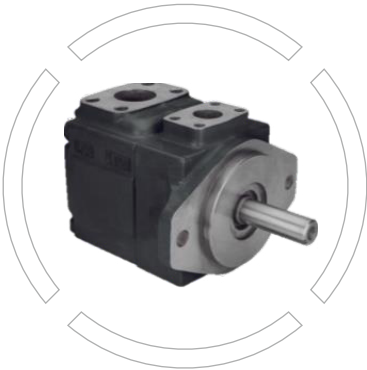


T6C Series

Fixed displacement vane pump
Displacement: 10.8 ~ 100.0 cc/rev
Max. Pressure up to 270 Bar
Max. Speed up to 2800 RPM

Updated 10.24



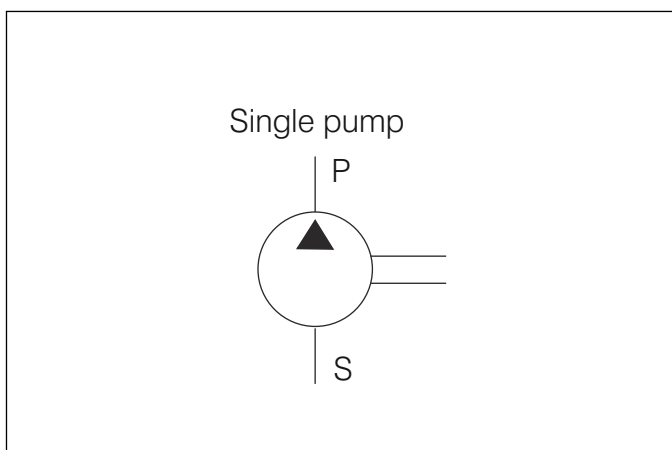
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• Unit dimensions T6C	05
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Features

- T6C and T6D Series are fixed displacement and balanced type single 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 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 van'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.

Symbol





Ordering code

T6C		*12	2	R	00	N	1	**
-----	--	-----	---	---	----	---	---	----

Vane pump "T6" series

Y: Metric port connection, Omit for UNC

Cam ring

Volumetric displacement cm³/rev

10.8	= *003/B03
14.5	= 004/B04
17.2	= 005/B05
21.3	= 006/B06
26.4	= 008/B08
34.1	= 010/B10
37.1	= 012/B12
46.0	= 014/B14
50.5	= 015/B15
58.3	= 017/B17
63.8	= 020/B20
70.3	= 022/B22
79.3	= 025/B25
88.8	= 028/B28
100.0	= 031/B31

*'0'- Uni-directional 'B'- Bi-directional

Types of shaft

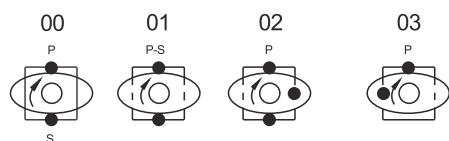
keyed (SAE B)	= 1
keyed (non SAE)	= 2
splined (SAE B)	= 3
splined (SAE BB)	= 4

Rotation (View from shaft end)

Clockwise	= R
Counter-Clockwise	= L

Porting combinations

Standard = 00



S- Suction port, P- Pressure port

Design letter

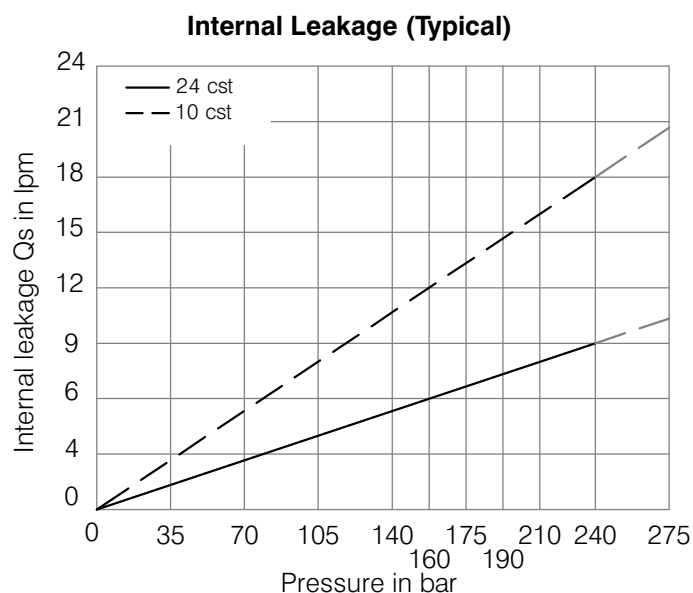
Seals class

S1(For mineral oil)	= 1
S4(For fire resistant fluids)	= 4
S5(For mineral oil& Fire resistant fluids)	= 5

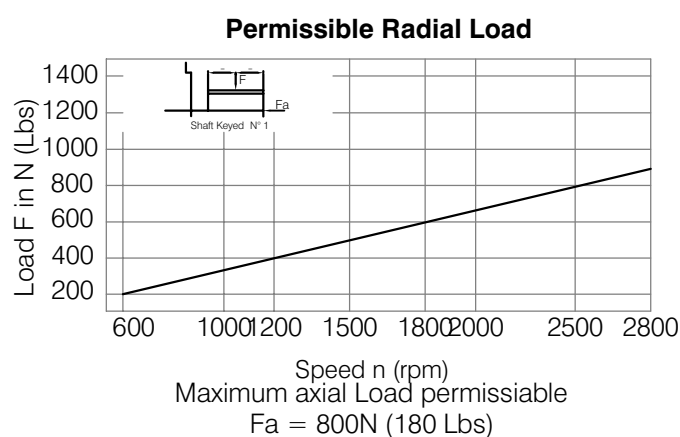
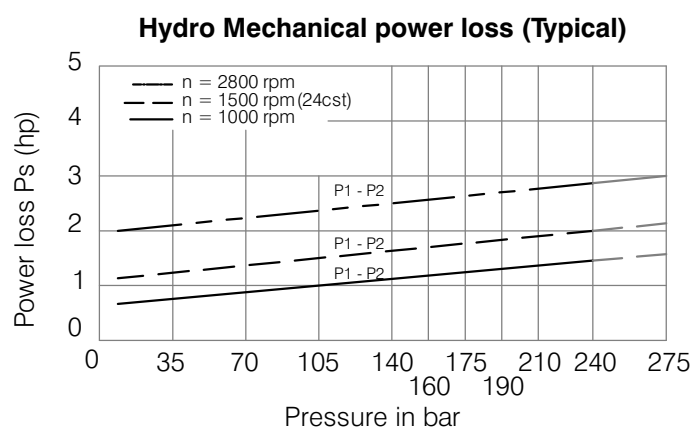
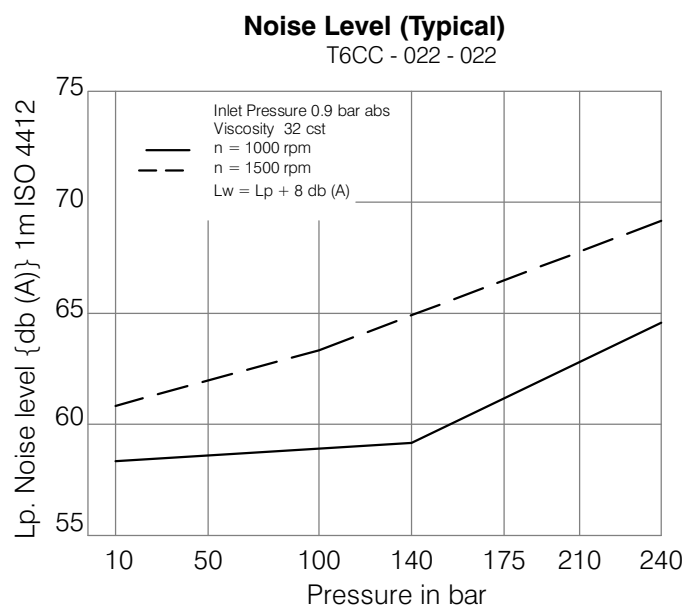
Modifications



Characteristics curve and performance

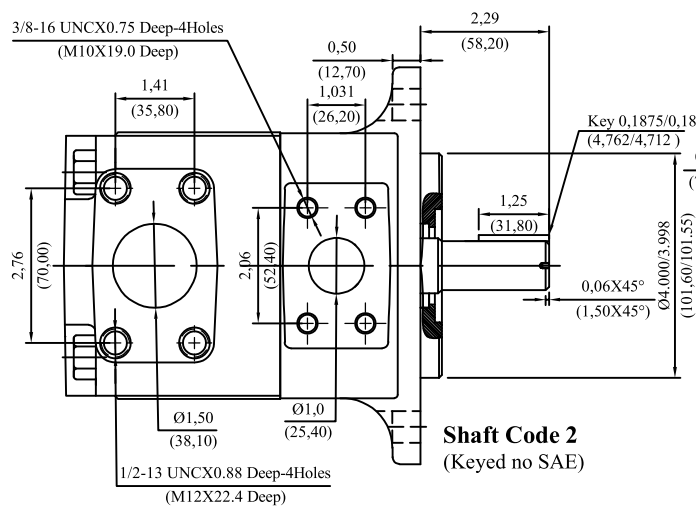


Do not Operate pump more than 5 seconds at any speed or viscosity if internal leakage is more than 50% of theoretical flow.

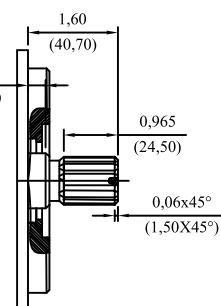




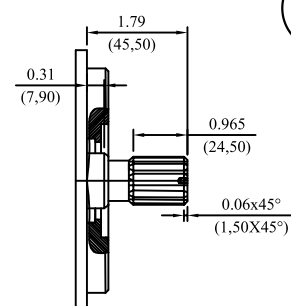
Unit Dimensions



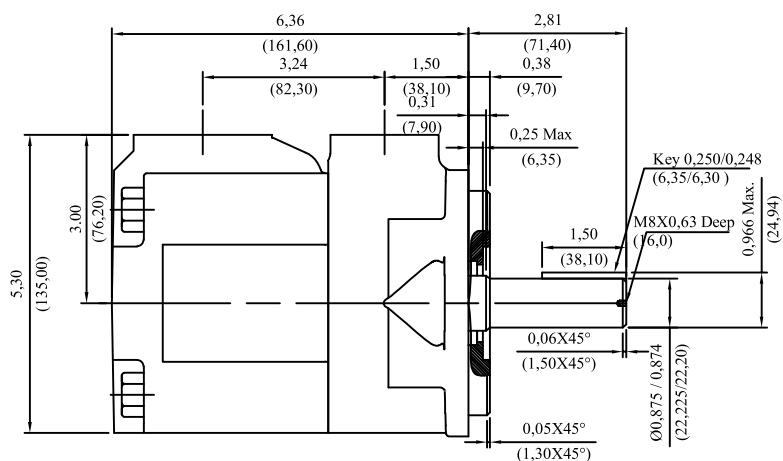
Shaft Code 2
(Keyed no SAE)



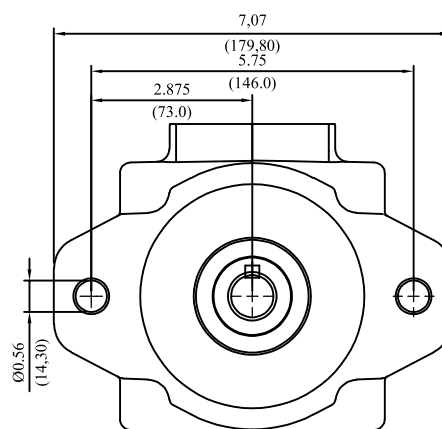
Shaft Code 3
SAE B splined shaft
Class 1-J498b
16/32 dp. 13 teeth
30° pressure angle
flat root side fit



Shaft Code 4
SAE BB splined shaft
Class 1-J498b
16/32 dp. 15 teeth
30° pressure angle
flat root side fit



Shaft Code 1
(Keyed SAE B)



Shafts Torque limits in³/rev x psi(ml/rev x bar)

Shafts	vp x p max.
1	14473 (16500)
2	12666 (14300)
3	18426 (20600)
4	19309 (21821)



Operating Characteristics & Technical Specifications

Series	Volumetric Displacement	Flow q & n = 1500 rpm			Input power p & n = 1500 rpm					
		p= 0 bar	p= 140 bar	p= 240 bar	p= 7 bar		p= 140 bar		p= 240 bar	
	cm ³ /rev	lpm	lpm	lpm	Hp	kW	Hp	kW	Hp	kW
T6C-003	10.8	16.2	11.2	7.7	1.74	1.3	7.11	5.3	11.23	8.4
T6C-004	12.8	19.2	16.4	15.0	0.93	0.7	5.23	3.90	10.06	7.5
T6C-005	17.2	25.8	20.8	17.3	1.88	1.4	10.06	7.5	16.36	12.2
T6C-006	21.3	31.9	26.9	23.4	2.01	1.5	11.94	8.9	19.71	14.7
T6C-008	26.4	39.6	34.6	31.1	2.15	1.6	14.35	10.7	22.93	17.7
T6C-010	34.1	51.1	46.1	42.6	2.28	1.7	18.64	13.4	29.90	22.3
T6C-012	37.1	55.6	50.6	47.1	2.28	1.7	19.31	14.4	32.31	24.1
T6C-014	46.0	69.0	64.0	60.5	2.55	1.9	23.60	17.6	39.56	29.5
T6C-015	50.5	75.6	73.2	67.5	2.68	2.0	25.61	19.1	42.91	32.0
T6C-017	58.3	87.4	82.4	78.90	2.82	2.1	29.34	21.9	49.48	36.9
T6C-020	63.8	95.7	90.7	87.2	2.95	2.2	31.93	23.8	53.91	40.2
T6C-022	70.3	105.4	100.4	96.9	3.08	2.28	35.0	26.1	59.13	44.1
T6C-025*	79.3	118.9	113.9	110.4	3.34	2.5	39.15	29.2	66.38	49.5
T6C-028*	88.8	133.2	128.2	125.8	3.75	2.8	43.85	32.7	65.04	48.5
T6C-031*	100.0	150.0	145.0	142.6	3.76	2.8	48.95	36.5	72.95	54.4

★ 025, 028, 031-2500RPM max.

★ 028, 031- 210bar max int.

- Not to use because internal leakage is greater than 50% of theoretical flow.

Size	Displacement cm ³ /rev	Max Speed RPM	Min Speed RPM	Max Intermittent pressure bar	Max Continuous pressure bar	Weight kg
003	10.8	2800	600	280	240	15
004	14.5					
005	17.2					
006	21.3					
008	26.4					
010	34.1					
012	37.1					
014	46.0					
015	50.5					
017	58.3					
020	63.8					
022	70.3					
025	79.3	2500	600	210	160	
028	88.8					
031	100.0					

