

IFP T6 HIGH PERFORMANCE SINGLE & DOUBLE UNITS



FEATURES:

- Pre-tested / Reversible Cartridge Assemblies
- High Pressure 4000 PSI (275 bar)
- Wide Range of Displacements
- High Volumetric Efficiency
- Double Lip Pin Vane Design
- Lower Noise Level



Operating Specifications

Based on using petroleum oil at 120° F (49 °C), viscosity 150 SUS at 100° F (32 cSt at 38 °C), and 0 psi inlet pressure

	IFP model series	Max. pressure PSI	Speed r/min		Displ. in / rev	Mounting Standard	Weight lb	Fluid Connection (SAE 4-bolt)	
			Max.	Min.				Pressure Port	Suction Port
 Single Pump	T6C	4000	2800	600	.66 ~ 6.10	SAE - B	34	1" S. FLG	1 1/2" S. FLG
	T6D	3500	2500	600	2.90 ~ 9.64	SAE - C	53	1 1/4" S. FLG	2" S. FLG
	T6E	3500	2200	600	8.69 ~ 13.86	SAE - C	95	1 1/2" S. FLG	3" S. FLG
 Double Pump	T6CC	4000	2800	600	p1-. .66 ~ 6.10 p2-. .66 ~ 6.10	SAE - B	57	P1- 1"S FLG P2- .1" S. FLG	3 or 2 1/2"S FLG
	T6DC	3500	2500	600	p1- 2.90 ~ 9.64 p2- .66 ~ 6.10	SAE - C	80	P1- 1 1/4" S. FLG P2- 1" S. FLG	3" S. FLG
	T6EC	3500	2200	600	p1- 8.69 ~ 13.86 p2- .66 ~ 6.10	SAE - C	121	P1- 1 1/2" S. FLG P2- 1" S. FLG	3 1/2" S. FLG
	T6ED	3500	2200	600	p1- 8.69 ~ 13.86 p2- 2.90 ~ 9.64	SAE - C	145	P1- 1 1/2" S. FLG P2- 1 1/4" S. FLG	4" S. FLG

◆ Ordering Code T6* Single Vane Pump

IFP	T6*	**	1	R	N
SERIES	RING SIZE	SHAFT	ROTATION		
T6C					
T6D					
T6E		KEYED	R- RIGHT		
		SPLINE	L- LEFT		

◆ Ordering Code T6** Double Vane Pump

IFP	T6**	**	1	R	N
SERIES	RING SIZE	SHAFT	ROTATION		
T6CC					
T6DC					
T6EC		KEYED	R- RIGHT		
T6ED		SPLINE	L- LEFT		

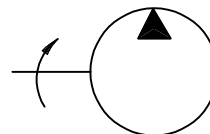
T6C Cartridge / Ring Flow GPM @1200 rpm			T6D Cartridge / Ring Flow GPM @1200 rpm			T6E Cartridge / Ring Flow GPM @1200 rpm		
03	10	22	14	31	45	45	66	
05	12	25	20	35	50	50	72	
06	14	28	24	38		52		
08	17	31	28	42		62		

IFP T6C SERIES HIGH PERFORMANCE VANE PUMPS



High Performance in an Economical Package

International T6C fixed displacement vanepumps are engineered for higher operating pressures (4000 psi) and shaft speeds (2800 rpm) demanded by today's expanding Fluid Power Market. The T6C has an SAE "B" mount with a wide variety of displacements and keyed/splined shafts.



Features:

- * High Volumetric Efficiency
- * Double Lip Vane Design
- * Lower Noise Levels
- * Large Variety Displacements

IFP	-	T6C	-	010	-	1	-	R	-	N														
		Series		<table><tr><td>Ring</td><td>Size</td></tr><tr><td>03</td><td>14</td></tr><tr><td>05</td><td>17</td></tr><tr><td>06</td><td>22</td></tr><tr><td>08</td><td>25</td></tr><tr><td>10</td><td>28</td></tr><tr><td>12</td><td>31</td></tr></table>	Ring	Size	03	14	05	17	06	22	08	25	10	28	12	31		Shaft		Rotation		Design
Ring	Size																							
03	14																							
05	17																							
06	22																							
08	25																							
10	28																							
12	31																							
						1-7/8 keyed		R - Right																
						3-Spline		L - Left																
						SAE "B" 13th																		
						4-Spline																		
						SAE "BB" 15th																		

General Characteristics

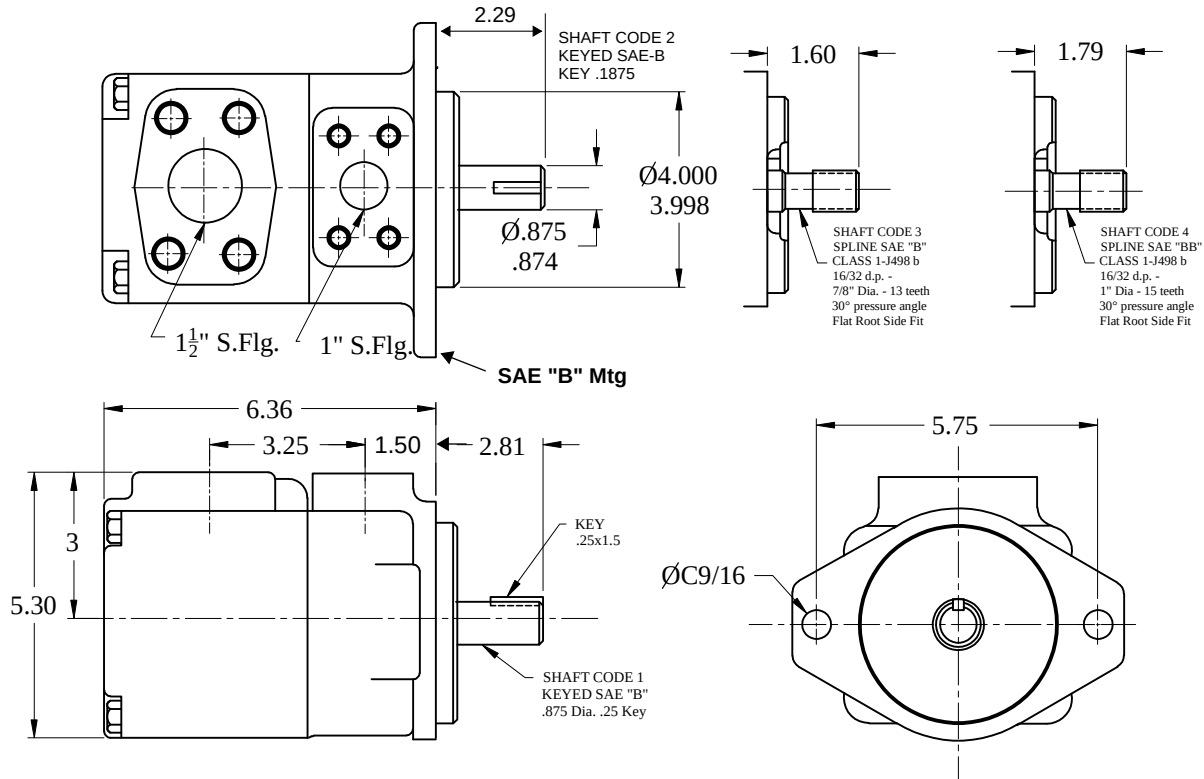
Series	Max. Pressure PSI (MPa)	Speed r/min		Displ. in ³ /rev (cm ³ /rev)	Mounting Standard	Weight lb(kg)	Fluid Connection (SAE 4-bolt)	
		Max.	Min.				Pressure Ports (Front & Back)	Suction Inlet
T6C	4000(28.0)	2800	600	.66 ~ 5.42 (10.8 ~ 88.7)	SAE - B	34 (15.5)	1" S. FLG.	1-1/2" S. FLG.

Operating Specifications

Fluid Type	T6C Continuous		T6C Intermittent	
	Speed r/min	Pressure psi(MPa)	Speed r/min	Pressure psi(MPa)
Antiwear Petroleum Base	2800	3500(24.5)	2800	4000(28.0)
Non Antiwear Petroleum Base	2800	2500(17.5)	2800	3000(21.0)
Water in Oil Emulsions	1800	2000(14.0)	1800	2500(17.5)
Water Glycols	1800	2000(14.0)	1800	2500(17.5)
Synthetic Fluids	1800	2500(17.5)	1800	3000(21.0)

IFP T6C SINGLE VANE PUMP INSTALLATION/DIMENSIONS

Dimension & Operating Characteristics



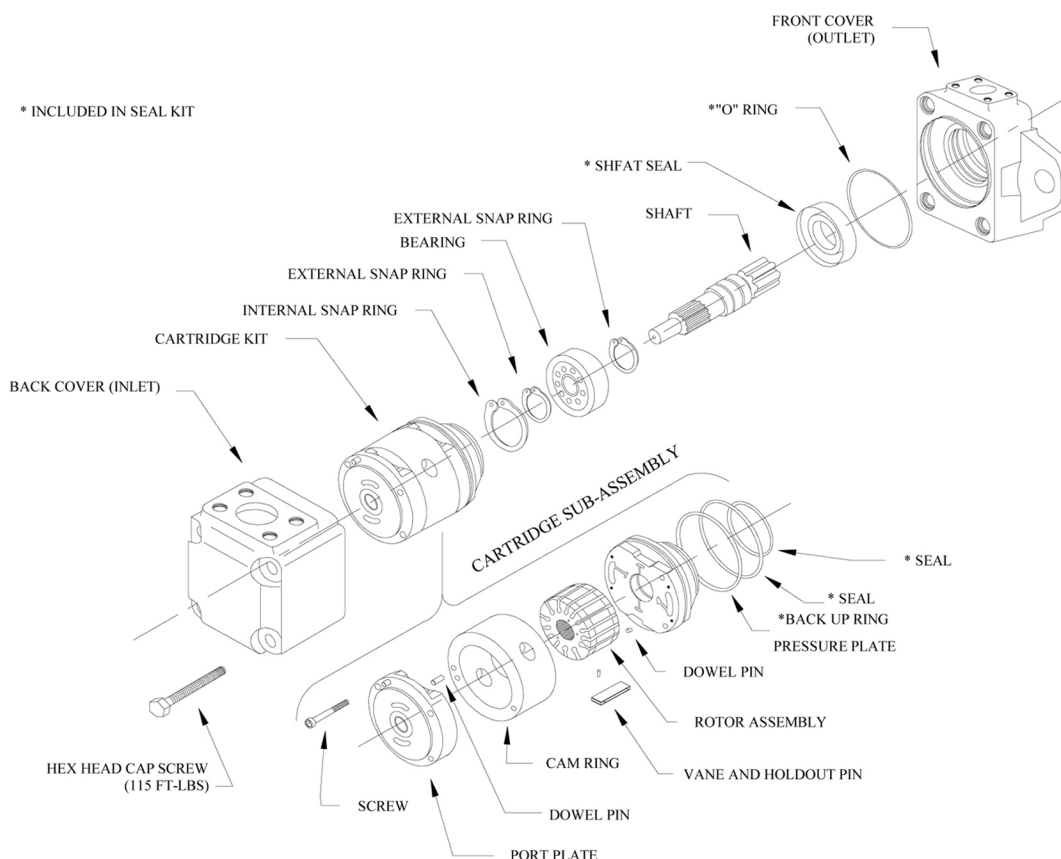
Performance Data - Typical flow at 120°F, 10 W Oil (115 SUS), 0 PSI Inlet

Series	Volumetric Displ. Vp	Speed n[R.P.M.]	Flow(GPM)			Inputpower(HP)		
			0 PSI	2000 PSI	3500 PSI	100 PSI	2000 PSI	3500 PSI
T6C-003	.66 in ³ /rev	1200 1800	3.42 5.14	1.83 3.55	Δ 2.44	1.61 2.09	5.80 8.53	Δ 13.51
T6C-005	1.05 in ³ /rev	1200 1800	5.45 8.18	3.86 6.59	2.76 5.48	1.76 2.26	8.21 12.07	13.51 19.63
T6C-006	1.30 in ³ /rev	1200 1800	6.76 10.12	5.17 8.56	4.06 7.42	1.76 2.41	9.66 14.32	16.09 23.65
T6C-008	1.61 in ³ /rev	1200 1800	8.36 12.55	6.78 10.97	5.68 9.86	1.93 2.57	11.58 17.22	19.48 28.49
T6C-010	2.08 in ³ /rev	1200 1800	10.81 16.20	9.23 14.65	8.11 13.50	2.09 2.74	14.32 21.56	24.30 35.88
T6C-012	2.26 in ³ /rev	1200 1800	11.76 17.64	10.47 16.35	9.57 2.74	1.92 2.84	15.53 23.05	26.36 38.92
T6C-014	2.81 in ³ /rev	1200 1800	14.58 21.88	12.99 20.29	11.89 19.18	2.26 3.06	18.83 28.32	32.03 47.47
T6C-017	3.56 in ³ /rev	1200 1800	18.48 27.71	16.99 26.16	15.79 25.01	2.57 3.38	23.23 35.24	39.91 59.38
T6C-020	3.89 in ³ /rev	1200 1800	20.23 30.34	18.94 29.05	18.94 29.05	2.41 3.58	25.41 37.86	43.64 64.85
T6C-022	4.29 in ³ /rev	1200 1800	22.28 37.42	20.70 31.86	19.60 30.72	2.74 3.70	27.84 42.00	47.63 70.97
T6C-025*	4.84 in ³ /rev	1200 1800	25.14 37.69	23.56 36.14	22.44 35.00	2.89 4.02	31.06 46.99	53.42 79.66
T6C-028*	5.42 in ³ /rev	1200 1800	28.15 42.23	26.86 40.94	26.24 40.32**	2.87 4.27	34.66 51.74	51.37 76.73**
T6C-031*	6.10 in ³ /rev	1200 1800	31.70 47.56	30.41 46.27	29.79 45.65**	3.08 4.58	38.80 57.95	57.58 86.06**

*025-028-031 = 2500 R.P.M. max.
**028-031 = 3000 PSI max.Int.

Δ Not used because internal leakage
is greater than 50 % theoretical flow

IFP T6C-N SINGLE VANE PUMP SERVICE PARTS INFORMATION



CARTRIDGE CHART

PUMP SIZE	CART. KIT	CAM RING	VANE KIT	ROTOR	PRESSURE PLATE	PORT PLATE	SHAFTS
T6C-003	S24-10692N	034-59050N	034-59099N	S24-10350N	034-59772N	034-59774N	#1 034-70814N
T6C-005	S24-10694N	034-59051N					#2 034-70880N
T6C-006	S24-10696N	034-59052N					#3 034-70815N
T6C-008	S24-10698N	034-59053N					#4 034-59426N
T6C-010	S24-10721N	034-59054N					
T6C-012	S24-26478N	034-66595N					
T6C-014	S24-10723N	034-59206N					
T6C-017	S24-10725N	034-59207N					
T6C-020	S24-26859N	034-66607N					
T6C-022	S24-10727N	034-59208N					
T6C-025	S24-10729N	034-59209N					
T6C-028	S24-97761N	034-59245N					
T6C-031	S24-45785N	034-66843N					

- All cartridge assemblies are factory tested prior to shipping -

STANDARD SEAL KIT	STANDARD SHAFT SEAL	VITON SHAFT SEAL	BEARING	FRONT COVER	BACK COVER
S24-10133N	620-82012N		230-82054N	034-48565N	034-48564N

Filtration

For satisfactory service life, use full flow filtration to provide fluid which meets ISO cleanliness code 16/13 or better.

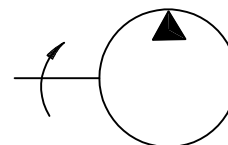
IFP T6D SERIES

HIGH PERFORMANCE VANE PUMPS



High Performance in an Economical Package

International T6D fixed displacement vane pumps are engineered for higher operating pressures (3500 psi) and shaft speeds (2500 rpm) demanded by today's expanding Fluid Power Market. The T6D has an SAE "C" mount with a wide variety of displacements and keyed/splined shafts.



Features:

- * High Volumetric Efficiency
- * Double Lip Vane Design
- * Lower Noise Levels
- * Large Variety Displacements

IFP	-	T6D	-	020	-	1	-	R	-	N												
		Series		<table><tr><td>Ring</td><td>Size</td></tr><tr><td>014</td><td>038</td></tr><tr><td>020</td><td>042</td></tr><tr><td>024</td><td>045</td></tr><tr><td>031</td><td>050</td></tr><tr><td>035</td><td></td></tr></table>	Ring	Size	014	038	020	042	024	045	031	050	035			Shaft		Rotation		Design
Ring	Size																					
014	038																					
020	042																					
024	045																					
031	050																					
035																						
						1- keyed (SAE-C)		R - Right														
						2- KEYED (NOT SAE)		L - Left														
						3 - SPLINED (SAE-C)																
						4 - SPLINED (NOT SAE)																

General Characteristics

Series	Max. Pressure PSI (MPa)	Speed r/min		Displ. in ³ /rev (cm ³ /rev)	Mounting Standard	Weight lb(kg)	Fluid Connection (SAE 4-bolt)	
		Max.	Min.				Pressure Ports (Front & Back)	Suction Inlet
T6D	3500(24.5)	2500	600	2.90 ~ 9.64 (47.3 ~ 157.2)	SAE - C	59.4 (27)	1 1/4" S. FLG.	2" S. FLG.

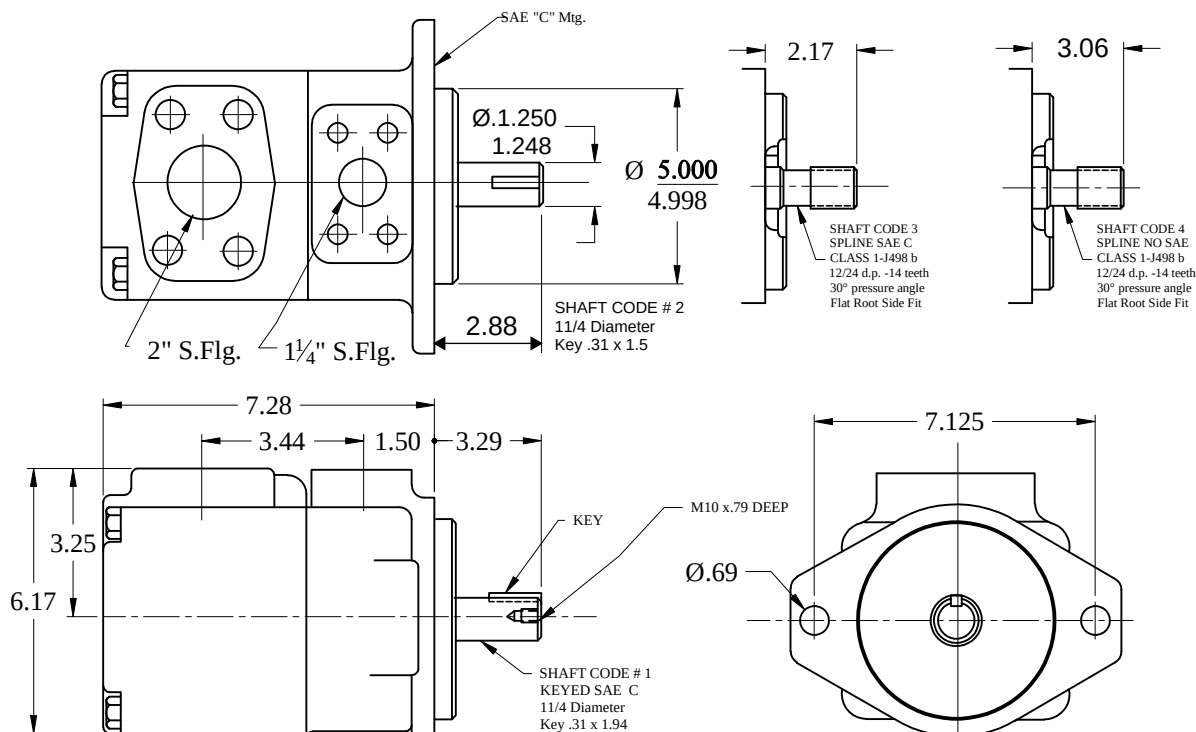
Operating Specifications

Fluid Type	T6D Continuous		T6D Intermittent	
	Speed r/min	Pressure psi(MPa)	Speed r/min	Pressure psi(MPa)
Antiwear Petroleum Base	2500	3000(21.0)	2500	3500(24.5)
Non Antiwear Petroleum Base	2500	2500(17.5)	2500	3000(21.0)
Water in Oil Emulsions	1800	2000(14.0)	1800	2500(17.5)
Water Glycols	1800	2000(14.0)	1800	2500(17.5)
Synthetic Fluids	1800	2500(17.5)	1800	3000(21.0)

IFP T6D SINGLE VANE PUMP INSTALLATION/DIMENSIONS



Dimension & Operating Characteristics



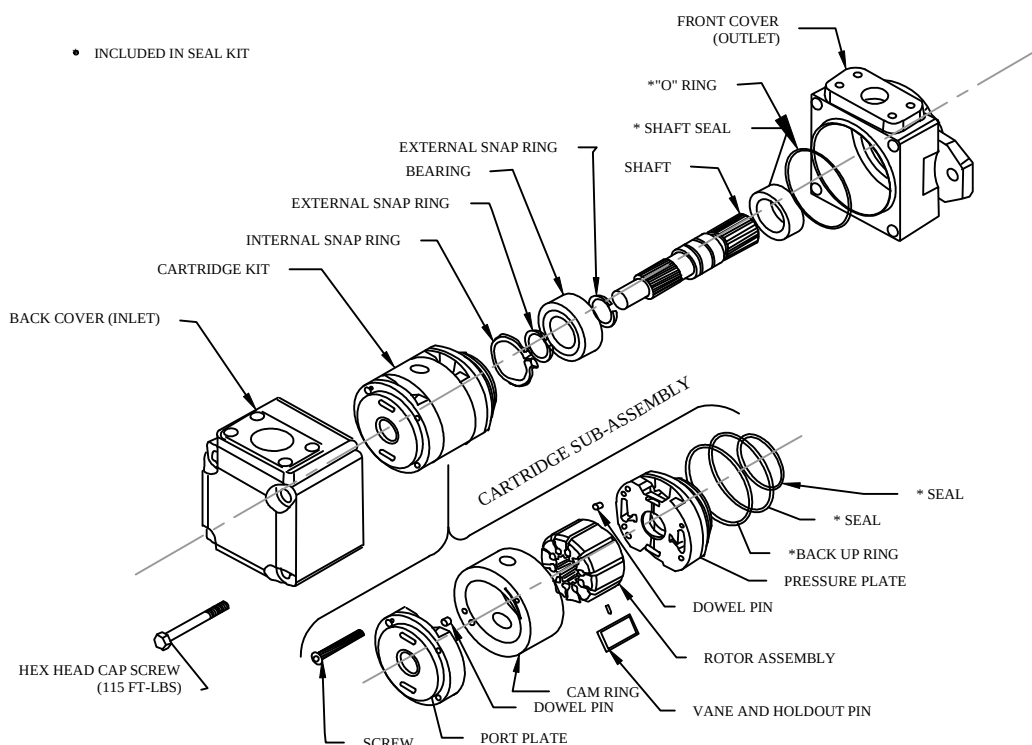
Performance Data - Typical flow at 120°F, 10 W Oil (115 SUS), 0 PSI Inlet

Series	Volumetric Displ. Vp	Speed n[R.P.M.]	Flow(GPM)			Inputpower(HP)		
			0 PSI	2000 PSI	3500 PSI	100 PSI	2000 PSI	3500 PSI
T6D-014	2.90 in ³ /rev	1200 1800	15.09 22.64	12.14 19.69	10.18 17.72	2.41 4.02	19.47 28.97	28.16 49.24
T6D-020	4.00 in ³ /rev	1200 1800	20.93 31.38	17.98 28.44	16.01 26.47	2.74 4.50	26.40 39.26	45.06 67.10
T6D-024	4.80 in ³ /rev	1200 1800	25.20 37.82	22.26 34.87	20.29 32.88	3.06 4.82	31.38 47.63	53.57 80.14
T6D-028	5.50 in ³ /rev	1200 1800	28.44 42.64	25.49 39.70	23.52 37.73	3.22 5.15	35.40 52.62	60.35 89.95
T6D-031	6.00 in ³ /rev	1200 1800	31.16 46.73	28.21 43.79	26.24 41.82	3.38 5.30	38.62 57.44	65.82 98.16
T6D-035	6.80 in ³ /rev	1200 1800	35.19 52.79	32.24 49.84	30.28 47.87	3.70 5.63	43.28 64.52	74.03 110.56
T6D-038	7.30 in ³ /rev	1200 1800	38.14 57.19	35.20 54.24	33.23 52.28	3.86 5.95	46.82 69.68	79.98 119.40
T6D-042*	8.30 in ³ /rev	1200 1800	43.12 64.68	40.16 61.73	38.21 59.76	4.19 6.43	52.62 78.37	90.12 134.69
T6D-045*	8.90 in ³ /rev	1200 1800	46.19 69.28	43.25 66.32	41.28 64.36	4.34 6.60	56.16 83.84	96.40 144.02
T6D-050*	9.64 in ³ /rev	1200 1800	50.09 75.14	47.14 72.19	45.97** 71.02	4.50 7.08	61.47 91.72	91.40** 136.78

*025-045-050 = 2200 R.P.M. max.

**050 = 3000 PSI max.Int.

IFP T6D-N SINGLE VANE PUMP SERVICE PARTS INFORMATION



CARTRIDGE CHART

PUMP SIZE	CART. KIT	CAM RING	VANE KIT	ROTOR	PRESSURE PLATE	PORT PLATE	SHAFTS
T6D-014	S24-33849N	034-66708N	034-53588N	S24-10121N	034-59808N	034-59810N	#1 034-70858N
T6D-020	S24-26486N	034-66596N					#2 034-70980N
T6D-024	S24-97784N	034-59294N					#3 034-70859N
T6D-028	S24-10837N	034-59133N					
T6D-031	S24-10839N	034-59135N					
T6D-035	S24-10841N	034-59137N					
T6D-038	S24-10843N	034-59139N					
T6D-042	S24-10845N	034-59132N					
T6D-045	S24-10847N	034-59131N					
T6D-050	S24-40028N	034-66737N					

- All cartridge assemblies are factory tested prior to shipping -

STANDARD SEAL KIT	VITON SEAL KIT	STANDARD SHAFT SEAL	VITON SHAFT SEAL	BEARING	FRONT COVER	BACK COVER
S24-10138-0-N	S24-20047-5N	620-82062N	620-82066N	230-00207N	034-47916N	034-47917N

Filtration

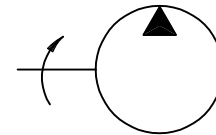
For satisfactory service life, use full flow filtration to provide fluid which meets ISO cleanliness code 16/13 or better.

IFP T6E SERIES HIGH PERFORMANCE VANE PUMPS



High Performance in an Economical Package

International T6E fixed displacement vane pumps are engineered for higher operating pressures (3500 psi) and shaft speeds (2200 rpm) demanded by today's expanding Fluid Power Market. The T6E has an SAE "C" mount with a wide variety of displacements and keyed/splined shafts.



Features:

- * High Volumetric Efficiency
- * Double Lip Vane Design
- * Lower Noise Levels
- * Large Variety Displacements

IFP	-	T6E	-	066	-	1	-	R	-	N								
		Series		<table><tr><td>Ring</td><td>Size</td></tr><tr><td>045</td><td>062</td></tr><tr><td>050</td><td>066</td></tr><tr><td>052</td><td>072</td></tr></table>	Ring	Size	045	062	050	066	052	072		Shaft		Rotation		Design
Ring	Size																	
045	062																	
050	066																	
052	072																	
						1- keyed (SAE-CC)		R - Right										
						2- KEYED (NOT SAE)		L - Left										
						3 - SPLINED (SAE-C)												
						4 - SPLINED (SAE-CC)												

General Characteristics

Series	Max. Pressure PSI (MPa)	Speed r/min		Displ. in ³ /rev (cm ³ /rev)	Mounting Standard	Weight lb(kg)	Fluid Connection (SAE 4-bolt)	
		Max.	Min.				Pressure Ports (Front & Back)	Suction Inlet
T6E	3500(24.5)	2200	600	8.70 ~ 13.86 (142.4 ~ 227.7)	SAE - C	81.3 (37)	1 1/2" S. FLG.	3" S. FLG.

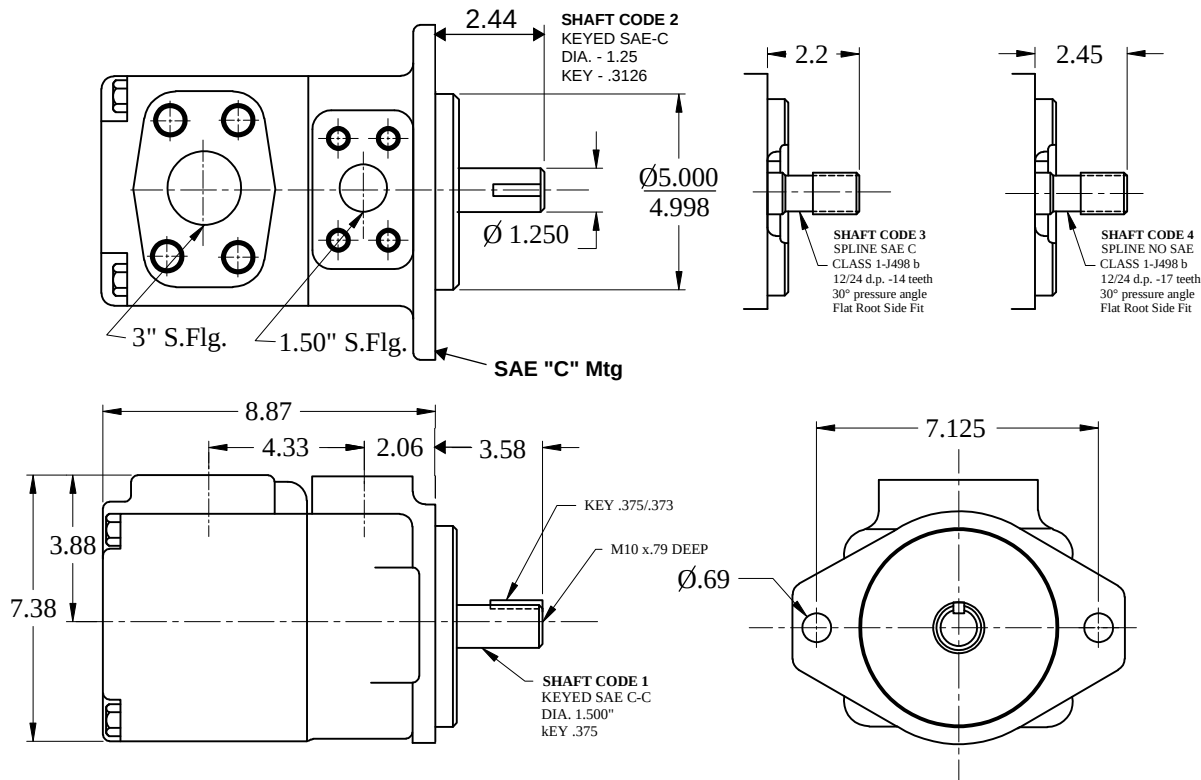
Operating Specifications

Fluid Type	T6E Continuous		T6E Intermittent	
	Speed r/min	Pressure psi(MPa)	Speed r/min	Pressure psi(MPa)
Antiwear Petroleum Base	2200	3000(21.0)	2200	3500(24.5)
Non Antiwear Petroleum Base	2200	2500(17.5)	2200	3000(21.0)
Water in Oil Emulsions	1800	2000(14.0)	1800	2500(17.5)
Water Glycols	1800	2000(14.0)	1800	2500(17.5)
Synthetic Fluids	1800	2500(17.5)	1800	3000(21.0)

IFP T6E SINGLE VANE PUMP INSTALLATION/DIMENSIONS



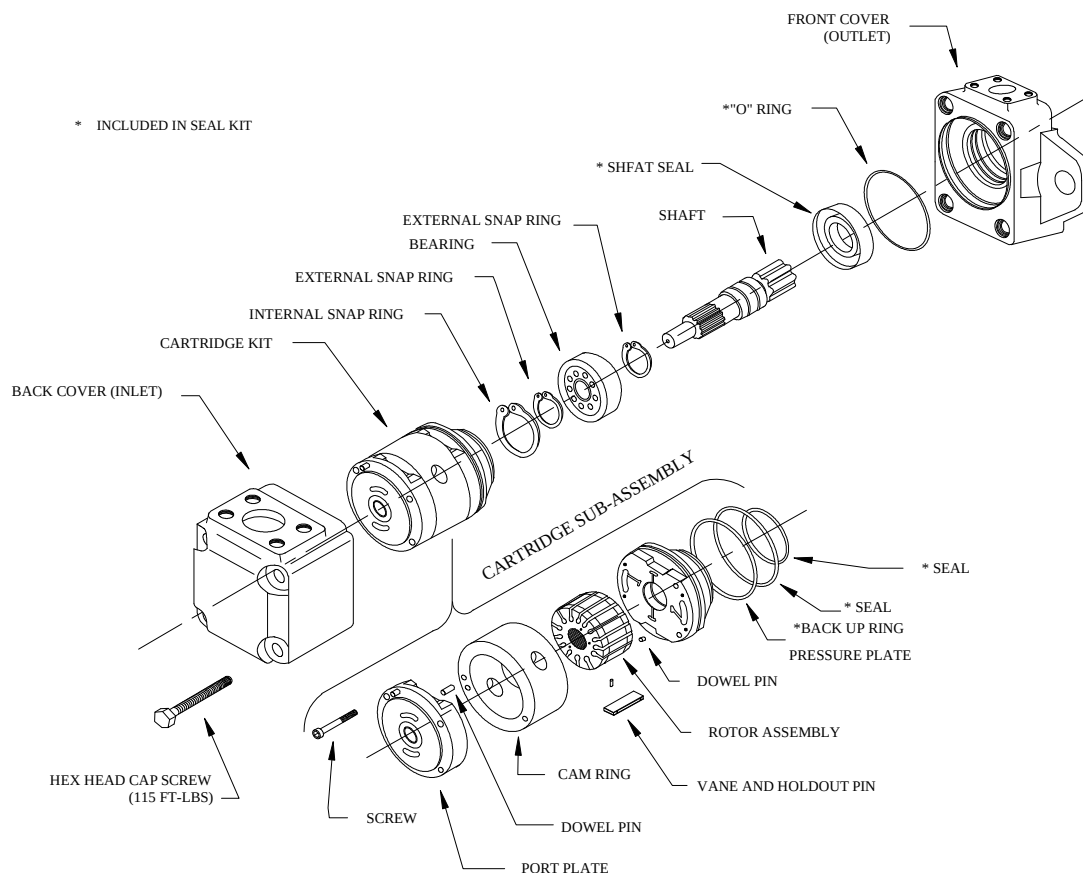
Dimension & Operating Characteristics



Performance Data - Typical flow at 120°F, 10 W Oil (115 SUS), 0 PSI Inlet

Series	Volumetric Displ. Vp	Speed n[R.P.M.]	Flow(GPM)			Inputpower(HP)		
			0 PSI	2000 PSI	3500 PSI	100 PSI	2000 PSI	3500 PSI
T6E-045	8.70 in ³ /rev	1200 1800	45.15 67.72	41.98 64.55	39.72 62.29	5.47 8.69	55.84 84.00	95.27 142.74
T6E-050	9.67 in ³ /rev	1200 1800	50.25 75.36	47.08 72.19	41.66 69.94	5.63 9.17	62.76 94.30	105.56 158.19
T6E-052	10.0 in ³ /rev	1200 1800	52.25 78.37	49.08 75.20	46.82 72.95	5.80 9.34	64.21 96.40	109.75 164.30
T6E-062	12.2 in ³ /rev	1200 1800	62.36 93.53	59.20 90.36	56.94 88.10	6.43 10.14	75.96 114.25	130.19 195.04
T6E-066	13.0 in ³ /rev	1200 1800	67.62 101.42	64.55 98.25	62.29 96.00	6.76 10.62	82.24 123.60	141.13 211.45
T6E-072	13.86 in ³ /rev	1200 1800	72.00 107.98	68.83 104.81	66.58 102.56	6.92 11.10	88.51 132.92	149.82 224.49

IFP T6E-N SINGLE VANE PUMP SERVICE PARTS INFORMATION



CARTRIDGE CHART

PUMP SIZE	CART. KIT	CAM RING	VANE KIT	ROTOR	PRESSURE PLATE	PORT PLATE	SHAFTS
T6E-045	S24-10177N	034-59164N	034-59162N	S24-10185N	034-59159N	034-59082N	#1 034-71076N
T6E-050	S24-40645N	034-66744N					#2 034-71078N
T6E-052	S24-10179N	034-59165N					#3 034-71077N
T6E-062	S24-10181N	034-59166N					
T6E-066	S24-10183N	034-59167N					
T6E-072	S24-40026N	034-66736N					

- All cartridge assemblies are factory tested prior to shipping -

STANDARD SEAL KIT	VITON SEAL KIT	STANDARD SHAFT SEAL	VITON SHAFT SEAL	BEARING	FRONT COVER	BACK COVER
S24-10186-0-N	S24-10186-5N	620-82064N	620-82064N	230-03208N	034-70249N	034-70247N

Filtration

For satisfactory service life, use full flow filtration to provide fluid which meets ISO cleanliness code 16/13 or better.