SP

VT7E or VT7ES - 072 - 1 R 00 - A 1 M0 -

Series
VT7E series-125 A2 HW
ISO 2 bolts 3019-2 mounting flange
VT7ES series- SAE C 2 bolts
Mounting flange J744

Camring
Volumetric displacement cm³/rev (in³/rev)

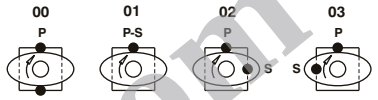
042 =	132.2 (8.07)	057 =	183.2 (11.18)
045 =	142.5 (8.70)	062 =	196.6 (12.0)
050 =	158.5 (9.67)	066 =	213.0 (13.0)
052 =	163.8 (10.0)	072 =	227.1 (13.86)
054 =	170.9 (10.43)	085 =	268.7 (16.40)

Type of shaft VT7E-VT7ES
5 - keyed (ISO R775-G38M)

Type of shaft VT7ES
1 - keyed (SAE CC)
2 - keyed (no SAE)
3 - splined (SAE C)
4 - splined (SAE CC)

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

Porting combination
00 - standard



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

Design letter

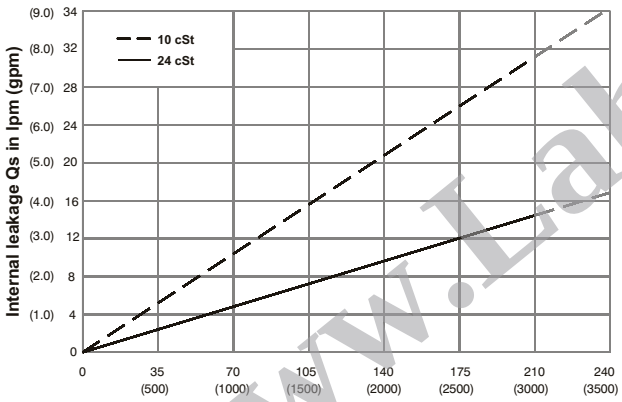
Seal class
1 - S1 (for mineral oil)
4 - S4 (for fire resistant fluids)
5 - S5 (for mineral oil and fire resistant fluids)

Mounting w/connection variables
4 bolts SAE flange (J518)

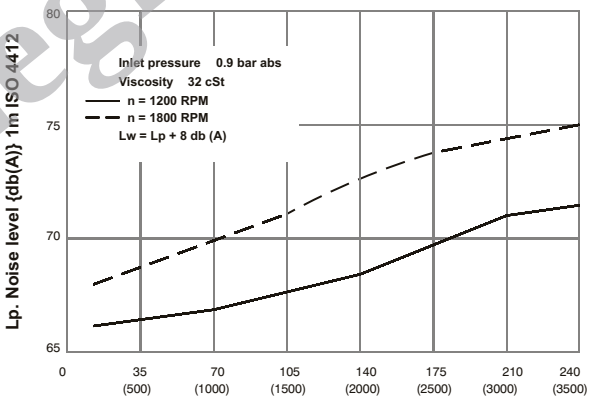
P = 1-1/2"	S = 3"	
	UNC	METRIC
VT7E		M0
VT7ES	00	M0

Modifications

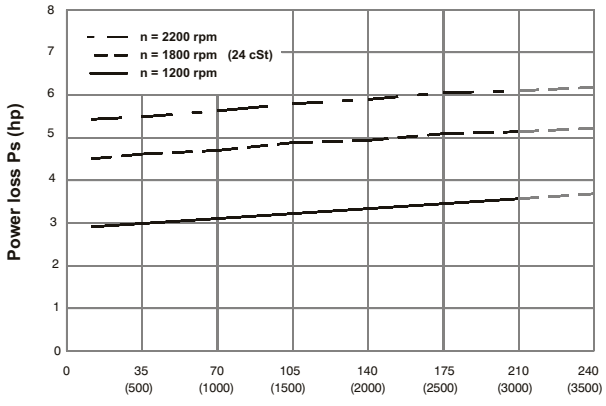
INTERNAL LEAKAGE (TYPICAL)



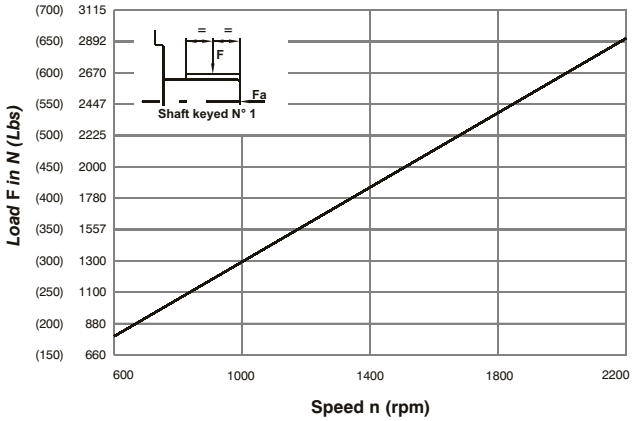
NOISE LEVEL (TYPICAL)
VT7E- 050



HYDROMECHANICAL POWER LOSS (TYPICAL)

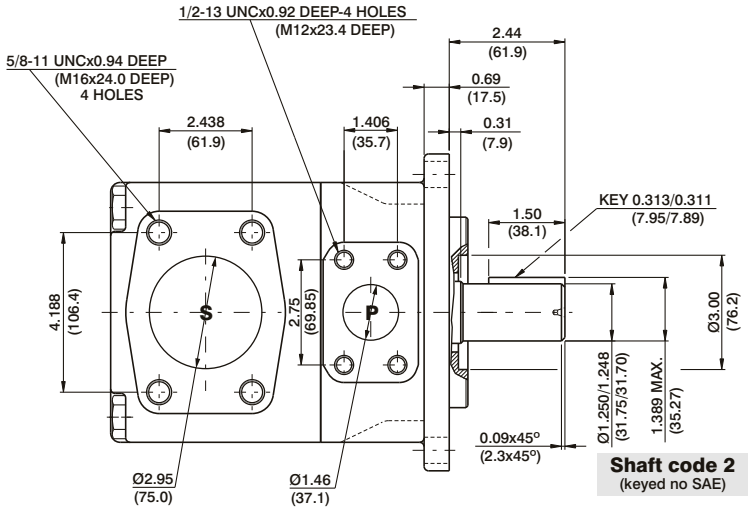


PERMISSIBLE RADIAL LOAD

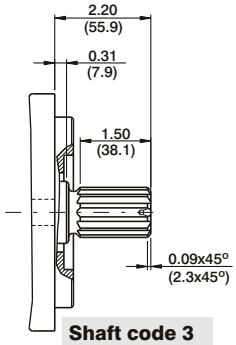


Maximum axial load permissible **Fa** = 2000 N (449 Lbs)

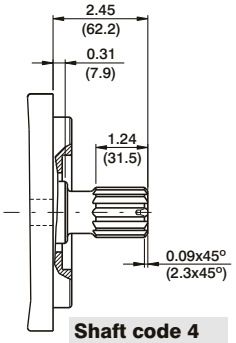
SP



Shaft code 2
(keyed no SAE)

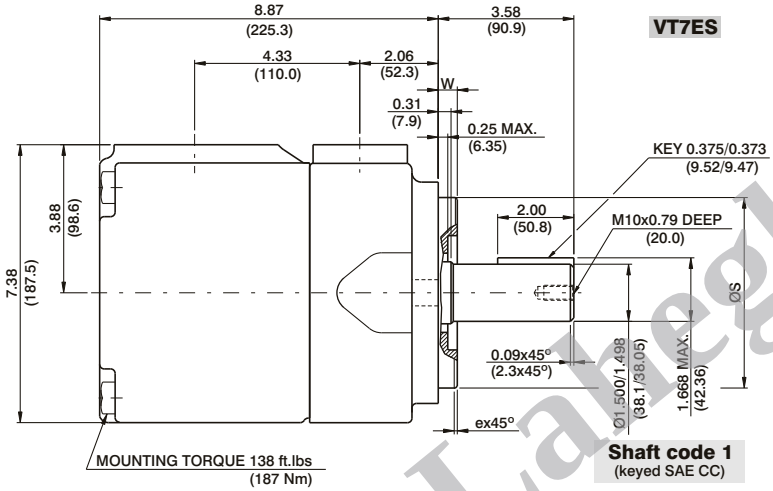


Shaft code 3
SAE C splined shaft
Class 1-J498b
12/24 dp. 14 teeth
30° pressure angle
flat root side fit

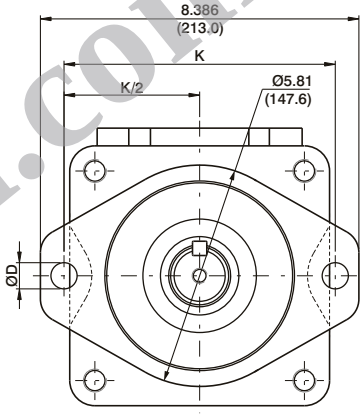


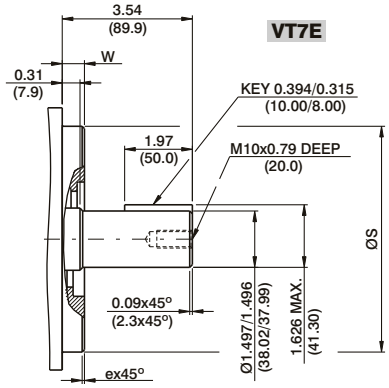
Shaft code 4
SAE CC splined shaft
Class 1-J498b
16/32 dp. 17 teeth
30° pressure angle
flat root side fit

VT7ES



Shaft code 1
(keyed SAE CC)





VT7E

Shaft code 5
(Keyed ISO R775 - G38M)

Shaft torque limits in³/rev x psi (ml/rev x bar)	
Shaft	Vp x p max.
1	48273 (54555)
2	30638 (34590)
3	54207 (61200)
4	54207 (61200)
5	48273 (54555)

Alternate mounting flange						
Series	ØS		ex45°	W	K	ØD
	MAX.	Min.				
VT7E	4.921 (124.99)	4.919 (124.94)	0.079 (2.0)	0.374 (9.49)	7.087 (180.0)	0.709 (18.0)
VT7ES	5.00 (127.00)	4.998 (126.94)	0.051 (1.3)	0.50 (12.7)	7.126 (181.0)	0.689 (17.5)

OPERATING CHARACTERISTICS - TYPICAL (24 cST)

Pressure port	Series	Volumetric Displacement Vp		Flow q & n = 1800 rpm						Input power p & n = 1800 rpm					
				p = 0 bar (0 psi)		p = 140 bar (2000 psi)		p = 240 bar (3500 psi)		p = 7 bar (100 psi)		p = 140 bar (2000 psi)		p = 240 bar (3500 psi)	
		in³/rev	cm³/rev	gpm	lpm	gpm	lpm	gpm	lpm	hp	kw	hp	kw	hp	kw
VT7E VT7ES	042	8.07	132.2	62.92	237.8	60.37	228.2	58.52	221.2	8.09	6.03	78.44	58.49	133.80	99.77
	045	8.70	142.5	67.72	255.9	65.17	246.3	63.32	239.3	8.37	6.24	84.04	62.66	143.60	107.08
	050	9.67	158.5	75.38	284.9	72.83	275.3	70.98	268.3	8.82	6.58	92.97	69.32	159.24	118.75
	052	10.00	163.8	78.37	296.2	75.82	286.6	73.97	279.6	8.99	6.70	96.47	71.94	165.36	123.31
	054	10.43	170.9	81.27	307.2	78.72	297.6	76.87	290.6	9.17	6.84	99.75	74.38	177.46	132.33
	057	11.18	183.2	87.12	329.3	84.57	319.7	82.72	312.7	9.51	7.09	106.57	79.47	189.84	141.56
	062	12.00	196.6	93.54	353.6	90.99	343.9	89.14	336.9	9.88	7.37	114.17	85.13	196.34	146.41
	066	13.00	213.0	101.44	383.4	98.89	373.8	97.04	366.8	10.34	7.71	123.38	92.0	212.46	158.43
	072	13.86	227.1	108.00	408.2	105.45	398.6	103.60	391.6	10.72	7.99	131.04	97.71	225.86	166.42
	085 [1]	16.40	268.7	127.79	483.0	126.13	476.7	--	--	11.88	8.85	101.66	75.80	--	--

1) 085 = 90 bar (1300 psi) max.int. & 085 = 2000 rpm max.

* special 3"1/2 (3.5 dia) suction also available - Please contact VELJAN