VT6B - B09 - 1 R 00 - D 1 02 *

Series

Cam ring

Volumetric displacement cm³/rev (in³/rev)

B02 = 5.8 (0.35) B08 = 24.9 (1.52)
B03 = 9.8 (0.59) B09 = 28.0 (1.71)
B04 = 12.8 (0.78) B10 = 31.8 (1.94)
B05 = 15.9 (0.97) B11 = 34.9 (2.13)
B06 = 19.8 (1.21) B12 = 41.0 (2.50)(cont. 175 bar, Max. int 210 bar)
B07 = 22.5 (1.37) B14 = 45.0 (2.75)(cont. 140 bar, Max. int 175 bar)

Type of Shaft

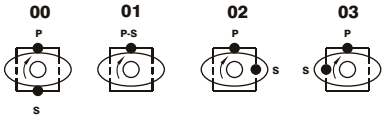
1 - Keyed (Non SAE)
2 - Keyed
3 - Splined (SAE A)
4 - Splined (SAE B)
5 - Splined SAE (11 teeth)
11 - Splined

Direction of rotation (view on shaft end)

R - clockwise
L - counter-clockwise

Porting combination

00 - standard



S - Suction port **P** - Pressure port

Modifications

Port connections

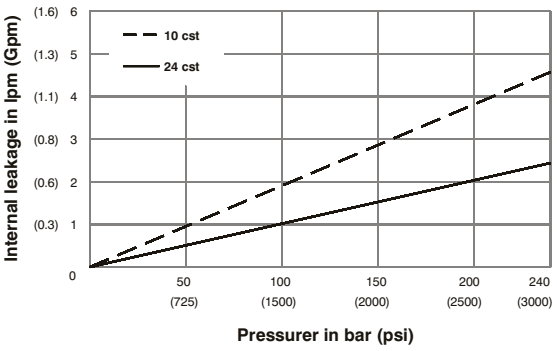
CODE	S	P
00	SAE 20 1-5/8" 12 UNF-2B	SAE 12 1-1/16" 12 UNF-2B
01	1-1/4" SAE 4 bolt (UNC)	3/4" SAE 4 bolt (UNC)
M0	1-1/4" SAE 4 bolt (METRIC)	3/4" SAE 4 bolt (METRIC)
02	1-1/4" BSP	3/4" BSP
03	1-1/4" NPTF	SAE 12 1-1/16" 12 UNF-2B
0X	1-1/4" NPTF	3/4" NPTF

Seal class

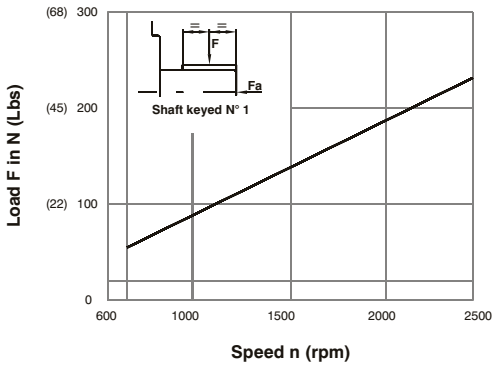
1 - S1 (for mineral oil)
4 - S4 (for fire resistant fluids)
5 - S5 (for mineral oil and fire resistant fluids)

Design letter

INTERNAL LEAKAGE (TYPICAL)



PERMISSIBLE RADIAL LOAD

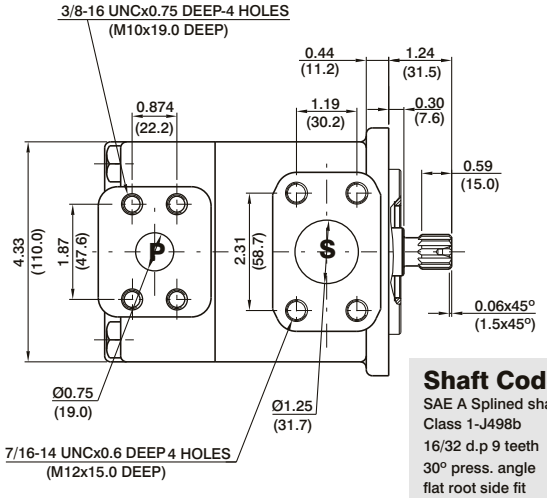


Maximum axial load permissable **Fa** = 500 N (113 Lbs)

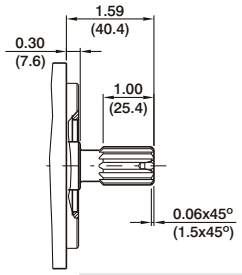
OPERATING CHARACTERISTICS (24 cSt)

Pressure port	Series	Volumetric Displacement Vp		Flow q & n = 1500 rpm						Input power p & n = 1500 rpm					
				p = 0 bar (0 psi)		p = 140 bar (2000 psi)		p = 210 bar (3000 psi)		p = 7 bar (100 psi)		p = 140 bar (2000 psi)		p = 210 bar (3000 psi)	
		in³ /rev	cm³ /rev	gpm	lpm	gpm	lpm	gpm	lpm	hp	kw	hp	kw	hp	kw
VT6B	B02	0.35	5.8	2.30	8.7	1.4	5.9	--	--	0.53	0.4	2.81	2.1	--	--
	B03	0.59	9.8	3.88	14.7	2.9	11.9	--	--	0.67	0.5	3.62	2.7	--	--
	B04	0.78	12.8	5.08	19.2	4.33	16.4	3.97	15.0	0.93	0.7	5.23	3.9	10.06	7.5
	B05	0.97	15.9	6.31	23.8	5.55	21.0	5.18	19.6	1.00	0.75	6.64	4.9	11.2	8.3
	B06	1.21	19.8	7.85	29.7	7.12	26.9	6.66	25.2	1.07	0.8	8.05	6.0	12.34	9.2
	B07	1.37	22.5	8.92	33.7	8.17	30.9	7.80	29.5	1.20	0.9	9.05	6.7	14.02	10.4
	B08	1.52	24.9	9.89	37.4	9.15	34.6	8.78	33.2	1.34	1.0	10.05	7.5	15.69	11.7
	B09	1.71	28.0	11.11	42.0	10.37	39.2	10.00	37.8	1.47	1.1	11.94	8.9	23.60	17.6
	B10	1.94	31.8	12.61	47.7	11.87	44.9	11.51	43.5	1.6	1.2	13.0	9.7	26.0	19.6
	B11	2.13	34.9	13.85	52.3	13.09	49.5	12.72	48.1	1.7	1.3	14.0	10.5	28.0	21.0
	B12	2.50	41.0	16.27	61.5	15.53	58.7	*	*	1.8	1.4	15.02	11.2	*	*
	B14	2.75	45.0	17.86	67.5	17.12	64.7	**	**	2.1	1.6	15.42	11.5	**	**

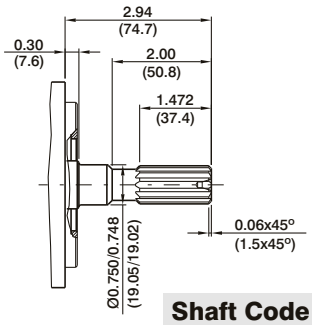
– Not to use because internal leakage greater than 50% of theoretical flow.
* B12= 210 bar(3000 psi) Max.Int
** B14= 175 bar(2500 psi) Max.Int



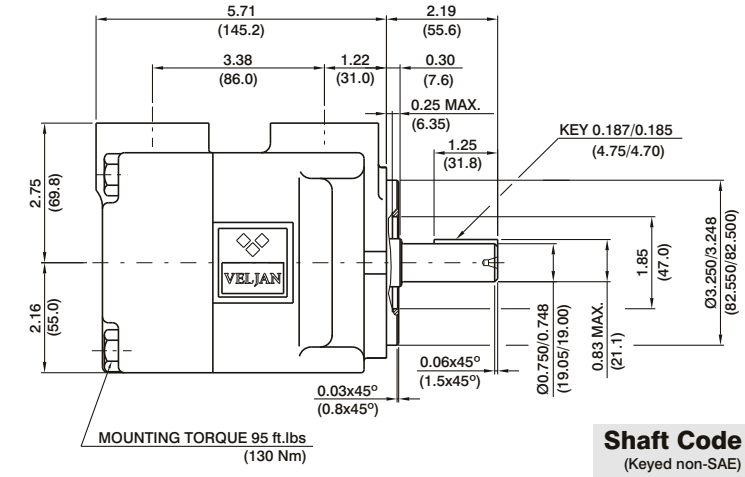
Shaft Code 3
SAE A Splined shaft
Class 1-J498b
16/32 d.p 9 teeth
30° press. angle
flat root side fit



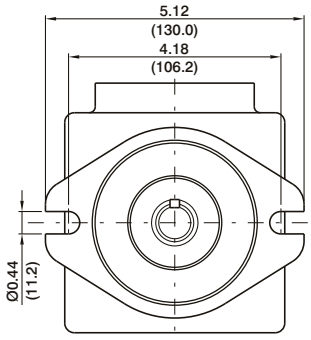
Shaft Code 4
SAE B Splined shaft
Class 1-J498b
16/32 d.p 13 teeth
30° press. angle
flat root side fit



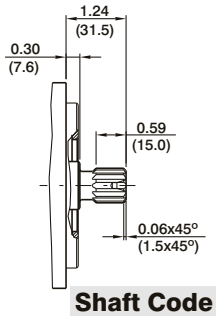
Shaft Code 11
Splined shaft
Class 1-J498b
16/32 d.p 11 teeth
30° press. angle
flat root side fit



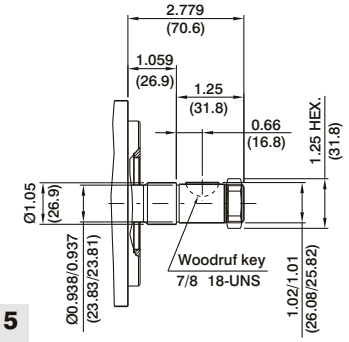
Shaft Code 1
(Keyed non-SAE)



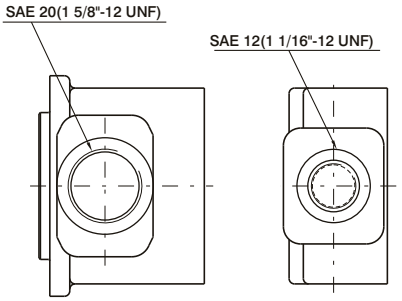
Shaft torque limits in³/revxpsi(ml/revxbar)	
Shaft	Vp x p max.
3	5119 (5780)
4	18246 (20600)



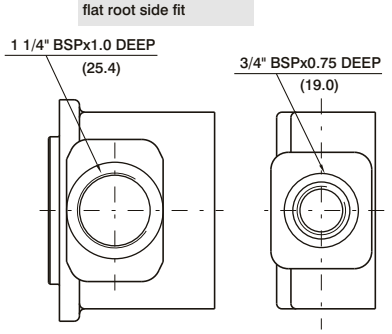
Shaft Code 5
SAE Splined shaft
Class 1-J498b
16/32 d.p 11 teeth
30° press. angle
flat root side fit



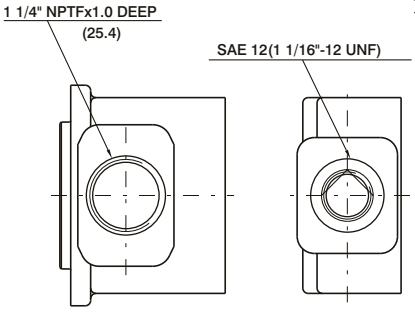
Shaft Code 2
Woodruf key
Recommended
nut Torque
125 ft.lbs (170 Nm)



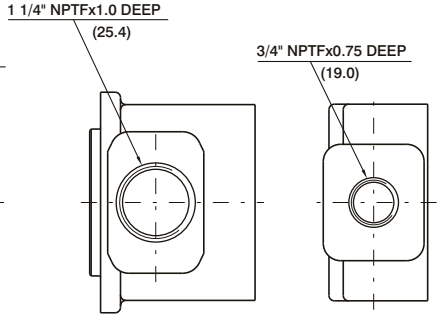
PORT CONNECTION 00



PORT CONNECTION 02



PORT CONNECTION 03



PORT CONNECTION 0X