Orbital Motors

Low Speed, High Torque Motors

BMM

Series

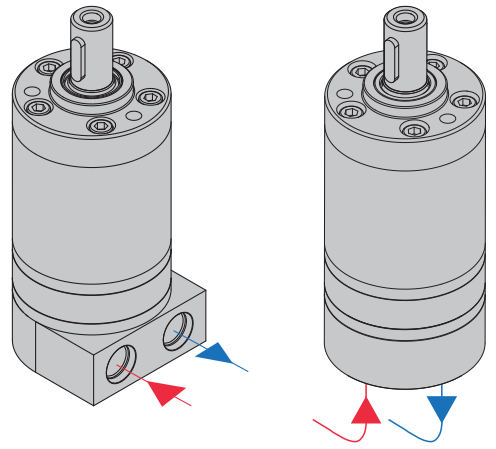
ANFIELD

Strength in Products,
Strength in Service

TABLE OF CONTENTS

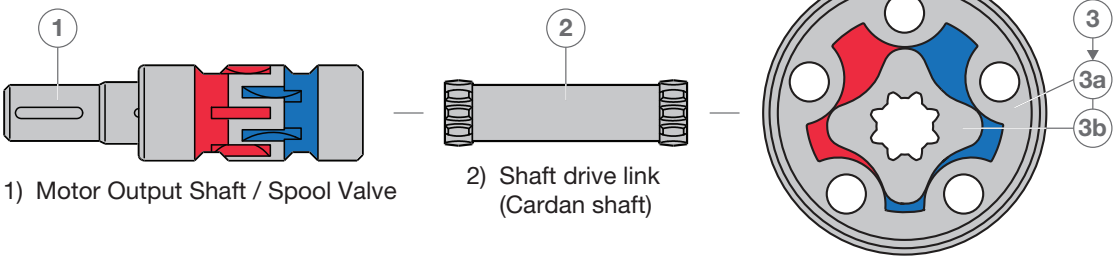
DESCRIPTION

Anfield BMM series motors offer a compact, lightweight and economical solution for gerotor designs while providing high efficiency across its performance range. BMM motors come in a selection of displacements, mounting, shafts and ports, providing design flexibility. BMM motors are compact and light weight with only three moving components, rotor (fig. 3b), drive link (fig. 2) and output shaft (fig. 1) making them an efficient and powerful motor in a compact package. Check valves integrated into the housing allow case pressure to drain internally. They are an ideal choice for light duty applications in either parallel or series systems.



BMM
Side Ports

BMM
End Ports



1) Motor Output Shaft / Spool Valve

2) Shaft drive link (Cardan shaft)

3) Rotor gear set
3a) Stator (ring)
3b) Rotor (star)

FEATURES

- Efficient, powerful and compact. Designed for light duty applications.
- Variety of displacements, with or without flange mounting options, shafts and port orientations provide flexibility in application design.
- Built-in check valves offer versatility and increased seal life.

TYPICAL APPLICATIONS

Food processing equipment, conveyors, textile machines, snow blower chute rotator, mining machinery, machine tools, industrial sweepers and floor polishers, turf equipment, construction plant equipment, access platforms, car wash tire brushes and more.

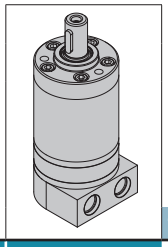
BMM MOTOR CROSS REFERENCE GUIDE

Brand	*Series*
Danfoss®	OMM
Eaton Char-Lynn®	J (129-)*
White®	WM (125/126)
Parker®	-

Brand	*Series*
M+S®	MLHM, MM
ROSS-TRW®	-
BREVINI - SAM®	BGM

* Char-Lynn J Series motors have Geroler construction gear set and if this feature is required please order Anfield JBMM series which has roller gear set (factory order).

TECHNICAL SPECIFICATIONS - BMM SERIES



			1	2	3	4	5	6
		BMM	8	12.5	20	32	40	50
Geometric Displacement	in^3/r		0.50	0.79	1.21	1.93	2.43	3.07
	cm^3/r		8.2	12.9	19.9	31.6	39.8	50.3
Max. Speed	rpm	Cont.	1950	1550	1000	630	500	400
		Inter.	2450	1940	1250	800	630	500
Max. Flow	gpm	Cont.	4.2	5.3	5.3	5.3	5.3	5.3
	l/min		16	20	20	20	20	20
		Inter.	5.3	6.6	6.6	6.6	6.6	6.6
			20	25	25	25	25	25
Max. Torque	lbf-ft	Cont.	8.1	11.8	18.5	29.5	33.2	34.0
	Nm		11	16	25	40	45	46
		Inter.	11.1	17.0	25.8	42.1	51.7	64.9
			15	23	35	57	70	88
		Peak	15.5	24.4	37.6	47.2	60.5	73.8
			21	33	51	64	82	100
Max. Pressure Drop	Δ psi	Cont.	1450	1450	1450	1450	1305	1015
	Δ bar		100	100	100	100	90	70
		Inter.	2030	2030	2030	2030	2030	2030
			140	140	140	140	140	140
		Peak	2900	2900	2900	2320	2320	2320
			200	200	200	160	160	160
Max. Output	hp	Cont.	2.4	3.2	3.2	3.2	2.9	2.4
	kW		1.8	2.4	2.4	2.4	2.2	1.8
		Inter.	3.5	4.3	4.3	4.3	4.3	4.3
			2.6	3.2	3.2	3.2	3.2	3.2
Weight	lbs		4.2	4.4	4.6	4.8	5.0	5.3
	kg		1.9	2.0	2.1	2.2	2.3	2.4

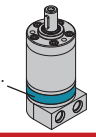
Notes:

1. Continuous rating (Cont.): motor may be run continuously at these ratings.
2. Intermittent operation (Inter.): 10% of every minute. (6 sec.)
3. Peak: 1% of every minute. (0.6 sec.)
4. Δ Pressure: Δ psi [Δ bar] True pressure difference between inlet port and outlet port.
5. Motor Power (HP) = (Torque Output (In. lbs.) x RPM) / 63025
6. Simultaneous maximum torque & maximum speed NOT recommended and may damage the motor.

PERFORMANCE DATA - BMM SERIES

BMM 8 — 0.5 in³/rev. (8.2 cm³/rev.)

Performance data is based on the motor displacement.

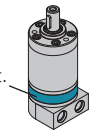


Torque lbf.ft (Nm) / Speed rpm	Δ Pressure psi (bar) ➡ 508 (35)	725 (50)	1015 (70)	Max. Cont. 1450 (100)	1740 (120)	Max. Inter. 2031 (140)
Flow gpm (l/min) 0.5 (2)	2.2 (3) 228	3.7 (5) 218	5.9 (8) 206	7.4 (10) 156	8.9 (12) 111	10.3 (14) 58
1.1 (4)	2.2 (3) 474	3.7 (5) 471	5.2 (7) 463	8.1 (11) 426	9.6 (13) 391	11.1 (15) 331
2.1 (8)	2.2 (3) 953	3.7 (5) 946	5.2 (7) 926	8.1 (11) 884	9.6 (13) 855	11.1 (15) 816
3.2 (12)	1.5 (2) 1444	3.7 (5) 1426	5.2 (7) 1402	7.4 (10) 1360	9.6 (13) 1324	11.1 (15) 1288
Max. Cont. 4.0 (15)		3.0 (4) 1912	5.2 (7) 1900	7.4 (10) 1861	8.9 (12) 1833	10.3 (14) 1780
Max. Inter. 5.3 (20)			4.4 (6) 2395	7.4 (10) 2350	8.1 (11) 2328	10.3 (14) 2281

Continuous values — Intermittent values (max 10% operation every minute)

BMM 12.5 — 0.8 in³/rev. (12.9 cm³/rev.)

Performance data is based on the motor displacement.



Torque lbf.ft (Nm) / Speed rpm	Δ Pressure psi (bar) ➡ 508 (35)	725 (50)	1015 (70)	Max. Cont. 1450 (100)	1740 (120)	Max. Inter. 2031 (140)
Flow gpm (l/min) ⬇ 0.5 (2)	4.4 (6) 140	5.9 (8) 136	8.1 (11) 119	11.8 (16) 68	14.0 (19) 35	
1.1 (4)	4.4 (6) 296	5.9 (8) 289	8.9 (12) 274	12.5 (17) 229	14.0 (19) 200	17.0 (23) 145
2.1 (8)	3.7 (5) 605	5.9 (8) 596	8.9 (12) 583	12.5 (17) 543	14.8 (20) 514	17.7 (24) 469
3.2 (12)	3.7 (5) 912	5.9 (8) 905	8.1 (11) 895	11.8 (16) 859	14.8 (20) 834	17.7 (24) 784
4.0 (15)	3.7 (5) 1152	5.2 (7) 1144	8.1 (11) 1136	11.8 (16) 1102	14.0 (19) 1078	17.0 (23) 1036
Max. Cont. 5.3 (20)	2.2 (3) 1542	5.2 (7) 1532	7.4 (10) 1521	11.1 (15) 1500	14.0 (19) 1482	16.2 (22) 1437
Max. Inter. 6.6 (25)	1.5 (2) 1910	4.4 (6) 1891	6.6 (9) 1878	10.3 (14) 1848	13.3 (18) 1828	16.2 (22) 1788

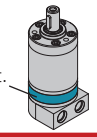
Continuous values — Intermittent values (max 10% operation every minute)

Motors run with high efficiency in all areas until maximum continuous values are exceeded. For best service life of the motor select a motor to run with a torque and speed range printed in the light shaded area.
Performance data is typical of randomly selected motors at back pressure of 5 to 10 bar [72.5 to 145 psi] and oil with viscosity of 32 mm²/s [150 SUS] at 50°C [122 F]. Actual data may vary slightly from one production motor to another.

PERFORMANCE DATA - BMM SERIES

BMM 20 — 1.2 in³/rev. (19.9 cm³/rev.)

Performance data is based on the motor displacement.

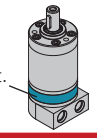


Torque / Speed	lbf.ft (Nm) / rpm	Δ Pressure psi (bar) ➡				Max. Cont.		Max. Inter.
		247 (17)	**508** (35)	**725** (50)	**1015** (70)	**1450** (100)	**1740** (120)	**2031** (140)
Flow gpm (l/min) ⬇	**0.5** (2)	**2.2** (3) **99**	**6.6** (9) **96**	**10.3** (14) **89**	**14.0** (19) **74**	**19.2** (26) **42**	**22.1** (30) **21**	
	1.1 (4)	**3.0** (4) **197**	**6.6** (9) **191**	**10.3** (14) **182**	**14.0** (19) **178**	**19.2** (26) **134**	**22.9** (31) **112**	**26.6** (36) **74**
	2.1 (8)	**3.0** (4) **398**	**6.6** (9) **395**	**9.6** (13) **391**	**14.0** (19) **377**	**19.9** (27) **340**	**22.9** (31) **319**	**26.6** (36) **288**
	3.2 (12)	**2.2** (3) **596**	**5.9** (8) **594**	**9.6** (13) **588**	**13.3** (18) **579**	**19.2** (26) **545**	**22.9** (31) **523**	**27.3** (37) **493**
	4.0 (15)	**2.2** (3) **745**	**5.9** (8) **741**	**8.9** (12) **738**	**12.5** (17) **728**	**18.4** (25) **695**	**22.1** (30) **684**	**26.6** (36) **660**
Max. Cont.	**5.3** (20)	**0.7** (1) **998**	**4.4** (6) **995**	**8.1** (11) **991**	**14.0** (19) **985**	**17.7** (24) **962**	**21.4** (29) **916**	**25.8** (35) **885**
Max. Inter.	**6.6** (25)		**3.0** (4) **1247**	**6.6** (9) **1245**	**10.3** (14) **1242**	**17.0** (23) **1189**	**20.7** (28) **1180**	**24.3** (33) **1176**

☐ Continuous values ▭ Intermittent values (max 10% operation every minute)

BMM 32 — 1.9 in³/rev. (31.6 cm³/rev.)

Performance data is based on the motor displacement.



Torque / Speed	lbf.ft (Nm) / rpm	Δ Pressure psi (bar) ➡				Max. Cont.		Max. Inter.
		290 (20)	**508** (35)	**725** (50)	**1015** (70)	**1450** (100)	**1740** (120)	**2031** (140)
Flow gpm (l/min) ⬇	**0.5** (2)	**5.2** (7) **61**	**11.1** (15) **57**	**15.5** (21) **52**	**20.7** (28) **47**	**29.5** (40) **16**		
	1.1 (4)	**5.2** (7) **126**	**11.1** (15) **121**	**15.5** (21) **114**	**21.4** (29) **106**	**30.2** (41) **82**	**35.4** (48) **67**	**42.0** (57) **49**
	2.1 (8)	**5.2** (7) **250**	**11.1** (15) **244**	**15.5** (21) **239**	**21.4** (29) **231**	**30.2** (41) **207**	**36.1** (49) **194**	**42.8** (58) **167**
	3.2 (12)	**4.4** (6) **378**	**9.6** (13) **374**	**14.8** (20) **369**	**20.7** (28) **362**	**29.5** (40) **338**	**35.4** (48) **322**	**42.8** (58) **297**
	4.0 (15)	**3.0** (4) **476**	**8.9** (12) **472**	**13.3** (18) **468**	**19.9** (27) **462**	**28.8** (39) **441**	**34.7** (47) **429**	**42.0** (57) **406**
Max. Cont.	**5.3** (20)	**2.2** (3) **633**	**7.4** (10) **630**	**12.5** (17) **627**	**18.4** (25) **619**	**27.3** (37) **601**	**33.9** (46) **585**	**40.6** (55) **566**
Max. Inter.	**6.6** (25)	**0.7** (1) **791**	**5.9** (8) **789**	**11.1** (15) **787**	**17.0** (23) **783**	**25.8** (35) **766**	**31.7** (43) **753**	**38.4** (52) **732**

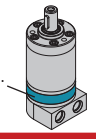
☐ Continuous values ▭ Intermittent values (max 10% operation every minute)

Motors run with high efficiency in all areas until maximum continuous values are exceeded. For best service life of the motor select a motor to run with a torque and speed range printed in the light shaded area.
Performance data is typical of randomly selected motors at back pressure of 5 to 10 bar [72.5 to 145 psi] and oil with viscosity of 32 mm²/s [150 SUS] at 50°C [122 F]. Actual data may vary slightly from one production motor to another.

PERFORMANCE DATA - BMM SERIES

BMM 40 — 2.4 in³/rev. (39.8 cm³/rev.)

Performance data is based on the motor displacement.

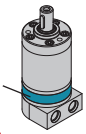


Torque lbf.ft (Nm) / Speed rpm	Δ Pressure psi (bar) ➡ 435 (30)	725 (50)	1015 (70)	Max. Cont. 1233 (85)	1450 (100)	Max. Inter. 1740 (120)
Flow gpm (l/min) ⬇ 0.5 (2)	**11.8** (16) **45**	**19.9** (27) **40**	**26.6** (36) **34**	**32.5** (44) **28**	**37.6** (51) **17**	
1.1 (4)	**11.8** (16) **96**	**19.9** (27) **93**	**27.3** (37) **85**	**32.5** (44) **79**	**38.4** (52) **65**	**45.7** (62) **52**
2.1 (8)	**11.1** (15) **197**	**19.2** (26) **195**	**26.6** (36) **182**	**32.5** (44) **176**	**38.4** (52) **166**	**46.5** (63) **154**
3.2 (12)	**10.3** (14) **293**	**18.4** (25) **287**	**25.8** (35) **282**	**31.7** (43) **277**	**37.6** (51) **268**	**45.7** (62) **257**
4.0 (15)	**9.6** (13) **371**	**17.7** (24) **365**	**25.1** (34) **360**	**31.0** (42) **355**	**36.9** (50) **347**	**45.7** (62) **338**
Max. Cont. 5.3 (20)	**7.4** (10) **497**	**15.5** (21) **492**	**22.9** (31) **487**	**28.8** (39) **480**	**35.4** (48) **472**	**43.5** (59) **463**
Max. Inter. 6.6 (25)	**5.2** (7) **622**	**14.0** (19) **617**	**21.4** (29) **612**	**27.3** (37) **607**	**32.5** (44) **600**	**41.3** (56) **591**

Continuous values — Intermittent values (max 10% operation every minute)

BMM 50 — 3.1 in³/rev. (50.3 cm³/rev.)

Performance data is based on the motor displacement.



Torque lbf.ft (Nm) / Speed rpm	Δ Pressure psi (bar) ➡ 218 (15)	435 (30)	725 (50)	Max. Cont. 1015 (70)	Max. Inter. 1450 (100)
Flow gpm (l/min) ⬇ 0.5 (2)	**8.1** (11) **37**	**17.0** (23) **33**	**26.6** (36) **34**	**36.9** (50) **22**	
1.1 (4)	**8.1** (11) **76**	**16.2** (22) **73**	**27.3** (37) **68**	**36.9** (50) **63**	**51.6** (70) **55**
2.1 (8)	**8.1** (11) **157**	**15.5** (21) **154**	**25.8** (35) **149**	**36.9** (50) **145**	**52.4** (71) **137**
3.2 (12)	**8.1** (11) **237**	**14.8** (20) **234**	**24.3** (33) **231**	**36.1** (49) **226**	**52.4** (71) **218**
4.0 (15)	**7.4** (10) **296**	**13.3** (18) **295**	**23.6** (32) **294**	**34.7** (47) **288**	**50.9** (69) **282**
Max. Cont. 5.3 (20)	**5.9** (8) **395**	**10.3** (14) **395**	**21.4** (29) **393**	**32.5** (44) **390**	**47.2** (64) **381**
Max. Inter. 6.6 (25)	**3.0** (4) **498**	**7.4** (10) **496**	**18.4** (25) **494**	**29.5** (40) **490**	**43.5** (59) **484**

Continuous values — Intermittent values (max 10% operation every minute)

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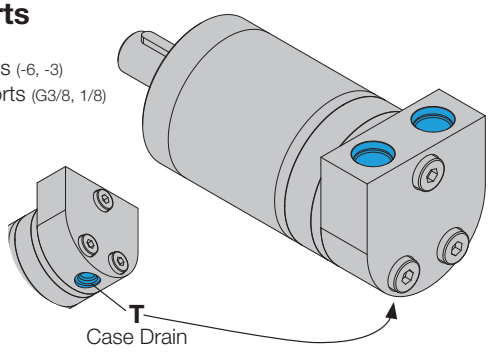
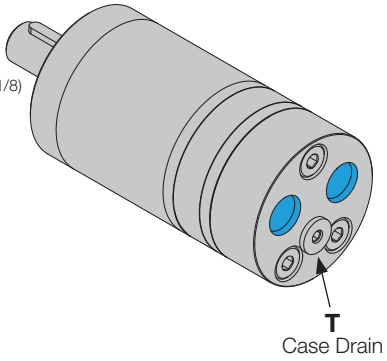
Performance data is typical of randomly selected motors at back pressure of 5 to 10 bar [72.5 to 145 psi] and oil with viscosity of 32 mm²/s [150 SUS] at 50°C [122 F]. Actual data may vary slightly from one production motor to another.

BMM PORTING CODE OVERVIEW

Side Ports
Line Mount
U : SAE Ports (-6, -3)
E : BSPP Ports (G3/8, 1/8)

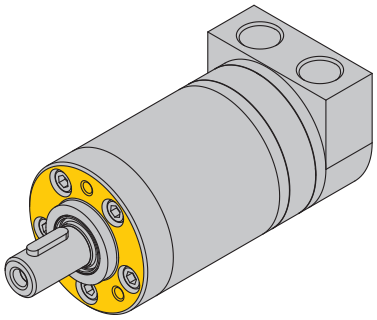


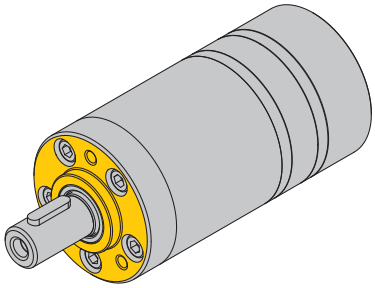
End Ports
Line Mount
1U : SAE Ports (-6, -3)
1E : BSPP Ports (G3/8, 1/8)



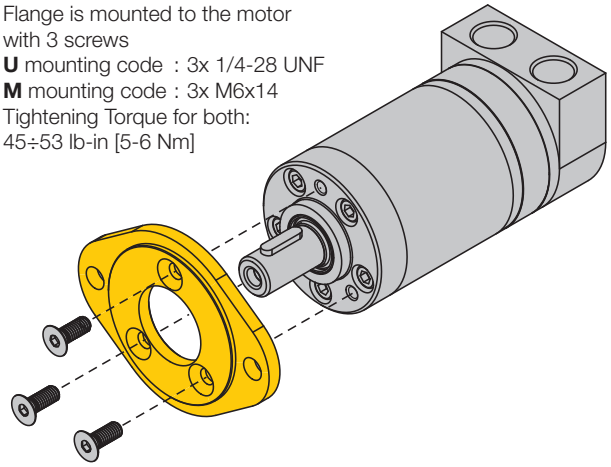
BMM MOUNTING CODE OVERVIEW

Face Mount
3-Bolt
U : Inch thread
M: Metric thread





Flange is mounted to the motor with 3 screws
U mounting code : 3x 1/4-28 UNF
M mounting code : 3x M6x14
Tightening Torque for both:
45÷53 lb-in [5-6 Nm]



Flange is mounted to the motor with 3 screws
U mounting code : 3x 1/4-28 UNF
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Tightening Torque for both:
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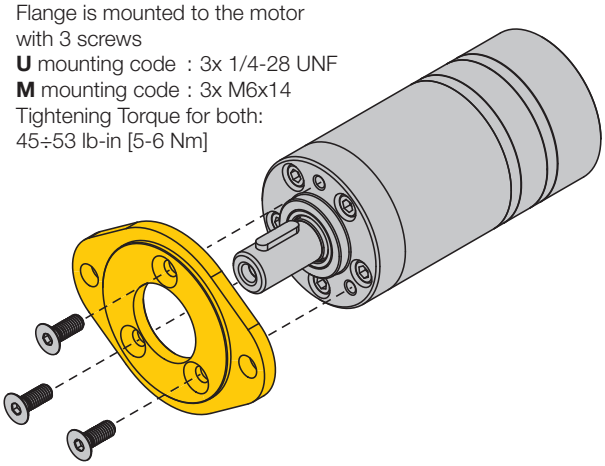
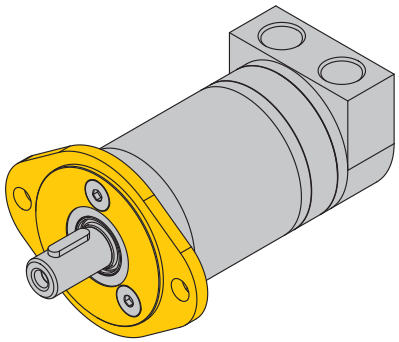
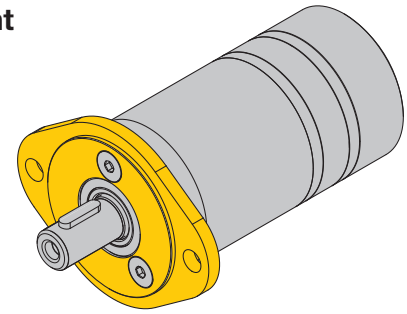


Flange Mount
2-Bolt
F



Flange Mount
2-Bolt
F



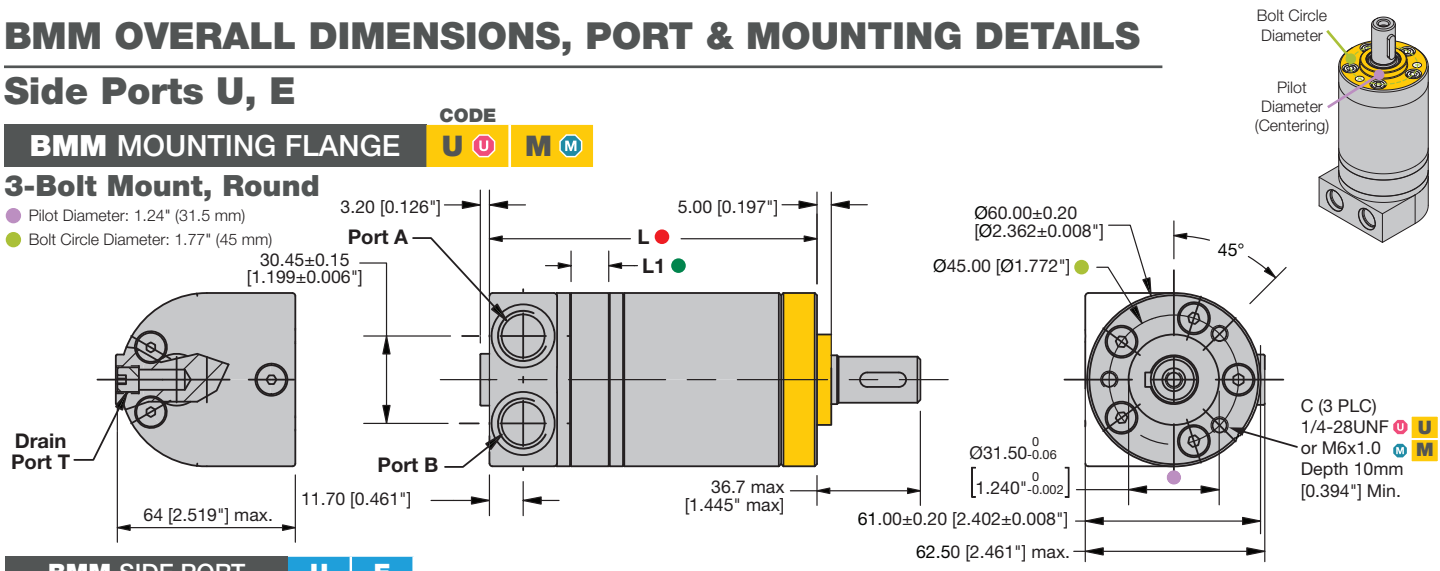
BMM OVERALL DIMENSIONS, PORT & MOUNTING DETAILS

Side Ports U, E

BMM MOUNTING FLANGE — CODE: U (U) M (M)

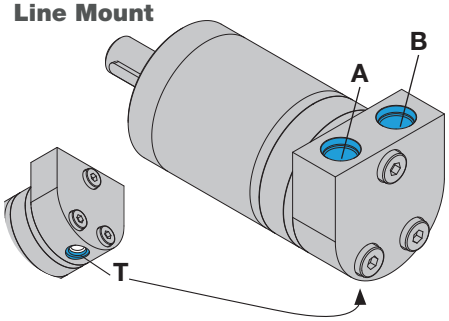
3-Bolt Mount, Round

- Pilot Diameter: 1.24" (31.5 mm)
- Bolt Circle Diameter: 1.77" (45 mm)



BMM SIDE PORT — U E

Line Mount



	BMM PORT CODE	
	U	E
Connection	SAE ports	BSPP ports
P (A,B)	9/16-18 UNF (12)	G 3/8" (12)
T	3/8-24 UNF (8)	G 1/8" (8)
C (x3)	1/4-28 UNF-2B (10) (U)	M6 (10) (M)

U : SAE straight thread (O-Ring Boss)
E : BSPP (British Standard Pipe Parallel) G thread

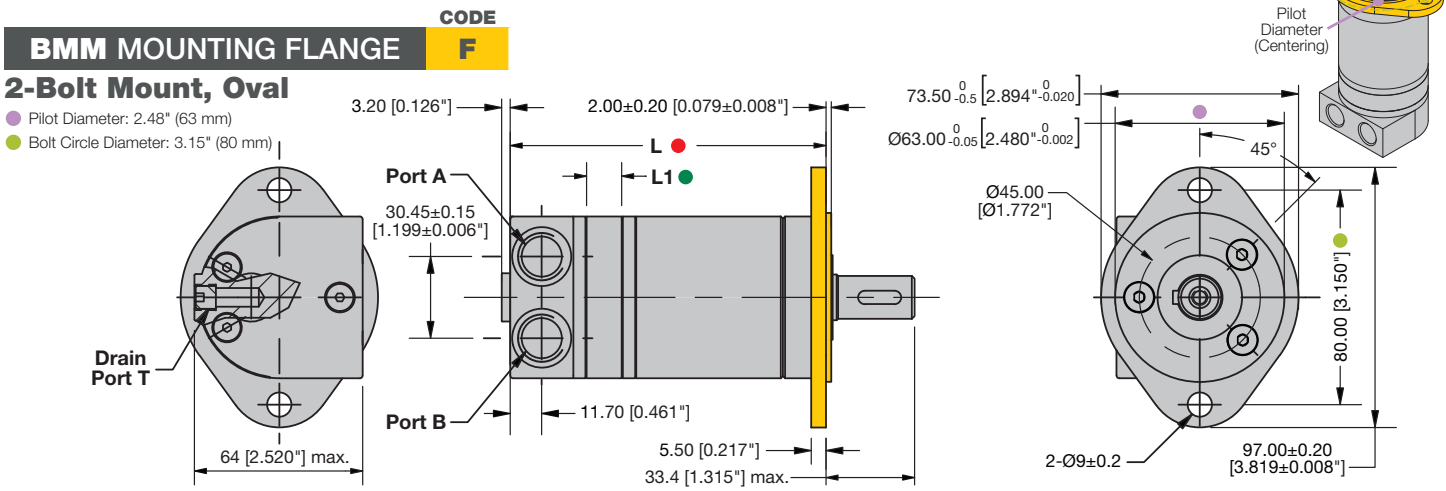
GEROLER WIDTH

Model	L (●) mm [in]	L1 (●) mm [in]
BMM 8	104.0 [4.09"]	3.5 [0.14"]
BMM 12.5	106.0 [4.17"]	5.5 [0.22"]
BMM 20	109.0 [4.29"]	8.5 [0.34"]
BMM 32	114.0 [4.49"]	13.5 [0.53"]
BMM 40	117.5 [4.63"]	17.0 [0.67"]
BMM 50	122.0 [4.80"]	21.5 [0.85"]

BMM MOUNTING FLANGE — CODE: F

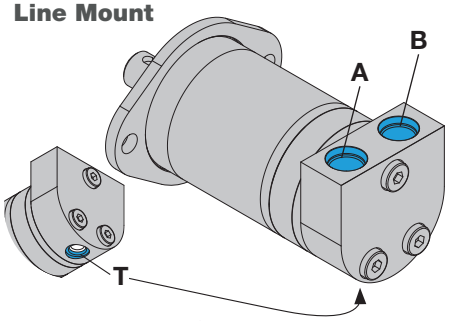
2-Bolt Mount, Oval

- Pilot Diameter: 2.48" (63 mm)
- Bolt Circle Diameter: 3.15" (80 mm)



BMM SIDE PORT — U E

Line Mount



	BMM PORT CODE	
	U	E
Connection	SAE ports	BSPP ports
P (A,B)	9/16-18 UNF (12)	G 3/8" (12)
T	3/8-24 UNF (8)	G 1/8" (8)

U : SAE straight thread (O-Ring Boss)
E : BSPP (British Standard Pipe Parallel) G thread

GEROLER WIDTH

Model	L (●) mm [in]	L1 (●) mm [in]
BMM 8	107.5 [4.23"]	3.5 [0.14"]
BMM 12.5	109.5 [4.31"]	5.5 [0.22"]
BMM 20	112.5 [4.43"]	8.5 [0.34"]
BMM 32	117.5 [4.63"]	13.5 [0.53"]
BMM 40	121.0 [4.76"]	17.0 [0.67"]
BMM 50	125.5 [4.94"]	21.5 [0.85"]

mm [Inch]
(U) Imperial (M) Metric
● Pilot Diameter
● Bolt Circle Diameter

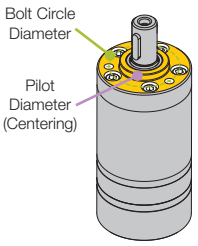
BMM OVERALL DIMENSIONS, PORT & MOUNTING DETAILS

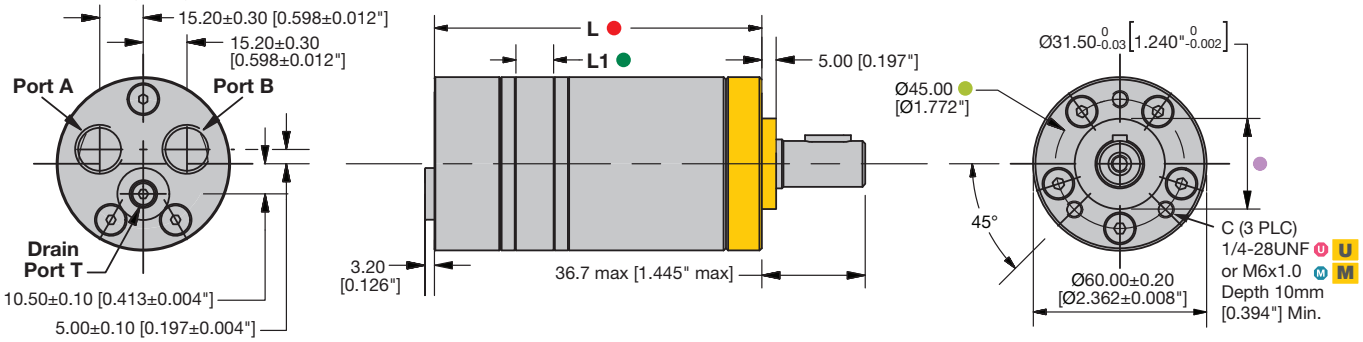
End Ports 1U, 1E

BMM MOUNTING FLANGE — CODE: U (U) | M (M)

3-Bolt Mount, Round

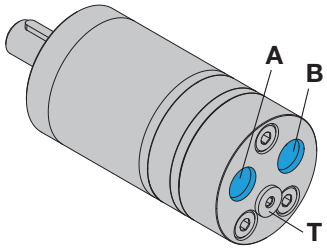
- Pilot Diameter: 1.24" (31.5 mm)
- Bolt Circle Diameter: 1.77" (45 mm)





BMM END PORTS — 1U | 1E

Line Mount



	BMM PORT CODE	
	U	E
Connection	SAE ports	BSPP ports
P (A,B)	9/16-18 UNF (12)	G 3/8" (12)
T	3/8-24 UNF (8)	G 1/8" (8)
C (x3)	1/4-28 UNF-2B (10) (U)	M6 (10) (M)

U : SAE straight thread (O-Ring Boss)
E : BSPP (British Standard Pipe Parallel) G thread

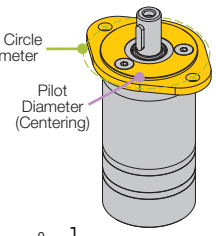
GEROLER WIDTH

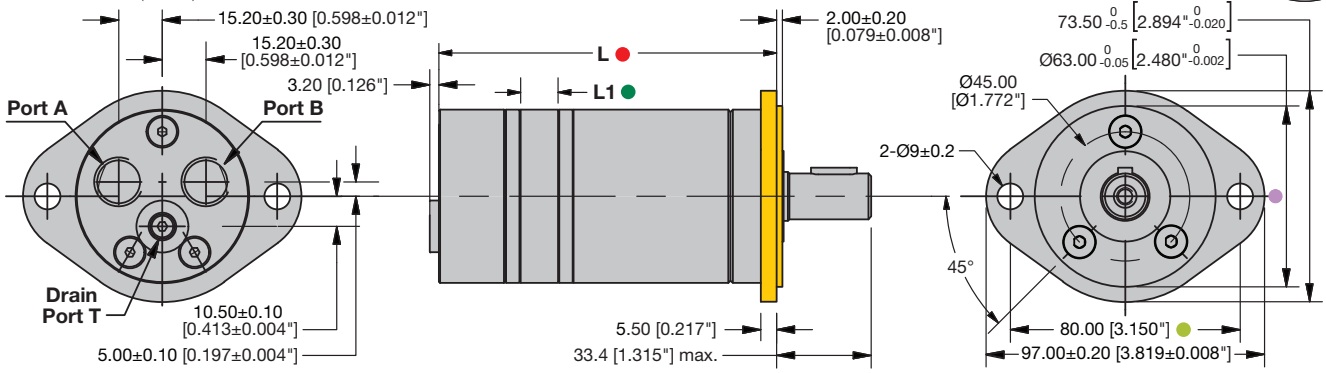
Model	L (●) mm [in]	L1 (●) mm [in]
BMM 8	104.0 [4.09"]	3.5 [0.14"]
BMM 12.5	106.0 [4.17"]	5.5 [0.22"]
BMM 20	109.0 [4.29"]	8.5 [0.34"]
BMM 32	114.0 [4.49"]	13.5 [0.53"]
BMM 40	117.5 [4.63"]	17.0 [0.67"]
BMM 50	122.0 [4.80"]	21.5 [0.85"]

BMM MOUNTING FLANGE — CODE: F

2-Bolt Mount, Oval

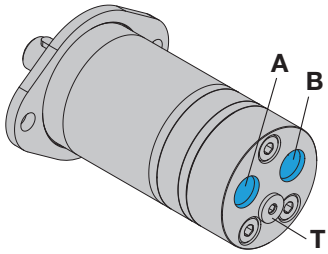
- Pilot Diameter: 2.48" (63 mm)
- Bolt Circle Diameter: 3.15" (80 mm)





BMM END PORTS — 1U | 1E

Line Mount



	BMM PORT CODE	
	1U	1E
Connection	SAE ports	BSPP ports
P (A,B)	9/16-18 UNF (12)	G 3/8" (12)
T	3/8-24 UNF (8)	G 1/8" (8)

U : SAE straight thread (O-Ring Boss)
E : BSPP (British Standard Pipe Parallel) G thread

GEROLER WIDTH

Model	L (●) mm [in]	L1 (●) mm [in]
BMM 8	107.5 [4.23"]	3.5 [0.14"]
BMM 12.5	109.5 [4.31"]	5.5 [0.22"]
BMM 20	112.5 [4.43"]	8.5 [0.34"]
BMM 32	117.5 [4.63"]	13.5 [0.53"]
BMM 40	121.0 [4.76"]	17.0 [0.67"]
BMM 50	125.5 [4.94"]	21.5 [0.85"]

mm [Inch]
(U) Imperial (M) Metric ● Pilot Diameter ● Bolt Circle Diameter

BMM SHAFT EXTENSIONS

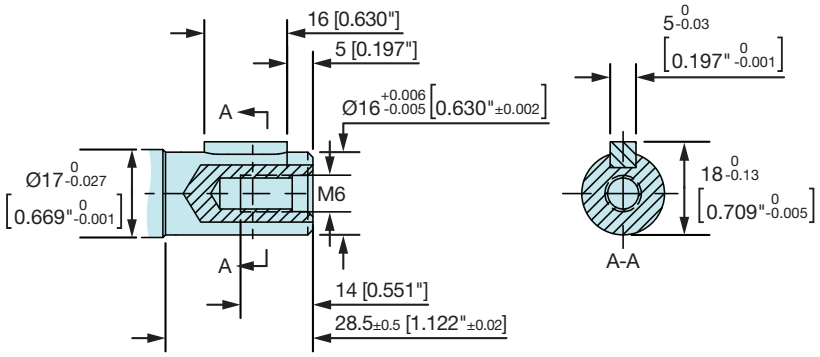
IMPORTANT:
Ensure that the torque rating of your motor does not exceed shaft torque limitations stated below. Please refer to performance data charts.

BMM SHAFT EXTENSION — CODE A (Metric)

16 mm Straight Keyed

Parallel key 5x5x16

Max. Torque
28 lbf.ft [39 Nm]

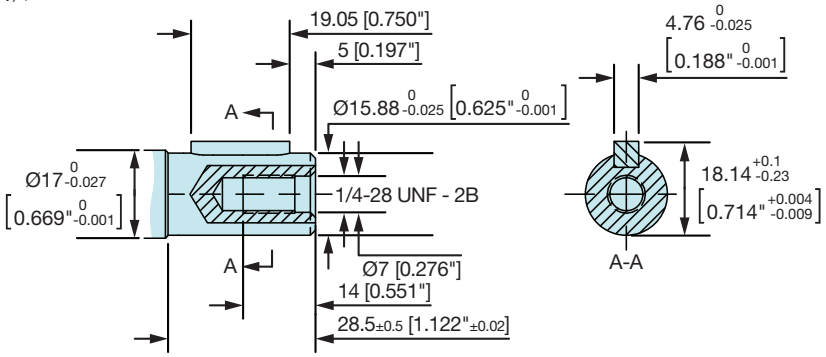


BMM SHAFT EXTENSION — CODE B (Imperial)

5/8" Straight Keyed

Parallel key 3/16"x3/16"x3/4"

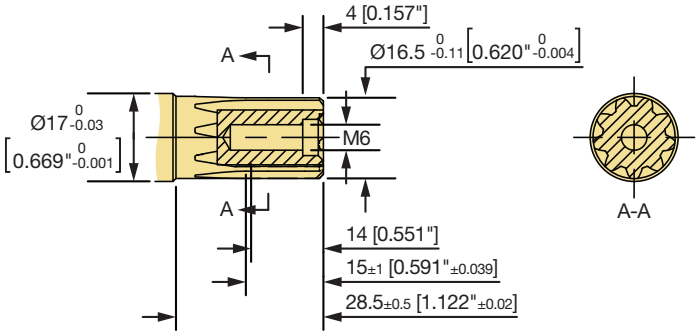
Max. Torque
28 lbf.ft [39 Nm]

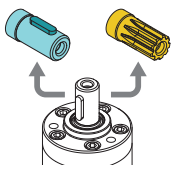


BMM SHAFT EXTENSION — CODE C (Metric)

Ø16,5 mm Splined, B17x14 DIN 5482

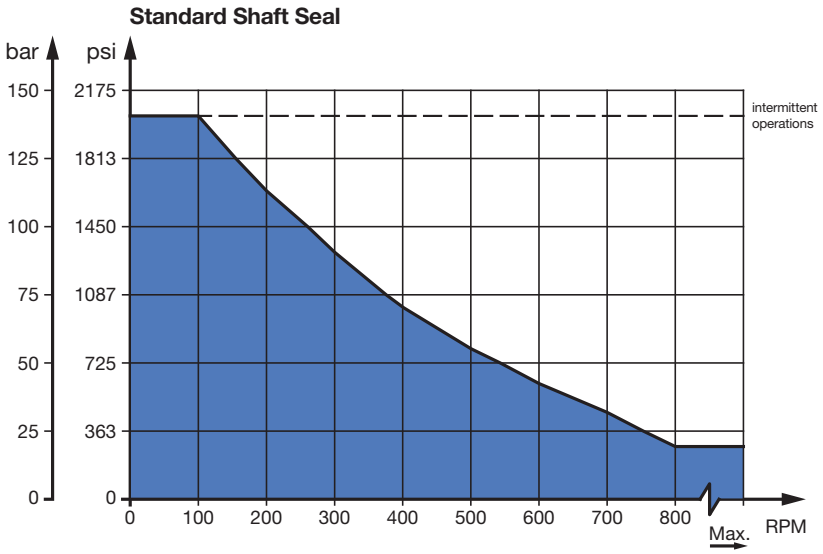
Max. Torque
32 lbf.ft [44 Nm]





mm [Inch]
U Imperial M Metric

PERMISSIBLE SHAFT SEAL PRESSURES - BMM SERIES



Internal Drain, Permissible back pressure and case pressure:

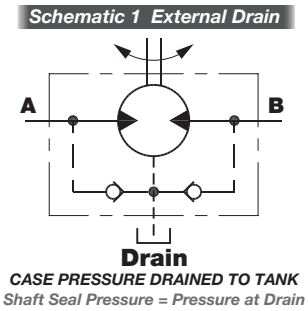
The internal drain option is standard on all BMM series motors. There are Built-In Check Valves integrated in the housing of the motor that connect the case area of the motor to each of the work ports (A and B). During normal operation, pressure in the input and return lines of the motor close the corresponding check valves. However, when the pressure in the motor case becomes greater than that of the return line, the check valve between the case and low pressure return line opens, allowing the case leakage to flow into the return line. Since the operation of the check valves is dependent upon a pressure differential, the internal drain option operates in either direction of motor rotation and whichever work port (A or B) has the lower pressure. This offers versatility and increased seal life as the drain line relieves the pressure on the shaft seal to tank.[1)]

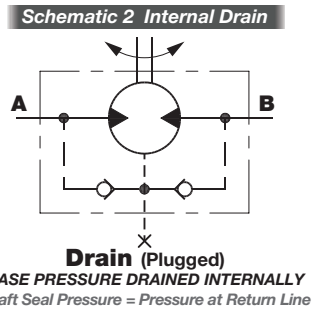
Schematic 1 - External Drain

With case drain port used, the shaft seal pressure = pressure at drain.

Schematic 2 - Internal Drain

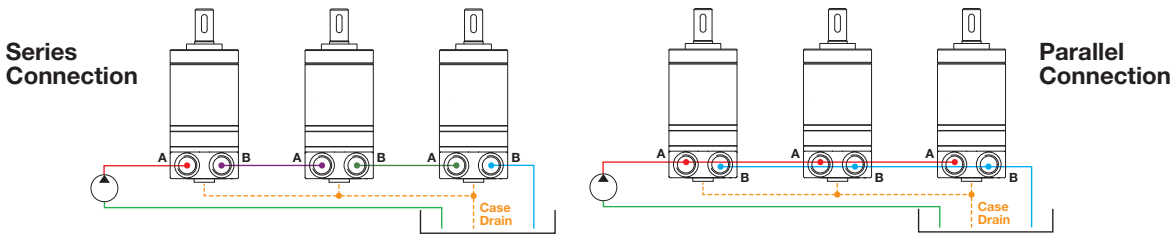
With case drain port not in use, the shaft seal pressure = pressure at the return line.





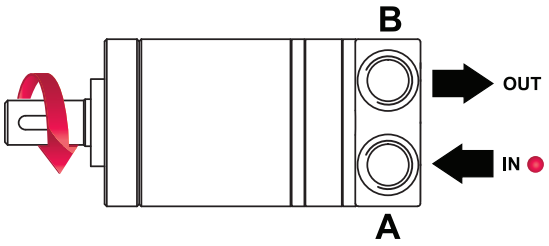
Important:

1) Installing motors with “internal drainage" in series or when the motor operates in a meter-out circuit is not recommended unless overall pressure drop over all motors is below the maximum allowable backpressure.

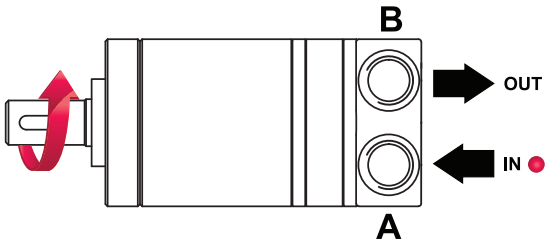


DIRECTION OF SHAFT ROTATION - BMM SERIES

Standard Rotation
(Viewed from Shaft End)
Port **A** Pressurized - **CW**
Port **B** Pressurized - **CCW**

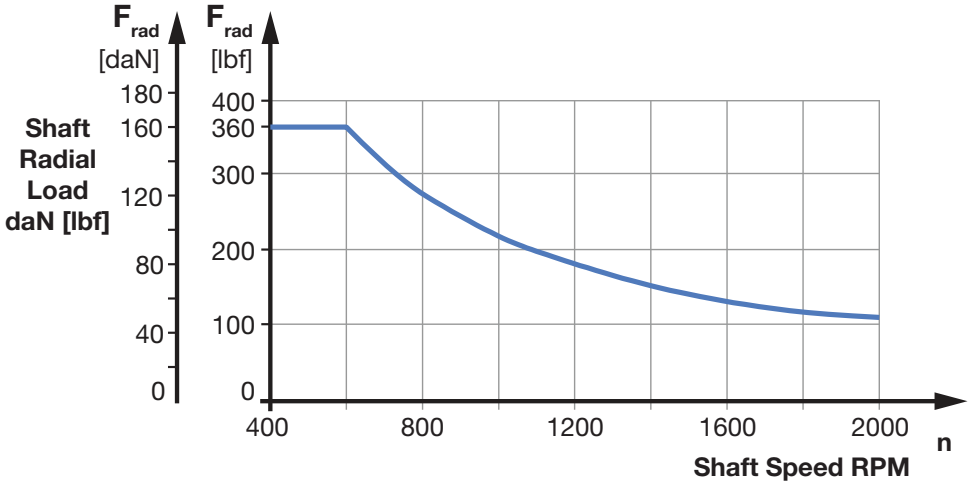


Reverse Rotation
(Viewed from Shaft End)
Port **A** Pressurized - **CCW**
Port **B** Pressurized - **CW**



PERMISSIBLE SHAFT LOADS FOR BMM MOTORS

The permissible radial shaft load **F_{rad}** depends on the speed (rpm), distance from the point of load to the mounting flange and shaft version. The curve shows the relation between **F_{rad}** and speed (rpm) on the BMM motor with journal (slide) bearing.



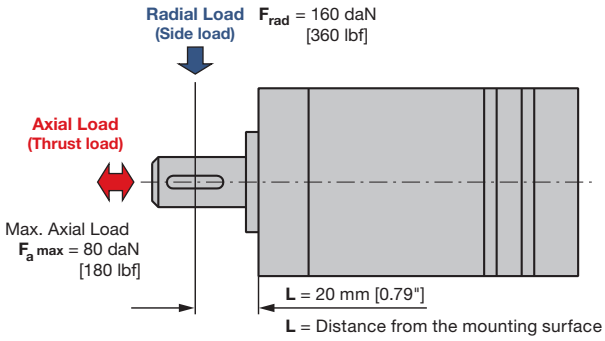
The permissible radial shaft load [**F_{rad}**] is calculated from the distance [**L**] between the point of load application and the mounting surface:

$$F_{rad} = \frac{600}{n} \times \frac{1155}{2.42+L}, \text{ [lbf]}$$

[L in inch; L ≤ 3.15 in]

$$F_{rad} = \frac{600}{n} \times \frac{13040}{61,5+L}, \text{ [daN]}$$

[L in mm; L ≤ 80 mm]



The drawing shows the permissible radial load when **L**= 20 mm [0.79"].
If the calculated shaft load exceeds the permissible, a flexible coupling must be used.

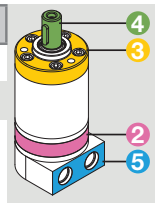
BMM DESIGNATION & ORDERING CODE

BMM - 32 - U - B - U - ... - ...

1	2	3	4	5	6	7
BMM						

1 Series

BMM



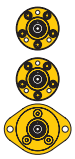
2 Displacement

	cm^3/rev	in^3/rev
8	8.2	0.50
12.5	12.9	0.79
20	19.9	1.21
32	31.6	1.93
40	39.8	2.43
50	50.3	3.07

Pages 4-6 for performance details.

3 Mounting Type

U	3-Bolt (1/4-28 UNF), Round
M	3-Bolt (M6x1.0), Round
F	2-Bolt, Oval



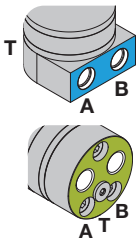
Pages 8-9 for mounting details.

4 Output Shaft

A	16 mm Straight Keyed (5x5x16 key)
B	5/8" Straight Keyed (3/16"x3/16"x3/4" key)
C	Ø16.5 mm Splined B17x14 DIN 5482

Page 10 for shaft details.

5 Ports (A&B,T)



U	Side SAE Ports (-6,-3)
E	Side BSPP Ports (G3/8,G1/8)
1U	End SAE Ports (-6,-3)
1E	End BSPP Ports (G3/8,G1/8)

Pages 8-9 for port details.

6 Rotation

Omit	Standard Rotation
R	Reverse Rotation

Page 12 for rotation details.

7 Options

Omit	None
0	No Case Drain

Contact Anfield if option required is not listed.

Anfield BMM series motors have the gerotor gear set and are painted black as standard.
Anfield "JBMM" series motors have the roller gear set (similar to the J series from Eaton Char-Lynn®). The JBMM motors are painted gray as standard and are factory order.

NOTES

Strength in Products, Strength in Service

- Pressure Switches
- Temperature Switches
- Differential Switches
- Level Switches
- Vacuum Switches
- Transducers
- Gear Pumps
- Vane Pumps
- Dump Pumps
- Variable Piston Pumps
- Orbital Motors
- Vane Motors
- Gear Motors
- Monoblock Valves
- High Pressure Ball Valves
- Flow Controls & Needle Valves
- Drive Couplings
- Flanges
- Gauges
- Test Points

ANFIELD Orbital Motor Catalog BMM Rev.- (01/26/2024)

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Web: www.mpfiltricanada.com