



BMH 系列液压马达

BMH SERIES HYDRAULIC MOTOR

BMH series motor adapt the advanced Geroler gear set design with shaft distribution flow, which can automatically compensate in operating with high pressure, provide reliable and smooth operation, high efficiency and long life.

Characteristic features:

- *Advanced manufacturing devices for the Geroler gear set, which use low pressure of start-up, provide smooth, reliable operation and high efficiency.
- *Shaft seal can bear high pressure of back and the motor can be used in parallel or series.
- *Special design in the driver-linker and prolong operating life.
- *Special design for distribution system can meet the requirement of low noise of unit.
- *Compact volume and easy installation.

Main Specifaion

Type		BMH 200	BMH 250	BMH 315	BMH 400	BMH 500
Geometric displacement (cm ³ /rev.)		203.2	255.9	316.1	406.4	489.2
Max. speed (rpm)	cont.	366	290	236	183	155
	int.	439	348	282	220	184
Max. torque (N•m)	cont.	510	621	740	850	830
	int.	579	702	827	990	1040
	peak	651	790	980	1092	1170
Max. output (kW)	cont.	16	16	14	12.5	11
	int.	18.5	18.5	15.5	15	14
Max. pressure drop (MPa)	cont.	17.5	17.5	17.5	15.5	12.5
	int.	20	20	20	19	16
	peak	22.5	22.5	22.5	21	18
Max. flow (L/min)	cont.	75	75	75	75	75
	int.	90	90	90	90	90
Weight (kg)		10.5	11	11.5	12.3	13

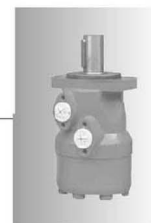
Type		Max.inlet pressure	Max.return pressure with drain line
BMH200-500 (MPa)	cont.	200	175
	int.	225	200
	peak	250	225

- * 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.
- * Technical data BMH with 35mm cylindrical, 1 1/4 in splined and 35mm tapered shaft.



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Performance Data

BMH 200 [203.2cm³/rev.]

		Pressure (MPa)						Max.cont.	Max.int.
		3.5	7	10.5	14	17.5	20		
Flow (L/min)	5	98	194	284					
		25	25	22					
	10	101	204	301	391	482			
		43	41	36	29	14			
20		99	201	304	402	509	576		
		100	97	93	85	69	56		
		97	197	300	402	510	579		
		145	143	139	130	114	101		
30		90	190	292	399	507	578		
		200	200	200	188	168	153		
		82	183	284	392	500	571		
		248	246	244	235	213	199		
40		73	174	274	384	493	563		
		292	290	287	279	260	244		
		63	163	264	374	481	554		
		352	350	349	338	318	301		
50		59	157	259	366	475	547		
		366	365	363	355	335	319		
		53	150	253	358	466	538		
		381	381	380	371	352	338		
60		39	140	241	348	456	526		
		443	437	434	426	407	392		

BMH 250 [255.9cm³/rev.]

		Pressure (MPa)						Max.cont.	Max.int.
		3.5	7	9	12	14.5	17.5	20	
Flow (L/min)	5	121	246	318	398				
		19	19	18	14				
	10	130	258	331	425	515	595		
		34	33	31	29	23	12		
20		130	258	332	432	520	621	702	
		78	77	76	73	65	53	42	
		122	251	327	429	520	621	700	
		115	113	111	105	96	84	75	
30		115	240	323	422	513	616	698	
		157	157	156	150	139	127	114	
		105	232	314	411	505	606	687	
		196	195	192	185	173	159	147	
40		94	220	302	401	496	596	676	
		232	230	226	218	206	192	180	
		81.4	209	288	389	484	582	666	
		274	274	274	266	252	238	222	
50		72	203	280	381	475	574	659	
		290	289	287	279	266	251	236	
		65	194	273	371	467	566	651	
		303	302	298	290	279	264	249	
60		49	178	256	355	453	552	634	
		348	347	345	337	325	309	292	

BMH 315 [316.1cm³/rev.]

		Pressure (MPa)						Max.cont.	Max.int.
		3.5	7.5	10	13.5	15.5	17.5	20	
Flow (L/min)	5	155	325						
		16	13						
	10	163	342	454	556				
		27	24	18	14				
20		169	349	469	582	664	733	809	
		63	61	55	48	40	32	19	
		165	344	470	580	669	740	824	
		93	89	82	77	67	59	46	
30		154	337	465	577	663	737	827	
		126	126	119	111	99	88	73	
		141	325	455	568	656	728	824	
		159	155	148	139	126	115	98	
40		121	312	440	555	643	715	812	
		187	186	179	169	154	143	124	
		103	298	425	541	631	703	800	
		222	222	215	205	187	176	157	
50		94	287	417	529	623	696	792	
		236	233	224	215	196	184	166	
		82	277	406	518	611	688	784	
		246	244	236	228	210	197	174	
60		62	256	386	496	593	669	767	
		282	280	275	266	248	234	209	

BMH 400 [406.4cm³/rev.]

		Pressure (MPa)						Max.cont.	Max.int.
		3.5	6	10.5	12.5	15.5	19		
Flow (L/min)	5	196	348	515					
		13	13	10					
	10	205	363	546	702	859			
		22	21	21	17	11			
20		209	366	543	708	874	988		
		50	49	46	41	36	31		
		201	357	542	706	864	984		
		73	72	70	63	56	51		
30		195	346	532	701	858	973		
		99	98	96	86	77	71		
		173	332	518	687	848	958		
		123	122	118	107	97	90		
40		154	319	501	668	833	944		
		146	144	141	128	115	106		
		138	305	480	649	814	925		
		174	173	169	156	141	130		
50		128	294	466	637	802	911		
		183	181	177	163	149	138		
		113	277	451	621	786	899		
		192	191	188	174	158	144		
60		90	256	433	595	767	881		
		220	220	215	202	183	165		

Torque (N·m) 593
Speed (rpm) 248

cont.
int.

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Performance Data

BMH 500 [489.2cm³/rev.]

Pressure (MPa)

Max.cont. Max.int.

		2.5	5	8.5	10	12.5	16
Flow (L/min)	5	165 11	317 11	516 8			
	10	178 20	335 19	555 17	669 15	791 13	969 9
	20	177 42	331 42	559 41	673 38	799 36	988 29
	30	172 64	320 63	553 61	663 57	792 53	983 47
	40	163 85	309 85	541 83	654 79	783 75	971 67
	50	146 103	296 103	523 103	635 97	768 93	954 85
	60	121 124	275 124	502 123	614 117	747 113	934 103
	70	97 148	256 148	482 148	597 140	729 134	917 122
	Max.cont. 75	79 155	240 155	469 155	582 152	714 144	902 130
	80	60 166	226 166	453 166	570 159	701 153	884 139
Max.int. 90		34	201	421	550	673	869
		184	183	182	177	166	155

☐ cont.
☐ int.

Torque (N·m) 673
Speed (rpm) 166

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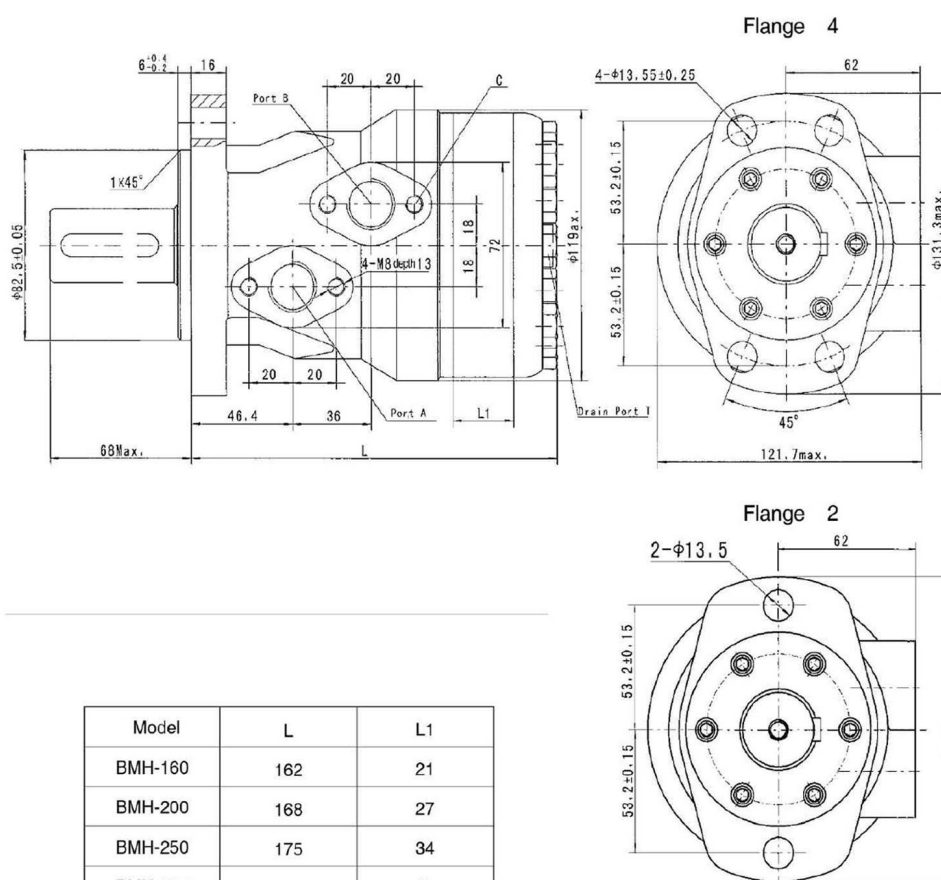
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BMH DIMENSIONS AND MOUNTING DATA



Model	L	L1
BMH-160	162	21
BMH-200	168	27
BMH-250	175	34
BMH-315	184	42
BMH-400	195	54
BMH-500	206	65

Code Mounting	D (depth)	M (depth)	S (depth)	P (depth)	R (depth)
P(A,B)	G1/2 (15)	M22 x 1.5 (15)	7/8-14 O-ring (15)	1/2-14NPTF (15)	PT(RC)1/2 (15)
C	4-M8 (13)	4-M8 (13)	4-5/16-18UNC(13)	4-5/16-18UNC(13)	4-M8 (13)
T	G1/4 (12)	M14 x 1.5 (12)	7/16-20UNF(12)	7/16-20UNF (12)	PT(RC)1/4 1/4

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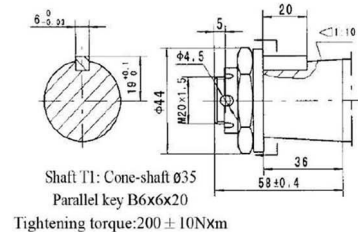
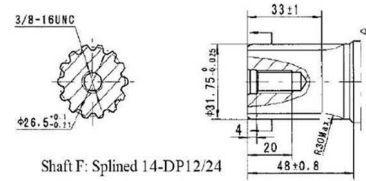
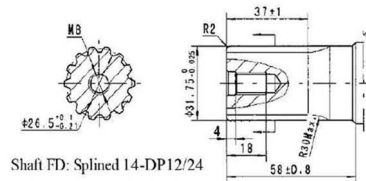
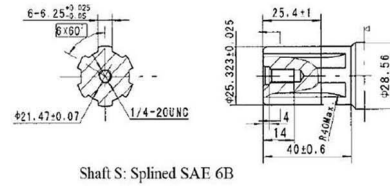
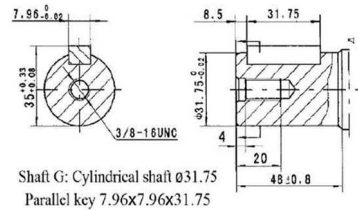
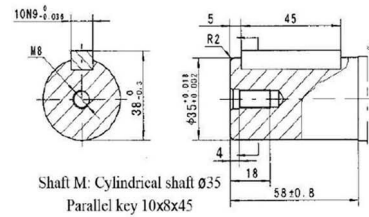
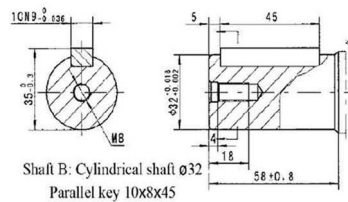
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BMH SHAFT EXTENSIONS DIMINSIONS DATA



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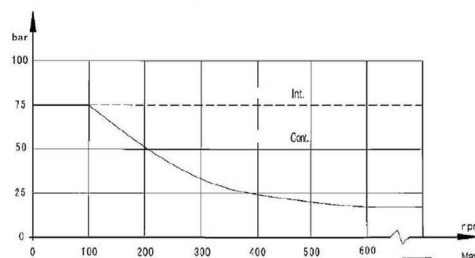
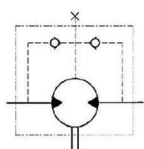


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BMH series Hydraulic Motor

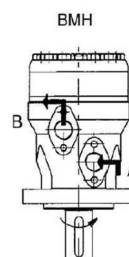
Permissible shaft seal pressure

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

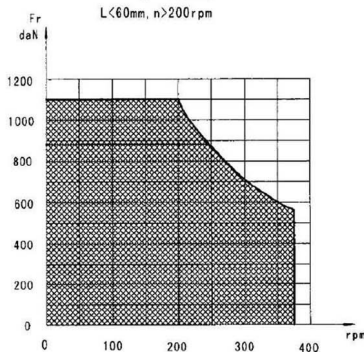
When facing shaft end of motor, shaft to rotate:
Clockwise when port "A" is pressurized.
Counter-clockwise port "B" is pressurized.



Status of the shaft's radial force

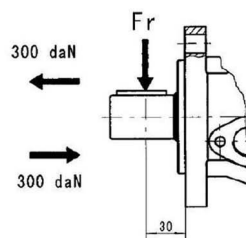
$$F_r = \frac{1100}{n} \times \frac{25000}{103.5 + L} \text{ daN}$$

$L < 60\text{mm}, n > 200\text{rpm}$



— shaft 41" (φ25.4mm) and shaft SAE 08

The drawing is the Possible load when L=30mm.



F_r =Radial Force (daN)
 L =Distance (mm)
 n =Speed (rpm)

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Order Information

1 2 3 4 5 6 7 8
BMH - - - - - - -

Pos.1	2	3	4	5	6	7	8
Code		Flange	Output shaft	Ports and drain port	Rotation direction	Paint	Unusually function
Omit	160 200 250 315 400 500	4 4 × Ø13.5 Rhomb × flange Pilot Ø82.5 × 6 2 2 × Ø13.5 Rhomb × flange Pilot Ø82.5 × 6	B Shaft Ø32 , parallel key 10 × 8 × 45 M Shaft Ø35 , parallel key 10 × 8 × 45 F Shaft Ø31.75, splined key 14-DP12/24 FD Long Shaft Ø31.75, splined key 14-DP12/24 G Shaft Ø32 , parallel key 7.96 × 7.96 × 31.75 T1 Cone shaft Ø35, parallel key B6 × 6 × 20 S Shaft Ø25.4 , parallel key SAE 6B	D G1/2 Manifold mount 4 × M8, G1/4 M M22 × 1.5 Manifold mount 4 × M8, M14 × 1.5 S 7/8-14 O × ring Manifold mount 4 × 5/16-18UNC, 7/16-20UNF P 1/2-14 NPTF Manifold mount 4 × 5/16-18UNC, 7/16-20UNF R PT(Rc) 1/2 Manifold mount 4 × M8, PT(Rc)1/4	Omit R Standard Opposite	Omit B S No paint Blue Black Silver grey	Omit O F LS Standard No drain Free Running Low Speed

Note: When the table is used, please fill the code of left rows in dash area 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.

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