			Output Flow (GPM) @ 1800 RPM			Input Power (kW)			Input Power (HP)		
	Size**	0 BAR	140 BAR	280 BAR	0 PSI	2000 PSI	3500 PSI	7 BAR	140 BAR	280 BAR	100 PSI	2000 PSI
B03	19.3	13.6	–	5.1	3.6	–	1.6	6.3	–	2.1	8.5	–
B05	31.0	25.0	21.2	8.2	6.6	5.6	1.7	8.9	14.6	2.3	12.0	19.6
B06	38.2	32.6	28.4	10.1	8.6	7.5	1.8	10.7	17.6	2.4	14.3	23.6
B08	47.3	41.6	37.5	12.5	11.0	9.9	1.9	12.8	21.3	2.5	17.1	28.5
B10	61.3	55.6	51.5	16.2	14.7	13.6	2.1	16.0	26.8	2.8	21.4	36.0
B12	66.6	60.9	56.8	17.6	16.1	15.0	2.1	17.2	29.0	2.8	23.1	38.9
B14	82.9	76.8	73.1	21.9	20.3	19.3	2.3	20.9	35.5	3.1	28.0	47.6
B17	104.8	99.2	95.0	27.7	26.2	25.1	2.5	26.0	44.4	3.4	34.8	59.5
B20	114.7	109.0	103.7	30.3	28.8	27.4	2.7	28.3	48.4	3.6	37.9	64.9
B22	126.4	120.7	116.6	33.4	31.9	30.8	2.8	30.9	53.1	3.8	41.5	71.2
B25	142.7	137.0	132.9	37.7	36.2	35.1	3.0	34.7	59.6	4.0	46.5	79.9
B28	159.8	154.1	151.0	42.23	40.7	39.9	3.2	38.6	57.2	4.3	51.7	76.7
B31	180.0	174.1	171.5	47.56	46.0	45.3	3.4	43.3	64.2	4.6	58.0	86.1

** T6CP not available in sizes B03 through B12

T6DM	Output Flow (lpm) @ 1800 RPM			Output Flow (GPM) @ 1800 RPM			Input Power (kW)			Input Power (HP)		
	Size	0 BAR	140 BAR	300 BAR	0 PSI	2000 PSI	3500 PSI	7 BAR	140 BAR	300 BAR	100 PSI	2000 PSI
B14	85.5	77.2	71.2	22.6	20.4	18.8	3.0	21.9	36.8	4.0	29.3	49.3
B17	104.8	96.5	90.5	27.7	25.5	23.9	3.2	26.2	44.4	4.3	35.2	59.6
B20	118.9	110.5	104.5	31.4	29.2	27.6	3.4	29.5	50.1	4.5	39.5	67.2
B24	143.1	134.7	128.7	37.8	35.6	34.0	3.7	35.0	59.9	4.9	47.0	80.3
B28	161.6	153.3	146.9	42.7	40.5	38.8	3.9	39.3	67.3	5.2	52.7	90.2
B31	176.8	168.8	162.4	46.7	44.6	42.9	4.0	42.8	73.5	5.4	57.4	98.6
B35	199.8	191.5	185.5	52.8	50.6	49.0	4.3	48.1	82.7	5.8	64.5	110.9
B38	216.5	208.2	202.1	57.2	55.0	53.4	4.5	52.0	89.4	6.0	69.7	119.9
B42	244.9	236.6	230.5	64.7	62.5	60.9	4.8	58.5	100.8	6.5	78.4	135.2
B45	262.3	254.0	247.9	69.3	67.1	65.5	5.0	62.4	107.8	6.7	83.7	144.6
B50	284.3	276.3	271.8	75.1	73.0	71.8	5.3	67.6	100.3	7.1	90.6	134.5

Note: See catalog on CD for additional cartridge options and specific displacement operating parameters.

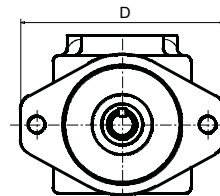
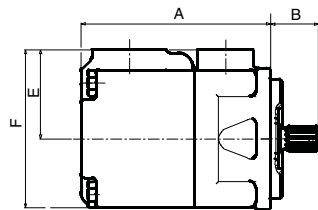
T6 Series Single, Double & Triple High Performance Vane Pumps

Pump Performance Data

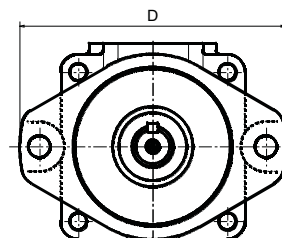
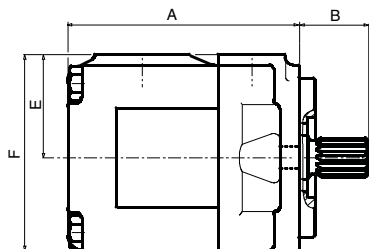
T6EM	Output Flow (lpm) @ 1800 RPM			Output Flow (GPM) @ 1800 RPM			Input Power (kW)			Input Power (HP)		
	0 BAR	140 BAR	240 BAR	0 PSI	2000 PSI	3500 PSI	7 BAR	140 BAR	300 BAR	100 PSI	2000 PSI	3500 PSI
042	238.1	228.6	221.4	62.9	60.4	58.5	6.0	58.5	84.9	8.1	78.4	113.8
045	256.2	246.8	239.6	67.7	65.2	63.3	5.1	61.2	105.5	6.9	82.1	141.5
050	285.4	275.5	268.7	75.4	72.8	71.0	5.4	67.9	117.2	7.3	91.0	157.2
052	296.7	286.9	280.1	78.4	75.8	74.0	5.6	70.5	121.8	7.5	94.5	163.3
062	353.9	344.4	337.2	93.5	91.0	89.1	6.3	83.7	144.9	8.4	112.2	194.3
066	383.8	374.3	367.1	101.4	98.9	97.0	6.6	90.5	156.9	8.8	121.4	210.4
072	408.8	399.3	392.1	108.0	105.5	103.6	6.9	96.3	166.9	9.2	129.1	223.8

Note: See catalog on CD for additional cartridge options and specific displacement operating parameters.

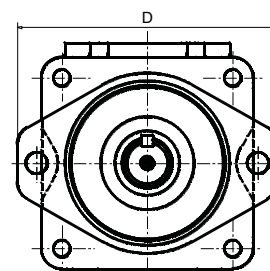
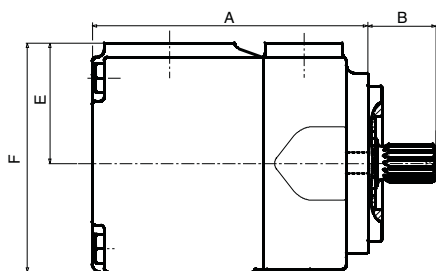
T6CM



T6DM



T6EM



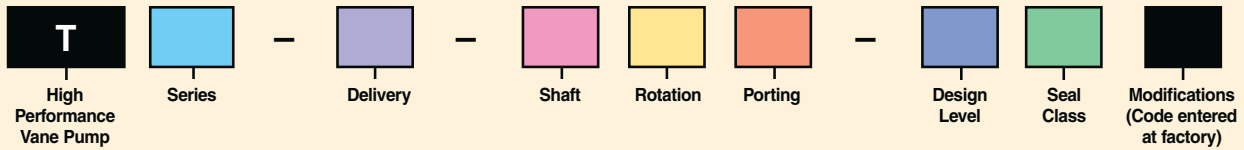
Dimensions, inch (mm)

Series	A	B	D	E	F	Weight, lb (kg)
T6CM	6.36 (161.5)	2.81 (71.4)	6.87 (174.5)	3.00 (76.2)	5.31 (134.9)	34.0 (15.5)
T6DM	7.28 (184.9)	3.29 (83.6)	8.36 (212.3)	3.25 (82.6)	6.17 (156.7)	53.0 (24.0)
T6EM	8.87 (225.3)	3.58 (90.9)	8.39 (213.1)	3.88 (98.6)	7.38 (187.5)	95.4 (43.4)



Vane Pumps

T6 Model Ordering Code



Code	Series Description
6CM	Size C, Mobile 1 Shaft Seal
6CP	Size C, Mobile 2 Shaft Seals
6DM	Size D, Mobile 1 Shaft Seal
6DP	Size D, Mobile 2 Shaft Seals
6EM	Size E, Mobile 1 Shaft Seal
6EP	Size E, Mobile 2 Shaft Seals

Delivery					
6C Codes	Delivery** GPM (LPM)	6D Codes	Delivery** GPM (LPM)	6E Codes	Delivery** GPM (LPM)
B03*	3.42 (12.9)	B14	15.09 (57.1)	042	41.94 (158.8)
B05*	5.45 (20.6)	B17	18.45 (69.8)	045	46.15 (174.7)
B06*	6.76 (25.6)	B20	20.93 (79.2)	050	50.25 (190.2)
B08*	8.36 (31.6)	B24	25.20 (95.4)	052	52.25 (197.8)
B10*	10.81 (40.9)	B28	28.44 (107.7)	062	62.36 (236.1)
B12*	11.76 (44.5)	B31	31.16 (118.0)	066	67.62 (256.0)
B14	14.58 (55.2)	B35	35.19 (133.2)	072	72.00 (272.5)
B17	18.48 (70.0)	B38	38.14 (144.4)		
B20	20.23 (76.6)	B42	43.12 (163.2)		
B22	22.28 (84.3)	B45	46.19 (174.9)		
B25	25.14 (95.2)	B50	50.09 (189.6)		
B28	27.90 (105.6)				
B31	31.70 (120.0)				

* Not available on T6CP
 ** At 0 PSI (0 BAR) and 1200 RPM

Code	Shaft Type			
	6CM	6CP	6DM, 6DP	6EM, 6EP
1	Keyed SAE B		Keyed SAE C	Keyed SAE CC
2	Keyed (non SAE)	Keyed (non SAE)	Keyed (non SAE)	Keyed (non SAE)
3	Splined SAE B	Splined SAE C	Splined***	Splined***
4	Splined SAE BB		Splined (non SAE)	Splined SAE CC
T			Splined SAE J718c	Splined SAE J718c

* SAE C for 6*M, non SAE for 6*P

Code	Rotation*
R	CW
L	CCW

* As viewed from shaft end.

Code	Porting Combinations*
00	
01	
02	
03	

* P = Pressure Port; S = Suction Port

Code	Design Level
A	T6CP only
B	T6EM, T6EP
C	All Others

Code	Seal Class
1	S1 (Buna N)
4	S4 (EPDM)
5	S5 (fluorocarbon)

Pumps are also available in thru-drive version. See Catalog on CD.

☐ = Not Available

Vane Pumps (Mobile & Industrial)



T7 Series Single, Double & Triple High Performance Vane Pumps



The high performance T Series fixed displacement vane pumps have been specially designed to provide high flows within a small envelope. The balanced design and double lip vane technology are key features in providing

a contamination resistant and reliable pump. High pressure and speed capabilities, extremely low noise, and a cartridge designed to prime in cold weather conditions, make this fluid power source ideal for Mobile applications.

Pump Performance Data

Double Pump Model Series	Displacement in ³ /rev (cc/rev)*	Max. Outlet Pressure** PSI (BAR)	Rated Drive Speed RPM	Flow @1800 RPM and 0 PSI* GPM (LPM)	Input Horsepower @ 1800 RPM and 2000 PSI* HP (KW)
T6CCM	1.32 - 12.20 (21.6 - 200)	4000 (280)	2800	10.3 - 95.1 (39.0 - 360.0)	16.9 - 115.9 (12.6 - 86.4)
T6DCM	3.56 - 15.74 (58.3 - 258)	4000 (280)	2500	27.8 - 122.7 (105.2 - 464.5)	37.8 - 148.5 (28.2 - 110.7)
T6ECM	8.73 - 19.95 (143.1 - 327)	4000 (280)	2200	68.1 - 155.6 (257.8 - 589.0)	86.9 - 187.0 (64.8 - 139.4)
T6EDM	10.97 - 23.49 (179.7 - 385)	3500 (240)	2200	85.5 - 183.1 (197.6 - 693.1)	107.7 - 219.7 (80.3 - 163.8)

* Available range based on various combinations of displacements

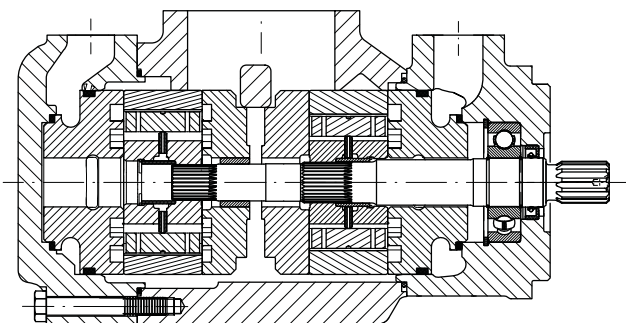
**Lower for larger displacements. See catalog.

Markets

Industrial	Injection Molding
Construction	Wheel Loader, Fan Drives
Recycling	Shredders, Balers, Compactors, Vacuum Truck Systems, Refuse Trucks - ASL, Rear Loaders

Applications

T Series Double



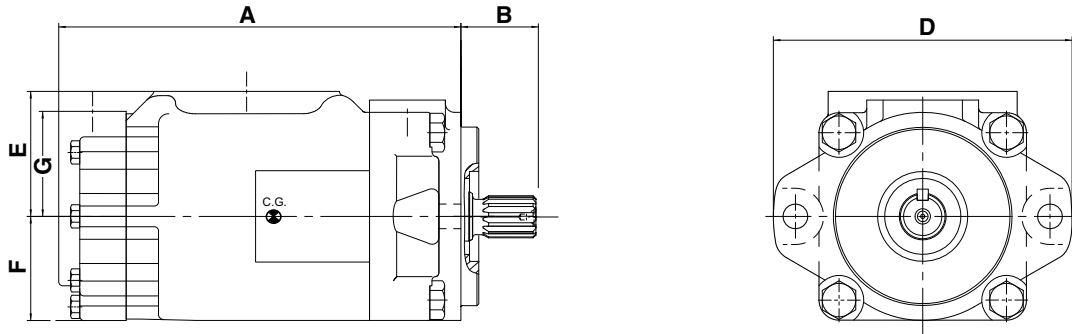
Benefits/Features

- Low noise
- SAE or ISO standards
- One-piece shaft (no internal torque limitations)
- One inlet
- 32 porting orientations available
- Wide displacement possibility
- High power to weight ratio
- Wide range of options for shafts, threads and pilots
- Mobile cartridge design for cold start conditions



Vane Pumps (Mobile & Industrial)

T7 Series Single, Double & Triple High Performance Vane Pumps

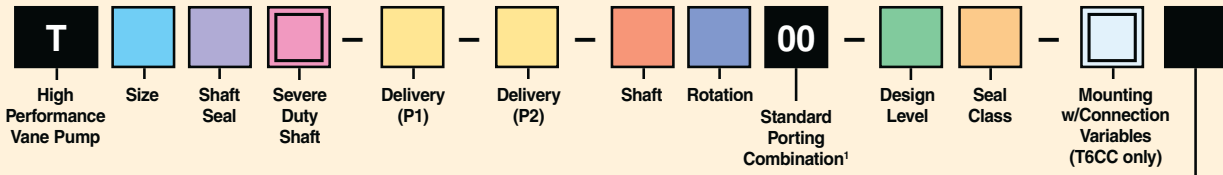


Dimensions, inch (mm)

Series	A	B max	D	E	F	Weight, kg (lb)
T6CCM	10.46 (265.7)	2.81(71.4)	6.87 (174.5)	3.31 (84.1)	2.88 (73.2)	57.3 (26.0)
T6DCM	11.26 (286.0)	3.29 (83.6)	8.36 (212.3)	3.50 (88.9)	2.92 (74.2)	80.7 (36.7)
T6ECM	13.06 (331.7)	3.58 (90.9)	8.39 (213.1)	4.03 (102.4)	3.50 (88.9)	121.0 (55.0)
T6EDM	14.22 (361.2)	3.58 (90.9)	8.39 (213.1)	4.03 (102.4)	3.50 (88.9)	145.5 (66.1)

Vane Pumps

T7 Model Ordering Code



Size Code	
6CC	
6DC	
6EC	
6ED	

Code	Shaft Seal
M	Mobile 1 Seal
P	Mobile 2 Seals

Code	Severe Duty
Omit	Standard
W*	Severe Duty

*Available on T6CCM and T6DCM only.

Size	Delivery (See Table Below)	
	P1	P2
6CC	Use Codes for 6C	Use Codes for 6C
6DC	Use Codes for 6D	Use Codes for 6C
6EC	Use Codes for 6E	Use Codes for 6C
6ED	Use Codes for 6E	Use Codes for 6D

Code	Shaft (See catalog on CD for severe duty options)				
	6CCM	6CCP	6DCM	6DCP 6ECP, 6EDP	6ECM 6EDM
1	Keyed (non SAE)		Keyed SAE C		Keyed SAE CC
2			Keyed (non SAE)		Keyed (non SAE)
3	Splined SAE BB	Splined (non SAE)	Splined SAE C	Splined (non SAE)	Splined SAE C
4		Splined SAE BB	Splined (non SAE)		Splined SAE CC
5	Splined SAE B				
6		Splined (non SAE)			
T					Splined SAE J718c

Modifications (Code entered at factory)

Code	Rotation*
R	CW
L	CCW

*As viewed from shaft end.

Code	Design Level
D	T6CC only
C	All Others

Code	Seal Class
1	S1 (Buna N)
4	S4 (EPDM)
5	S5 (fluorocarbon)

Code	Connection Variables		
	T6CC		
	P1	P2	S
00	1"	1"	3"
01	1"	3/4"	3"
10	1"	1"	2 1/2"
11	1"	3/4"	2 1/2"

P = Pressure Port; S = Suction Port

Delivery

6C Codes	Delivery* GPM (LPM)	6D Codes	Delivery* GPM (LPM)	6E Codes	Delivery* GPM (LPM)
B03	3.42 (12.9)	B14	15.09 (57.1)	042	41.94 (158.8)
B05	5.45 (20.6)	B17	18.45 (69.8)	045	46.15 (174.7)
B06	6.76 (25.6)	B20	20.93 (79.2)	050	50.25 (190.2)
B08	8.36 (31.6)	B24	25.20 (95.4)	052	52.25 (197.8)
B10	10.81 (40.9)	B28	28.44 (107.7)	062	62.36 (236.1)
B12	11.76 (44.5)	B31	31.16 (118.0)	066	67.62 (256.0)
B14	14.58 (55.2)	B35	35.19 (133.2)	072	72.00 (272.5)
B17	18.48 (70.0)	B38	38.14 (144.4)		
B20	20.23 (76.6)	B42	43.12 (163.2)		
B22	22.28 (84.3)	B45	46.19 (174.9)		
B25	25.14 (95.2)	B50	50.09 (189.6)		
B28	27.90 (105.6)				
B31	31.70 (120.0)				

* At 0 PSI (0 BAR) and 1200 RPM

*Many other combinations are available See catalog on CD.

□ = Not Available

□ = Omit if not required or to select standard option coded "omit".



Vane Pumps (Mobile & Industrial)

T67 Series High Performance Vane Pumps



The high performance T Series fixed displacement vane pumps have been specially designed to provide high flows within a small envelope. The balanced design and double lip vane technology are key features in providing a contamination resistant and reliable pump. High pressure and

speed capabilities, extremely low noise, and a cartridge designed to prime in cold weather conditions, make this fluid power source ideal for mobile applications.

Pump Performance Data

Triple Pump Model Series	Displacement in ³ /rev (cc/rev)*	Max. Outlet Pressure** PSI (BAR)	Rated Drive Speed RPM	Flow @1800 RPM and 0 PSI* GPM (LPM)	Input Horsepower @ 1800 RPM and 2000 PSI* HP (KW)
T6DCCM	4.22 - 21.85 (69.1 - 358)	4000 (280)	2500	32.9 - 170.3 (124.5 - 644.7)	46.2 - 206.5 (34.5 - 154.0)
T6EDCM/S	11.63 - 29.60 (190.5 - 485)	4000 (280)	2200	90.7 - 230.7 (343.3 - 873.3)	116.2 - 277.6 (86.7 - 207.0)

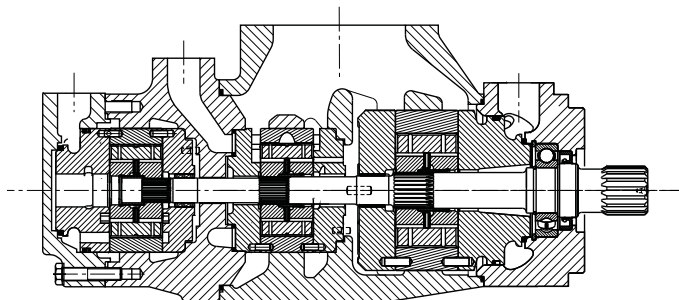
* Available range based on various combinations of displacements.

** Lower for larger displacements. See catalog.

Markets

Industrial	Injection Molding
Construction	Wheel Loader, Fan Drives
Recycling	Shredders, Balers, Compactors, Vacuum Truck Systems, Refuse Trucks - ASL, Rear Loaders

Applications



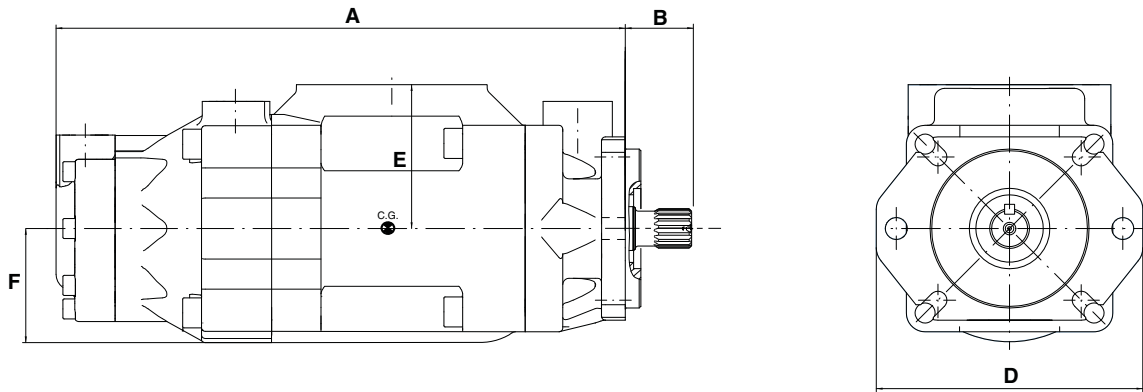
Benefits/Features

- Low noise
- SAE or ISO standards
- One-piece shaft (no internal torque limitations)
- One inlet
- 128 porting orientations available
- Many displacement combinations per stage
- High power to weight ratio
- Wide range of options for shafts, threads and pilots
- Mobile cartridge design for cold start conditions

Vane Pumps (Mobile & Industrial)



T67 Series High Performance Vane Pumps



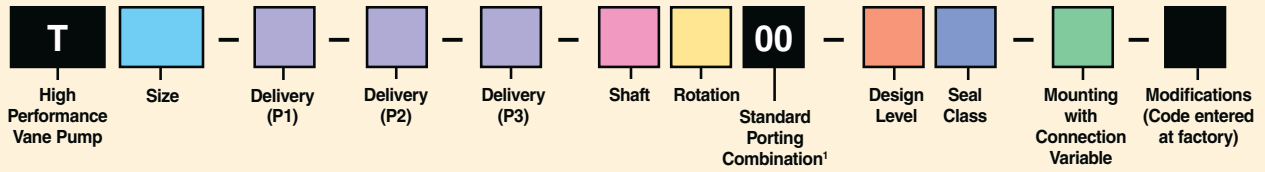
Dimensions, inch (mm)

Series	A	B max.	D	E	F	Weight, lb (kg)
T6DCC	15.90 (403.9)	3.53 (89.7)	8.36 (212.3)	5.00 (127.0)	3.35 (85.1)	134.5 (61.1)
T6EDC	18.42 (467.9)	3.94 (100.1)	10.75 (273.1)	—	—	220.4 (100.2)



Vane Pumps

T67 Model Ordering Code



Size Code
6DCCM
6EDCS
6EDCM

Note: T6EDCS (SAE pilot)
T6EDCM (ISO pilot)

Size	Delivery (See Table Below)		
	P1	P2	P3
6DCCM	Use Codes for 6D	Use Codes for 6C	Use Codes for 6C
6EDCS 6EDCM	Use Codes for 6E	Use Codes for 6D	Use Codes for 6C

Code	Shaft		
	6DCCM	6EDCM	6EDCS
1	Keyed (non SAE)	Keyed ISO G45N - 3019-2	
2	Keyed SAE CC		Keyed SAE D&E
3	Splined SAE C	Splined SAE D&E	Splined SAE D&E
4	Splined SAE CC		
6	Splined (non SAE)		

Code	Rotation*
R	CW
L	CCW

*As viewed from shaft end.

Code	Design Level
A	6EDC
B	6DCC

Code	Seal Class
1	S1 (Buna N)
4	S4 (EPDM)
5	S5 (fluorocarbon)

Code	Connection Variables
Code	6DCCM
M0	P3 = 1" Metric
M1	P3 = 3/4" Metric
00	P3 = 1" UNC
01	P3 = 3/4" UNC
Code	6EDC/S/M
F0*	P3 = 1" SAE
F1*	P3 = 3/4" SAE
P0**	P3 = 1" SAE
P1**	P3 = 3/4" SAE

*"F" is standard

**"P" 4 holes for external support

Delivery

6C Codes	Delivery* GPM (LPM)	6D Codes	Delivery* GPM (LPM)	6E Codes	Delivery* GPM (LPM)
B03	3.42 (12.9)	B14	15.09 (57.1)	042	41.94 (158.8)
B05	5.45 (20.6)	B17	18.45 (69.8)	045	46.15 (174.7)
B06	6.76 (25.6)	B20	20.93 (79.2)	050	50.25 (190.2)
B08	8.36 (31.6)	B24	25.20 (95.4)	052	52.25 (197.8)
B10	10.81 (40.9)	B28	28.44 (107.7)	062	62.36 (236.1)
B12	11.76 (44.5)	B31	31.16 (118.0)	066	67.62 (256.0)
B14	14.58 (55.2)	B35	35.19 (133.2)	072	72.00 (272.5)
B17	18.48 (70.0)	B38	38.14 (144.4)		
B20	20.23 (76.6)	B42	43.12 (163.2)		
B22	22.28 (84.3)	B45	46.19 (174.9)		
B25	25.14 (95.2)	B50	50.09 (189.6)		
B28	27.90 (105.6)				
B31	31.70 (120.0)				

* At 0 PSI (0 BAR) and 1200 RPM

*Many other combinations are available See catalog on CD.

☐ = Not Available

Vane Pumps (Mobile & Industrial)



T6H/T7H Hybrid Technology Variable Piston Fixed Vane Pumps



The hybrid pump is a combination of fixed displacement vane pump B, C, D cartridges combined with a variable cartridge of PV20 or PV29 piston pump. The cartridges are driven by a common shaft without

coupling in between they have a large common suction port and two or three independent outlet ports: one for the piston, one or two for the vane pump.

Pump Performance Data

Single Pump Model Series***	Displacement in ³ /rev (cc/rev)*	Max. Outlet Pressure** PSI (BAR)	Rated Drive Speed** RPM	Flow @1800 RPM and 0 PSI* GPM (LPM)	Input Horsepower @ 1800 RPM and 2000 PSI* HP (KW)
T6H20B	0.35 - 5.67 (5.7 - 92.9)	3500 (240)	2600	23.76 - 44.78 (89.9 - 169.5)	31.5 - 56.1 (23.5 - 41.8)
T6H20C	0.66 - 8.72 (10.8 - 142.9)	3500 (240)	2600	26.14 - 68.56 (99.0 - 259.5)	36 - 85.5 (26.8 - 63.8)
T6H29B	0.35 - 6.83 (5.7 - 111.9)	3000 (210)	2400	31.76 - 52.78 (120.2 - 199.8)	41 - 65.5 (30.6 - 48.8)
T6H29C	0.66 - 9.88 (10.8 - 161.9)	3000 (210)	2400	34.14 - 76.56 (129.2 - 289.8)	45.5 - 95 (33.9 - 70.8)
T6H29D	2.90 - 13.42 (47.5 - 219.9)	3000 (210)	2400	51.64 - 104.14 (195.5 - 394.2)	66.3 - 127.6 (49.4 - 95.2)
T6H29DB	32.46 - 16.47 (53.2 - 269.9)	3000 (210)	2400	56.78 - 151.7 (214.9 - 574.2)	70.3 - 156.1 (52.4 - 116.4)

* Piston pump at full displacement.
 ** Lower for larger displacements; see catalog.
 *** See catalog on CD for complete information.

Pump Performance Data

Tables show data by cam ring size for van portion only (does not include piston portion).

T6H**B	Output Flow (lpm) @ 1800 RPM			Output Flow (GPM) @ 1800 RPM			Input Power (kW) @ 1800 RPM			Input Power (HP) @ 1800 RPM		
	0 BAR	140 BAR	320 BAR	0 PSI	2000 PSI	4350 PSI	7 BAR	140 BAR	320 BAR	100 PSI	2000 PSI	4350 PSI
B02	10.4	8.8	6.8	2.76	2.33	1.8	0.6	3.0	6.0	0.74	4.02	8.1
B03	17.6	16.0	14.0	4.66	4.23	3.7	0.6	4.7	9.6	0.85	6.24	12.93
B04	23.1	21.4	19.4	6.09	5.66	5.13	0.7	5.9	12.3	0.94	7.9	16.55
B05	28.6	27.0	25.0	7.56	7.13	6.6	0.8	7.2	15.1	1.02	9.62	20.29
B06	35.7	34.0	32.0	9.42	8.99	8.46	0.8	8.8	18.6	1.13	11.79	25
B07	40.5	38.9	36.9	10.7	10.27	9.74	0.9	9.9	21.1	1.2	13.29	28.26
B08	44.8	43.2	41.2	11.84	11.41	10.88	0.9	10.9	23.2	1.27	14.62	31.15
B10	57.2	55.6	53.6	15.12	14.69	14.16	1.1	13.8	29.4	1.46	18.45	39.48
B12	73.8	72.2	70.2	19.5	19.07	18.54	1.3	17.6	37.7	1.72	23.55	50.58
B15	90.0	88.4	86.6	23.78	23.35	22.88	1.5	21.3	42.8	1.97	28.55	57.35

*At 280 BAR (4060 PSI)

Markets

Industrial

Applications

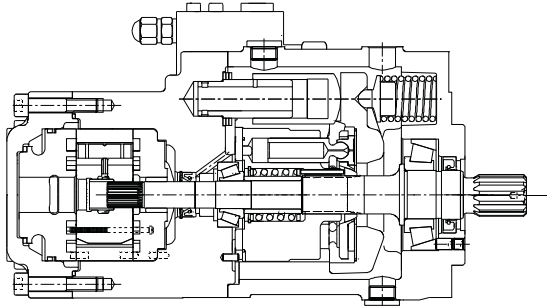
Injection Molding



Vane Pumps (Mobile & Industrial)

T6H/T7H Hybrid Technology Variable Piston Fixed Vane Pumps

Pump Performance Data



Benefits/Features

- Very compact
- High pressure ratings
- Low noise
- Independent outlets for fixed and variable flow allow simultaneous cycles
- Internal or external drain
- Choice of controls
- Wide range of acceptable fluids

Tables show data by cam ring size for vane portion only (does not include piston portion).

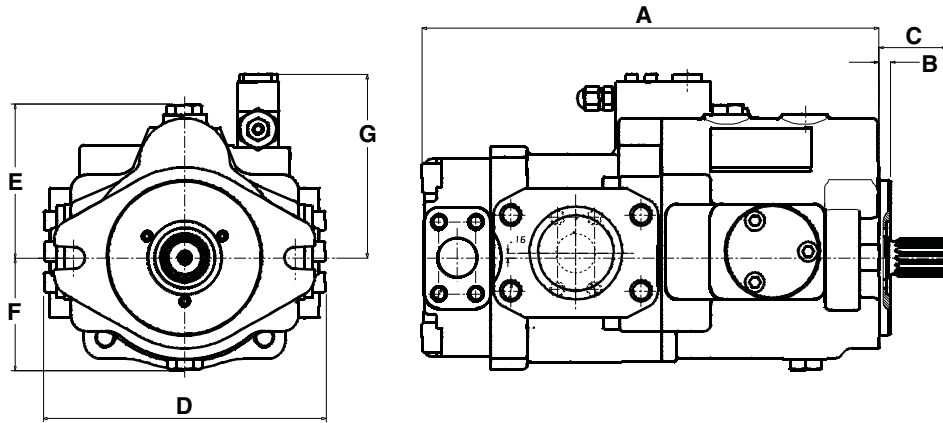
T6H**C	Output Flow (lpm) @ 1800 RPM			Output Flow (GPM) @ 1800 RPM			Input Power (kW) @ 1800 RPM			Input Power (HP) @ 1800 RPM		
	Size	0 BAR	140 BAR	320 BAR	0 PSI	2000 PSI	3500 PSI	7 BAR	140 BAR	320 BAR	100 PSI	2000 PSI
*03	19.5	13.7	—	5.14	3.61	—	1.6	6.3	10.0	2.11	8.45	13.38
*05	31.0	25.2	21.0	8.18	6.65	5.56	1.7	8.9	14.6	2.29	12	19.59
*06	38.3	32.6	28.4	10.13	8.6	7.51	1.8	10.6	17.6	2.4	14.28	23.57
*08	47.5	41.7	37.6	12.55	11.02	9.93	1.9	12.8	21.3	2.54	17.11	28.53
*10	61.4	55.6	51.5	16.22	14.69	13.6	2.1	15.9	26.8	2.76	21.38	36
*12	66.8	61.0	56.9	17.64	16.11	15.02	2.1	17.2	29.0	2.84	23.05	38.92
*14	82.8	77.0	72.9	21.88	20.35	19.26	2.3	20.9	35.5	3.09	27.99	47.56
*17	105.0	99.2	95.0	27.73	26.2	25.11	2.6	26.0	44.4	3.43	34.81	59.51
*20	114.8	109.0	103.8	30.34	28.81	27.42	2.7	28.2	48.4	3.58	37.86	64.85
*22	126.5	120.7	116.6	33.43	31.9	30.81	2.8	30.9	53.1	3.76	41.47	71.16
*25	142.7	136.9	132.8	37.71	36.18	35.09	3.0	34.6	59.6	4.01	46.46	79.9
*28	159.8	154.1	151.2	42.23	40.7	39.94	3.2	38.6	57.2	4.27	51.74	76.73
*31	180.0	174.2	171.3	47.56	46.03	45.27	3.4	43.2	64.2	4.58	57.95	86.06

*At 210 BAR (3000 PSI)

T6H29D	Output Flow (lpm) @ 1800 RPM			Output Flow (GPM) @ 1800 RPM			Input Power (kW) @ 1800 RPM			Input Power (HP) @ 1800 RPM		
	Size	0 BAR	140 BAR	320 BAR	0 PSI	2000 PSI	3500 PSI	7 BAR	140 BAR	320 BAR	100 PSI	2000 PSI
014	85.7	77.4	71.2	22.64	20.46	18.82	3.0	21.9	36.8	4.02	29.31	49.34
017	104.8	96.5	90.3	27.68	25.50	23.86	3.2	26.2	44.5	4.31	35.20	59.64
020	118.8	110.6	104.4	31.39	29.21	27.57	3.4	29.5	50.1	4.53	39.52	67.21
024	143.1	134.9	128.7	37.81	35.63	33.99	3.7	35.1	59.9	4.91	47.02	80.32
028	161.5	153.2	147.0	42.66	40.48	38.84	3.9	39.3	67.3	5.19	52.68	90.23
031	176.9	168.7	162.5	46.75	44.57	42.93	4.1	42.8	73.5	5.43	57.45	98.58
035	199.8	191.6	185.4	52.79	50.61	48.97	4.3	48.1	82.7	5.78	64.50	110.91
038	216.5	208.3	202.1	57.21	55.03	53.39	4.5	51.9	89.4	6.04	69.66	119.94
042	244.8	236.6	230.4	64.68	62.5	60.86	4.8	58.4	100.8	6.47	78.37	135.19
045	262.3	254.0	247.8	69.29	67.11	65.47	5.0	62.5	107.8	6.74	83.75	144.61
050	284.4	276.2	271.7	75.14	72.96	71.78	5.3	67.5	100.3	7.08	90.58	134.54

* At 3000 PSI

T6H/T7H Hybrid Technology Variable Piston Fixed Vane Pumps



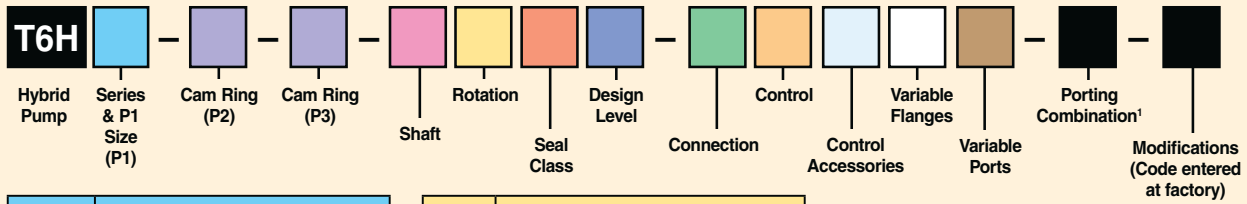
Dimensions, inch (mm)

Series	A	B max	C Max.	D Max	E	F	G Max.	Weight, kg (lb)
T6H20B/C	12.64 (321.1)	0.31 (7.9)	2.75 (69.8)	8.86 (225.0)	4.54 (115.3)	3.19 (81.0)	6.77 (172.0)	81.6 (37.1)
T6H29B/C	13.27 (337.1)	0.375 (9.5)	3.31 (84.1)	9.056 (230.0)	4.91 (124.7)	3.59 (91.2)	5.9 (149.9)	108.0 (49.1)
T6H29D	14.70 (373.4)	0.375 (9.5)	3.31 (84.1)	9.06 (230.1)	4.92 (125.0)	3.59 (91.2)	5.9 (149.9)	132.2 (60.1)
T6H29DB	19.30 (490.2)	0.375 (9.5)	3.31 (84.1)	9.06 (230.1)	4.95 (125.7)	3.59 (91.2)	5.9 (149.9)	158.7 (72.1)



Vane Pumps

T6H/T7H Model Ordering Code



Code	P1 Size
20B 20C	2.62 in ³ /rev (42.9 cc/rev)
29B 29C 29D 29DB	3.78 in ³ /rev (62.0 cc/rev)

Size	P2 & P3 Cam Ring Size (See Table Below)	
	P2	P3*
T6H20B	Use B Codes	
T6H20C	Use C Codes	
T6H29B	Use B Codes	
T6H29C	Use C Codes	
T6H29D	Use D Codes	
T6H29DB	Use D Codes	Use B Codes

*P3 required for double pumps (DB) only.
Omit for single pumps.

Code	Shaft	
	T6H20	T6H29
1	Keyed SAE BB	Keyed SAE C
3	Splined SAE C	Splined SAE C
4	Splined SAE BB	
5	Keyed SAE C	

Code	Rotation*
R	CW
L	CCW

*As viewed from shaft end.

Code	Seal Class
1	S1 (Buna N)
5	S5 (fluorocarbon)

Code	Design Level
C	T6H20C
B	All Other Sizes

Code	Connection (Drain + Vent.)
0	Ext. Drain + UNF Thread
2	Ext. Drain + BSPP Thread
3	Int. Drain + UNF Thread
4	Int. Drain + BSPP Thread

Code	Control
C	Compensator
F	RC Pilot Operated Compensator
L	RC Pilot Operated Compensator, Load Sensing
X*	RC Pilot Operated Compensator with Vent Valve 24 VDC

*Use with external drain only.

Code	Control Accessories
0	Maximum Flow
9	90% Max Flow
8	80% Max Flow
7	70% Max Flow
6	60% Max Flow
5	50% Max Flow

Code	Variable Flange Connection
0	SAE 4 Bolt Flange (J518c), UNC Thread
M	SAE 4 Bolt Flange (J518c), Metric Thread

Code	Variable Port		
	B & C P2	D P2	DB P3
0	1"	1 1/4"	1"
1	3/4"		3/4"

Cam Ring Codes

B Codes	Delivery GPM (LPM)	C Codes	Delivery GPM (LPM)	D Codes	Delivery GPM (LPM)
B02	1.84 (7.0)	*03	3.42 (12.9)	014	15.09 (57.1)
B03	3.11 (11.8)	*05	5.45 (20.6)	017	18.45 (69.8)
B04	4.06 (15.4)	*06	6.75 (25.6)	020	20.93 (79.2)
B05	5.04 (19.1)	*08	8.37 (31.7)	024	25.20 (95.4)
B06	6.28 (23.8)	*10	10.81 (40.9)	028	28.44 (107.7)
B07	7.13 (27.0)	*12	11.76 (44.5)	031	31.16 (118.0)
B08	7.89 (29.9)	*14	14.58 (55.2)	035	35.19 (133.2)
B10	10.08 (38.1)	*17	18.48 (70.0)	038	38.14 (144.4)
B12	13.00 (49.2)	*20	20.23 (76.6)	042	43.12 (163.2)
B15	15.85 (60.0)	*22	22.29 (84.4)	045	46.19 (174.9)
		*25	25.14 (95.2)	050	50.09 (189.6)
		*28	28.15 (106.6)		
		*31	31.70 (120.0)		

* 0 = uni-rotational; B = bi-rotational

¹Several combinations are available. See Catalog on CD.

□ = Not Available