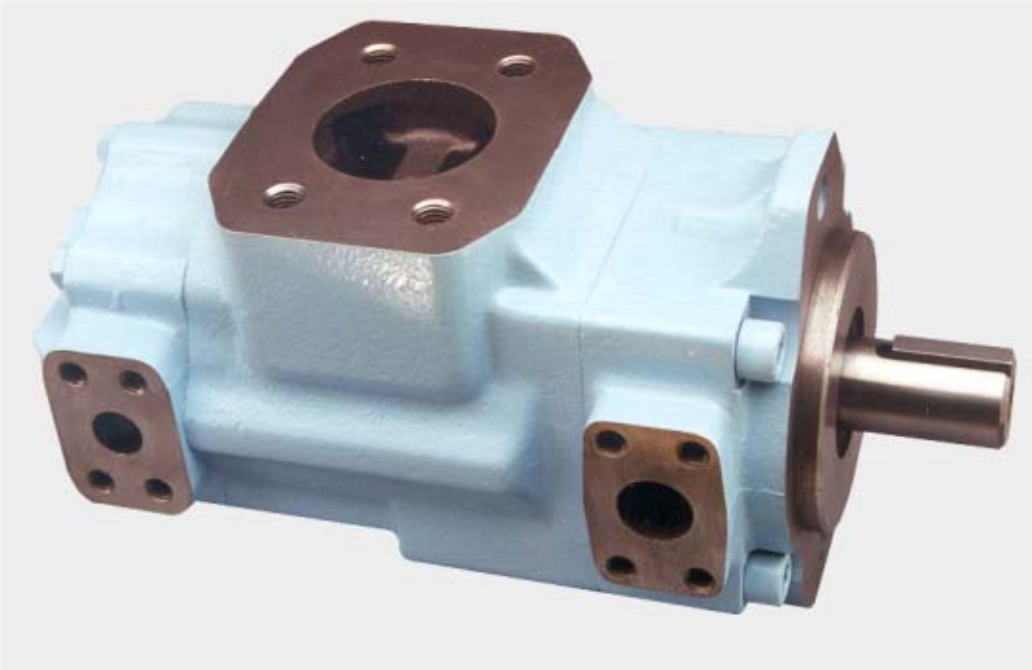
vane double pump
mobile application
T6CCZ series



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DENISON Hydraulics

Model N°. **T6CCZ . - B22 - B10 - X R 00 - A - 1 00 -**

Series - SAE B 2 bolts
Mounting flange J 744 c

One letter can be added to specify special parts in series

P1 P2

Cam ring for "P1" and "P2"
(Delivery at 0 PSI & 1200 r.p.m.)
B03 = 3.42 GPM
B05 = 5.45 GPM
B06 = 6.75 GPM
B08 = 8.37 GPM
B10 = 10.81 GPM
B12 = 11.76 GPM
B14 = 14.58 GPM
B17 = 18.48 GPM
B20 = 20.23 GPM
B22 = 22.29 GPM
B25 = 25.14 GPM
B28 = 28.15 GPM
B31 = 31.70 GPM

Type of shaft
X = keyed
V = keyed
W = keyed

Modifications

Mounting W/ connection variables

	P1 = 1" UNC		S = 3" Metric	
P2	1"	3/4"	1"	3/4"
Code	00	01	0M	WO

	P1 = 1" UNC		S = 2"1/2 Metric	
P2	1"	3/4"	1"	3/4"
Code	10	11	1M	W1

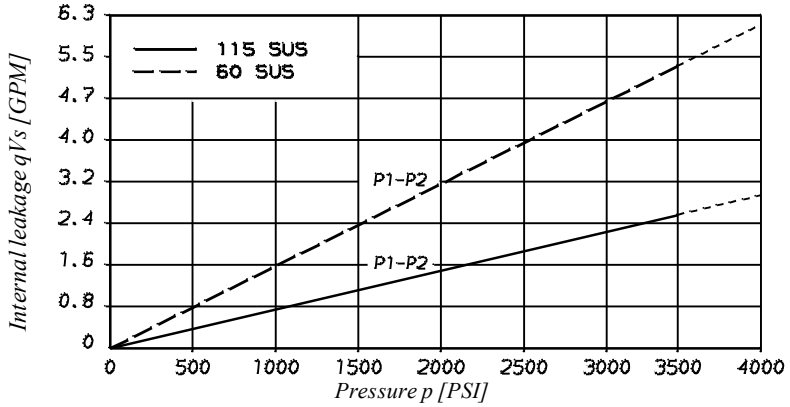
Seal class
1 = S1 (for mineral oil)

Design letter

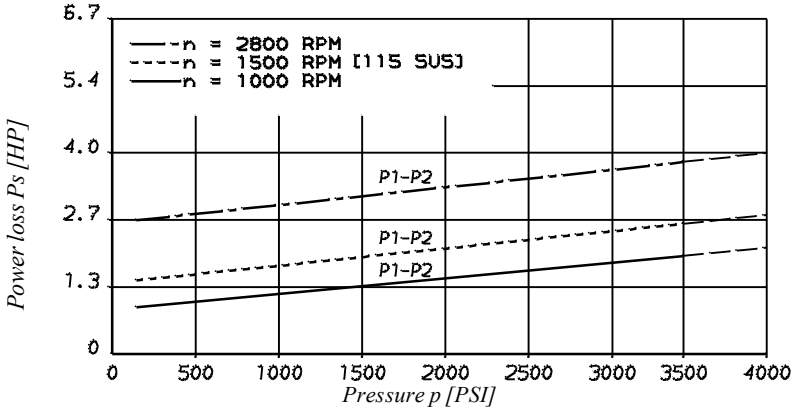
Porting combination (see page 3)

Direction of rotation (view on shaft end)
R = clockwise
L = counter-clockwise

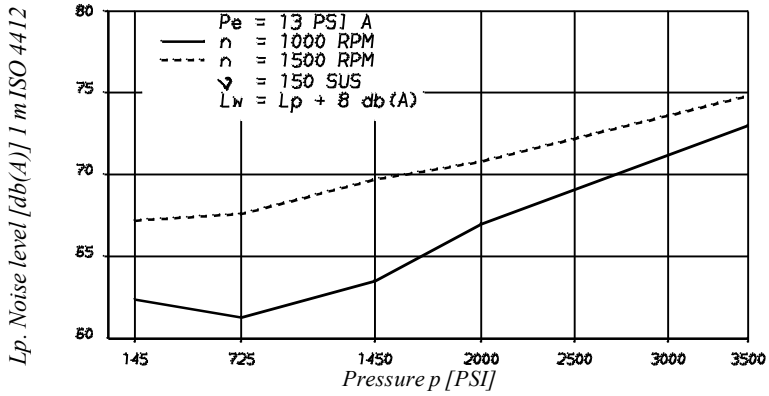
INTERNAL LEAKAGE (TYPICAL)



POWER LOSS HYDROMECHANICS (TYPICAL)



NOISE LEVEL (TYPICAL)



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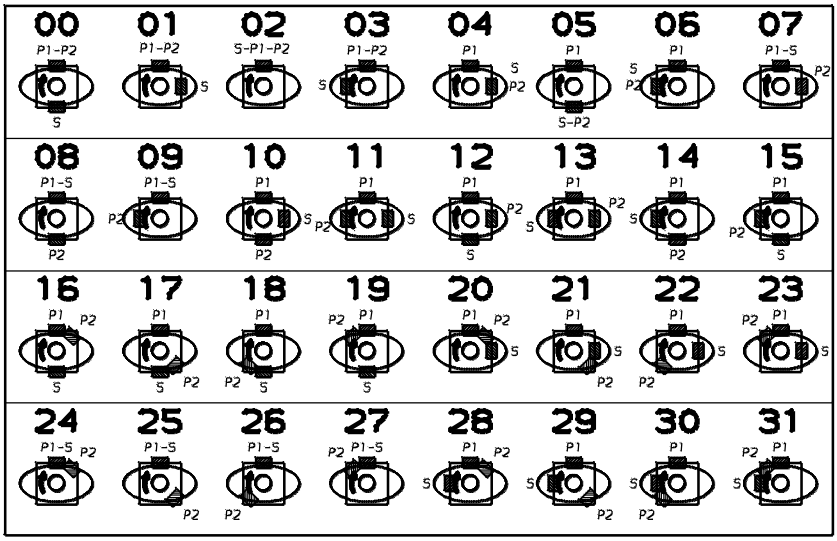
PORTING COMBINATION



GENERAL DESCRIPTION

The T6CCZ pump incorporates DENISON Hydraulics high quality and performances of T6CC series vane pumps mobile application.
High maximum permissible shaft loads is particularly well adapted to applications of pump driven by cardan.
A double raw ball bearing and a needle bearing double the permissible radial load compare to standard T6CC bearing capability. (see page 4).

GREATER FLOW

3 to 31 GPM, .61 to 6.10 in^3/rev.

HIGHER PRESSURE

275 bar maximum except B28 and B31 cartridge 3000 PSI.

WIDER SPEED RANGE

400 up to 2800 RPM with petroleum based antiwear R & O fluids which are the recommended fluids.(except B25, B28, B31 - 2500 RPM max. speed)

BETTER EFFICIENCY

Better than 94 % for energy saving.

MOUNTING FLEXIBILITY

Up to 32 positions.

WIDER RANGE OF ACCEPTABLE VISCOSITY

9240 SUS max. viscosity (cold start low speed and pressure).
140 SUS optimum (max. life).
60 SUS minimum (full speed and pressure)

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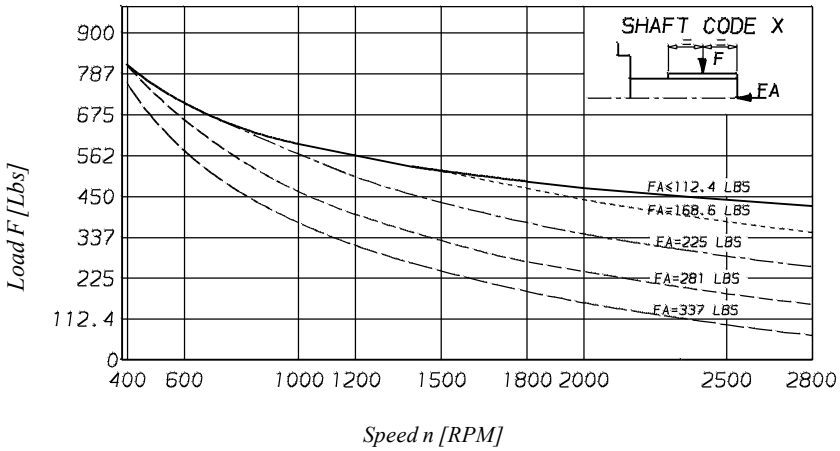
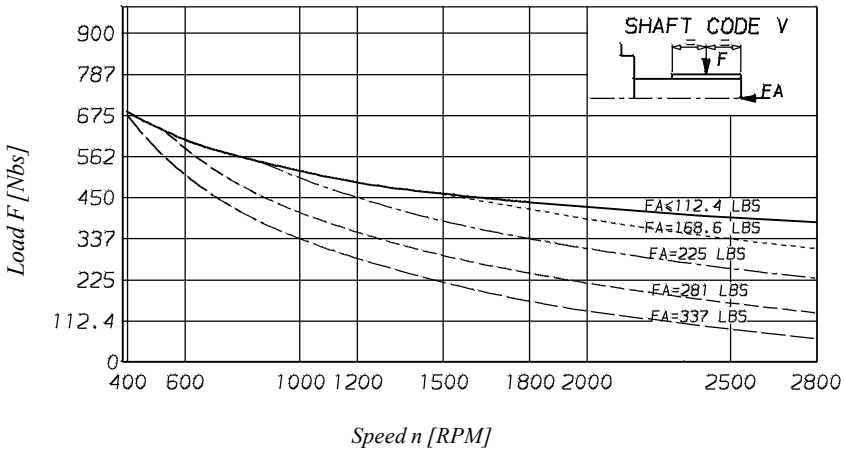
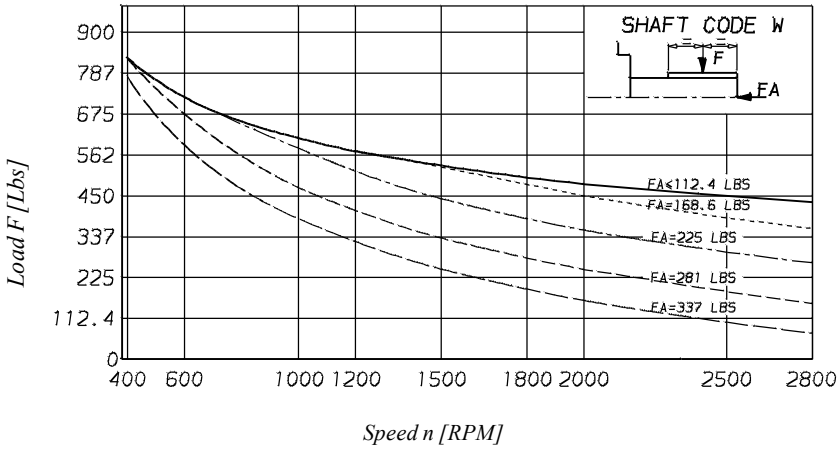
PERMISSIBLE RADIAL LOAD
Shaft code X



PERMISSIBLE RADIAL LOAD
Shaft code V



PERMISSIBLE RADIAL LOAD
Shaft code W



These curves permit to simultaneously check the maximum permissible radial and axial load on the shaft involved. Those load value are determined for 10 000 hours bearing lifetime at operating under Fa and F given to get information for a different lifetime the radial load corrected is.
If Fa is smaller than minimum axial force on the curves then

$$\text{Correct F} = \frac{F\ curve}{3{,}33\ \sqrt{\frac{L\ H\ Required}{10000}}}$$

LH = Lifetime in hours

If Fa is higher than minimum axial force then F radial load is :

$$\text{Correct F} = \frac{F\ curve}{3\ \sqrt{\frac{LH\ Required}{10000}}}$$

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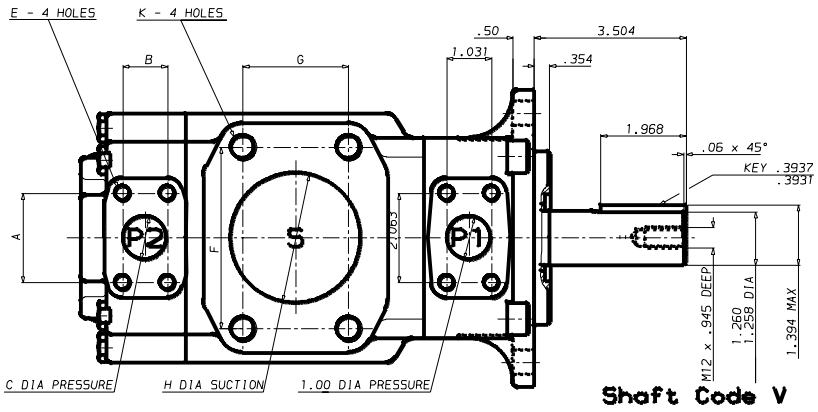

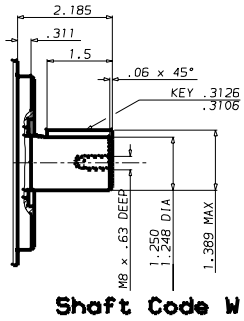

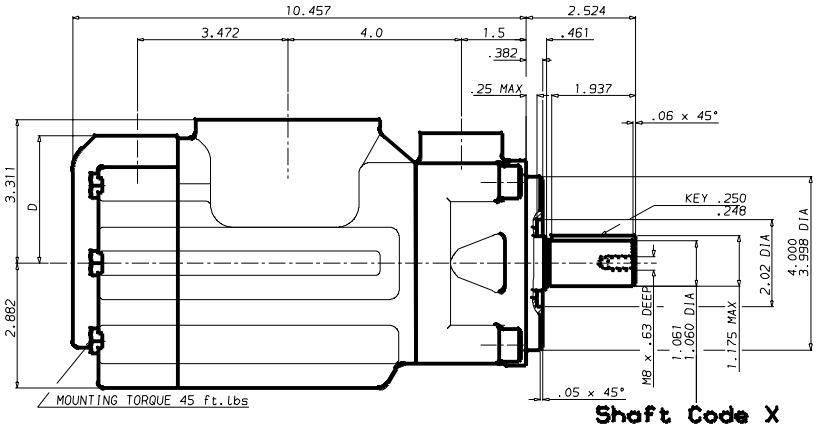

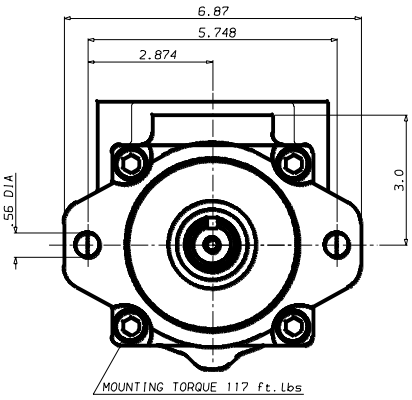

Shaft torque limits [ml/rev. x bar]	
Shaft	**Vi x p max P1 + P2**
X	22498
V	28937
W	28937

	Alternate Port							
	S = 3"				S = 2" 1/2 [2]			
F	4.19				3.50			
G	2.44				2.00			
[a] H	3.00				2.50			
Code	00	01 [1]	0M	M0 [1]	10	11 [1]	1M	M1 [1]
A	2.06	1.88	2.06	1.88	2.06	1.88	2.06	1.88
B	1.03	.88	1.03	.88	1.03	.88	1.03	.88
[a] C	1.00	.75	1.00	.75	1.00	.75	1.00	.75
D	2.94	3.00	2.94	3.00	2.94	3.00	2.94	3.00
E	3/8"-16 UNC x .75 deep		M10 x .75 deep		3/8"-16 UNC x .75 deep		M10 x .75 deep	
K	5/8"-11UNC x 1.12 deep		M16 x 1.12 deep		1/2"-13 UNC x .94 deep		M12 x .94 deep	

1) max. cam 014 *2) P1 + P2 = 7.7 in^3/rev max.*

OPERATING CHARACTERISTICS TYPICAL(115 SUS)

Pressure port	Series	Volumetric displ. Vi in^3/rev.	Flow qV [GPM] n = 1800 RPM - p at			Input power P [HP] n = 1800 RPM - p at		
			0 PSI	2000 PSI	3500 PSI	100 PSI	2000 PSI	3500 PSI
	B03	.66	5.14	3.61	-	2.11	8.45	-
	B05	1.05	8.18	6.65	5.56	2.29	12.00	19.59
	B06	1.30	10.13	8.60	7.51	2.40	14.28	23.57
	B08	1.61	12.55	11.02	9.93	2.54	17.11	28.53
P1	B10	2.08	16.22	14.69	13.60	2.76	21.38	36.00
	B12	2.26	17.64	16.11	15.02	2.84	23.05	38.92
&	B14	2.81	21.88	20.35	19.26	3.09	27.99	47.56
	B17	3.56	27.73	26.20	25.11	3.43	34.81	59.51
P2	B20	3.89	30.34	28.81	27.42	3.58	37.86	64.85
	B22	4.29	33.43	31.90	30.81	3.76	41.47	71.16
	B25 [1]	4.84	37.71	36.18	35.09	4.01	46.46	79.90
	B28 [1]	5.42	42.23	40.70	39.94 [2]	4.27	51.74	76.73 [2]
	B31 [1]	6.10	47.56	46.03	45.27 [2]	4.58	57.95	86.06 [2]

1) B25 - B28 - B31 = 2500 R.P.M. max. *2) B28 - B31 = 3000 PSI max. int.*
- Not to use because internal greater than 50 % theoretical flow.

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