

HIGH PERFORMANCE VANE MOTOR M3B / M3B1

M3B1
M3B - 036 - 1 N 00 - B 1 01 *

Series external drain _____

Series internal drain _____

Torque _____

009 = 0.130 Nm/bar
012 = 0.186 Nm/bar
018 = 0.304 Nm/bar
027 = 0.485 Nm/bar
036 = 0.624 Nm/bar

Type of shaft _____

1 - keyed (no SAE)
3 - splined (SAE A)
4 - splined (SAE B)

Rotation _____

N - bi-directional

View from shaft end:

CW rotation A = inlet
B = outlet

CCW rotation A = outlet
B = inlet

Modifications

Port connections

00 = SAE threaded port
SAE drain

01 = SAE 4 bolt flange
BSPP drain

02 = BSPP threaded port
BSPP drain

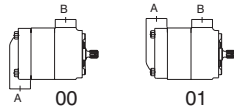
Seal class

1 - S1
4 - S4
5 - S5

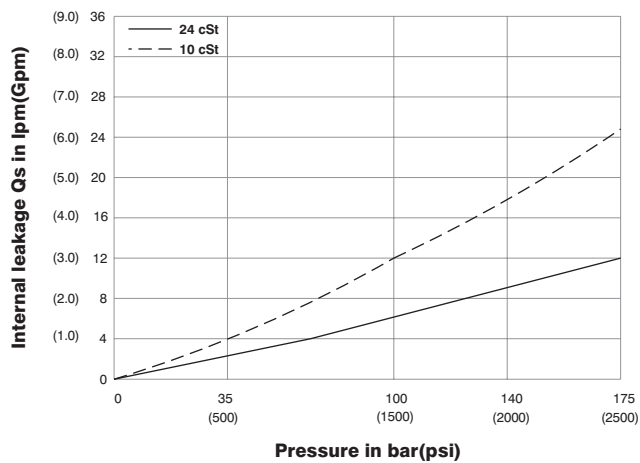
Design letter

Porting combination

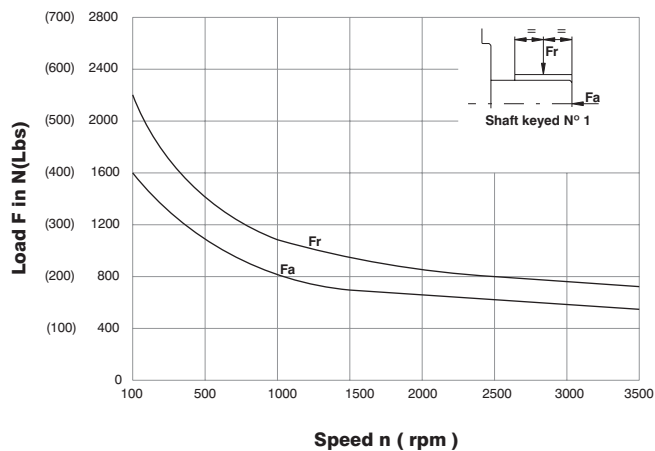
00 - standard



INTERNAL LEAKAGE



PERMISSIBLE RADIAL AND AXIAL LOADS



Do not apply Fr and Fa loads simultaneously

OPERATING CHARACTERISTICS - TYPICAL (24 cSt)

Model	Series	Volumetric Displacement Vi		Input flow at n = 2000 rpm				Torque T at n = 2000 rpm		Power output at n = 2000 rpm	
				Theoretical		at 175 bar (2500 psi)Δp		at 175 bar (2500 psi)Δp		at 175 bar (2500 psi)Δp	
		in³/rev	cm³/rev	GPM	l/min	GPM	l/min	in.lbf	Nm	HP	KW
VM3B	009	0.56	9.2	4.9	18.4	8.0	30.4	174.3	19.7	5.8	4.3
	012	0.75	12.3	6.5	24.6	9.7	36.6	236.3	26.7	7.8	5.8
	018	1.13	18.5	9.8	37.0	12.9	49.0	412.4	46.6	13.4	10.0
	027	1.70	27.8	14.7	55.6	17.8	67.6	680.5	77.4	21.8	16.3
	036	2.26	37.1	19.6	74.2	22.8	86.2	902.6	102.0	28.3	21.1

