



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 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 in 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

Technical data for BMR with 25 and 1 in and 1 in splined and 28.56 tapered shaft

Type		BMR BMRS 36	BMR BMRS 50	BMR BMRS 80	BMR BMRS 100	BMR BMRS 125	BMR BMRS 160	BMR BMRS 200	BMR BMRS 250	BMR BMRS 315	BMR BMRS 375
Geometric displacement (cm ³ /rev.)		36	51.7	81.5	102	127.2	157.2	194.5	253.3	317.5	381.4
Max. speed (rpm)	cont.	1085	960	750	600	475	378	310	240	190	155
	int.	1220	1150	940	750	600	475	385	300	240	190
Max. torque (N·m)	cont.	72	100	195	240	300	360	360	390	390	365
	int.	83	126	220	280	340	430	440	490	535	495
	peak	105	165	270	320	370	460	560	640	650	680
Max. output (kW)	cont.	8.5	9.5	12.5	13.0	12.5	12.5	10.0	7.0	6.0	5.0
	int.	9.8	11.2	15.0	15.0	14.5	14.0	13.0	9.5	9.0	8.0
Max. pressure drop (MPa)	cont.	14.0	14	17.5	17.5	17.5	16.5	13	11	9	7
	int.	16.5	17.5	20	20	20	20	17.5	15	13	10
	peak	22.5	22.5	22.5	22.5	22.5	22.5	22.5	20	17.5	15
Max. flow (L/min)	cont.	40	50	60	60	60	60	60	60	60	60
	int.	45	60	75	75	75	75	75	75	75	75
Weight (kg)		6.5	6.7	6.9	7	7.3	7.6	8.0	8.5	9.0	9.5

* 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.

Main Specification

Technical data for BMR with 31.75 and 32 shaft

Type		BMR 36	BMR 50	BMR 80	BMR 100	BMR 125	BMR 160	BMR 200	BMR 250	BMR 315	BMR 375
Geometric displacement (cm ³ /rev.)		36	51.7	81.5	102	127.2	157.2	194.5	253.3	317.5	381.4
Max. speed (rpm)	cont.	1250	960	750	600	475	378	310	240	190	155
	int.	1520	1150	940	750	600	475	385	300	240	190
Max. torque (N·m)	cont.	72	100	195	240	300	380	450	540	550	580
	int.	83	126	220	280	340	430	500	610	690	690
	peak	105	165	270	320	370	460	560	710	840	830
Max. output (kW)	cont.	8.5	9.5	12.5	13.0	12.5	12.5	11.0	10.0	9.0	7.5
	int.	9.8	11.2	15.0	15.0	14.5	14.0	13.0	12.0	10.0	9.0
Max. pressure drop (MPa)	cont.	14.0	14	17.5	17.5	17.5	17.5	17.5	17.5	13.5	11.5
	int.	16.5	17.5	20	20	20	20	20	20	17.5	15
	peak	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	21	17.5
Max. flow (L/min)	cont.	45	50	60	60	60	60	60	60	60	60
	int.	55	60	75	75	75	75	75	75	75	75
Weight (kg)		6.5	6.7	6.9	7	7.3	7.6	8.0	8.5	9.0	9.5

* 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

BMR 36 [36cm³/rev.]

Pressure (MPa)

		Max.cont. Max.int.								
		2	3	5	7	9	10	12.5	14.0	16.5
Flow (L/min)	4	10	16	25	37	46	50			
		105	100	92	80	71	58			
8		9	15	25	37	47	50	63	71	83
		208	200	188	175	158	149	134	120	108
15		8	14	23	36	45	51	64	72	82
		403	392	380	365	348	326	318	302	274
20		6	13	22	35	44	50	64	72	82
		540	531	518	500	483	462	450	435	412
30		6	12	21	32	42	47	63	70	80
		810	798	780	763	742	722	705	694	668
Max.cont. 40		5	11	19	30	41	45	61	68	79
		1092	1080	1069	1056	1042	1028	1011	984	957
Max.int. 45		4	10	17	29	40	44	59	66	77
		1230	1215	1194	1170	1150	1128	1100	1070	1020

BMR 50 [51.7cm³/rev.]

Pressure (MPa)

		Max.cont. Max.int.							
		5	7	9	10	12	14	16	17.5
Flow (L/min)	5	35	45	61	67	77	88		
		93	84	76	73	69	46		
10		36	46	62	69	80	95	108	120
		186	178	166	162	153	136	118	97
15		35	49	63	73	88	100	109	123
		283	277	269	261	250	230	211	185
20		34.5	47	61	69	83	96	109	126
		377	375	365	361	346	330	302	270
30		33	44	60	67	80	95	108	126
		576	569	561	554	542	531	500	465
40		30	41	58	66	79	92	106	122
		760	758	753	750	738	724	700	670
Max.cont. 45		29.5	40	57	65	78	90	105	121
		856	853	849	845	835	815	796	770
Max.int. 50		26	37	53	60	73	85	99	114
		950	940	925	906	880	852	832	801
Max.int. 60		20	33	48	56	69	81	95	109
		1138	1124	1100	1075	1056	1028	1006	970

BMR 80 [81.5cm³/rev.]

Pressure (MPa)

		Max.cont. Max.int.								
		5	7	9	10	12	14	16	17.5	20
Flow (L/min)	5	50	64	88	108	133				
		59	56	50	44	38				
10		54	77	99	108	129	150	173		
		118	113	106	97	86	79	56		
20		57	78.0	102	111	134	155	177	196	225
		238	234	227	216	203	190	178	154	135
30		54	75	100	108	131	152	176	195	223
		360	352	340	332	316	302	290	274	250
40		48	73	96	105	127	148	172	190	220
		480	470	458	445	430	418	403	388	359
50		42	70	93	102	124	147	170	188	218
		604	595	582	570	556	540	521	504	487
Max.cont. 60		37	66	89	98	121	144	166	184	213
		726	715	704	692	678	663	647	622	594
70		32	60	83	95	116	140	160	177	208
		845	834	820	802	789	767	754	730	705
Max.int. 75		21	50	78	90	111	135	154	171	200
		910	895	881	867	852	830	806	787	756

BMR 100 [102cm³/rev.]

Pressure (MPa)

		Max.cont. Max.int.								
		5	7	9	10	12	14	16	17.5	20
Flow (L/min)	5	66	92	120	135	156				
		45	42	38	34	27				
10		68	96	125	138	159	188	212		
		93	90	86	81	74	57	42		
20		65	94.0	123	137	155	186	210	238	274
		189	185	180	173	165	158	150	139	118
30		63	92	120	133	153	185	209	235	270
		286	281	275	266	257	246	237	225	207
40		57	88	117	130	152	185	208	233	267
		385	378	365	355	345	332	320	314	297
50		48	79	110	123	150	183	204	228	260
		482	477	470	460	448	435	420	405	389
Max.cont. 60		38	70	105	120	144	178	200	220	252
		580	572	560	548	535	523	510	500	478
70		32	65	100	118	141	176	197	215	246
		678	670	660	648	638	626	615	606	580
Max.int. 75		23	59	93	111	136	170	192	210	240
		728	720	710	695	681	667	650	634	618

Torque (N·m) 135
Speed (rpm) 830

□ cont.
■ int.

Performance Data

BMR 315 [317.5cm³/rev.]

Pressure (MPa)

	Max.cont.						Max.int.	
	5	7	9	10	12	14	16	17.5

Flow (L/min)	5	215 13	302 11					
	10	218 28	305 27	383 25	422 24	488 21	551 18	622 13
20	215 60	303 59	380 57	418 55	485 52	549 49	620 45	660 42
30	204 91	296 89	375 86	413 84	480 81	542 78	613 72	654 67
40	196 122	287 120	368 117	410 112	477 106	539 100	609 94	650 85
50	176 154	270 151	356 147	393 140	461 131	526 120	597 109	645 100
Max.cont. 60	162 185	246 182	339 177	374 172	446 163	511 152	586 140	628 134
70	143 217	235 213	324 208	358 201	430 190	493 178	562 166	614 158
Max.int. 75	125 232	212 228	303 222	339 216	417 208	481 200	543 183	582 171

BMR 375 [381.4cm³/rev.]

Pressure (MPa)

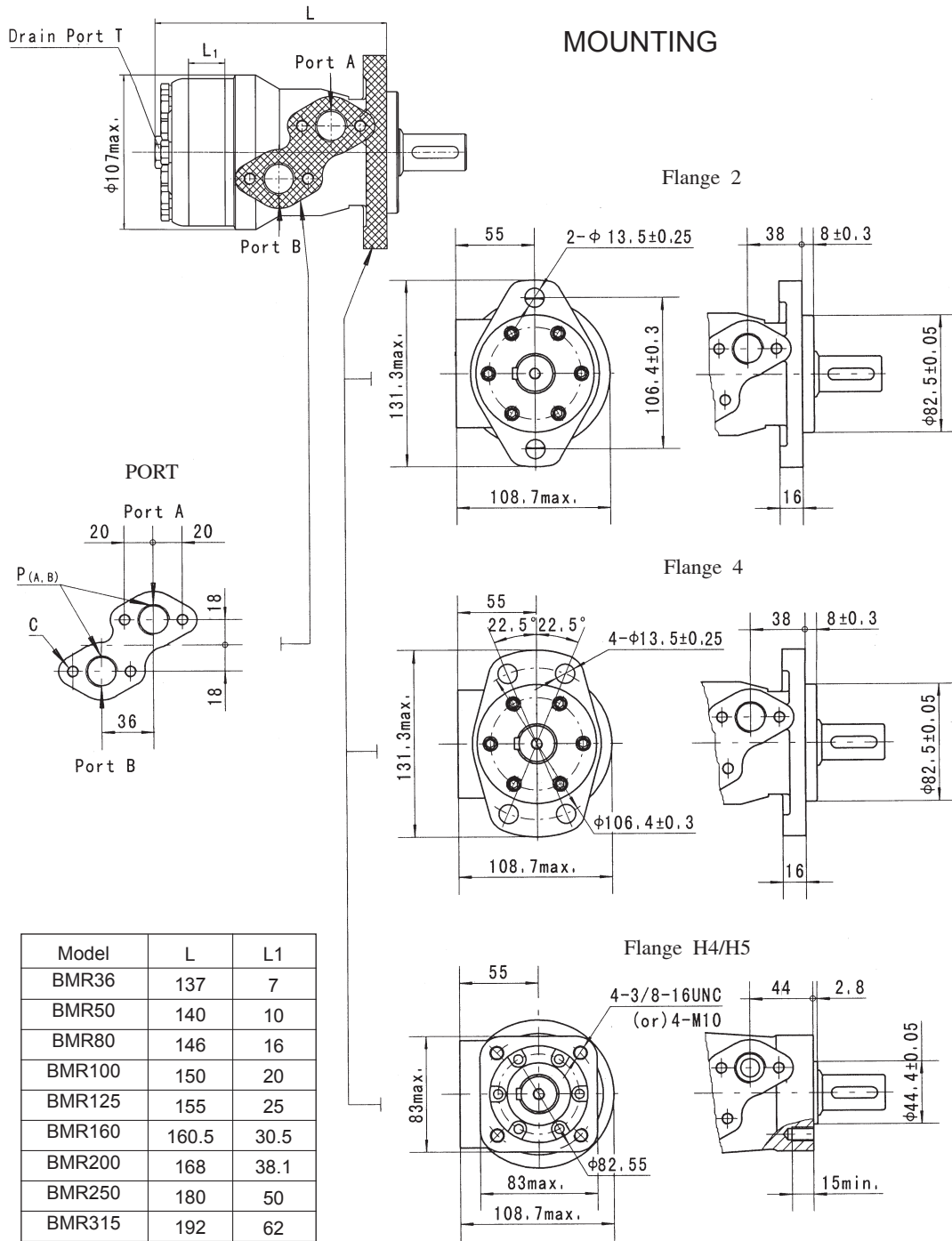
	Max.cont.						Max.int.	
	3	4.5	5.5	6.5	8	10	12.5	14

Flow (L/min)	5	153 12	232 10					
	10	157 24	236 23	284 22	337 21	406 19	497 17	612 15
20	150 49	232 48	280 47	332 46	401 44	490 41	606 38	660 32
30	142 76	215 75	274 74	327 73	398 71	483 67	603 63	652 50
40	126 103	212 101	268 99	320 97	393 95	477 92	593 88	635 70
50	105 128	187 126	242 124	302 121	376 118	455 115	583 111	608 96
Max.cont. 60	90 154	167 152	229 150	281 148	362 145	444 138	566 130	600 121
70	90 180	149 179	200 178	258 176	341 173	425 168	546 160	580 148
Max.int. 75	56 195	125 194	182 193	241 191	320 189	408 185	524 178	565 170

Torque (N·m) 481
Speed (rpm) 200

cont.
 int.

BMR DIMENSIONS AND MOUNTING DATA



Code	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)
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 (9.7)

专业做液压-专注做精品

PROFESSIONAL ON HYDRAULIC- FOCUS ON HIGH QUALITY



石家庄寒九科技有限公司

地址：中国河北石家庄友谊北大街398号

电话：+86 (311) 68123061

传真：+86 (10) - 80115555-568844

邮编：050000

网址：www.hjhydraulic.com

邮箱：manager@sjzhjism.com

SHIJIAZHUANG HANJIU TECHNOLOGY CO.,LTD.

Add: No. 398 Youyi Street, Shijiazhuang, Hebei, China

Tel: +86 (311) 68123061

Fax: +86 (10) - 80115555-568844

Post code: 050000

Web: www.hjhydraulic.com

Email: manager@sjzhjism.com