



AM4C – AM4D

ANFIELD MEDIUM DUTY
HYDRAULIC
VANE MOTORS

AM4C

Brand Name: Denison Hydraulics **M4C, M4SC** **Anfield**
Type: Single Vane Motor

Model:	
M4C	AM4C
M4C, M4SC External Drain (S: Severe duty)	✓
M4C1, M4SC1 Internal Drain (Drain plugged)	50 pcs min. order
Application: M4C - Medium Duty (175 bar, 2500 psi)	
Mtg Interface: SAE-B 2-bolts J744c 101-2 (Ø4"pilot)	
Speed: up to 3600 rpm (Intermittent speed)	
Displacements: (cc/rev) / torque (Nm/bar):	
024 : 24,4 cc/rev = 0,39 Nm/bar	✓
027 : 28,2 cc/rev = 0,45 Nm/bar	✓
031 : 34,5 cc/rev = 0,55 Nm/bar	✓
043 : 46,5 cc/rev = 0,74 Nm/bar	✓
055 : 58,8 cc/rev = 0,93 Nm/bar	✓
067 : 71,1 cc/rev = 1,13 Nm/bar	✓
075 : 80,1 cc/rev = 1,27 Nm/bar	✓

Type of Shaft:	
1 : keyed (SAE B) Ø 7/8" (22.22)	✓
2 : keyed (non SAE) Ø 7/8" (22.22)	✗
3 : splined (SAE B) 16/32 D.P.-13T, 7/8"	✓

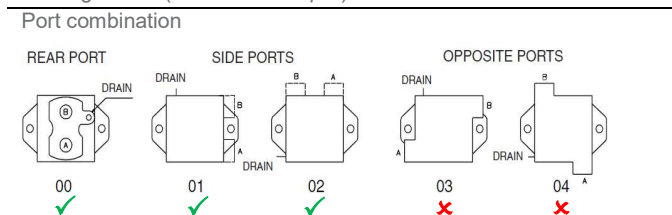
Direction of Rotation:	
N : Bi-rotational	✓

Porting combination:	see diag. below
00 : Rear (Standard)	✓
01 : Side Ports inline with flange	✓
02 : Side Ports perpendicular to flange	✓
03 : Opposite Ports inline with flange	✗
04 : Opposite Ports perpendicular to flange	✗

Seal Class:	
1 : S1 - BUNA N (M4C)	✓
5 : S5 - VITON (M4SC)	✓

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	✗

example part number: AM4C-075-1N00-**A**102
A design letter (omit in Anfield p/n) AM4C-075-1N00-102



Anfield:
available ✓; not available ✗;
Min. order required: 50 pcs

AM4D

Brand Name: Denison Hydraulics **M4D, M4SD** **Anfield**
Type: Single Vane Motor

Model:	
M4D	AM4D
M4D, M4SD external drain (S=Severe duty)	✓
M4D1, M4SD1 internal drain (Drain plugged)	50 pcs min. order
Application: M4D - Medium Duty (175 bar, 2500 psi)	
Mtg Interface: SAE-C 2-bolts J744c 127-2 (Ø5" pilot)	
Speed: up to 3000 rpm (Intermittent speed)	
Displacements: (cc/rev) / torque (Nm/bar):	
062 : 65,1 cc/rev = 1,04 Nm/bar	✓
074 : 76,8 cc/rev = 1,22 Nm/bar	✓
088 : 91,0 cc/rev = 1,45 Nm/bar	✓
102 : 105,5 cc/rev = 1,68 Nm/bar	✓
113 : 116,7 cc/rev = 1,86 Nm/bar	✓
128 : 132,4 cc/rev = 2,11 Nm/bar	✓
138 : 144,4 cc/rev = 2,30 Nm/bar	✓

Type of Shaft:	
1 : keyed (SAE C) Ø 1-1/4" (31.75)	✓
3 : splined (SAE C) 12/24 D.P.-14T, 1-1/4"	✓

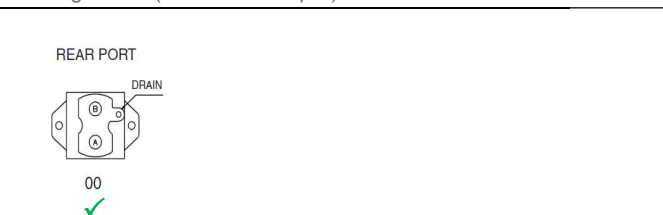
Direction of Rotation:	
N : Bi-rotational	✓

Porting combination:	see diag. below
00 : Rear (Standard)	✓

Seal Class:	
1 : S1 - BUNA N (M4D)	✓
5 : S5 - VITON (M4SD)	✓

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	✗

example part number: M4D-128-1N00-**B**102
B design letter (omit in Anfield p/n) AM4D-128-1N00-102

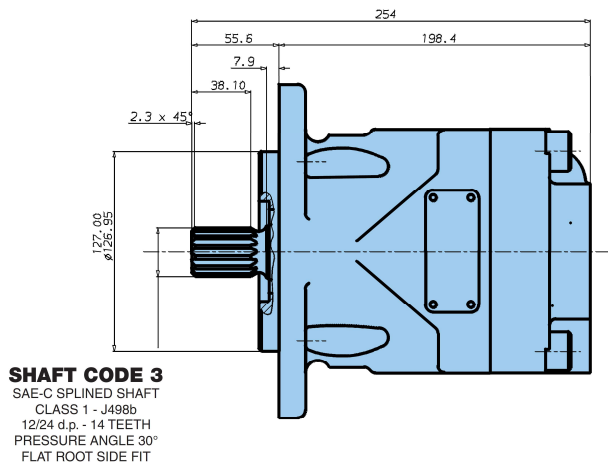
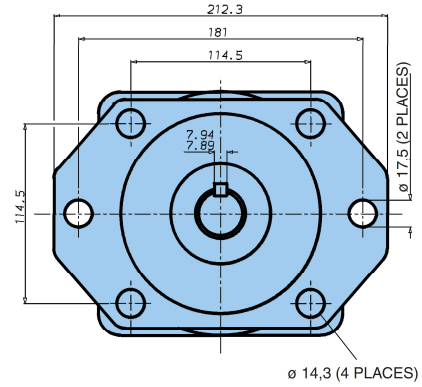
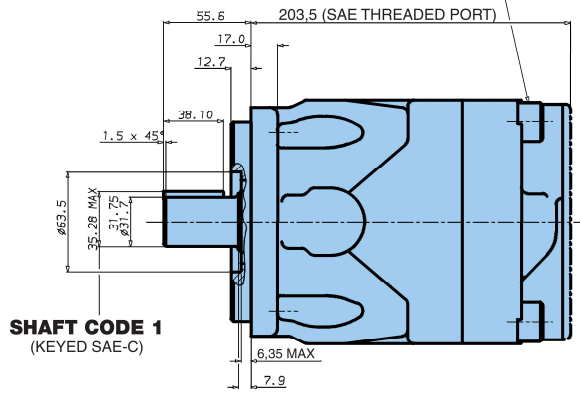


Anfield: available ✓; not available ✗

AM4D

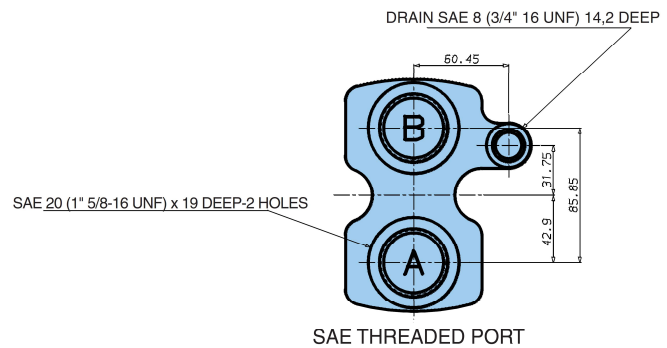
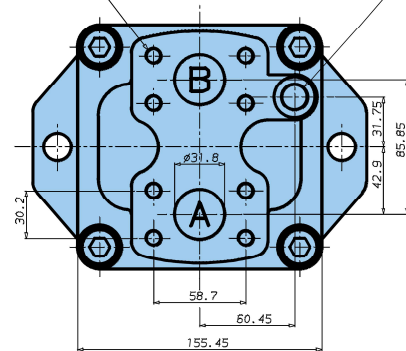
Weight 27.0 kg

MOUNTING TORQUE: 180 N.m



7/16"-14 UNC x 22 DEEP - 8 HOLES
(M12 x 22,1 DEEP-METRIC VERSION)

DRAIN SAE 8 (3/4"-16 UNF) OR 3/8" BSPP



AM4C

Anfield Model	Volumetric displacement V_i		Input flow at n = 2000 RPM				Torque T at n = 2000 RPM		Power output at n = 2000 RPM	
			Theoretical		at 175 bar D p		at 175 bar D p		at 175 bar D p	
	ml/rev.	in ³ /rev.	l/min	gpm	l/min	gpm	Nm	lbf.in	kW	hp
AM4C-AM4SC 024	24.4	1.49	49.0	12.9	67.0	17.7	60.5	535.5	12.7	17.0
AM4C-AM4SC 027	28.2	1.72	56.0	14.8	74.0	19.5	70.0	619.6	14.7	19.7
AM4C-AM4SC 031	34.5	2.11	69.0	18.2	87.0	23.0	86.8	768.2	10.8	14.5
AM4C-AM4SC 043	46.5	2.84	93.0	24.6	110.0	29.1	120.0	1062.1	25.1	33.7
AM4C-AM4SC 055	58.8	3.59	118.0	31.2	136.0	35.9	149.0	1318.8	31.2	41.8
AM4C-AM4SC 067	71.1	4.34	142.0	37.5	160.0	42.3	170.0	1504.6	35.6	47.7
AM4C-AM4SC 075	80.1	4.89	160.0	42.3	178.0	47.0	198.0	1752.4	41.5	55.7

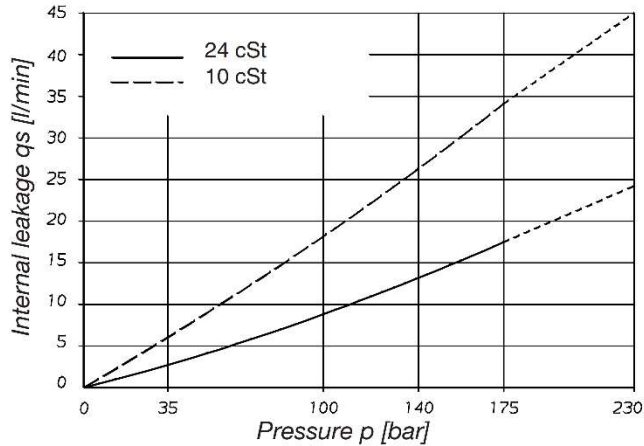
AM4D

Anfield Model	Volumetric displacement V_i		Input flow at n = 2000 RPM				Torque T at n = 2000 RPM		Power output at n = 2000 RPM	
			Theoretical		at 175 bar D p		at 175 bar D p		at 175 bar D p	
	ml/rev.	in ³ /rev.	l/min	gpm	l/min	gpm	Nm	lbf.in	kW	hp
AM4D-AM4SD 062	65.1	3.97	130.0	34.3	154.0	40.7	165.0	1460.4	34.6	46.4
AM4D-AM4SD 074	76.8	4.69	154.0	40.7	178.0	47.0	200.0	1770.2	41.9	56.2
AM4D-AM4SD 088	91.0	5.55	182.0	48.1	206.0	54.4	236.0	2088.8	49.4	66.2
AM4D-AM4SD 102	105.5	6.44	211.0	55.7	241.0	63.7	264.0	2336.6	55.3	74.2
AM4D-AM4SD 113	116.7	7.12	233.0	61.6	257.0	67.9	300.0	2655.2	62.8	84.2
AM4D-AM4SD 128	132.4	8.08	265.0	70.0	289.0	76.3	340.0	3009.3	71.2	95.5
AM4D-AM4SD 138	144.4	8.81	289.0	76.3	313.0	82.7	372.0	3292.5	77.9	104.5

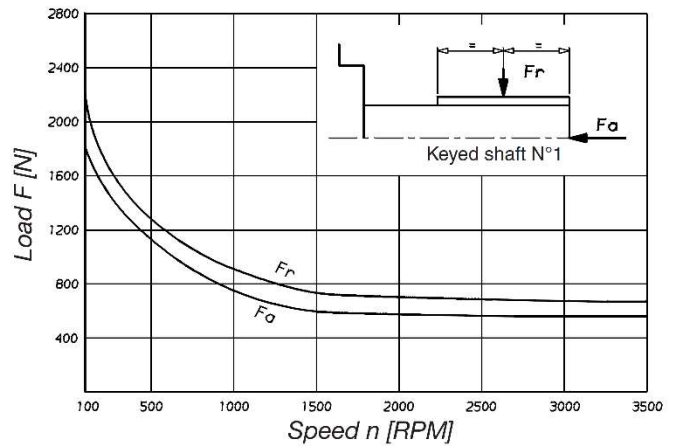
All displacement options in the AM4C and AM4D series are available.
All displacement options in the AM4SC and AM4SD series are available.

AM4C

INTERNAL LEAKAGE



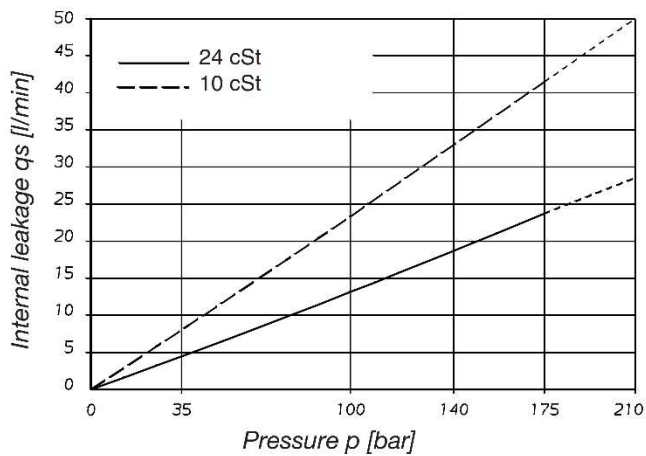
PERMISSIBLE RADIAL AND AXIAL LOADS



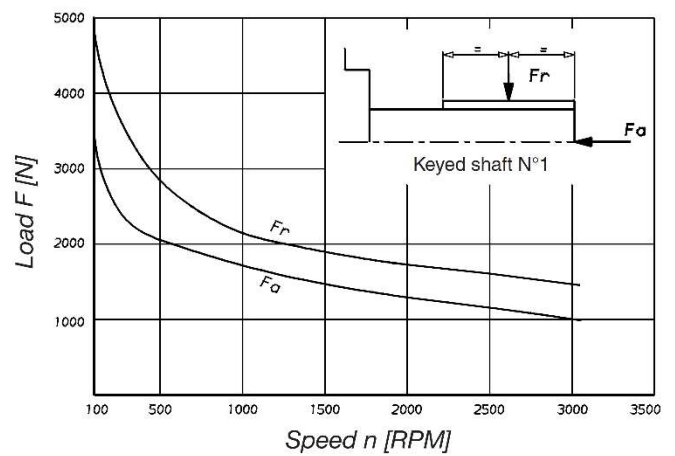
Do not apply F_r and F_a loads simultaneously

AM4D

INTERNAL LEAKAGE



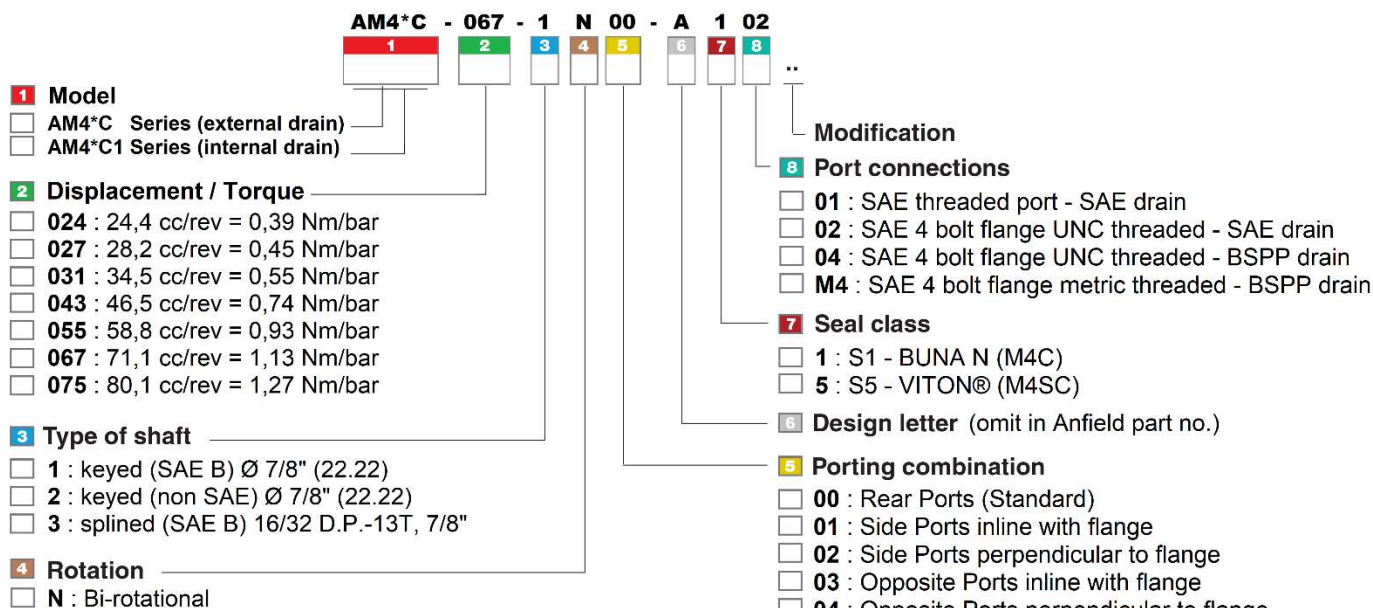
PERMISSIBLE RADIAL AND AXIAL LOADS



Do not apply F_r and F_a loads simultaneously

DESIGNATION & ORDERING CODE

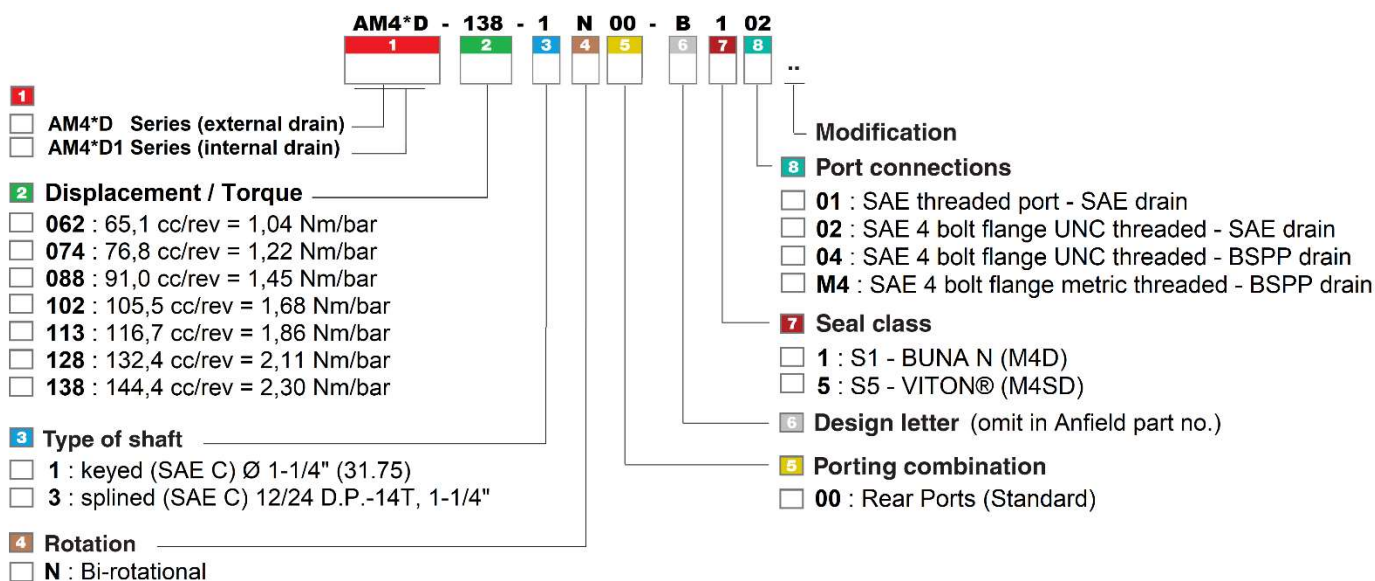
AM4C



* = S = Sever duty motor.

AM4C1 - AM4SC1: Drain port is plugged.

AM4D



* = S = Sever duty motor.

AM4D1 - AM4SD1: Drain port is plugged.

All displacement options in the AM4C and AM4D series are available.

All displacement options in the AM4SC and AM4SD series are available.