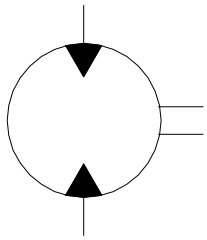
YMM SERIES HYDRAULIC MOTOR

YMM series motors 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.

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.



Graphical Symbol

SPECIFICATIONS:

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Type		YMM 8	YMM 12.5	YMM 20	YMM 32
Geometric Displacement (cm³/rev.)		**8.2**	**12.9**	**19.9**	**31.6**
Max. Speed (rpm)	Cont.	1950	1550	1000	630
	Int.	2450	1940	1250	800
Max. Torque (Nm)	Cont.	11	16	25	40
	Int.	15	23	35	57
	Peak	21	33	51	64
Max. Output (kW)	Cont.	1.8	2.4	2.4	2.4
	Int.	2.6	3.2	3.2	3.2
Max. Pressure Drop (MPa)	Cont.	10	10	10	10
	Int.	14	14	14	14
	Peak	20	20	20	16
Max. Flow (L/min.)	Cont.	16	20	20	20
	Int.	20	25	25	25
Weight (kg)		1.9	2.0	2.1	2.2

Type		Max. Inlet Pressure
YMM 8-32 (MPa)	Cont.	17.5
	Int.	22.5

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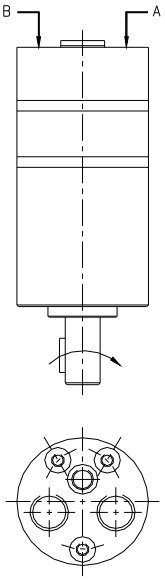
* Continuous pressure : Max. value of operating motor continuously.
* Intermittent pressure : Max. value of operating motor in 6 seconds per minute.
* Peak pressure : Max. value of operating motor in 0.6 second per minute.

❑ MODEL NUMBER DESIGNATION:

YMM	-8	-F1	-K1	-A		-R	-00	-00	-10
Model Number	Displacement	Type of Flange Mounting	Type of Shaft	Port Sizes		Rotation Direction	Paint	Special Features	Design* Number
				Main Ports (A&B)	Drain Port	As viewed from shaft end			
YMM	**8** **12.5** **20** **32**	**F1:** 3-M6 Circle-flange, spigot Ø31.5x5□	**K1:** Shaft Ø16, parallel key 5x5x16	End Port G3/8	G1/8	**R:** Clockwise when port "A" is pressurized **L:** Counter-clockwise when port "B" is pressurized	**00:** No paint	**00:** Standard	**10**

* Design numbers subject to change but installation dimensions remain as shown.



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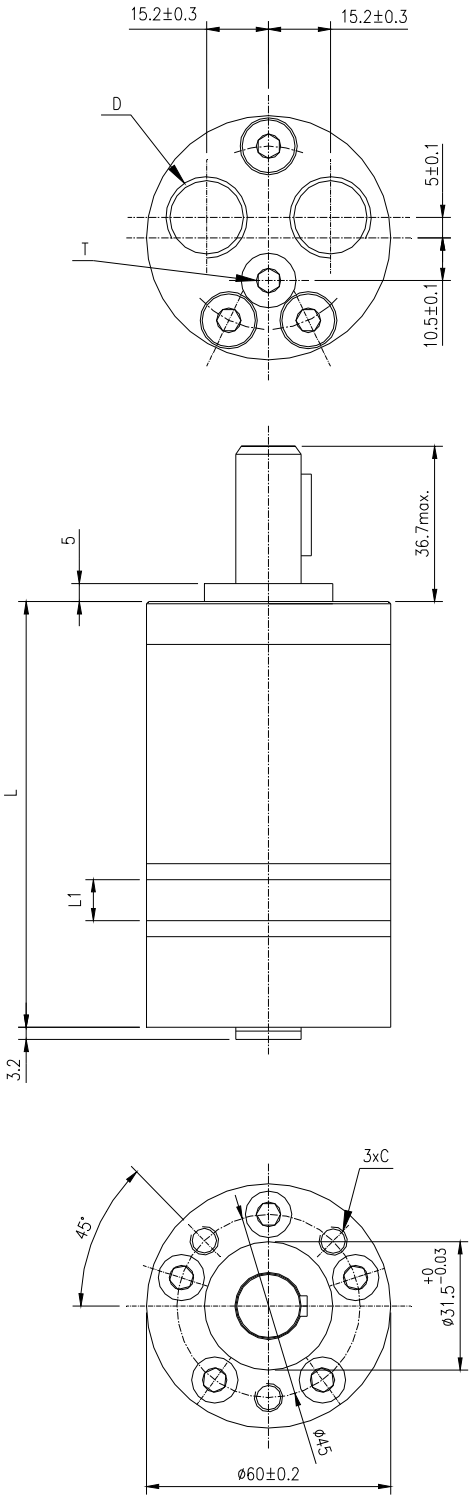
MOUNTING DETAILS:

DIMENSIONS IN MILLIMETRES



	M Flange	
Model	L	L1
BMM8	104	3.5
BMM12.5	106	5.5
BMM20	109	8.5
BMM32	114	13.5

	M Flange
Code / Mounting	1E(Depth)
C	3-M6 (10)
D	G3/8 (12)
T	G1/8 (8)

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❑ PERFORMANCE DATA:

YMM8 (8.2 cm³/rev.)

Flow (L/min) \ PRESSURE (MPa)	3.5	5	7	10 (Max.cont)	12	14 (Max.int)
2	3 228	5 218	8 206	10 156	12 111	14 58
4	3 474	5 471	7 463	11 426	13 391	15 331
8	3 953	5 946	7 926	11 884	13 855	15 816
12	2 1444	5 1426	7 1402	10 1360	13 1324	15 1288
15 (Max.cont)		4 1912	7 1900	10 1861	12 1833	14 1780
20 (Max.int)		0 2432	6 2395	10 2350	11 2328	14 2281

YMM12.5 (12.9 cm³/rev)

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

YMM20 (19.9 cm³/rev)

Flow (L/min) \ PRESSURE (MPa)	2	3.5	5	7	10 (Max.cont)	12	14 (Max.int)
2	7 61	15 57	21 52	28 47	40 16		
4	7 126	15 121	21 114	29 106	41 82	48 67	57 49
8	7 250	15 244	21 239	29 231	41 207	49 194	58 167
12	6 378	13 374	20 369	28 362	40 338	48 322	58 297
15	4 476	12 472	18 468	27 462	39 441	47 429	57 406
20 (Max.cont)	3 633	10 630	17 627	25 619	37 601	46 585	55 566
25 (Max.int)	1 791	8 789	15 787	23 783	35 766	43 753	52 732

YMM32 (31.6 cm³/rev)

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

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