

HIGH PERFORMANCE VANE MOTOR M4C / M4SC

M4*C1

M4*C - 067 - 1 N 00 - A 1 02 *

Series external drain

Series internal drain

Torque

024 = 0.39 Nm/bar
027 = 0.45 Nm/bar
031 = 0.55 Nm/bar
043 = 0.74 Nm/bar
055 = 0.93 Nm/bar
067 = 1.13 Nm/bar
075 = 1.27 Nm/bar

Type of shaft

1 - keyed (SAE B)
2 - keyed (no SAE)
3 - splined (SAE B)

Rotation

N - Bi-directional

* S = Severe duty motor

VM4C1-VM4SC1 : Drain port is plugged

View from shaft end:

CW rotation A = inlet B = outlet

CCW rotation A = outlet B = inlet

Modifications

Port connections

01 = SAE threaded port
SAE drain

02 = SAE 4 bolt flange
UNC threaded - SAE drain

04 = SAE 4 bolt flange
UNC threaded - BSPP drain

M4 = SAE 4 bolt flange
metric threaded - BSPP drain

Seal class

1 - S1 (VM4C)

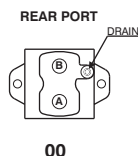
5 - S5 (VM4SC)

Design letter

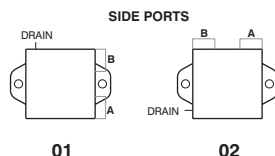
Porting combination

00 - standard

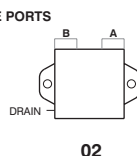
Porting combination



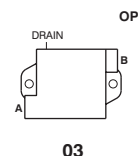
00



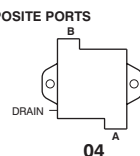
01



02

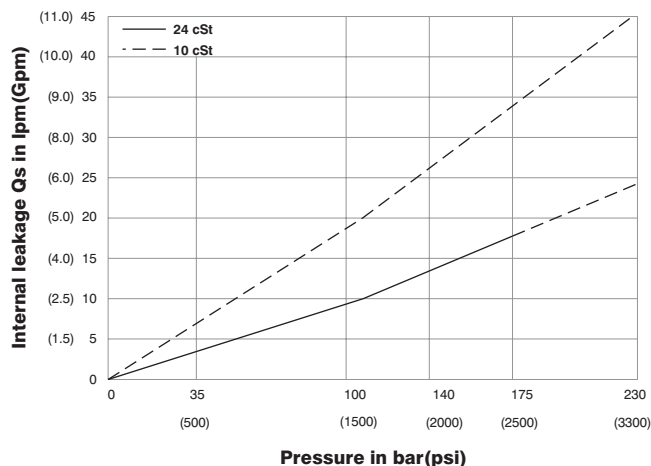


03

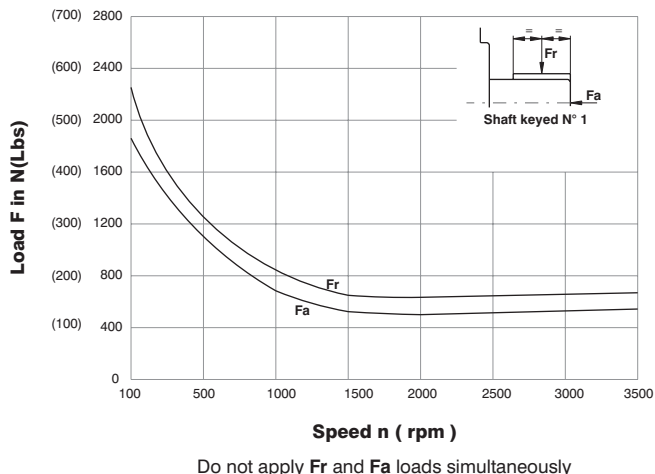


04

INTERNAL LEAKAGE

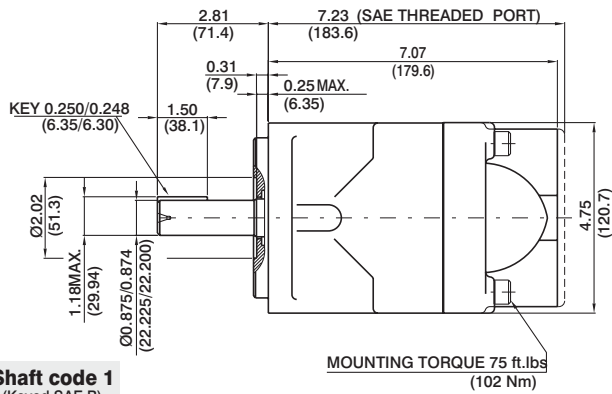


PERMISSIBLE RADIAL AND AXIAL LOADS

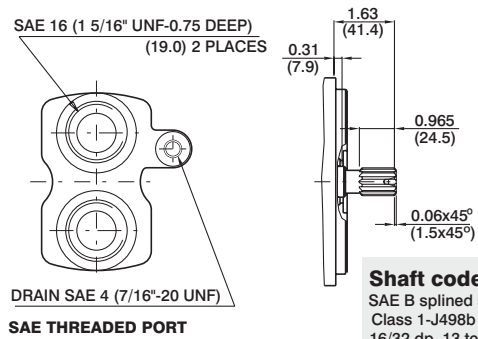


OPERATING CHARACTERISTICS - TYPICAL (24 cSt)

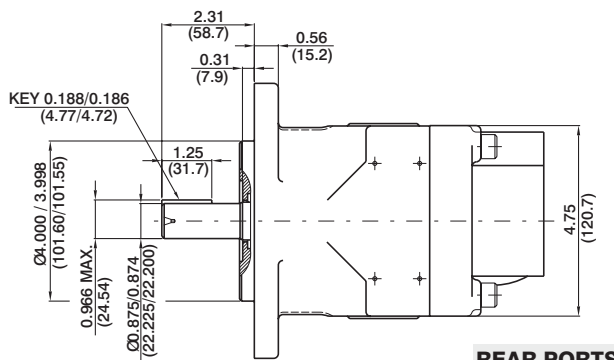
Model	Series	Volumetric Displacement Vi		Input flow at n = 2000 rpm				Torque T at n = 2000 rpm		Power output at n = 2000 rpm	
				Theoretical		at 175 bar (2500 psi) Δp		at 175 bar (2500 psi) Δp		at 175 bar (2500 psi) Δp	
		in ³ /rev	cm ³ /rev	GPM	l/min	GPM	l/min	in.lbf	Nm	HP	KW
VM4C-VM4SC	024	1.49	24.4	13.0	49.0	17.7	67.0	535.4	60.5	17.0	12.7
	027	1.72	28.2	14.8	56.0	19.5	74.0	619.5	70.0	19.7	14.7
	031	2.11	34.5	18.5	69.0	23.2	87.0	768.0	86.8	24.0	18.0
	043	2.84	46.5	24.6	93.0	29.3	111.0	1062.0	120.0	33.6	25.1
	055	3.59	58.8	31.2	118.0	36.0	136.0	1318.6	149.0	41.8	31.2
	067	4.34	71.1	37.5	142.0	42.3	160.0	1504.5	170.0	47.7	35.6
	075	4.89	80.1	42.3	160.0	47.0	178.0	1752.2	198.0	55.6	41.5



Shaft code 1
(Keyed SAE B)

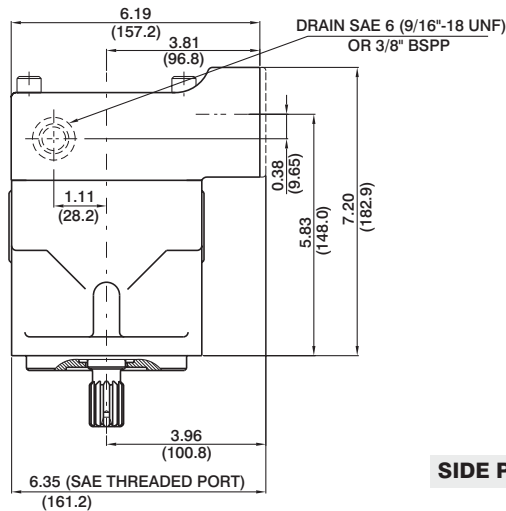
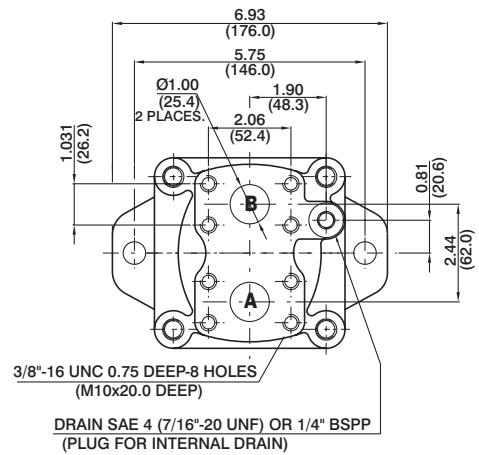


Shaft code 3
SAE B splined shaft
Class 1-J498b
16/32 dp. 13 teeth
30° pressure angle
flat root side fit

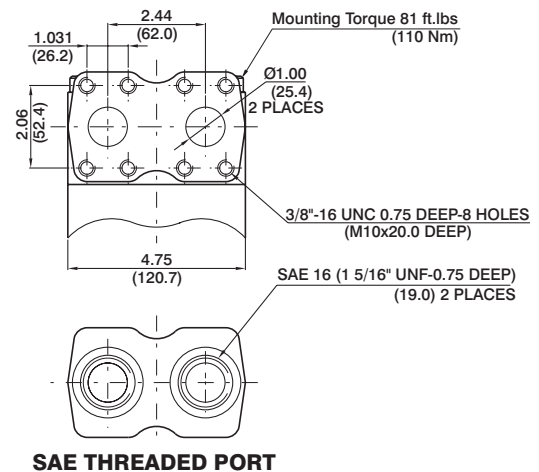


Shaft code 2
(Keyed no SAE)

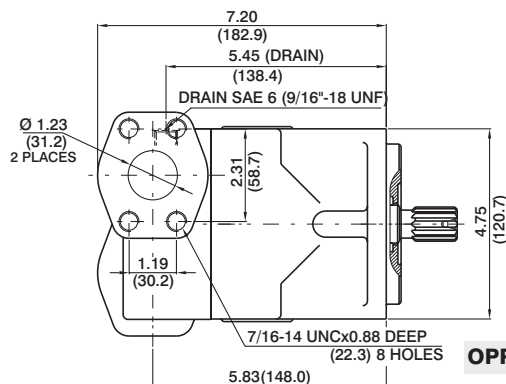
REAR PORTS



SIDE PORTS



SAE THREADED PORT



OPPOSITE PORTS

