

Series VT6E * * - 066 - 3 R 00 - B 1 *

M = Mobile 1 shaft seal
P = Mobile 2 shaft seal
Y - Metric port connection, Omit for UNC

Cam ring
 Volumetric displacement cm³/rev (in³/rev)
 * 042/R42 = 132.3 (8.07)
 045/R45 = 142.4 (8.69)
 050/R50 = 158.5 (9.67)
 052/R52 = 164.8 (10.06)
 057/R57 = 180.7 (11.02)
 062/R62 = 196.7 (12.00)
 066/R66 = 213.3 (13.02)
 072/R72 = 227.1 (13.86)
 085/R85 = 269.8 (16.46)
 'R' - for Mobile - spring assisted

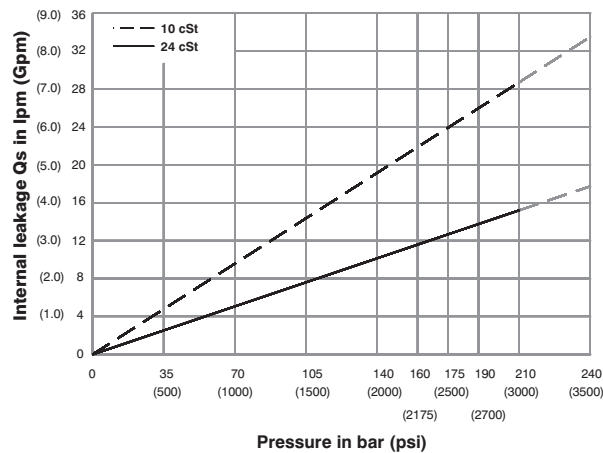
Type of shaft
M version
 1 - keyed (SAE CC)
 2 - keyed (no SAE)
 3 - splined (SAE C)
 4 - splined (SAE CC)
 T - splined (SAE J718c)
P version
 3 - splined (no SAE)
 4 - splined (SAE CC)

Modifications
Seal class
 1 - S1 (for mineral oil)
 4 - S4 (for fire resistant fluids)
 5 - S5 (for mineral oil and fire resistant fluids)
Design letter
Porting combination
 00 - standard
 01
 02
 03

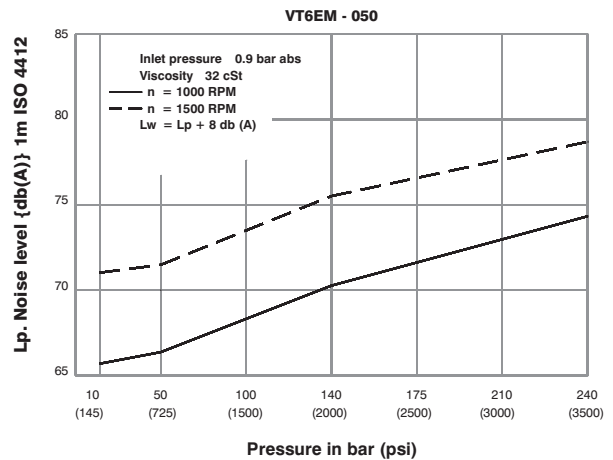
S - Suction port **P** - Pressure port
Direction of rotation (view on shaft end)
 R - clockwise
 L - counter-clockwise

VP
SP

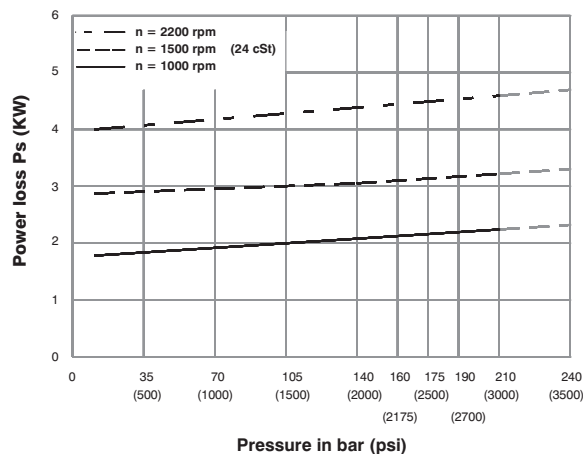
INTERNAL LEAKAGE (TYPICAL)



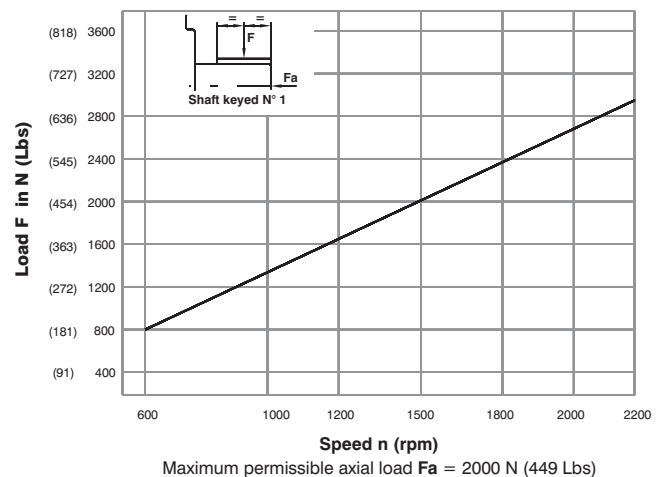
NOISE LEVEL (TYPICAL)

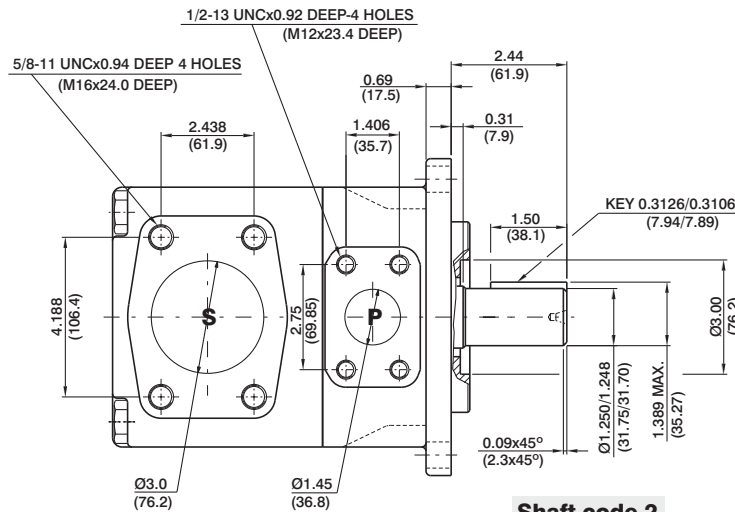


HYDROMECHANICAL POWER LOSS (TYPICAL)

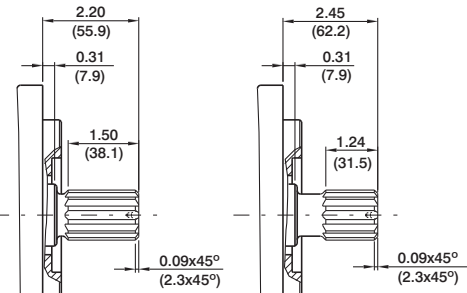


PERMISSIBLE RADIAL LOAD



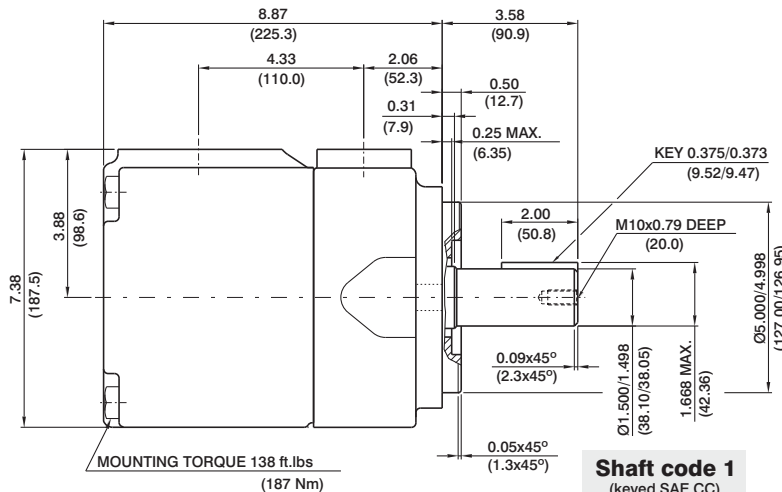


Shaft code 2
(keyed no SAE)

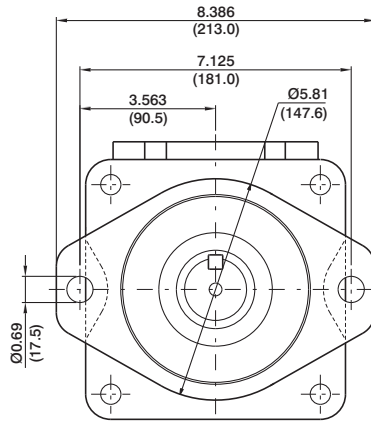


Shaft code 3
SAE C splined shaft
Class 1-J498b
12/24 dp. 14 teeth
30° pressure angle
flat root side fit

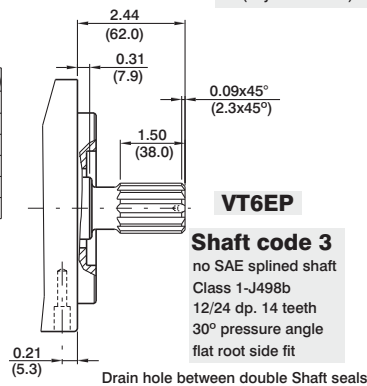
Shaft code 4
SAE CC splined shaft
Class 1-J498b
12/24 dp. 17 teeth
30° pressure angle
flat root side fit



Shaft code 1
(keyed SAE CC)

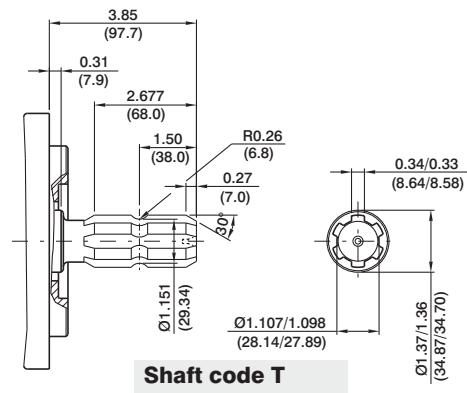


Shaft torque limits in ³ /rev x psi (ml/rev x bar)	
Shaft	Vp x p max.
1	48273 (54555)
2	30638 (34590)
3	54207 (61200)
4	54207 (61200)
T	62356 (70400)



VT6EP

Shaft code 3
no SAE splined shaft
Class 1-J498b
12/24 dp. 14 teeth
30° pressure angle
flat root side fit



Shaft code T
SAE J718C
540 rpm power take-off
For Farm Tractor application

OPERATING CHARACTERISTICS - TYPICAL (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 = 240 bar (3500 psi)		p = 7 bar (100 psi)		p = 140 bar (2000 psi)		p = 240 bar (3500 psi)	
		in ³ /rev	cm ³ /rev	gpm	lpm	gpm	lpm	gpm	lpm	hp	kw	hp	kw	hp	kw
VT6EM VT6EP	042	8.07	132.3	52.50	198.5	49.87	188.5	47.96	181.3	6.97	5.2	66.25	49.4	110.77	82.6
	045	8.70	142.4	56.51	213.6	53.86	203.6	51.98	196.5	7.24	5.4	70.94	52.9	118.95	88.7
	050	9.67	158.5	62.88	237.7	60.24	227.7	58.36	220.6	7.64	5.7	78.45	58.5	131.82	98.3
	052	10.00	164.8	65.40	247.2	62.75	237.2	60.87	230.1	7.78	5.8	81.53	60.8	136.92	102.1
	057	11.02	180.7	71.71	271.1	69.07	261.1	67.19	254.0	8.18	6.1	89.04	66.4	143.35	106.9
	062	12.00	196.7	78.04	295.0	75.40	285.0	73.52	277.9	8.58	6.4	96.42	71.9	162.67	121.3
	066	13.00	213.3	84.63	319.9	81.98	309.9	80.11	302.8	8.98	6.7	104.20	77.7	175.94	131.2
	072	13.86	227.1	90.11	340.6	87.46	330.6	85.58	323.5	9.25	6.9	110.77	82.6	187.07	139.5
	085 ^{1,2)}	16.40	269.8	107.00	404.7	105.21	397.7	--	--	9.78	7.3	87.56	65.3	--	--

1) 085 = 2000 RPM max.

2) 085 = 75 bar (1100 psi) cont.

085 = 90 bar (1300 psi) max. int.