Edition: B/07
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BMP-BMR-BMH



Usage Guide

In order to make the motors working in optimal situation, we recommend the following:

- 1. Oil temperature :normal 20℃~60℃ upper limit 90℃ (no more than one hour).
- 2. Filtering and oil cleanliness :a return filter should be installed in the system with a fineness in the range of $10\sim30\mu m$ and a piece of magnet should be installed at the bottom of the tank to prevent grits into the system. The max solid contamination grade of the oil is no more than 19/16.
- 3. Viscosity: $42\sim74$ mm²/s at 40% of oil temperature ,according to the condition to choose an applicable hydraulic oil.
- 4. The motors can be operated in parallel or series. When the pressure of the back exceeds 2Mpa,it is necessary to install an external drain line to the tank.
- 5. For BMP and BMR series motors, the type of output shaft may be chosen in demand.
 - 5.1. The output shaft permits a radial force with the radial bearing.
 - 5.2. The output shaft doesn't permit the radial force without the radial bearing. When the radial force acts on the shaft, the force must be discharged.
- 6. The optimal operation situation should be at the $1/3\sim2/3$ of the rated operation situation.
- 7. In order to obtain a longer life of operating motor should operate motors at first for one hour under 30% of rated pressure. In any case, be sure to fill up with hydraulic oil inside motor before increasing load.

Specification Data of Hydraulic Motor

distribution type	model	displacement	Max. operating pressure	speed range	Max. output power
distribution type	model	(cm³/rev.)	(MPa)	(rpm)	(kw)
	ВМР	50~400	16.5	30~879	10
axial distribution	BMR	50~375	20	30~970	15
axiai distribution	вмн	200~500	20	30~430	17

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BMP Series Hydraulic Motor

BMP 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.

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

Туре	Туре		BMP BMPH 80	BMP BMPH 100	8MP 8MPH 125	BMP BMPH 160	BMP BMPH 200	8MP 8MPH 250	ВМР ВМРН 315	8 M P H 400
Geometric displacement (cm ¹ /rev.)		51.7	77.7	96.2	117.0	155.5	180.0	231	311.7	386.2
171	rated	850	650	520	390	310	260	200	156	130
	cont.	879	740	589	475	370	296	237	189	149
Max. speed (rpm)	Int.	975	827	673	594	463	370	297	236	185
	rated	81	129	161	202	204	259	325	345	435
	cont.	.81	129	161	202	245	286	360	406	435
Max. torque (N+m)	int	108	171	213	268	342	390	456	505	533
	rated	7	8.6	8.6	8	6.5	6.9	6.6	5.5	5.8
	cont.	7	9.1	9	9.1	8.7	8.1	8.2	7.2	6.1
Max. output (kW)	int.	8.9	11.8	11.9	11.8	11.9	10.9	10.1	8.6	7.2
	rated	12.5	12.5	12.5	12.5	10	10	10	8.5	8.5
	cont.	12.5	12.5	12.5	12.5	12.5	11	11	11	10
Max. pressure	int.	16.5	16.5	16.5	16.5	16.5	16.5	14	12.5	10.5
drop (MPa)	peak	16.5	16.5	16.5	16.5	16.5	16.5	14	12.5	10.5
	rated	45	55	55	55	55	55	55	55	55
	cont.	45	60	60	60	60	60	60	60	60
Max. flow (L/min)	int.	50	75	75	75	75	75	75	75	75
Weight (kg)		5.6	5.7	5.9	6	6.2	6.4	6.6	6.9	7.4

- * Rated speed and rated torque:output value of speed and torque under rated flow and rated pressure.
- * Continuous pressure: Max. value of operating motor continuously.
- st 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.



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PERFORMANCE DATA

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		11	18	44	93	1.61	700	TW.	104
		1.04	140	194	141	100	120	126	167
	111	1.0	1.10	4.4	31	3.64	71	10.	.101
	15	282	786	238	237	225	167	250	21
	100	17	18	44	100	9.5	71	- 600	330
	.11	380	385	316	10%	334	347	344	331
Н		19.		44	-51	+4	- 71	01	3104
	11	130	379	577	568	347	350	386	531
3	37.	1.6	146	41	64	43	71	88	190
	-88	483	879	670	660	454	647	481	611
	lic.	14	.34	43.	40	6.1	20	60	160
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	93	14	111	81	-04	79	74	134
	24	1.60	71	1.81	121	318	148	179
15	1.54	181	128	128.	171	163	167	140
-	28	.00	. 23	.81	387	312	129	121
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	34	37	- 88	74	96	910	136	333
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-	- 24	33	. 84	73	14	507	123	THE
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	11	133.	.25	. 831	131	.126	HAT	168	211
	16	149	145	141	341	117	194	128	184
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77	26	349	245	344	341	310	216	739	391
		3.6	88	8.1.	198	1139	133	19.0	331
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	311	173	174	13%	168	164	182	7130
		8.3	141	339	159	247	177	380
	.46	1337	221	238	311	316	111	341
		50	130	168	100	244	172	179
	18	280	240	744	264	29.2	439	42
	JU &	36	156	163	191	243	169	32
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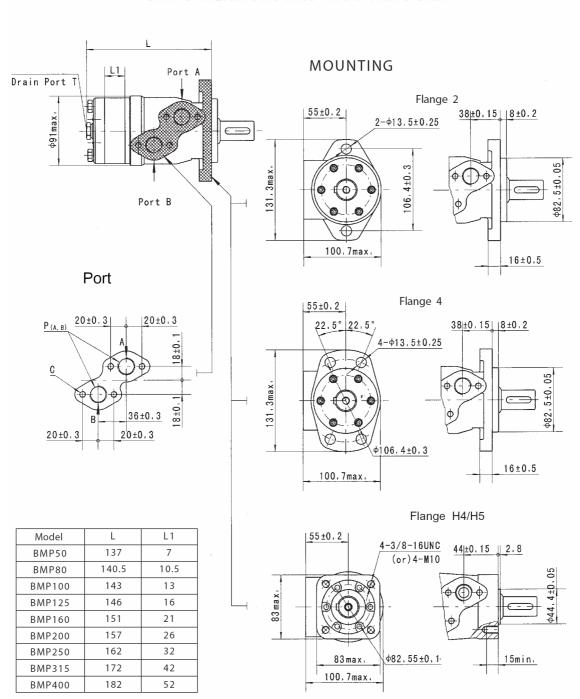
		16	7	. 8	9.5	Ш
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- NOTICE -



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BMP DIMENSIONS AND MOUNTING DATA

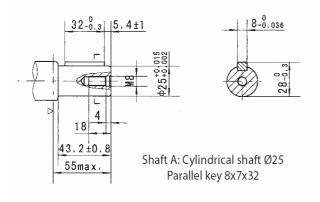


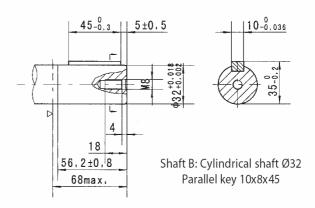
Code Mounting	D (depth)	M (depth)	S (depth)	P (depth)	R (depth)
P(A,B)	G1/2 (15)	M22 x 1.5 (15)	7/8-14 O-ring (17)	1/2-14NPTF (15)	PT(RC)1/2 (15)
С	4-M8 (13)	4-M8 (13)	4-5/16-18UNC(13)	4-5/16-18UNC(13)	4-M8 (13)
Т	G1/4 (12)	M14 x 1.5 (12)	7/16-20UNF (12)	7/16-20UNF (12)	PT(RC)1/4 (9.7)

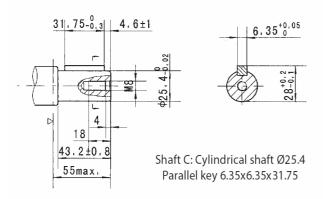


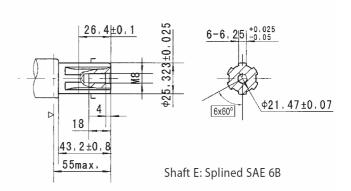
Edition: B/07
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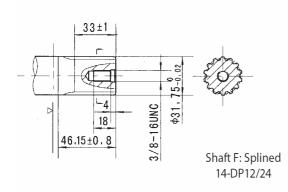
SHAFT EXTENSIONS FOR BMP MOTORS

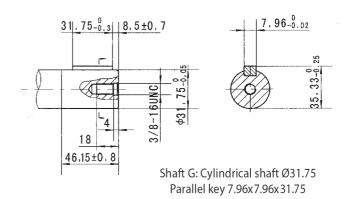












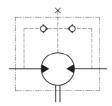
- NOTICE -

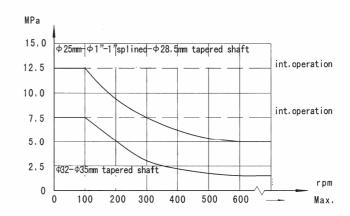


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BMP、BMPH Series Hydraulic Motor

Permissible shaft seal pressure

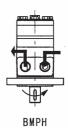




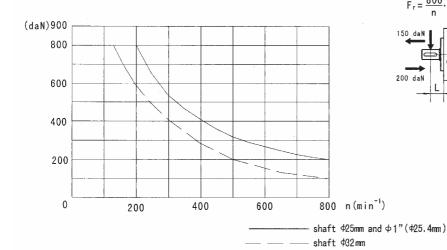
In applications without drain line, output shaft seal exceeds a bit of the pressure in the return line. When applications use the drain line, the pressure of output shaft seal equals the pressure in drain line.

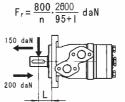
Direction of shaft rotation





Status of the shaft's radial force





Fr =Radial Force .(daN)
L =Distance (mm)
n =Speed (rpm)
Rhomb-flange L=30mm
Square-flange L=24mm

- NOTICE -



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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.

		Unusually Function	Standard Big radial force	Big axial force
	8	nusually	None S	A A N N N N N N N N N N N N N N N N N N
∞		⊃		
_	7	Paint	No paint Blue	Black Silver gray
			00 None	ω ν
9	9	Rotation Direction	Standard	Opposite
7.		Rotat	None	α
2 3 4	5	Port and Drain Port	G1/2 Manifold Mount 4 × M8, G1/4 M22 × 1.5 Manifold Mount 4 × M8, M14 × 1.5 7/8-14 O-ring manifold 4x5/16-18UNC, 7/16-20UNF 1/2-14 NPTF Manifold 4x5/16-18UNC, 7/16-20UNF PT(Rc)1/2 Manifold 4xM8, PT(Rc)1/4	G1/2 G1/4 7/8-14 O-ring 7/16-20UNF (G1/4) 1/2-14 NPTF, 7/16-20UNF (G1/4) 3/4-16 O-ring, 7/16-20unf PT(Rc)1/2 PT(Rc)1/4 Ø10 O-ring manifold 4x5/16-18UNC,7/16-20UNF(G1/4) Ø10 O-ring manifold 4xM8 7/16-20UNF(G1/4)
			0 × × ×	S T T R 8 8 4 8 5 8 6 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
			2 2 B B B B B S 2 2 S 2 S 2 S 2 S 2 S 2	8 0 1
B M P	4	Output Shaft	Shaft Ø25, parllel key 8 × 7 × 32 Shaft Ø32, parllel key 10 × 8 × 45 Shaft Ø25.4, parllel key 6.35 × 6.35 × 31.75 Shaft Ø25.4, splined key SEA 6B Short shaft Ø25.4, parllel key6.35 × 6.35 × 31.75 Shaft Ø31.75, splined key 14- DP12/24 Long shaft Ø31.75, splined key14- DP12/24 Shaft Ø31.75, parllel key 7.96 × 7.96 × 31.75 Cone shaft Ø28.56, parllel key B5 × 5 × 14 Cone shaft Ø31.75, parllel key B5	Shaft @25.4, woodruff key @25.4 x 6.35 Shaft @25.4, splined key SEA 6B Shaft @25.4, parllel key 8 x 7 x 32 Shaft @25.4, parllel key 6.35 x 6.35 x 6.35 x 3.1.75 Shaft @25.4, pin hole @10.3 Shaft @25.4, pin hole @8 Shaft @22.22, parllel key 6.35 x 6.35 x 6.35 x 25.4 Shaft @22.22, splined key 13-DP16/32 Cone shaft @25.4, woodruff key @25.4 x 6.35 Shaft @25. parllel key 8 x 7 x 28 Shaft @25, parllel key 8 x 7 x 28
BMP 1	4	Output Shaft	4 B D F E T T T T T T T T T T T T T T T T T T	A NAM HHO - L GJ
	3	Flange Output Shaft		
		Flange	4 B D F E T T T T T T T T T T T T T T T T T T	flange , A flange , H H H H H H H H H H H H H H H H H H
Order Information 1			A 2-Ø13.5 Rhomb-flange , E pilot Ø82.5 x 8 4-Ø13.5 Rhomb-flange , pilot Ø82.5 x 8 F 4-3/8-16 Square-flange , pilot Ø44.4 x 2.8 pilot Ø44.4 x 2.8	H2

- NOTICE -

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BMR Series Hydraulic Motor

BMR series motor adapt the advanced Gerolor 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 Gerofor 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 Specification

Туре		BMR BMR5 50	BMR BMR5 80	BMR BMRS 100	BMRS 125	BMR BMR5 160	BMR BMR5 200	BMR BMRS 250	BMR BMRS 315	BMR BMRS 375
Geometric displacement (cm [*] /rev.)		() 51.3	80.6	100.8	124.9	157.2	109.2	252	314.5	370
	rated	755	750	600	475	375	300	240	190	160
Max. speed (rpm)	cont	970	940	750	600	470	375	300	240	200
	rated	100	160	200	250	320	330	352	360	420
	cont.	100	190	240	292	363	358	352	360	420
Max. torque (N*m)	int.	126	220	280	340	430	448	470	470	548
	rated	7.7	12.3	12.3	12.0	12.3	10	9	7	6.5
	cont.	7.7	15	15	14	14	11	9	7	8.6
Max. output (kW)	int.	9.7	17	17	16	16	14	12	9	12
	rated	14	14	14	14	14	12	11	8.5	8.5
Max. pressure	cont.	14	17.5	17.5	17.5	16.5	13	11	8.5	8.5
drop (MPa)	int.	17.5	20	20	20	20	17.5	14	11.5	11.5
	cont.	40	60	60	60	60	60	60	60	60
Max. flow (L/min)	int.	50	75	75	75	75	75	75	75	75
Weight (kg)		6.7	6.9	6.9	7.2	7.5	8.0	8.5	9	9.3

- $* \ \ \mathsf{Rated} \ \mathsf{speed} \ \mathsf{and} \ \mathsf{rated} \ \mathsf{torque} : \mathsf{output} \ \mathsf{value} \ \mathsf{of} \ \mathsf{speed} \ \mathsf{and} \ \mathsf{torque} \ \mathsf{under} \ \mathsf{rated} \ \mathsf{flow} \ \mathsf{and} \ \mathsf{rated} \ \mathsf{pressure}.$
- * 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.



Edition: B/07
Publication: 18/09/07

PERFORMANCE DATA

		BH B	50.(5)	.3(m	February .				
		Freeze	RIV.	Mily			-		
		. 0	. 1		10	- 13	11	34	17.4
		111	91	81.	- BT	73	. 118		III.
	14	- Set	64	71	21.	66	.46		1150
	-112	.11	. 46	. 62	89	. 10	- 95	7100.	3.00
	-11	1294	178	165	162	150	110	115	84
£ :		- 15	49	82	:74	10	100	100	(11)
£.	115	2001	217	298	Sel	3.16	210	211	180
=		34.8	47	1110	890	11)	.04	1000	130
9	31	377	ATT.	10.1	861	3.96	310	108	204
2	100	134	- 45	343	199.	41	96	3108.	131
	111	400	410	441	451	428	413	100	391
	110	- 90.	44	88.	-8.7	- 80	99	718	134
	111	STW	908	381	354	140	521	DOM:	467
		0.00	- 40	3.8	80	. 10	.01	ODV:	128
	m.	864	665	987	154	1536	112	386	381
	111	- 88	: 40	18	.34	7.79	93	100	132
_	31	.706	716	710	750.	756	724	206	678
		19.0	48	100	6.6	130	. 86	100	131
-	146	Mis.	m	200	188	100	m	708	res

		Free	Into 1	MPs			-		040
		1	. 7		11	12	311	18	113
. 1		111	177	. 86	101	110	199	150	180
1	:10:	133	189	195	901	50	. 13	35.	4.0
	-	118	11.5	185	118	132	100	138	189.
	20	258	235	227	224	208	198	122	1900
		.40	74	: 41	1114	rtin.	110	179X	196
	30	1004	160	1117	191	312	2017	166	354
		43.	771	365	101	139	(10)	(22:	0.00
	40	408	482	47%	400	460	647	435	300
	550	47.	7.9	. 80	.98	121	192	131	THE
	50.	419	931	ART	170	101	366	147.	111
	100	3.6	1.85	- 83	.91	116	142	166	-000
	30	746	715	330	311	700	011	147	421
		. 11	-1.0	. P(1	990	112	:133	188	376
	30.	904	850	639	127	820.	615	199	379.
1	11500	28	56	2%	360	333	111	187	377
	.76	429	2015	950	900	304	871	Het X	OUT

		Press		00.8c	14 (90)	1			
		13		9	19	31.3	14	15.	m
		7.0	106	1.22	118	1111	186	200	1333
	100	10	- 91	82	9.8	24	11	32	91
		100	195	.030	143	100	100	THU	134
	20	198	199	188	182	171	162	110	136
T		. 63	:94	128	148	164	194	120	140
1	.33	299	204	218	234	278	380	200.0	136
=		19	109	1111	134	111	192	2000	336
3	42	900	.000	887	185	182	186	182	236
2		35	000	4.12	135	157	165	297	225
	.11	400	814	wei	494	678	485	410	100
		46	Th	111	110	1112	186	214	233
	10	319	201	587	181	101	188	SEE	100
	7.11	4.1	76	108	1.13	141	179	341/	139
	.20	ann	893	442	483	429	442	648	Mar.
	1955	1.39	-61	65	105	140	367	1117	100
-	32.5	7.66	181	PAT.	1936	721	1,11	BRE	8,00

		Œ		9		LV.	14	10.	133
1		34	132	189	173	285	107	256	48
-	14	21	711	111	43	. 11	42	:72	1.0
-		15	Tit	158	1321	-285	250	IN	310
d	20	1194	112	1111	190	138	124	189	1.01
d	32/13	112	.107	123	164	199	341	227	391
Н	- Ac.	317	238	233	itta.	211	187	181	. 170
1		.79	105	111	165.	284	138	III	389
	+42	115	111	129	857	183	287	272	310
1	150	75	.86	145	100.	199.	136	382	347
1	24	494	187	191	489	400	198	490	110
1		113	46	133	155:	.00	1111	-134	129
-	90	471	AFT	421	8.7%	du t	260	2.07	410
1		5.9	-83	135	159	178	707	350	183
	140	3114	111	111	192	246	128	356	310
	The same	58	92.	132	145	172	312	343	301
а	186	don.	487	181	494	100	SIPP	hhr.	4.17

		1.1	1.3		140	13	14	10.	CTL
	_	-	12.5				-		-
		118	100	1117	131	Met	950	100	884
	-10.	1.0	53	52	50	- 00	. 56	3+	- 25
	256	114	168	434	130	366	120	860	30
	:20	1318	345	111	189	103	.95	194	E-94
		1111	1111	410	221	241	200	231	10
	300	194	181	177	172	THE.	353	134	1.56
	777	.198	188	199	3.08	155	379	100	ditt
	.40	346	144	329	137	230	210	199	14
	200	189	142	190	299	210	299	196	510
	.50	367	783	167	380	200	390	365	24
		. 84	.006	180	190	3.00	239	138.	314
	90.	376	368	344	362	355	10	134	30
	-	6.6	122	186	180	328	350	800	3140
_	70.	-615	434	430	437	416	495	126	38
	3000	- 37	178	1111	178	120	275	111	14
	Vite	40.0	467	410	450	440	433	416	36

		Page	W19. (MEST		-		-
			3		358	.13	THE	70.
	7	188	311	310	381	TIT	8700	86
	6	41	47	45	43	.00	360	- 14
Г		140	4117	310	177	330	41.1	411
7	Ψ.	9.9	17	. 44	: 60:	.06	78	65
П	П	188	191	241	317	3.26	ROT.	(85)
8	81	140	166	.100	100	131	122	30
		133	188.	1.0	3.01	311	896	14,11
-4	φ.	289	197	143	100	183	170	194
	57	153	177	325.	584	193	181	417
5	0	358	347	342	238	131	210	350
_	╗	110	184	131	3.01	181	3111	311
.0	4.	388	188	281	307	262	186	239
	П		192	21%	334	118	8.91	301
7	ψ	151	147	142	THE	231	314	284
	M	2.5	300	,790	333	SMI.	SEE	,401
ι¥	V.	125	33.0	3 60	361	XXX	DATE	301

cont.

		SMR: Fresh		Six m MPa)	sheet.				
		E.C.	8	1	- At	.19	11	10	100
13		(111)	790	251	205	55.6	169	470	195
	100	40	3.100	11	n	.12	.11	35	1100
- 11		1100	11%	252	294	39.E	785	475.	141
	.99	790	. He	. 19	. 74	28	111	98	Cate
1	100	190	370	248	.265	54.0	183	100	345
. 6	2.50	13200	110	317	116	110	100	XX	-74
20		91	359	230	268	331	164	4111	290
5	11	100	117	156	154	168	148	130	110
1	321	- 80	716	216.	252	331	352	45%	321
	29	190	190	106	195	103	166	152	342
- 13		78	111	201	210	101.6	246	811	181
	100	1041	310	259	133	201	118	210	1100
- 11	-311	180	317	189	218	.294	112	412	485
-	71	390	179	227	276	211	298	250	218
533	10-	10917	100	1000	211	195.	339	4000	Alte.
Sea or	in.	0.00	299	200	2911	241	389	371	238

		Press	ary I	MPs		_		-
		3	. 1	4.2			U	13.1
		133	205	276	341	10	111	254
	100	.41	39	21	21	17	14.	(2
	11.1	2.00	214	388	341	730	100	JIM
	26	180	31	60	:58	- 67	NY.	34
1	100	733	245	375	141	375	494	341
8.	90:	96	312	111	9.0	10	hi.	- N
-	3.17	113	199	197.	311	1107	481	124
8	49	122	131.	120	314	167.	100	304
2	000	.90	173	353	121	332	400	511
	90	188	114	152	349	147	3000	1123
		81	141	.111	111	8.08	#1m	971
	81	188	147	185	329	126	165	150
	216	197	136	418	386	130	244	Altri
_	-20	233	239	317	112	330	1920	105
	1100	. 37	129	388	297	238	420	317
_	2.0	238	234	.231	CHIF	125	400	201

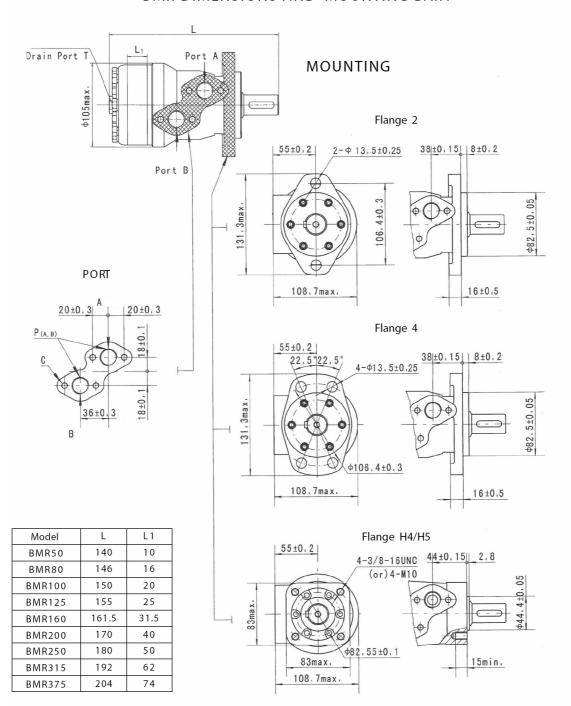
		- 3	16.5			13	915
	160	170	140	420	470	614	91
.10	24	11	3.8	-71	-30	19	31
33	719-	250	144	410	470	346	/UR
100	1.10	1004	101	160	- 67	142	31
A	110	216	139	480	450	539	1865
Je	1.19	.78	27	.71	111	43	161
	708.	240	300	373	430	30K	391
340	-116	225	104	182	189	111	18
100	126	230	295.	380	420	506	831
50	314	311	1.00	129	126	110	139
	100	31R	33K	141	150	400	1,8,9
.00	3.58	316	155	100.	183	147	1791
-		118	pas.	121	310	910	(4.6)
ye.	187	166	185.	185	360	175	16/
000	199	100	3235	Aux.	340	931	111
	19400	-500	109	C/19/5.	103	(43)	E331

- NOTICE -



Edition: B/07
Publication: 18/09/07

BMR DIMENSIONS AND MOUNTING DATA

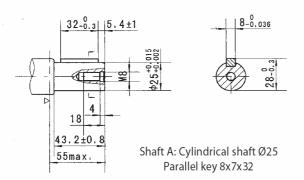


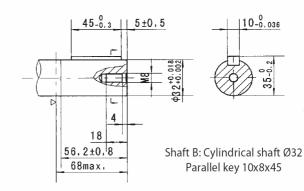
Code Mounting	D (depth)	M (depth)	S (depth)	P (depth)	R (depth)
P(A,B)	G1/2 (15)	M22 x 1.5 (15)	7/8-14 O-ring (17)	1/2-14NPTF (15)	PT(RC)1/2 (15)
С	4-M8 (13)	4-M8 (13)	4-5/16-18UNC(13)	4-5/16-18UNC(13)	4-M8 (13)
Т	G1/4 (12)	M14 x 1.5 (12)	7/16-20UNF (12)	7/16-20UNF (12)	PT(RC)1/4 (9.7)

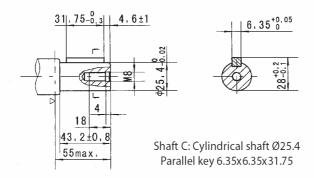


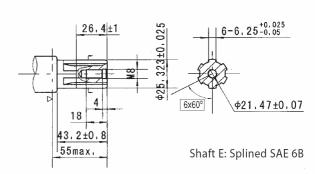
Edition: B/07
Publication: 18/09/07

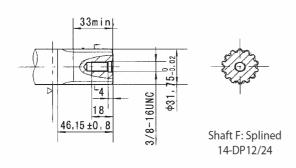
SHAFT EXTENSIONS FOR BMR MOTORS

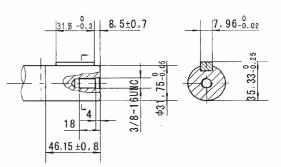




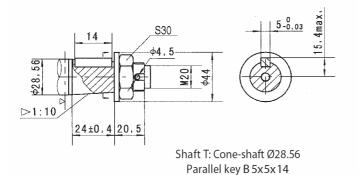


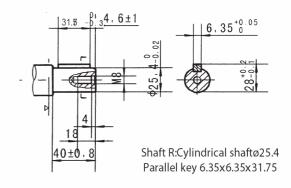






Shaft G: Cylindrical shaft Ø31.75 Parallel key 7.96x7.96x31.75





Tightening torque:100 \pm 10Nm

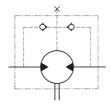
- NOTICE -

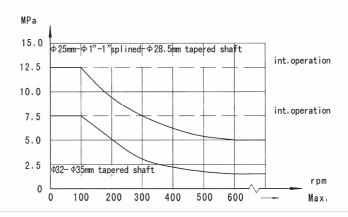


Edition: B/07
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BMR、BMRS Series Hydraulic Motor

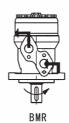
Permissible shaft seal pressure

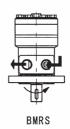


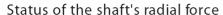


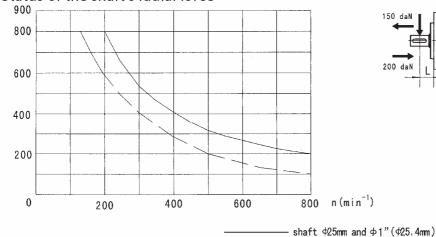
In applications without drain line, output shaft seal exceeds a bit of the pressure in the return line. When applications use the drain line, the pressure of output shaft seal equals the pressure in drain line.

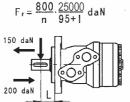
Direction of shaft rotation











Fr =Radial Force (daN)

L =Distance (mm)

n =Speed (rpm)

Rhomb-flange L=30mm Square-flange L=24mm

- NOTICE -

Information may vary with application. All specifications listed are based on the latest product information available at the times of publication. The right is reserved to make changes at any time without notice.

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shaft ¢32mm



B/07 18/09/07 **Edition: Publication:**

8	Unusually Function	Standard	Big radial force	No case drain
	Unusu	Non e	z ×	0
7	Paint	No paint	Blue Black	Silver gray
		00	None B	v
9	Rotation Direction	Standard	Opposite	:
	Rota	None	~	
5	Port and Drain Port	G1/2 Manifold Mount 4-M8, G1/4 M22×1.5 Manifold Mount 4-M8, M14×1.5 7/8-14 O-ring manifold 4-5/16-18UNC, 7/16-20UNF 1/2-14 NPTF Manifold 4-5/16-18UNC, 7/16-20UNF PT(RC)1/2 Manifold 4-M8, PT(RC)1/4	61/2, 61/4	
		B S S D X	U	R H B B A M M M M M M M M M M M M M M M M M
4	Output Shaft	Shaft @25,parallel Key 8 × 7 × 3.2 Shaft @32,parallel Key 10 × 8 × 45 Shaft @25.4,parallel Key 6.35 × 6.35 × 31.75 Shaft @25.4,splined Key SAE 6B Short shaft @25.4, parallel key 6.35 × 6.35 × 31.75 Shaft @31.75,splined Key 14-DP12/24 Shaft @31.75,parallel Key 7.96 × 7.96 × 31.75 Cone-Shaft @28.56, parallel Key B5 × 5 × 14	Shaft @25.4,Woodruff Key @25.4×6.35 Sub-shaft @25.4,splined Key	SAE 68 Shaft @25, parllel key 8×7×32 Shaft @25.4, parllel key 6.35×6.35×31.75 Sub-shaft @25.4, pin hole @8 Shaft @22.22, parllel key 6.35×6.35×25.4 Shaft @22.22, splined key 13-DP16/32 Cone shaft @25.4, woodruff key Ø25.4×6.35 Shaft @25,parallel Key 8×7×28 Shaft @25,parallel Key 7×7×32
		T G F R	× v	. – – 2
-		, <u> </u>		4 R H H D H L D L
æ	Flange	2-Ø13.5Rhomb-flange, pilot Ø82.5 × 8 4-Ø13.5Rhomb-flange, pilot Ø82.5 × 8 4-3/8-16 Square-flange, pilot Ø44.4 × 2.8 pilot Ø44.4 × 2.8		2-Ø13.5Rhomb-flange, pilot Ø82.5 × 2.8 4-Ø13.5Rhomb-flange, pilot Ø82.5 × 2.8 4-3/8-16 Square-flange, pilot Ø44.4 × 2.8 4-M10 Square-flange, pilot Ø44.4 × 2.8 4-Ø11Rectangle-flange, pilot Ø80 × 5 4-Ø11Rectangle-flange, pilot Ø80 × 5
ĸ		2 2-Ø13.5Rhomb-flange, pilot Ø82.5 x 8 4 4-Ø13.5Rhomb-flange, pilot Ø82.5 x 8 H4 4-3/8-16 Square-flange, pilot Ø44.4 x 2.8 H5 4-M10 Square-flange, pilot Ø44.4 x 2.8		H2 2-Ø13.5Rhomb-flange, pilot Ø82.5 × 2.8 H6 4-Ø13.5Rhomb-flange, pilot Ø82.5 × 2.8 H4 4-3/8-16 Square-flange, pilot Ø44.4 × 2.8 H5 4-M10 Square-flange, pilot Ø44.4 × 2.8 Z3 4-Ø11Rectangle-flange, pilot Ø80 × 5 Z5 4-Ø11Rectangle-flange, pilot Ø80 × 5
2 3	Disp. Flange	2-Ø13.5Rhomb-flange, pilot Ø82.5 × 8 4-Ø13.5Rhomb-flange, pilot Ø82.5 × 8 4-3/8-16 Square-flange, pilot Ø44.4 × 2.8 pilot Ø44.4 × 2.8		H2 2-Ø13.5Rhomb-flange, pilot Ø82.5 × 2.8 H6 4-Ø13.5Rhomb-flange, pilot Ø82.5 × 2.8 H4 4-3/8-16 Square-flange, pilot Ø44.4 × 2.8 H5 4-M10 Square-flange, pilot Ø44.4 × 2.8 Z3 4-Ø11Rectangle-flange, pilot Ø80 × 5 Z5 4-Ø11Rectangle-flange, pilot Ø80 × 5

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.

- NOTICE -

BMR

Order Information

Edition: B/07
Publication: 18/09/07

BMH Series Hydraulic Motor

BMH series motor adapt the advanced Gerolor 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 Gerolor 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 Specificaion

Туре	1	8MH 200	8MH 250	8MH 315	8MH 400	BMH 500
Geometric displacement (cm///ev.		203.2	255.9	316.1	406.4	489.2
	sated	263	209	169	131	109
	cont.	366	290	236	183	155
Max. speed (/pm)	int.	439	348	282	220	166
	rated	298	375	454	477	459
	cont.	510	621	740	864	799
Max. torque (N-m)	int.	579	70.2	827	988	971
	peak	651	790	930	1092	1092
	rated	8.2	8.2	8.2	6.6	5.2
	cont.	11.2	9.2	9.8	7.4	6.5
Max. output (kW)	int.	.17	15	13	13	11
	rated	12.5	12.5	12.5	10	8
	cont.	17.5	17.5	17.5	15.5	12.5
Max. pressure	int.	20	20	20	19	16
drop (MPa)	peak	22.5	22.5	22.5	21	18
	rated	60	60	60	60	60
	cont.	75	75	75	75	75
Max. flow (L/min)	int.	90	90	90	90	90
Weight (kg)		10.5	11	11.5	12.3	13

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

- $* \ \ \mathsf{Rated} \ \mathsf{speed} \ \mathsf{and} \ \mathsf{rated} \ \mathsf{torque} : \mathsf{output} \ \mathsf{value} \ \mathsf{of} \ \mathsf{speed} \ \mathsf{and} \ \mathsf{torque} \ \mathsf{under} \ \mathsf{rated} \ \mathsf{flow} \ \mathsf{and} \ \mathsf{rated} \ \mathsf{pressure}.$
- * 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.



Edition: B/07 **Publication:** 18/09/07

PERFORMANCE DATA

		Black Flores		520Y	Tes.		
		11		16.6	719	17.3	10
		91	194	384			
	1	25	.15	1)			
		188	204	381	991	482	
8	10:	49	41	16	79	.14	
11.778		**	JOL	3304	403	508	370
	20	180	0.7	63	85	-61	756
		. 97	197	269	402	511	579
ž.	Jack	145	349	338	110	114	tor:
		8.0	190	290	300	1.67	1196
	40.	200	200	100	196	108	334
		43	1911	3.6+	310	98	1071
	50	248	246	344	215	207	199
		73.	174	224	554	485	561
	ec -	192	290	247	210	166	244
		4.1	1946	341	374	481	433
	70	154	atie:	346	AUD.	318	200
		59.	157	250	300	475	347.
-	TR	188	301	3113	355	335.	31.0
	U.S.	59.	3.500	255	358	48.5	9.58
	40	481	381	386	371	352	139
	E	-9.8	3.80	341	316	458	126
man.	90	443	411	414	476	467	HI

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1		:310.	258	133	417	130	621	711
	20	79	. 33	76	72	45	13	42
Н	12.5	322	251	327	429	520	421	.793
	:10	113	111)	111	100.	Mi	84	0.00
1		314	500	121	411	8.19	416	331
Н	30	1117	102	159	100	129	111	200
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1		94	229	312	401	455	55%	625
	100	252	230	226	218	165	190	388
		81.4	309	180	1604	181	388	981
1	10	274	234	224	166	150	418	332
П		12	203	280	361	425	.57±	151
u	TR.	290	205	185	5179	280	251	220
1		-88	194	223	301	487	368c	.651
Ш	and .	(83.9	344	255	290	279	264	341
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2		1.65	214	429	680	481	T.90.	231
3	30	9.0	40	110	:33	67	141	- 44
-		154	317	461	517	663	737	637
	60	126	126	7116	111	88	66	11
	100	5.41	529	451	566	659	738	83.4
	90	159	111	148	1.19	124	119	98
		121	312	440	533	041	711	493.6
	60	110	18w	179	110	124	141	124
		144	206	401	541	631	P00.	884
	70	122	223	311	203	187	176	157
		94	26T-	417	529	623	396	793
	TR	230	233	224	211	186	1994	168
7717	No.	38	211	1116	312	-611	nas.	79.4
	90	2.80	218	239	218	211	inc	128
		140	214	116	970	,583	m60.	79.7
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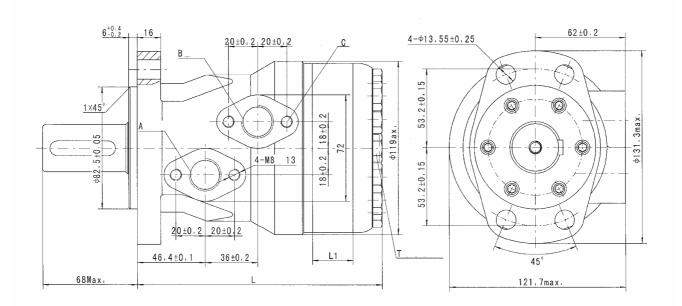
		2.8	1	8.8	10	12.5	- In
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	2	111	110				
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Ξ	16.	20	3.9	17.	16	1.1	
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		172	320	152.	983	792	(80)
8.	11:	- 64	63	61	87	51	4
	1000	168	319	641	654	799	371
	41:	85	8.5	85	79.	-71	91
	J.C.Y	146	255	525	435	768	954
	-51	103	163	103	-97	3.2	8.5
	157	121	375	102	1115	142	9.24
	11	124	124	188	117	111	10.
		97	258	482	597	T10	91.1
	28	148	143	146	140	134	121
		330	340	469	512	TT4:	301
ni.	75	133	155	155.	152	144	0120
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	80	100	788	100	139	193	1.94
	15000	34	285	421	550	.671	.501
ha pr	31	166	165	164	137	K156	333
		2	Torque) (New	1		

\$50H 500 (500 cm//vm)

cont
int.

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BMH Mounting Data



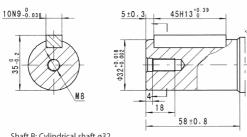
Model	L	L1
BMH-200	168	27
BMH-250	175	34
BMH-315	184	42
BMH-400	195	54
BMH-500	206	65

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)
С	4-M8 (13)	4-M8 (13)	4-M8 (13)	4-M8 (13)	4-M8 (13)
Т	G1/4 (12)	M14 x 1.5 (12)	7/16-20UNF (12)	7/16-20UNF (12)	PT(RC)1/4 1/4

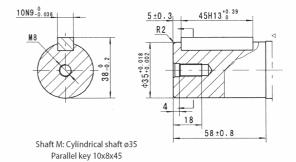


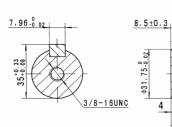
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BMH Mounting Data

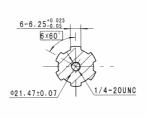


Shaft B: Cylindrical shaft ø32 Parallel key 10x8x45

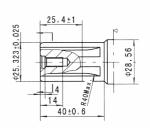


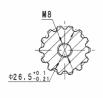


Shaft G: Cylindrical shaft ø31.75 Parallel key 7.96x7.96x31.75

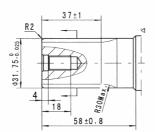


Shaft S: Splined SAE 6B





Shaft FD: Splined 14-DP12/24



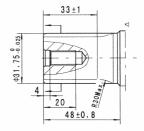
31.75-0.38

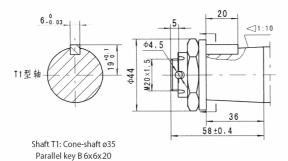
20

48 ±0.8



Shaft F: Splined 14-DP12/24





Tightening torque:200 \pm 10Nxm

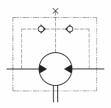
- NOTICE -

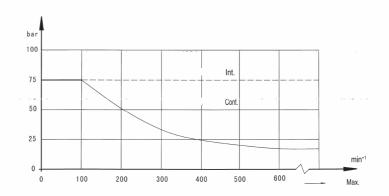


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BMH series Hydraulic Motor

Permissible shaft seal pressure

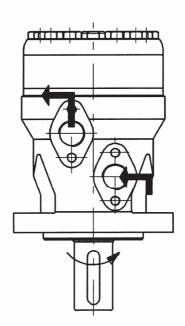




In applications without drain line, output shaft seal exceeds a bit of the pressure in the return line. When applications use the drain line, the pressure of output shaft seal equals the pressure in drain line.

Direction of shaft rotation

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8	Rot. Dir. Paint Unus. Funct.	one Standard No case drain
7	Paint	No paint No paint No no Blue Black S Silver gray
	Dir.	None Standard 00 No B B Choosite B B B S Silve
9	Rot.	None & C
Ŋ	Port and Drain Port	G1/2 Manifold mount 4-M8, G1/4 M22x1.5 Manifold mount 4-M8, M14x1.5 7/8-14 Opposite B Black Oncase drain PT(Rc)1/2 Manifold mount 4-M8, PT(Rc)1/4 Silver gray
4	Output Shaft	B Shaft 032, partlel key 10x8x45 M Shaft 035, partlel key 10x845 F Shaft 031.75. spilined key 14-DP12/24 FD Long Shaft 031.75, spilined key 14-DP12/24 G Shaft 031.75, partlel key 7.96x7.96x31.75 T1 Cone shaft 035, partlel key 86x6x20 Shaft 025.4,partlel key SAE 6B
		8 2 T G 9 T 0
က	Flange	4 4. Ø13.5 Rhombxflange Pilot Ø82.5x6
01	Sode Disp.	200 250 315 400 500

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.

- NOTICE -

Order Information