

▪ GENERAL DESCRIPTION

BMM series motor are small volume, economical type, which is designed with shaft distribution flow, which adapt the Gerotor gear set design and provide compact volume, high power and low weight.

▪ CHARACTERISTICS FEATURES

Advanced manufacturing devices for the Gerotor gear set, which provide small volume, high efficiency and long life.

Shaft seal can bear high pressure of motor of which can be used in parallel or in series.

Advanced construction design, high power and low weight.

▪ BMM TECHNICAL SPECIFICATIONS

		BMM 8	BMM 12.5	BMM 20	BMM 32	BMM 40	BMM 50
Type							
Geometric displacement (cm ³ /rev.)		8.2	12.9	19.9	31.6	39.8	50.3
Max. speed (rpm)	cont.	1950	1550	1000	630	500	400
	int.	2450	1940	1250	800	630	500
	cont.	11	16	25	40	45	46
Max. torque (N•m)	int.	15	23	35	57	70	88
	peak	21	33	51	64	82	100
	cont.	1.8	2.4	2.4	2.4	2.2	1.8
Max. output (kW)	int.	2.6	3.2	3.2	3.2	3.2	3.2
Max. pressure	cont.	10	10	10	10	9	7
drop (MPa)	int.	14	14	14	14	14	14
	peak	20	20	20	16	16	16
	cont.	16	20	20	20	20	20
Max. flow (L/min)	int.	20	25	25	25	25	25
Weight (kg)		1.9	2	2.1	2.2	2.3	2.4

Type		Max. inlet pressure
BMM8-50 (MPa)	cont.	17.5
	int.	22.5

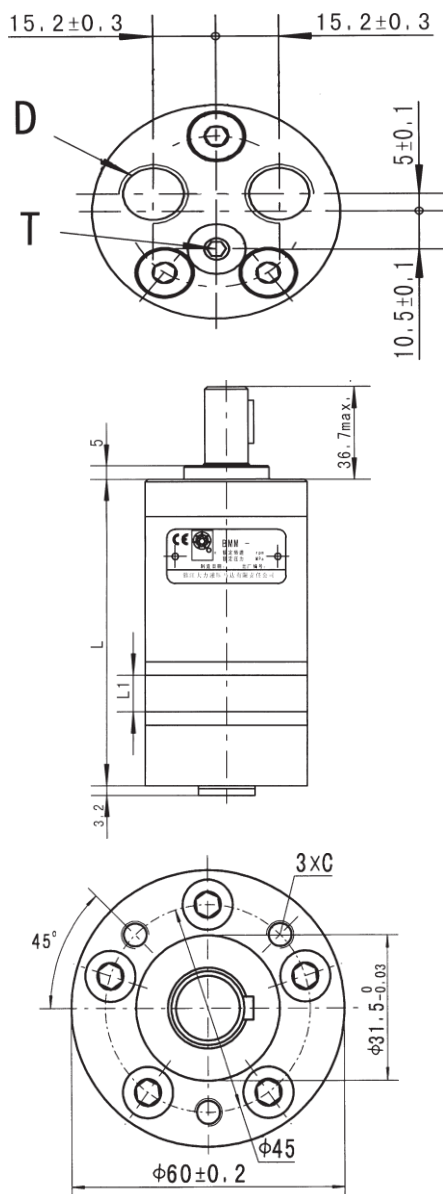
* Continuous pressure: Max. value of operating motor continuously.

* Intermittent pressure: Max. value of operating motor in 6 seconds per minute.

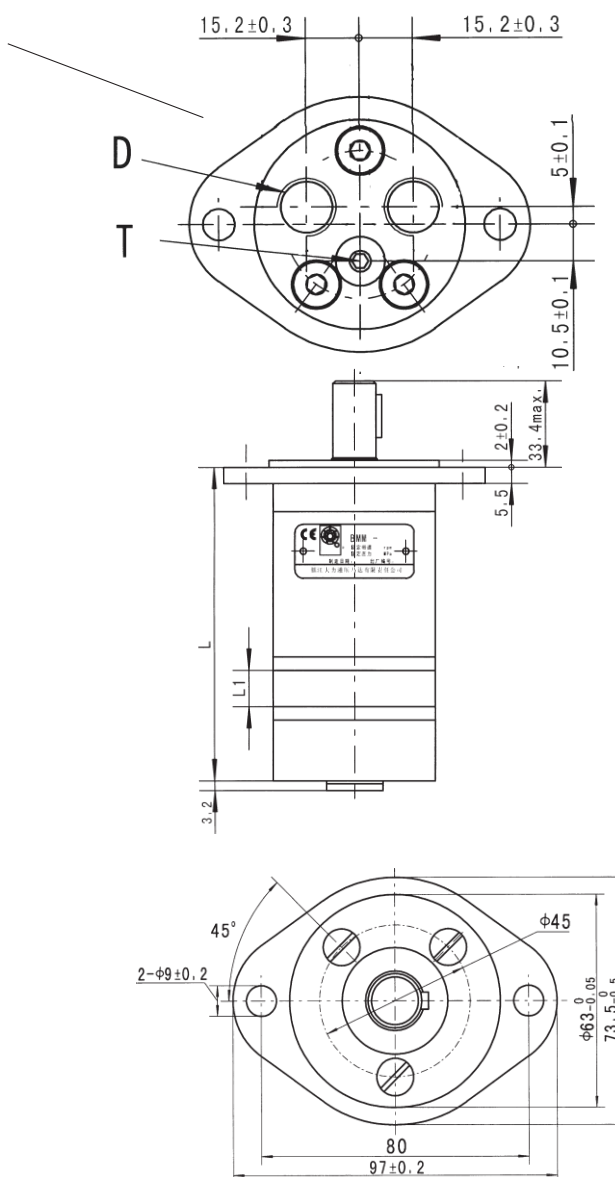
* Peak pressure: Max. value of operating motor in 0.6 second per minute.

* BMM END PORT DIMENSIONS AND MOUNTING DATA
MOUNTING

Flange M, U



Flange F



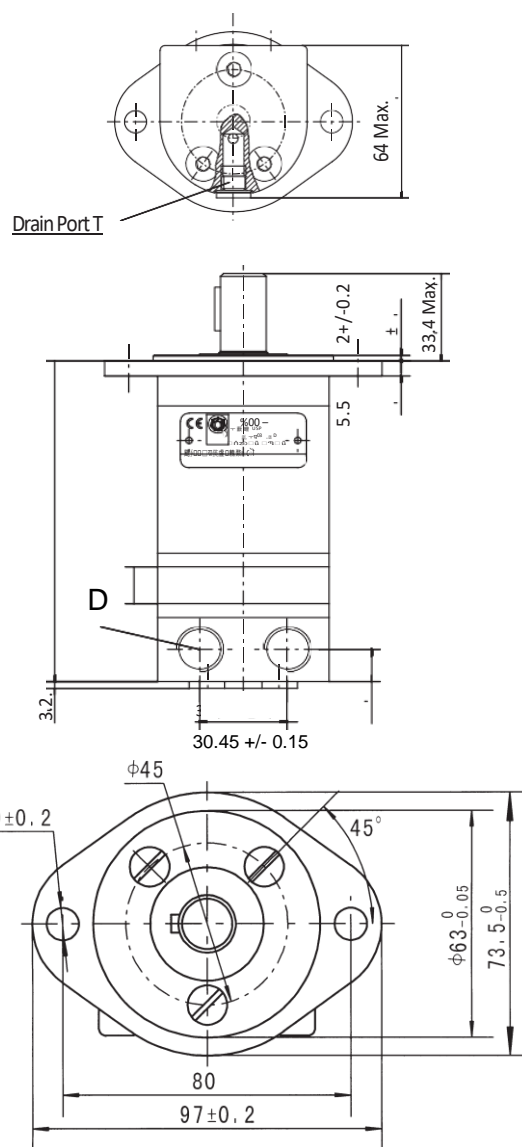
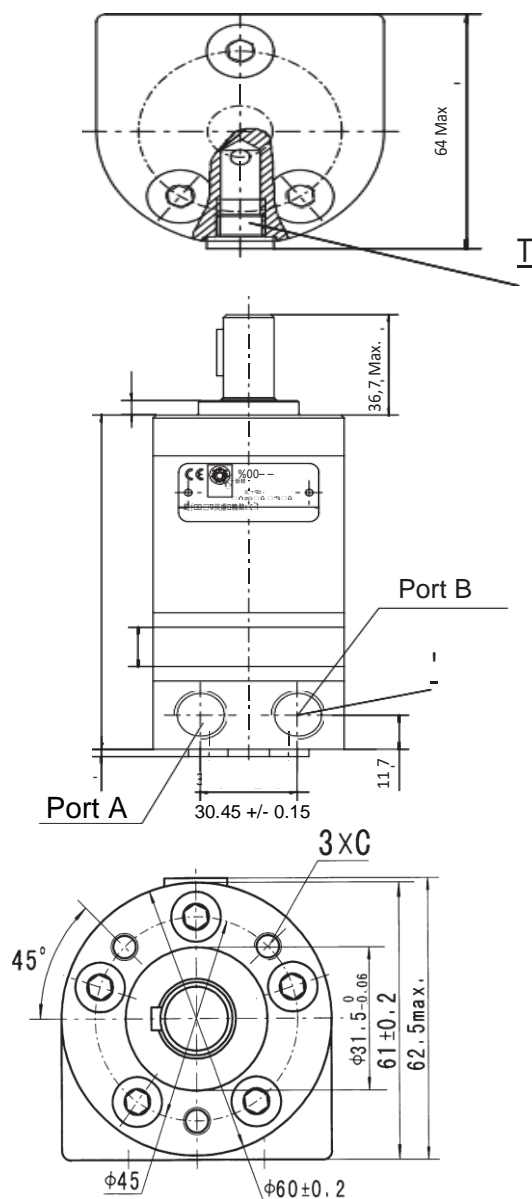
Model	M, U Flange		F Flange	
	L	L1	L	L1
BMM8	104	3.5	107.5	3.5
BMM12.5	106	5.5	109.5	5.5
BMM20	109	8.5	112.5	8.5
BMM32	114	13.5	117.5	13.5
BMM40	117.5	17	121	17
BMM50	122	21.5	125.5	21.5

Code Mounting	M, U Flange		F Flange	
	1E (depth)	1U (depth)	1E (depth)	1U (depth)
C	3-M6 (10)	3-1/4-28UNF-2B(10)	--	--
D	G3/8 (12)	9/16-18UNF(12)	G3/8 (12)	9/16-18UNF(12)
T	G1/8 (8)	3/8-24UNF(8)	G1/8 (8)	3/8-24UNF(8)

*** BMM SIDE PORT DIMENSIONS AND MOUNTING DATA**
MOUNTING

Flange M, U

Flange F

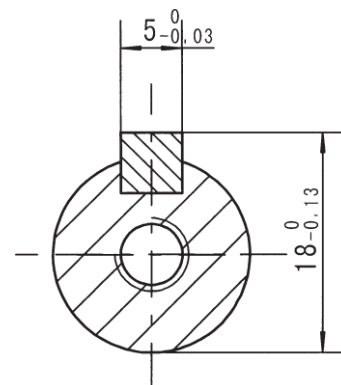
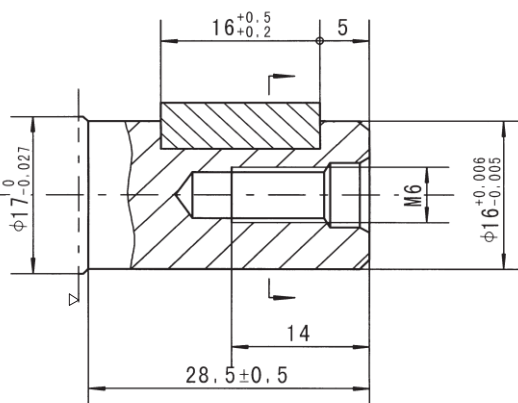


	M, U Flange		F Flange	
Model	L	L1	L	L1
BMM8	105	3.5	108.5	3.5
BMM12.5	107	5.5	110.5	5.5
BMM20	110	8.5	113.5	8.5
BMM32	115	13.5	118.5	13.5
BMM40	118.5	17	122	17
BMM50	123	21.5	126.5	21.5

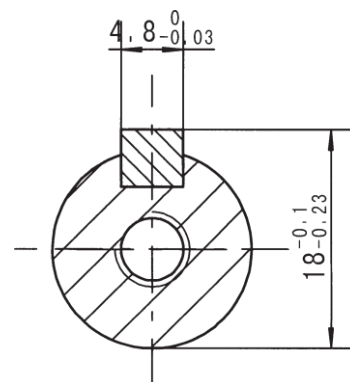
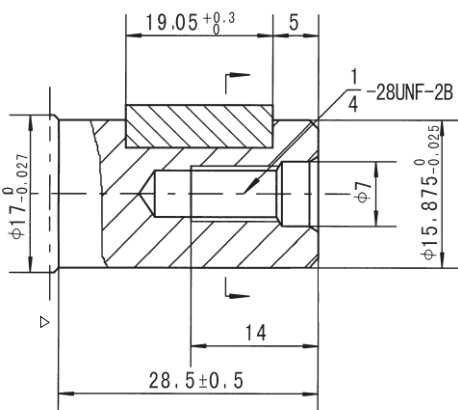
Code Mounting	M, U Flange		F Flange	
	E (depth)	U (depth)	E (depth)	U (depth)
C	3-M6 (10)	3-1/4-28UNF-2B(10)	--	--
D	G3/8 (12)	9/16-18UNF(12)	G3/8 (12)	9/16-18UNF(12)
T	G1/8 (8)	3/8-24UNF(8)	G1/8 (8)	3/8-24UNF(8)

* BMM SHAFT EXTENSIONS FOR BMM MOTORS

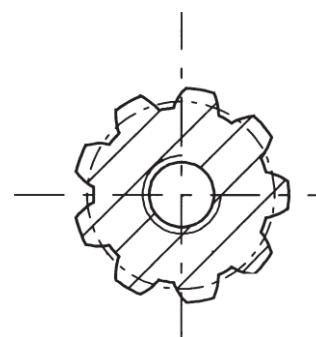
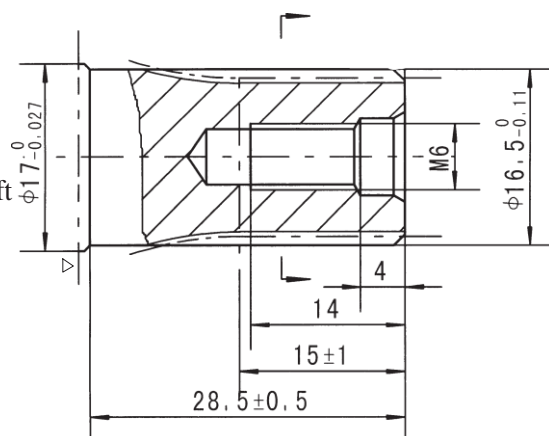
Shaft A:
Cylindrical shaft $\varnothing 16$
Parallel key 5x5x16



Shaft B:
Cylindrical shaft $\varnothing 15.875$
Parallel key 4.8x4.8x19.05



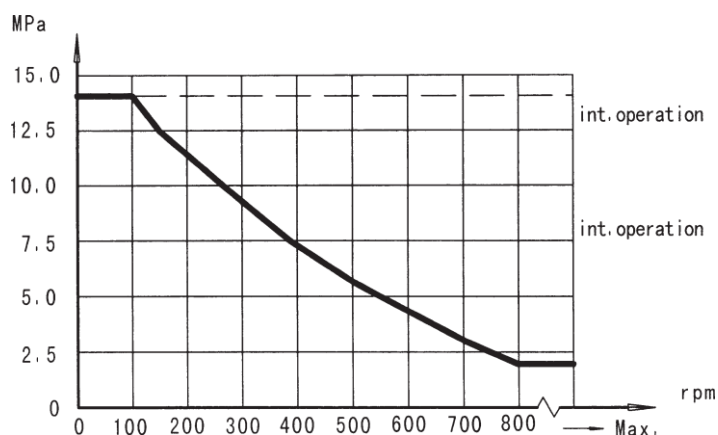
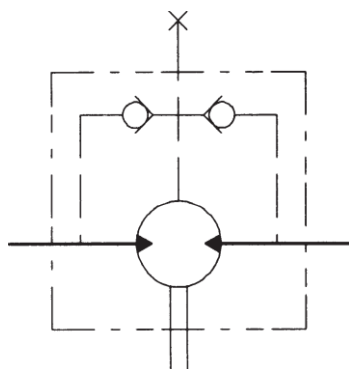
Shaft C:
Involute splind shaft
B17x14 DIN5482



▷ Motor Mounting Sur

* BMM Series Hydraulic Motor

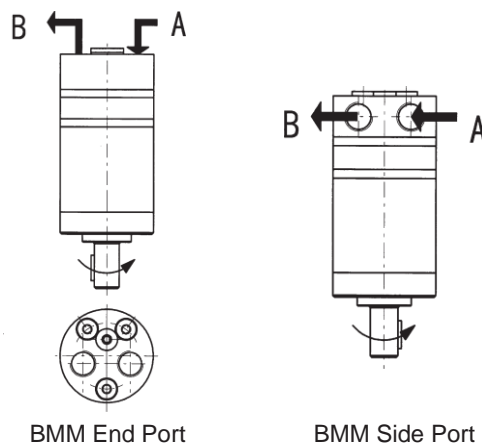
Permissible shaft seal pressure



In applications without drain line, output shaft seal exceeds a bit of the pressure in the return line. When applications use the drain line, the pressure of output shaft seal equals the pressure in drain line.

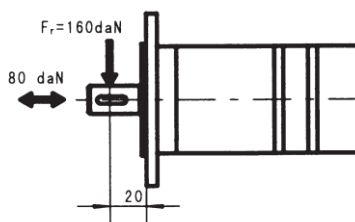
Direction of shaft rotation: Standard

When facing shaft end of motor, shaft to rotate: Clockwise when port "A" is pressurized. Counter-clockwise port "B" is pressurized.



Status of the shaft's radial force

$$F_r = \frac{13040}{61.5 + L} \text{ daN}$$



F_r = Radial Force (daN)

L = Distance (mm)

n = Speed (rpm)

Max. force load

Rhomb-flange $L=15\text{mm}$

Square-flange $L=20\text{mm}$

Order Information

	1	2	3	4	5	6	7	8
BMM								

Pos.1	2	3	4	5	6	7	8
Code	Displacement	Flange	Output shaft	Port and drain port	Rotation direction	Paint	Unusually function
Omit	8 12.5 20 32 40 50	M U F 3-M6 Circle-flange, pilot Ø31.5x5 3-1/4-28UNF Circle flange pilot Ø31.5x5 2-Ø9 Rhomb-flange, pilot Ø63x2	A B C Shaft Ø16, parallel key 5x5x16 Shaft Ø15.875, parallel key 4.8x4.8x19.05 Shaft Ø16.5, involute B17x14, DIN5482	E U 1E 1U G3/8, G1/8 9/16-18UNF, 3/8-24UNF End port G3/8, G1/8 End port 9/16-18UNF, 3/8-24UNF	Omit R Standard Opposite	00 Omit B S No paint Blue Black Silver grey	Omit O Standard No case drain

Note: When the table is used, please fill the code of left rows in the table and give us, which the code information is consists of construction, displacement, mounting flange, output shaft and ports. If the specification is not in the table or you have specific requirements, please contact us.