

M4*D1
M4*D - 138 - 1 N 00 - B 1 02 *

Series external drain _____
Series internal drain _____
Torque _____
 062 = 1.04 Nm/bar
 074 = 1.22 Nm/bar
 088 = 1.45 Nm/bar
 102 = 1.68 Nm/bar
 113 = 1.86 Nm/bar
 128 = 2.11 Nm/bar
 138 = 2.30 Nm/bar

Type of shaft _____
 1 - keyed (SAE C)
 3 - splined (SAE C)
 S - splined (SAE J718c)

Rotation _____
 N - Bi-directional

* S = Severe duty motor
 VM4D1-VM4SD1 : Drain port is plugged

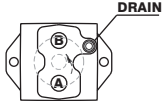
View from shaft end:
 CW rotation A = inlet B = outlet
 CCW rotation A = outlet B = inlet

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

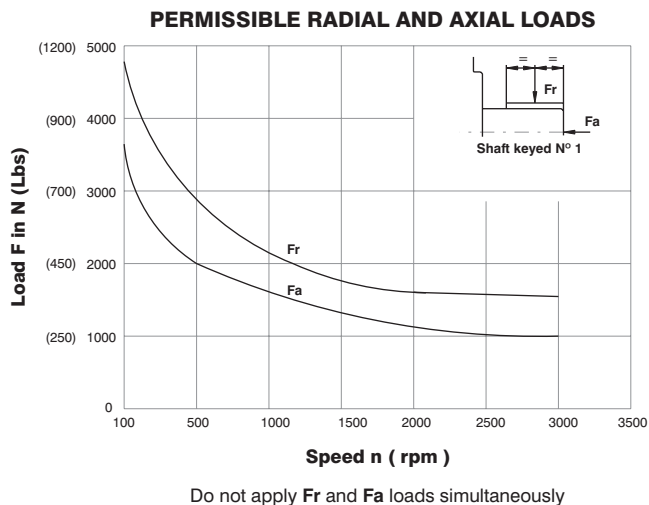
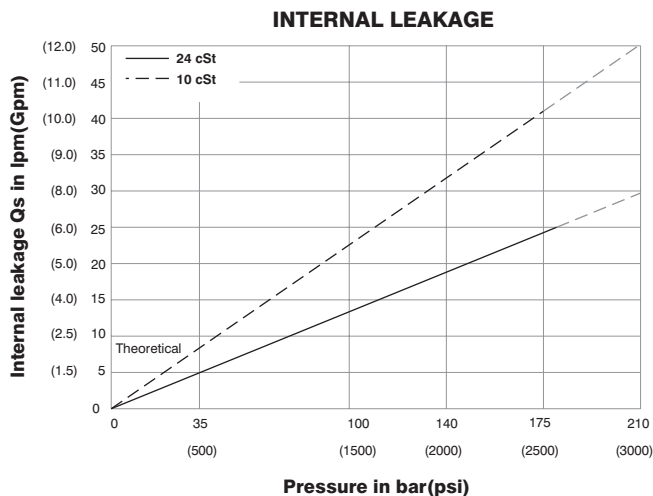
Seal class
 1 - S1 (VM4D)
 5 - S5 (VM4SD)

Design letter

Porting combination
 00 - standard

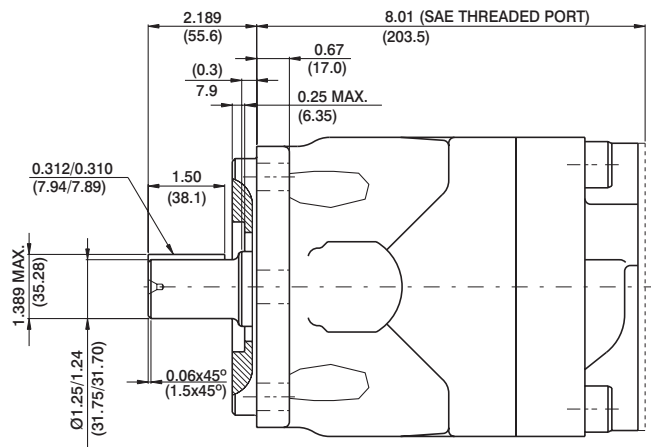


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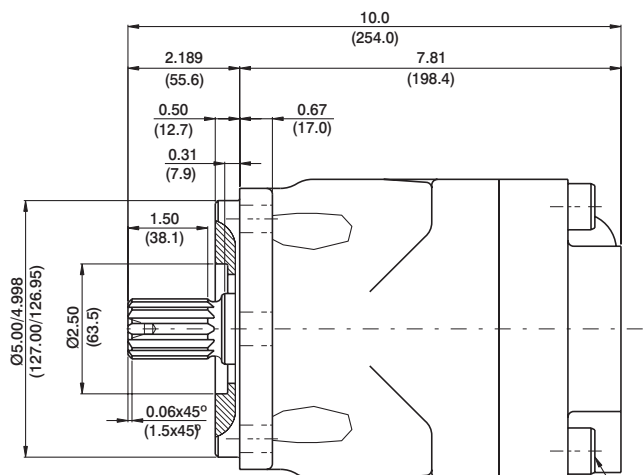
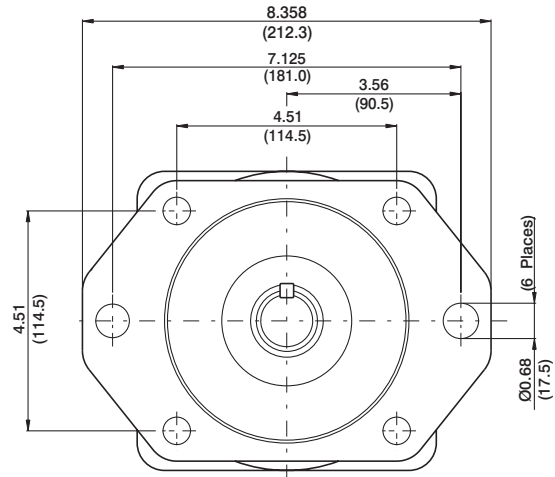


OPERATING CHARACTERISTICS - TYPICAL (24 cSt)

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
VM4D-VM4SD	062	3.97	65.1	33.8	130.0	40.0	154.0	1460.0	165.0	46.4	34.6
	074	4.69	76.8	41.5	154.0	47.8	178.0	1770.0	200.0	56.2	41.9
	088	5.56	91.1	48.0	182.0	54.4	206.0	2088.5	236.0	66.2	49.4
	102	6.44	105.5	55.5	211.0	61.8	241.0	2336.3	264.0	74.1	55.3
	113	7.12	116.7	61.5	233.0	67.9	257.0	2655.0	300.0	84.2	62.8
	128	8.08	132.4	70.0	265.0	76.3	289.0	3009.0	340.0	95.5	71.2
	138	8.81	144.4	76.3	289.0	82.7	313.0	3292.0	372.0	104.5	77.9



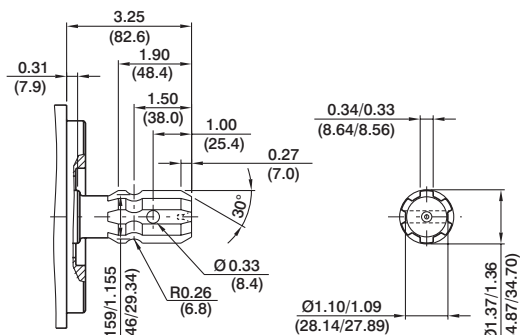
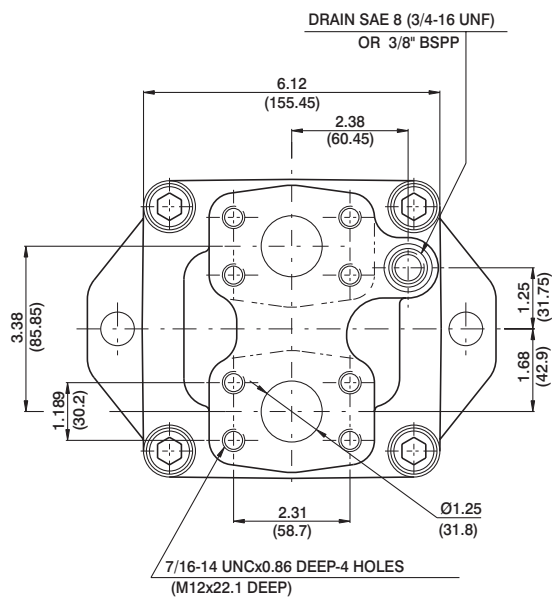
Shaft code 1
(Keyed SAE C)



Shaft code 3

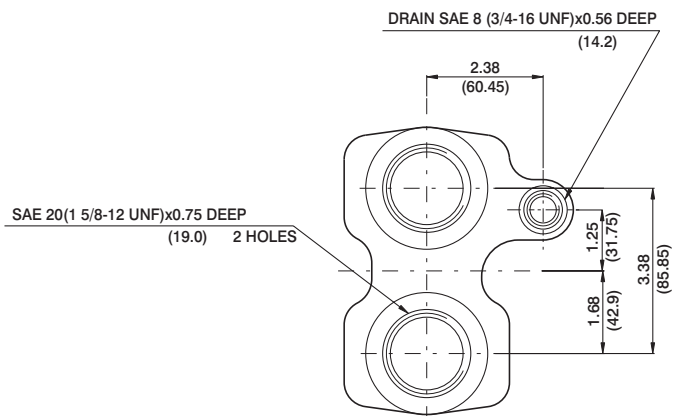
SAE C splined shaft
Class 1-J498b
12/24 dp. 14 teeth
30° pressure angle
Flat root side fit

MOUNTING TORQUE 133 ft.lbs
(180 Nm)



Shaft code S

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



SAE THREADED PORT