



BMM SERIES HYDRAULIC MOTOR

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 weighth.

Characteristic 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.

Main Specification

Type		BMM 8	BMM 12.5	BMM 20	BMM 32	BMM 40	BMM 50
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
Max. torque (N•m)	cont.	11	16	25	40	45	46
	int.	15	23	35	57	70	88
	peak	21	33	51	64	82	100
Max. output (kW)	cont.	1.8	2.4	2.4	2.4	2.2	1.8
	int.	2.6	3.2	3.2	3.2	3.2	3.2
Max. pressure drop (MPa)	cont.	10	10	10	10	9	7
	int.	14	14	14	14	14	14
	peak	20	20	20	16	16	16
Max. flow (L/min)	cont.	16	20	20	20	20	20
	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.



Performance Data

BMM8 [8.2 cm³/rev.]
Pressure (MPa)

Flow (L/min)	Max.cont.						Max.int.
	3.5	5	7	10	12	14	
2	3	5	8	10	12	14	
	228	218	206	156	111	58	
4	3	5	7	11	13	15	
	474	471	463	426	391	331	
8	3	5	7	11	13	15	
	953	946	926	884	855	816	
12	2	5	7	10	13	15	
	1444	1426	1402	1360	1324	1288	
Max.cont.		4	7	10	12	14	
Max.int.			6	10	11	14	
			2395	2350	2328	2281	

BMM12.5 [12.9 cm³/rev.]
Pressure (MPa)

Flow (L/min)	Max.cont.					Max.int.
	3.5	5	7	10	12	
2	6	8	11	16	19	
	140	136	119	68	35	
4	6	8	12	17	19	23
	296	289	274	229	200	145
8	5	8	12	17	20	24
	605	596	583	543	514	469
12	5	8	11	16	20	24
	912	905	895	859	834	784
15	5	7	11	16	19	23
	1152	1144	1136	1102	1078	1036
Max.cont.	3	7	10	15	19	22
Max.int.	2	6	9	14	18	22
	1542	1532	1521	1500	1482	1437
	2	6	9	14	18	22
Max.int.						
	1910	1891	1878	1848	1828	1788

BMM20 [19.9 cm³/rev.]
Pressure (MPa)

Flow (L/min)	Max.cont.						Max.int.
	1.7	3.5	5	7	10	12	
2	3	9	14	19	26	30	
	99	96	89	74	42	21	
4	4	9	14	19	26	31	36
	197	191	182	178	134	112	74
8	4	9	13	19	27	31	36
	398	395	391	377	340	319	288
12	3	8	13	18	26	31	37
	596	594	588	579	545	523	493
15	3	8	12	17	25	30	36
	745	741	738	728	695	684	660
Max.cont.	1	6	11	19	24	29	35
Max.int.		4	9	14	23	28	33
	998	995	991	985	962	916	885
		4	9	14	23	28	33
Max.int.							
		1247	1245	1242	1189	1180	1176

BMM32 [31.6 cc/rev.]
Pressure (MPa)

Flow (L/min)	Max.cont.						Max.int.
	2	3.5	5	7	10	12	
2	7	15	21	28	40		
	61	57	52	47	16		
4	7	15	21	29	41	48	57
	126	121	114	106	82	67	49
8	7	15	21	29	41	49	58
	250	244	239	231	207	194	167
12	6	13	20	28	40	48	58
	378	374	369	362	338	322	297
15	4	12	18	27	39	47	57
	476	472	468	462	441	429	406
Max.cont.	3	10	17	25	37	46	55
Max.int.		8	15	23	35	43	52
	633	630	627	619	601	585	566
	1	8	15	23	35	43	52
Max.int.							
	791	789	787	783	766	753	732

BMM40 [39.8 cm³/rev.]
Pressure (MPa)

Flow (L/min)	Max.cont.						Max.int.
	3	5	7	8.5	10	12	
2	16	27	36	44	51		
	45	40	34	28	17		
4	16	27	37	44	52	62	
	96	93	85	79	65	52	
8	15	26	36	44	52	63	
	197	195	182	176	166	154	
12	14	25	35	43	51	62	
	293	287	282	277	268	257	
15	13	24	34	42	50	62	
	371	365	360	355	347	338	
Max.cont.	10	21	31	39	48	59	
Max.int.		7	19	29	37	44	56
	497	492	487	480	472	463	
	7	19	29	37	44	56	
Max.int.							
	622	617	612	607	600	591	

BMM50 [50.3 cm³/rev.]
Pressure (MPa)

Flow (L/min)	Max.cont.					Max.int.
	1.5	3	5	7	10	
2	11	23	36	50		
	37	33	27	22		
4	11	22	36	50	70	
	76	73	68	63	55	
8	11	21	35	50	71	
	157	154	149	145	137	
12	11	20	33	49	71	
	237	234	231	226	218	
15	10	18	32	47	69	
	296	295	294	288	282	
Max.cont.	8	14	29	44	64	
Max.int.		7	23	39	59	81
	395	395	393	390	381	
	4	10	25	40	59	
Max.int.						
	498	496	494	490	484	

Torque (N·m) 37
Speed (rpm) 607

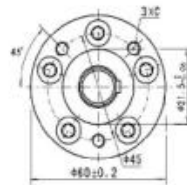
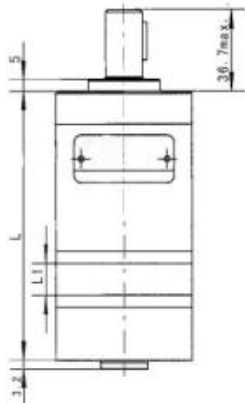
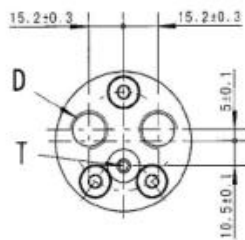
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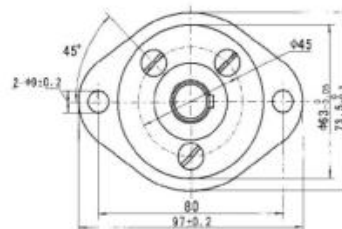
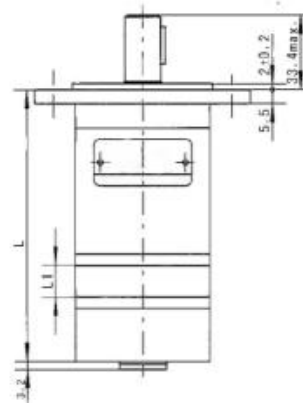
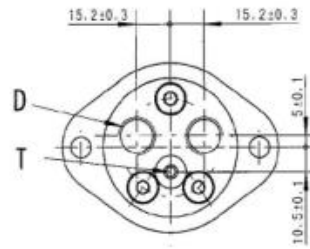
BMM END PORT DIMENSIONS AND MOUNTING DATA

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

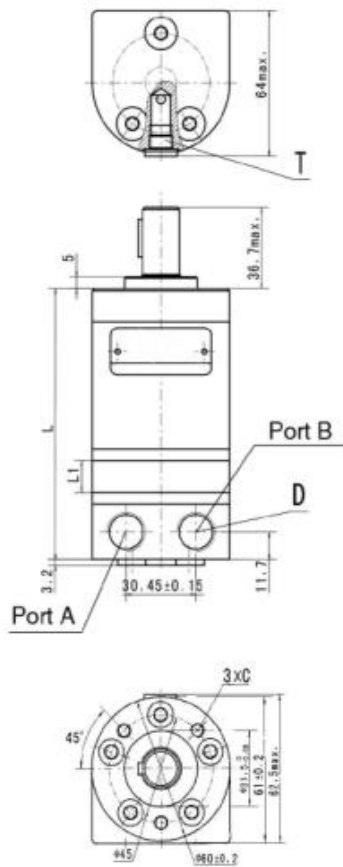
Code	M, U Flange		F Flange	
	1E (depth)	1U (depth)	1E (depth)	1U (depth)
C	3-M6 (10)	3-1/4-28UNF-2B(10)	--	--
D	G3/8 (12)	9/16-18UNF(12)	G3/8 (12)	9/16-18UNF(12)
T	G1/8 (8)	3/8-24UNF(8)	G1/8 (8)	3/8-24UNF(8)



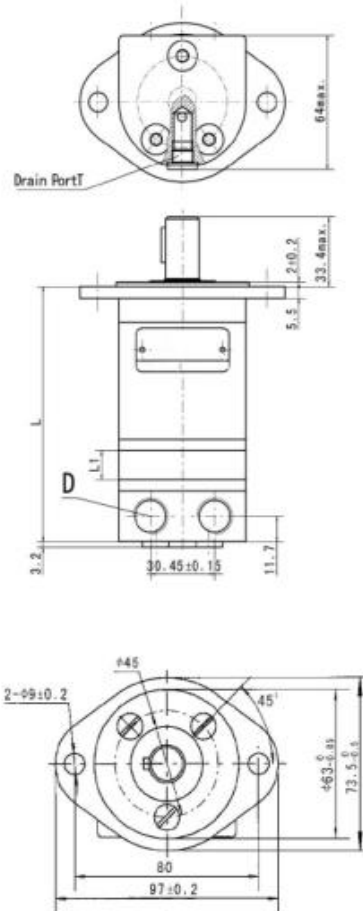
BMM SIDE PORT DIMENSIONS AND MOUNTING DATA

MOUNTING

Flange M, U



Flange F



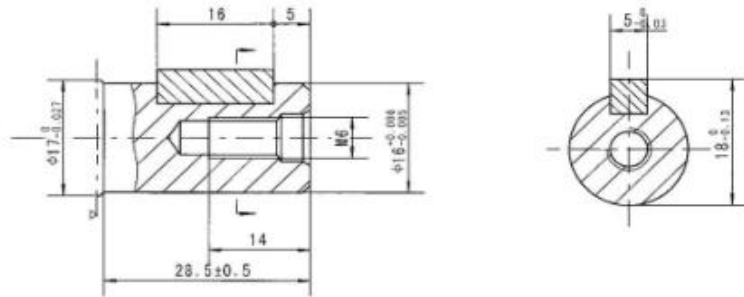
Model	M, U Flange		F Flange	
	L	L1	L	L1
BMM8	105	3.5	108.5	3.5
BMM12.5	107	5.5	110.5	5.5
BMM20	110	8.5	113.5	8.5
BMM32	115	13.5	118.5	13.5
BMM40	118.5	17	122	17
BMM50	123	21.5	126.5	21.5

Mounting	Code	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)	

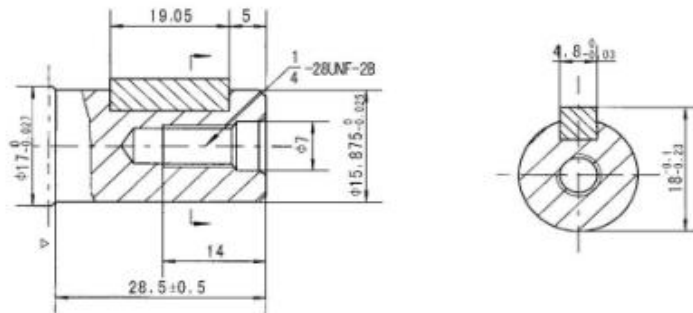


BMM SHAFT EXTENSIONS FOR BMM MOTORS

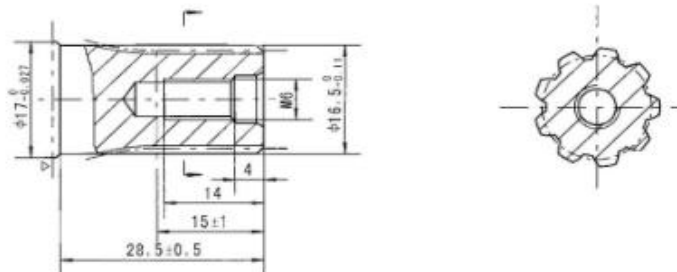
Shaft A: Cylindrical shaft $\varnothing 16$
Parallel key 5x5x16



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



Shaft C: Involute splind shaft
B17x14 DIN5482



▷ Motor Mounting Surface