

GREEN HYDRAULIC



**MAKE THE WORLD LOVE
CHINESE HYDRAULIC PRODUCTS**

让世界爱上中国液压产品

常州格林液压设备制造有限公司

Changzhou Green Hydraulic Equipment Manufacturing Co.,Ltd.



关于我们 About us

格林液压是一家为全球提供高质量叶片泵以及配件的制造商，专业设计、制造、销售丹尼逊 T7、T6 系列、丹尼逊马达 M4C 系列，威格士 V 系列、VQ 系列、VQT 系列、V10、V20、VTM42 系列转向助力泵，威格士叶片马达 25M、35M、45M、50M，东京计器 SQP 系列液压叶片泵。

随着国际化市场需求，多元化发展，我司与 2017 年 12 月正式对外销售力士乐、利勃海尔、小松、日立、川崎、卡特、林德、哈威、派克、久保田、东芝、萨奥、等品牌系列，常用的行走马达，回转马达等系列。

公司秉承，产品质量追求完美，为用户提供更好的服务为宗旨，让世界爱上中国液压产品。

Green Hydraulic has been a manufacture of high quality replacement vane pump and parts for global hydraulic market. Green Hydraulic is specialized in design, manufacture, sales of Denison T6, T7 series pumps, Denison M4C series motors, Vickers V, VQ, VQT, V10, V20, VTM42 series pumps, Vickers 25M, 35M, 45M, 50M series vane motors, Tokimec SQP series pumps, China YBE series pump 50T, 150T series pumps, Yuken PV2R series hydraulic vane pumps and so on.

With the development of worldwide hydraulic market .On Dec . 2017 our company start our business about Rexroth, Liebherr, Eaton, Komatsu, Hitachi, kawasaki, Catpillar, Linde, Hawe, Paker, Kubaota, Toshiba, Sauer Danfoss, Yuken, Vickers, Daiken, Kay-aba, Uchida, Eaton, Yokiwa etc with all kinds of Travel Motors /Swing Mortor .

The strategy of Green Hydraulic is " To pursuit of the perfect quality of products, To make sure of the service is satisfied to every customer." Make the world love Chinese hydraulic products.

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BMM 系列液压摆线马达
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 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.

主要参数 Main Specification

类型 Type	BMM 8	BMM 12.5	BMM 20	BMM 32	BMM 40	BMM 50
排量 Geometric displacement (cm ³ /rev.)	8.2	12.9	19.9	31.6	39.8	50.3
最大转速 Max. speed (rpm)	cont.	1950	1550	1000	630	500
	int.	2450	1940	1250	800	630
最大扭矩 Max. torque (N·m)	cont.	11	16	25	40	45
	int.	15	23	35	57	70
	peak	21	33	51	64	82
最大功率 Max. output (kW)	cont.	1.8	2.4	2.4	2.4	2.2
	int.	2.6	3.2	3.2	3.2	3.2
工作压力差 Max. pressure drop (MPa)	cont.	10	10	10	10	9
	int.	14	14	14	14	14
	peak	20	20	20	16	16
最大流量 Max. flow (L/min)	cont.	16	20	20	20	20
	int.	20	25	25	25	25
重量 Weight (kg)	1.9	2	2.1	2.2	2.3	2.4

类型 Type	最大进油口压力 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.



性能参数 Performance Data

BMM8 [8.2 cm³/rev.]

		Pressure (MPa)					
		Max.cont.			Max.int.		
		3.5	5	7	10	12	14
Flow (L/min)	2	3	5	8	10	12	14
	4	228	218	206	156	111	58
	8	474	471	463	426	391	331
	12	953	946	926	884	855	816
	15	1444	1426	1402	1360	1324	1288
	20		4	7	10	12	14
Max.cont.	15		1912	1900	1861	1833	1780
	20			6	10	11	14
	25			2395	2350	2328	2281

BMM12.5 [12.9 cm³/rev.]

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

BMM20 [19.9 cm³/rev.]

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

BMM32 [31.6 cc/rev.]

		Pressure (MPa)						
		Max.cont.				Max.int.		
		2	3.5	5	7	10	12	14
Flow (L/min)	2	7	15	21	28	40		
	4	61	57	52	47	16		
	8	126	121	114	106	82	67	49
	12	250	244	239	231	207	194	167
	15	378	374	369	362	338	322	297
	20	476	472	468	462	441	429	406
Max.cont.	20	3	10	17	25	37	46	55
	25	1	8	15	23	35	43	52
	25	791	789	787	783	766	753	732

BMM40 [39.8 cm³/rev.]

		Pressure (MPa)					
		Max.cont.			Max.int.		
		3	5	7	8.5	10	12
Flow (L/min)	2	16	27	36	44	51	
	4	45	40	34	28	17	
	8	96	93	85	79	65	52
	12	197	195	182	176	166	154
	15	293	287	282	277	268	257
	20	371	365	360	355	347	338
Max.cont.	20	10	21	31	39	48	59
	25	7	19	29	37	44	56
	25	622	617	612	607	600	591

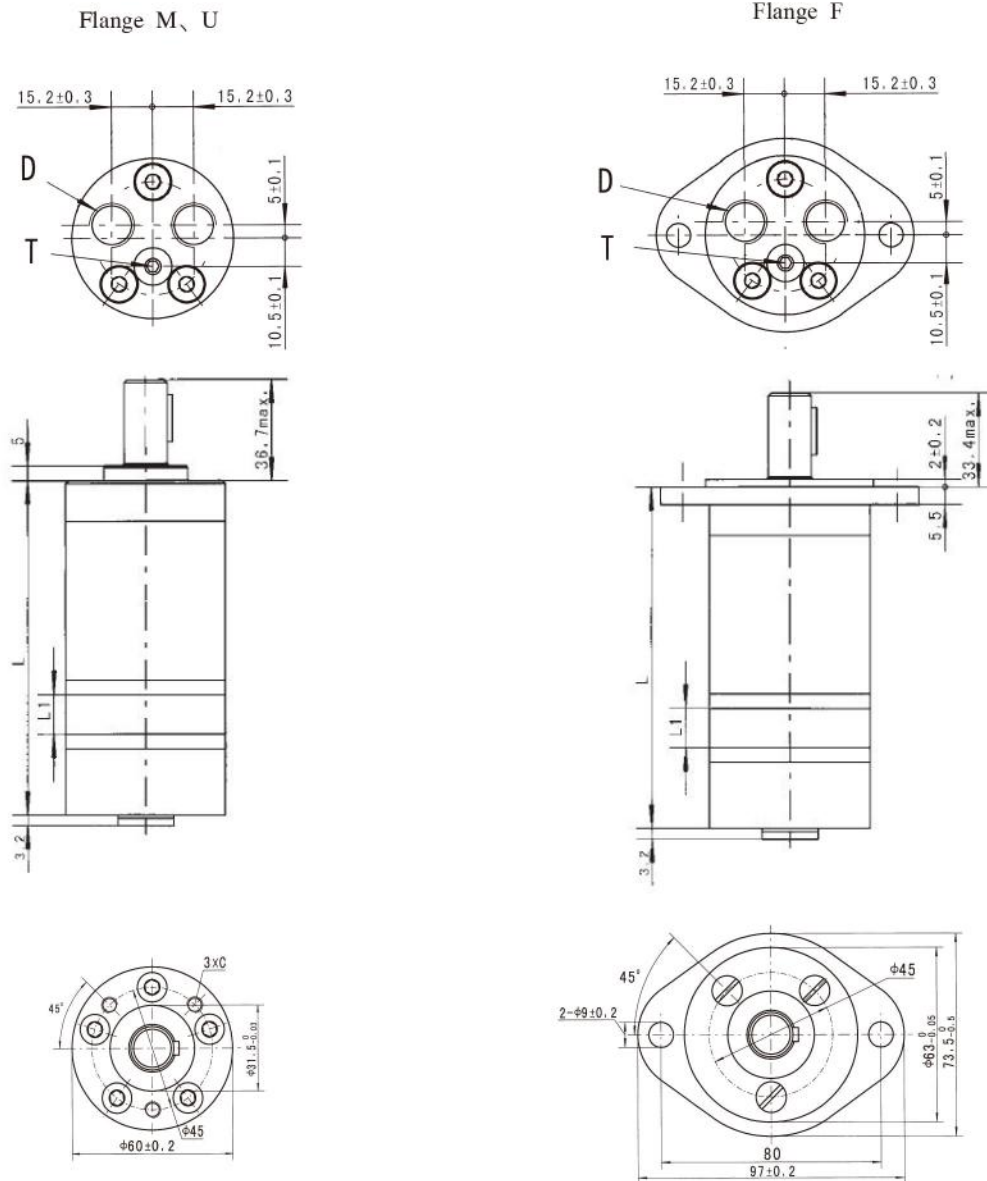
BMM50 [50.3 cm³/rev.]

		Pressure (MPa)				
		Max.cont.			Max.int.	
		1.5	3	5	7	10
Flow (L/min)	2	11	23	36	50	
	4	37	33	27	22	
	8	76	73	68	63	55
	12	157	154	149	145	137
	15	237	234	231	226	218
	20	395	395	393	390	381
Max.cont.	20	8	14	29	44	64
	25	4	10	25	40	59
	25	498	496	494	490	484

Torque (N·m) 37
Speed (rpm) 607

cont.
int.

BMM 底部油口安装连接尺寸
BMM END PORT DIMENSIONS AND MOUNTING DATA
MOUNTING

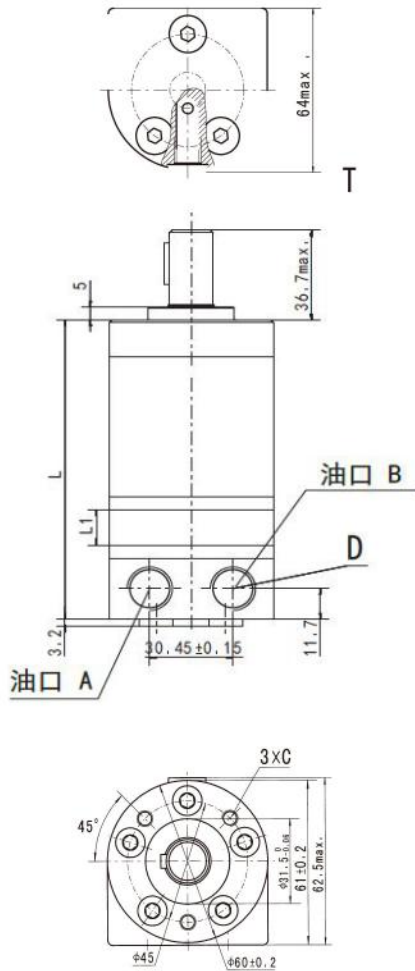


Model	M、 U Flange		F Flange	
	L	L1	L	L1
BMM8	104	3.5	107.5	3.5
BMM12.5	106	5.5	109.5	5.5
BMM20	109	8.5	112.5	8.5
BMM32	114	13.5	117.5	13.5
BMM40	117.5	17	121	17
BMM50	122	21.5	125.5	21.5

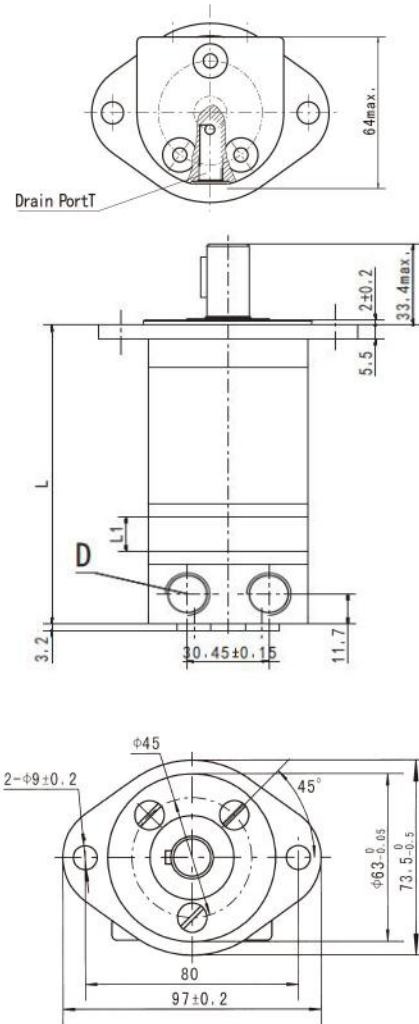
Code	M、 U Flange 法兰		F Flange 法兰	
	1E (depth)	1U (depth)	1E (depth)	1U (depth)
C	3-M6 (10)	3-1/4-28UNF-2B(10)	--	--
D	G3/8 (12)	9/16-18UNF(12)	G3/8 (12)	9/16-18UNF(12)
T	G1/8 (8)	3/8-24UNF(8)	G1/8 (8)	3/8-24UNF(8)

BMM 侧油口安装链接尺寸
BMM SIDE PORT DIMENSIONS AND MOUNTING DATA
MOUNTING

Flange M、U



Flange F

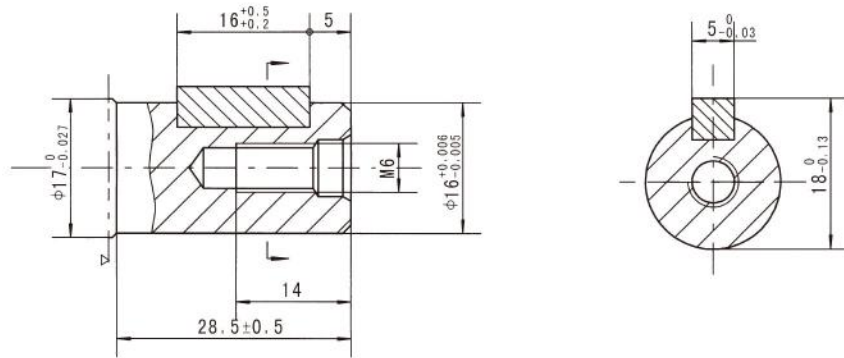


Model	M、U Flange		F Flange	
	L	L1	L	L1
BMM8	105	3.5	108.5	3.5
BMM12.5	107	5.5	110.5	5.5
BMM20	110	8.5	113.5	8.5
BMM32	115	13.5	118.5	13.5
BMM40	118.5	17	122	17
BMM50	123	21.5	126.5	21.5

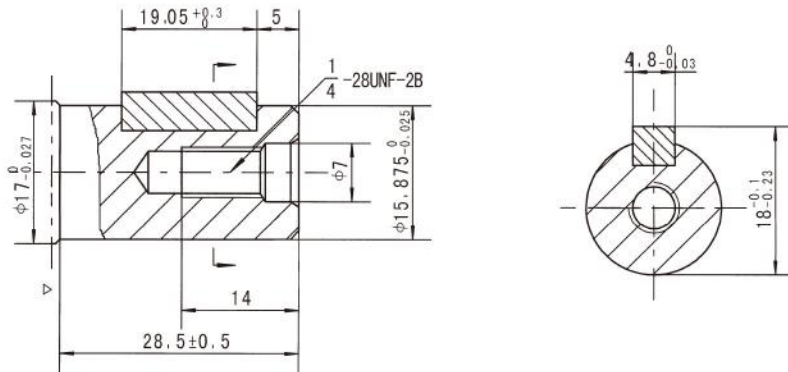
Mounting	M、U Flange 法兰		F Flange 法兰	
	E (depth)	U (depth)	E (depth)	U (depth)
C	3-M6 (10)	3-1/4-28UNF-2B(10)	--	--
D	G3/8 (12)	9/16-18UNF(12)	G3/8 (12)	9/16-18UNF(12)
T	G1/8 (8)	3/8-24UNF(8)	G1/8 (8)	3/8-24UNF(8)

BMM 轴伸链接尺寸
SHAFT EXTENSIONS FOR BMM MOTORS

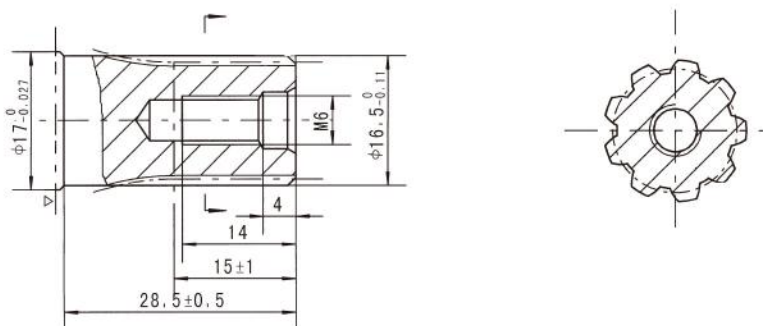
Shaft A: Cylindrical shaft $\varnothing 16$
Parallel key 5x5x16



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

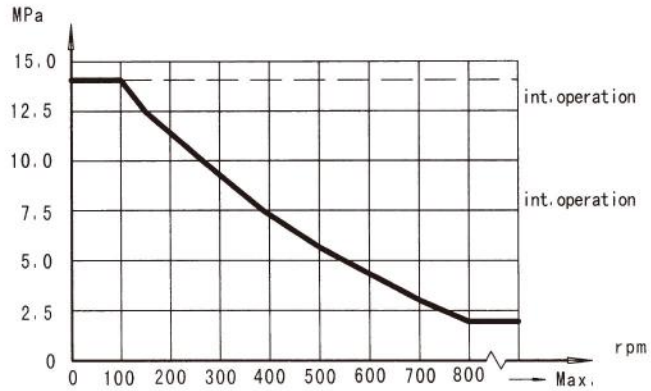
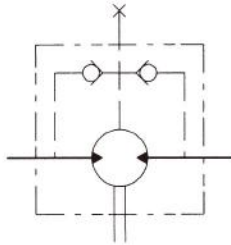


Shaft C: Involute splind shaft
B17x14 DIN5482



BMM Series Hydraulic Motor

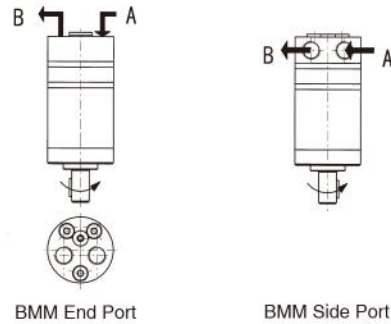
输出轴密封圈允许承受的压力
Permissible shaft seal pressure



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.

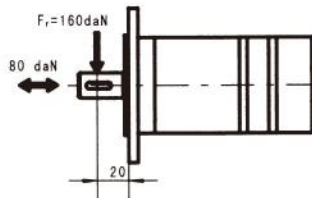
输出轴的旋转方向：标准
Direction of shaft rotation: Standard

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



输出轴承受径向力情况
Status of the shaft's radial force

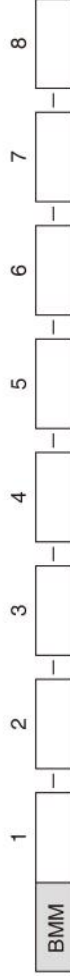
$$F_r = \frac{13040}{61.5 + L} \text{ daN}$$



F_r = Radial Force (daN)
 L = Distance (mm)
 n = Speed (rpm)
Max. force load
Rhomb-flange $L=15\text{mm}$
Square-flange $L=20\text{mm}$



订货信息
Order Information



Pos.1	2	3	4	5	6	7	8
Code	排量 cc	法兰 Flange	输出轴 Out shaft	油口 Port and drain port	Rotation direction	Paint	Unusually function
	8						
	12.5						
	20	M 3-M6 Circle-flange, pilot Ø31.5x5	A Shaft Ø16, parallel key 5x5x16	E G3/8, G1/8		No paint	
	32	U 3-1/4-28UNF Circle flange, pilot Ø31.5x5	B Shaft Ø15.875, parallel key 4.8x4.8x19.05	U 9/16-18UNF, 3/8-24UNF	Standard	Blue	Standard
Omit	40	F 2-Ø9 Rhomb-flange, pilot Ø63x2	C Shaft Ø16.5, involute B17x14, DIN5482	1E End port G3/8, G1/8	Omit	Black	Omit
	50			1U End port 9/16-18UNF, 3/8-24UNF	R Opposite	Silver grey	No case drain

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



BMP 系列液压摆线马达 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.

主要技术参数：BMP 系列马达轴径为25, 25.4, 花键轴25.4和锥轴28.56

Main Specification: Technical data for BMP with 25 and 1 in and 1 in splined and 28.56 tapered shaft

类型 Type		BMP BMPH BMPW 36	BMP BMPH BMPW 50	BMP BMPH BMPW 80	BMP BMPH BMPW 100	BMP BMPH BMPW 125	BMP BMPH BMPW 160	BMP BMPH BMPW 200	BMP BMPH BMPW 250	BMP BMPH BMPW 315	BMP BMPH BMPW 400	BMP BMPH BMPW 500
排量 Geometric displacement (cm ³ /rev.)		36	51.7	77.7	96.2	120.2	157.2	194.5	240.3	314.5	389.5	486.5
最大转速 Max. speed (rpm)	cont.	1500	1150	770	615	490	383	310	250	192	155	120
	int.	1650	1450	960	770	615	475	385	310	240	190	150
最大扭矩 Max. torque (N·m)	cont.	55	100	146	182	236	302	360	380	375	360	385
	int.	76	128	186	227	290	370	440	460	555	525	560
	peak	96	148	218	264	360	434	540	550	650	680	680
最大功率 Max. output (kW)	cont.	8.0	10.0	10.0	11.0	10.0	10.0	10.0	8.5	7.0	6.0	5.0
	int.	11.5	12.0	12.0	13.0	12.0	12.0	12.0	10.5	8.5	7.0	6.0
工作压力差 Max. pressure drop (MPa)	cont.	12.5	14	14	14	14	14	14	11	9	7	6
	int.	16.5	17.5	17.5	17.5	17.5	17.5	17.5	14	14	10.5	9
	peak	22.5	22.5	22.5	22.5	22.5	22.5	22.5	18	16	14	12
最大流量 Max. flow (L/min)	cont.	55	60	60	60	60	60	60	60	60	60	60
	int.	60	75	75	75	75	75	75	75	75	75	75
重量 Weight (kg)		5.6	5.6	5.7	5.9	6.0	6.2	6.4	7	6.9	7.4	8

- * 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.



主要技术参数：BMP系列马达轴径为31.75和32

Main Specification : Technical data for BMP with 31.75 and 32 shaft

类型 Type		BMP BMPH 36	BMP BMPH 50	BMP BMPH 80	BMP BMPH 100	BMP BMPH 125	BMP BMPH 160	BMP BMPH 200	BMP BMPH 250	BMP BMPH 315	BMP BMPH 400	BMP BMPH 500
排量 Geometric displacement (cm ³ /rev.)		36	51.7	77.7	96.2	120.2	157.2	194.5	240.3	314.5	389.5	486.5
最大转速 Max. speed (rpm)	cont.	1500	1150	770	615	490	383	310	250	192	155	120
	int.	1650	1450	960	770	615	475	385	310	240	190	150
最大扭矩 Max. torque (N•m)	cont.	55	100	146	182	236	302	360	460	475	490	430
	int.	76	128	186	227	290	370	440	570	555	580	560
	peak	96	148	218	264	360	434	540	670	840	840	780
最大功率 Max. output (kW)	cont.	8.0	10.0	10.0	11.0	10.0	10.0	10.0	8.5	7.0	6.0	6.0
	int.	11.5	12.0	12.0	13.0	12.0	12.0	12.0	10.5	8.5	7.0	7.0
工作压力差 Max. pressure drop (MPa)	cont.	12.5	14	14	14	14	14	14	14	12	9.5	7
	int.	16.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	14	11.5	9
	peak	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	18	13
最大流量 Max. flow (L/min)	cont.	55	60	60	60	60	60	60	60	60	60	60
	int.	60	75	75	75	75	75	75	75	75	75	75
重量Weight (kg)		5.6	6	5.7	5.9	6.0	6.2	6.4	7	6.9	7.4	8.0

* 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.



性能参数 Performance Data

BMP 36 [36cm³/rev.]

		Pressure (MPa)							
		3	6	7	8	10	11	12.5	16.5
Flow (L/min)	8	13	25	29	34	43	48		
	15	13	25	29	34	43	48	56	75
	20	13	24	29	34	43	48	56	76
	30	12	24	29	34	43	48	56	76
	35	12	23	28	34	43	48	56	76
	40	12	23	28	32	41	47	55	75
	45	11	22	26	32	41	46	54	74
	Max.cont.	6	15	22	28	37	44	52	71
	Max.int.	3	11	18	20	30	38	49	67

BMP 50 [51.7cm³/rev.]

		Pressure (MPa)							
		3	6	8	10	12.5	14	16	17.5
Flow (L/min)	8	20	41	56	69	89	95		
	15	19	40	56	71	91	100	112	120
	20	18	39	55	71	92	101	117	128
	30	17	38	55	71	91	98	116	124
	35	17	38	54	69	89	98	117	124
	45	14	36	53	67	88	98	114	123
	55	12	33	50	65	85	96	111	121
	Max.cont.	10	32	47	64	83	94	108	119
	Max.int.	6	25	42	56	76	87	101	112

BMP 80 [77.7cm³/rev.]

		Pressure (MPa)							
		3	6	8	10	12.5	14	16	17.5
Flow (L/min)	8	32	62	85	104	129	144		
	15	32	63	84	107	126	144	165	
	20	31	63	84	107	132	146	168	185
	30	31	62	83	106	131	146	168	186
	35	30	59	81	102	130	144	167	185
	45	25	58	79	100	126	142	165	182
	55	23	57	78	97	124	140	161	179
	Max.cont.	20	53	75	94	120	137	160	177
	Max.int.	14	44	67	87	112	151	169	169

BMP 100 [96.2cm³/rev.]

		Pressure (MPa)							
		3	6	8	10	12.5	14	16	17.5
Flow (L/min)	8	40	77	105	130	161	180		
	15	39	77	106	130	160	180	208	
	20	36	74	104	128	161	179	205	227
	30	33	72	103	125	160	177	203	225
	35	30	70	98	122	159	176	202	224
	45	29	67	95	118	155	174	200	220
	55	25	64	93	116	152	170	198	217
	Max.cont.	22	60	91	114	149	167	194	213
	Max.int.	15	54	83	106	141	160	186	205

Torque (N•m) 87
Speed (rpm) 920

□ cont.
■ int.



性能参数 Performance Data

BMP 125 [120.2cm³/rev.]

Pressure (MPa)

	3	6	8	10	12.5	14	16	17.5
--	---	---	---	----	------	----	----	------

Flow (L/min)	Max.cont.								Max.int.	
	3	6	8	10	12.5	14	16	17.5		
8	51	98	137	168	208	236				
15	51	101	138	168	209	236	267			
	121	116	110	102	89	73	48			
20	48	98	135	167	211	237	269	290		
30	162	158	153	148	137	128	109	94		
	46	96	132	164	209	232	264	287		
35	243	239	234	227	216	202	189	176		
	42	92	130	160	206	229	260	284		
45	284	279	274	269	259	247	231	222		
	37	89	125	157	201	224	261	281		
55	370	362	355	348	340	327	310	296		
	33	84	122	152	196	218	252	275		
Max.cont. 60	452	446	438	431	420	412	402	384		
	29	78	117	146	191	215	248	272		
Max.int. 75	490	482	475	468	459	448	439	427		
	18	66	107	133	179	202	236	260		
	615	606	598	586	575	563	549	528		

BMP 160 [157.2cm³/rev.]

Pressure (MPa)

	3	6	8	10	12.5	14	16	17.5
--	---	---	---	----	------	----	----	------

Flow (L/min)	Max.cont.								Max.int.	
	3	6	8	10	12.5	14	16	17.5		
8	62	120	170	212	263	290				
15	60	122	172	215	264	294	340			
	49	48	46	42	26	14				
20	93	91	88	85	76	68	48			
	57	120	170	214	262	290	340	371		
30	125	123	120	117	110	106	92	81		
	53	115	164	206	259	288	335	368		
35	187	184	181	178	175	168	155	139		
	49	110	160	202	255	284	328	362		
45	220	216	213	209	205	202	192	176		
	44	102	154	196	248	278	321	358		
55	283	280	276	272	267	260	250	238		
	40	99	148	191	243	272	316	351		
Max.cont. 60	345	342	340	336	331	328	320	303		
	33	94	144	188	236	267	308	345		
Max.int. 75	377	374	371	367	363	359	353	342		
	19	80	124	170	216	252	296	325		
	473	469	465	459	453	447	440	424		

BMP 200 [194.5cm³/rev.]

Pressure (MPa)

	3	6	8	10	12.5	14	16	17.5
--	---	---	---	----	------	----	----	------

Flow (L/min)	Max.cont.								Max.int.	
	3	6	8	10	12.5	14	16	17.5		
8	79	164	207	250	320	360				
15	40	39	38	35	28	22				
	78	162	205	250	322	361	410			
20	76	75	74	71	66	61	51			
	76	158	203	247	320	358	403	422		
30	100	98	97	95	92	89	73	57		
	70	153	200	245	315	350	398	417		
35	151	149	147	145	142	139	131	120		
	66	149	194	232	297	343	386	415		
45	177	175	173	171	168	166	160	149		
	63	146	190	230	294	340	383	410		
55	228	226	224	221	218	215	210	198		
	54	140	181	224	286	334	371	400		
Max.cont. 60	280	278	276	274	271	269	263	250		
	38	127	164	212	270	325	356	395		
Max.int. 75	304	302	300	297	294	291	286	272		
	22	96	145	192	235	293	321	367		
	382	378	374	371	368	364	360	350		

BMP 250 [240.3cm³/rev.]

Pressure (MPa)

	3	6	8	10	12.5	14	16	17.5
--	---	---	---	----	------	----	----	------

Flow (L/min)	Max.cont.								Max.int.	
	3	6	8	10	12.5	14	16	17.5		
8	96	190	268	326	403					
15	30	28	24	21	11					
	98	194	270	327	405	450	510			
20	60	58	54	50	40	30	12			
	92	188	267	325	405	456	514	565		
30	82	80	77	76	69	64	52	38		
	85	180	259	320	400	448	513	561		
35	123	120	118	114	106	98	87	76		
	77	176	252	311	389	436	504	557		
45	143	141	139	135	128	122	112	101		
	70	168	243	300	377	428	495	543		
55	185	182	178	174	168	161	152	139		
	63	159	237	290	369	417	483	531		
Max.cont. 60	226	223	218	213	209	202	193	185		
	60	150	228	280	358	407	473	520		
Max.int. 75	248	246	243	239	233	226	215	207		
	34	128	202	264	342	387	448	488		
	309	306	302	297	292	286	278	264		

cont.
int.

Torque (N·m) 128
Speed (rpm) 306



性能参数 Performance Data

BMP 315 [314.5cm³/rev.]

		Pressure (MPa)							
		3	5	7	9	10	12.5	14	
Flow (L/min)	8	123 25	215 23	292 21	368 17	405 11			
	15	118 47	211 46	287 44	367 40	404 28	495 21	568 10	
	20	110 62	205 61	278 60	360 57	395 46	494 40	566 36	
	30	101 94	196 93	271 91	349 88	388 76	490 68	565 65	
	35	96 109	188 107	264 106	341 104	382 96	478 89	557 84	
	45	89 141	180 140	254 138	337 135	372 127	468 120	553 115	
	55	76 173	166 172	239 170	325 167	362 160	457 152	548 143	
	Max.cont.	60	65 188	154 186	227 184	308 182	348 178	443 172	529 163
	Max.int.	75	40 236	120 234	201 232	279 228	323 226	418 223	497 214

BMP 400 [389.5cm³/rev.]

		Pressure (MPa)							
		3	4.5	5.5	6.5	8	10	12.5	
Flow (L/min)	8	166 20	232 19	287 18	340 16	418 12			
	15	165 38	228 36	277 35	337 33	417 31	496 27	612 21	
	20	162 50	223 49	273 49	331 48	413 45	495 41	608 35	
	30	154 76	216 75	266 74	318 73	405 71	486 67	600 60	
	35	146 88	210 87	256 87	312 86	395 83	480 80	588 75	
	45	132 114	197 113	243 112	300 110	383 108	464 106	576 99	
	55	117 139	184 137	227 136	283 135	363 135	450 132	552 123	
	Max.cont.	60	102 153	163 152	215 150	272 148	347 146	436 143	532 138
	Max.int.	75	53 191	128 189	182 187	234 185	318 183	391 180	484 176

Torque (N·m) 234
Speed (rpm) 185

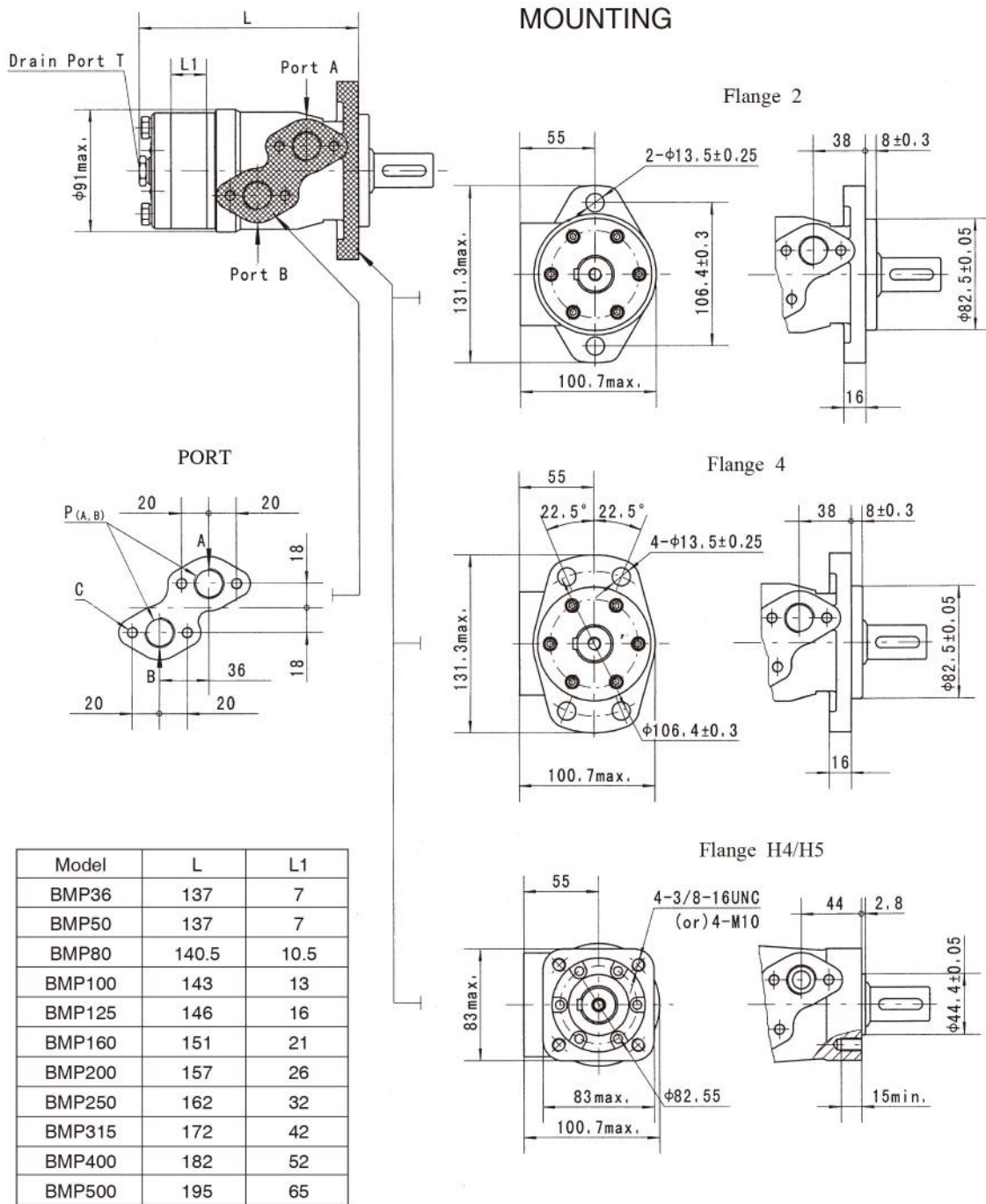
BMP500[486.5cm³/rev.]

		Pressure (MPa)							
		1.5	3	4.5	6	7	8	9	
Flow (L/min)	4	96 7	194 6	285 4					
	8	98 15	201 15	304 14	391 14	443 12	512 9	574 7	
	15	96 30	192 30	284 29	380 28	421 26	496 23	550 22	
	20	96 40	191 40	280 40	372 39	418 37	493 33	546 31	
	30	91 61	185 60	272 60	360 58	412 56	486 53	541 50	
	40	86 81	172 80	261 80	343 79	408 76	480 73	538 70	
	50	78 102	160 101	241 100	332 98	391 96	466 93	528 90	
	Max.cont.	60	66 122	134 121	213 120	305 119	371 117	438 114	496 110
	Max.int.	70	52 143	111 142	189 141	292 139	344 137	418 135	475 131
		75	35 153	83 152	154 151	241 150	312 149	389 147	448 144

cont.
int.

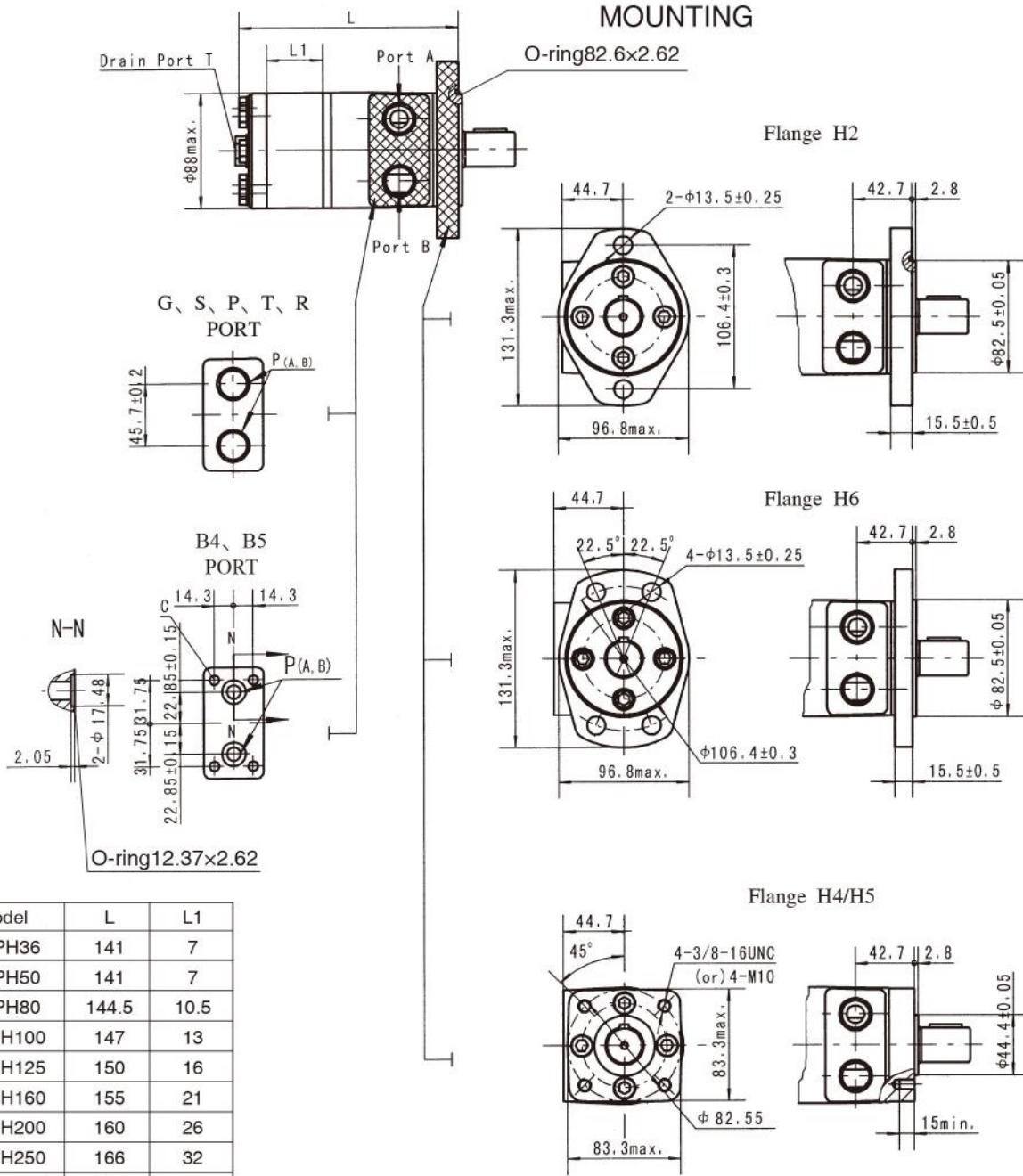
Torque (N·m) 389
Speed (rpm) 147

BMP 系列马达安装链接尺寸
BMP 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)

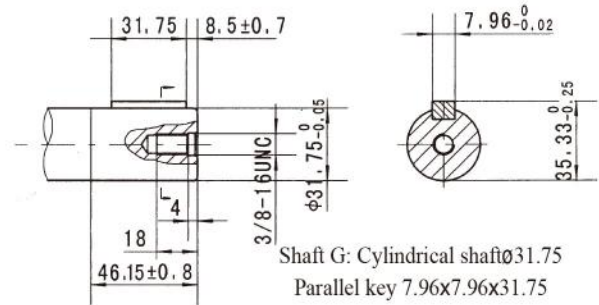
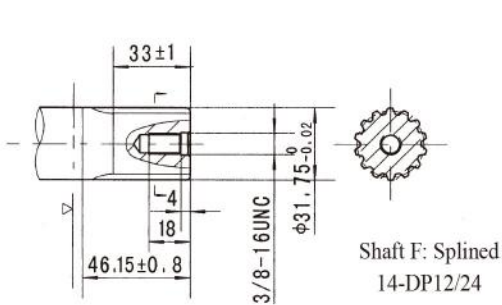
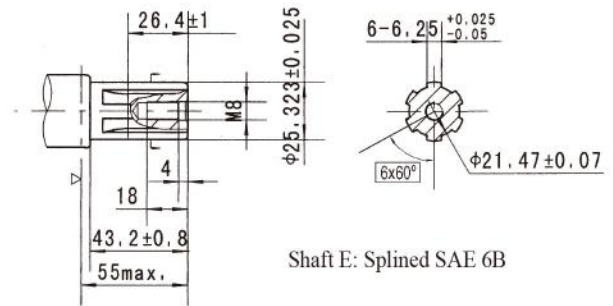
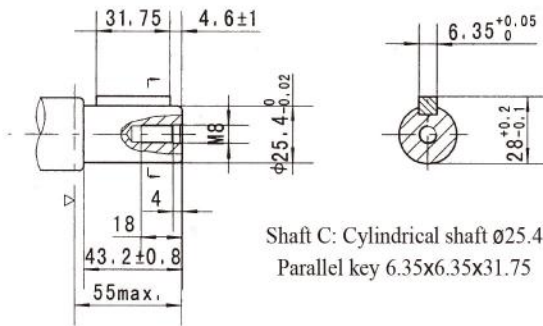
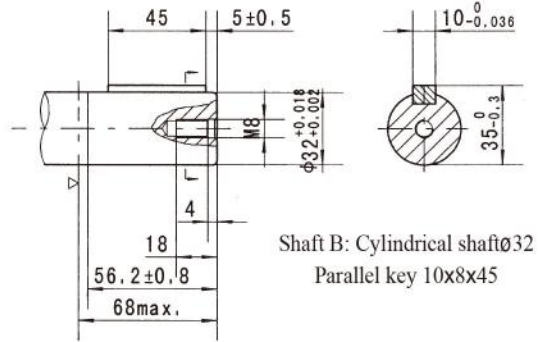
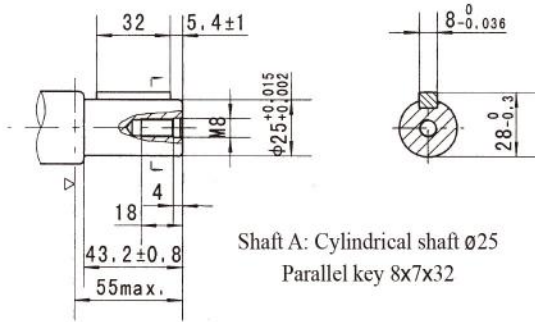
BMPH 系列马达安装连接尺寸
BMPH DIMENSIONS AND MOUNTING DATA



Model	L	L1
BMPH36	141	7
BMPH50	141	7
BMPH80	144.5	10.5
BMPH100	147	13
BMPH125	150	16
BMPH160	155	21
BMPH200	160	26
BMPH250	166	32
BMPH315	176	42
BMPH400	186	52
BMPH500	199	65

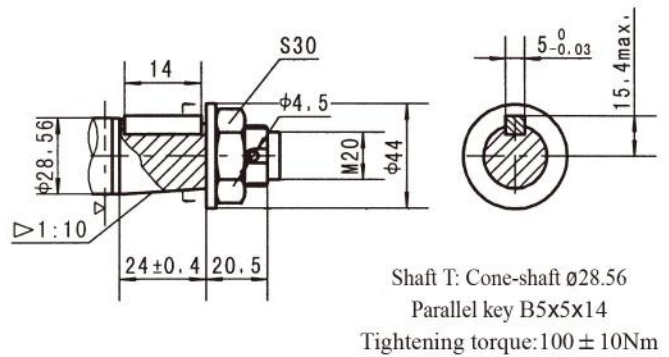
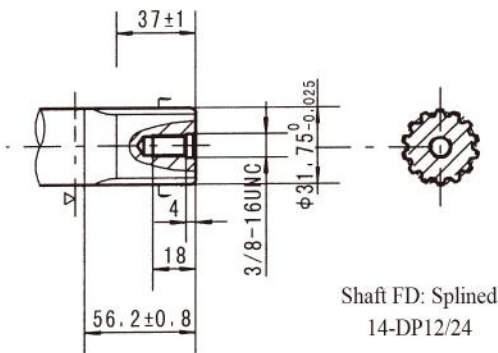
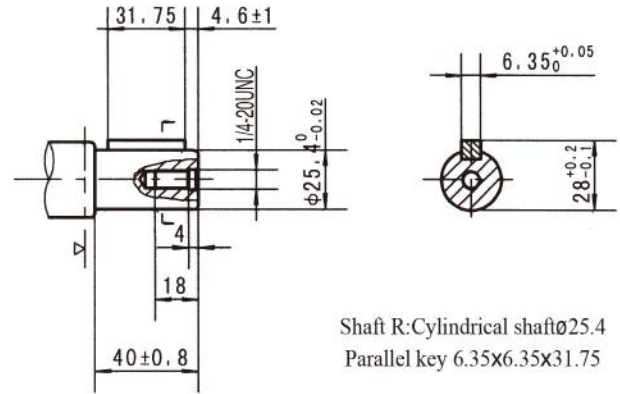
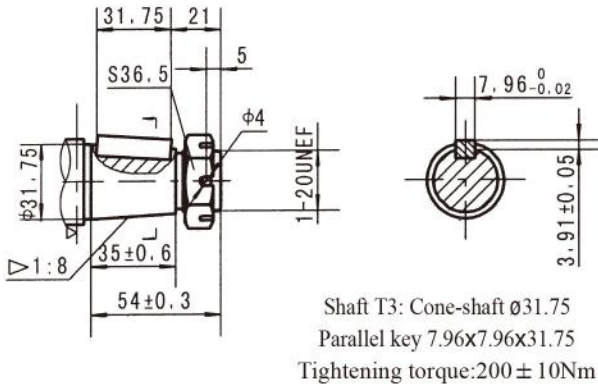
Code	Mounting						
	G (depth)	S (depth)	P (depth)	T (depth)	R (depth)	B4 (depth)	B5 (depth)
P(A,B)	G1/2 (15)	7/8-14 O-ring (17)	1/2-14NPTF (15)	3/4-16 O-ring (15)	PT(RC)1/2 (15)	ø10	ø10
T	G1/4 (12)	7/16-20UNF (12)	7/16-20UNF (12)	7/16-20UNF(12)	PT(RC)1/4 (9.7)	7/16-20UNF(12)	G1/4(12)
C	-	-	-	-	-	4-5/16-18UNC(13)	4-M8(13)

BMP 系列马达轴伸连接尺寸
BMP SHAFT EXTENSIONS DIMENSIONS DATA



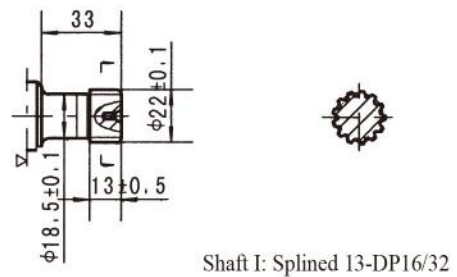
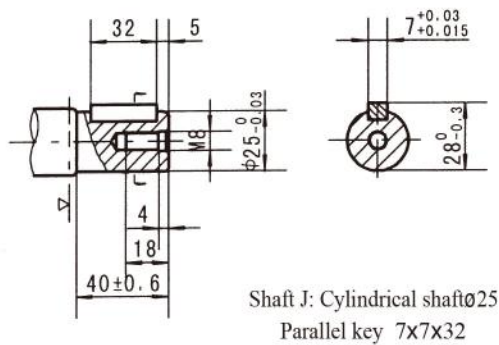
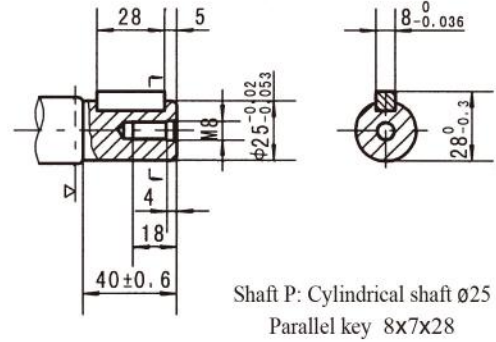
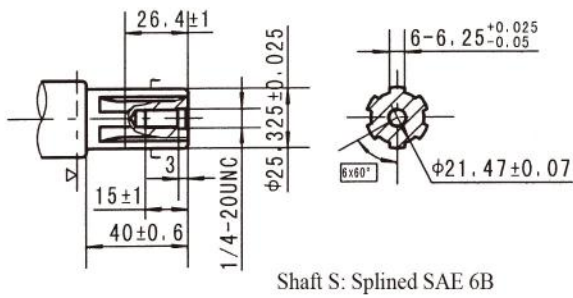
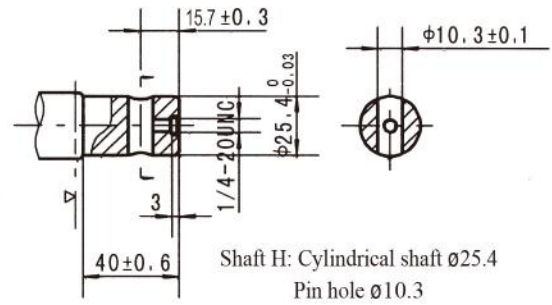
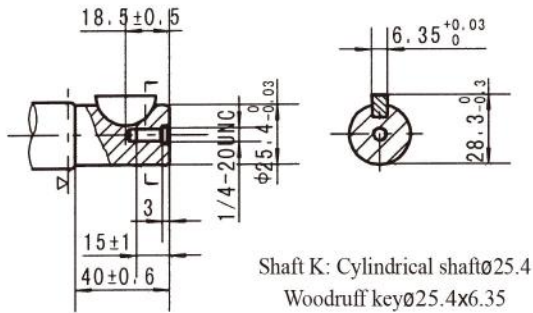
▷ Motor Mounting Surface

BMP 系列马达轴伸连接尺寸
BMP SHAFT EXTENSIONS DIMENSIONS DATA



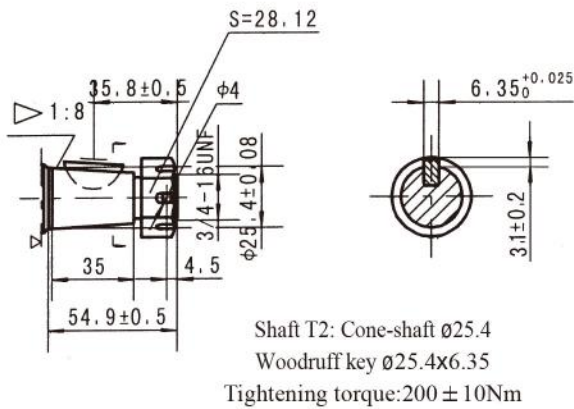
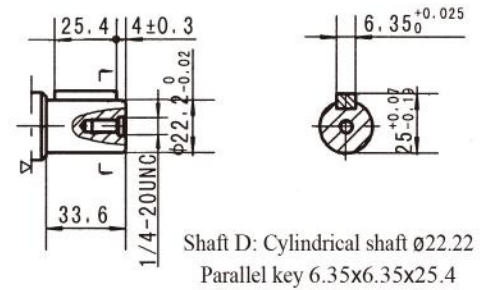
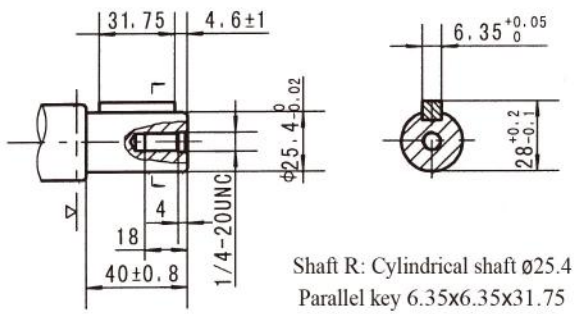
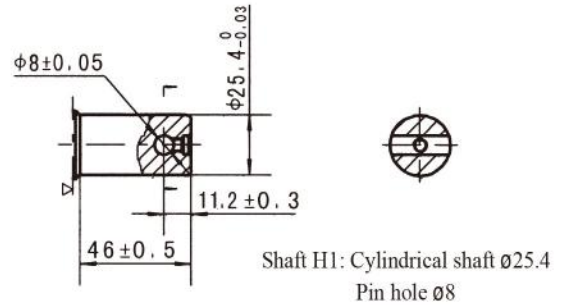
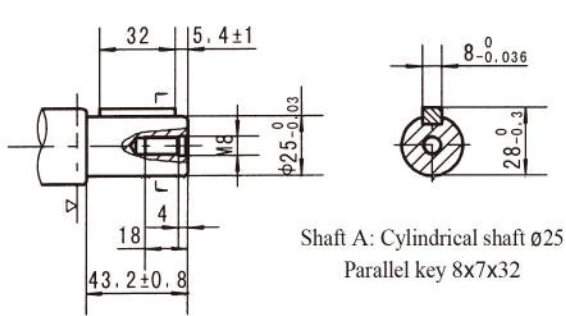
▷ Motor Mounting Surface

BMPH 系列马达轴伸连接尺寸
BMPH SHAFT EXTENSIONS DIMENSIONS DATA



▷ Motor Mounting Surface

BMPH 系列马达轴伸连接尺寸
BMPH SHAFT EXTENSIONS DIMENSIONS DATA

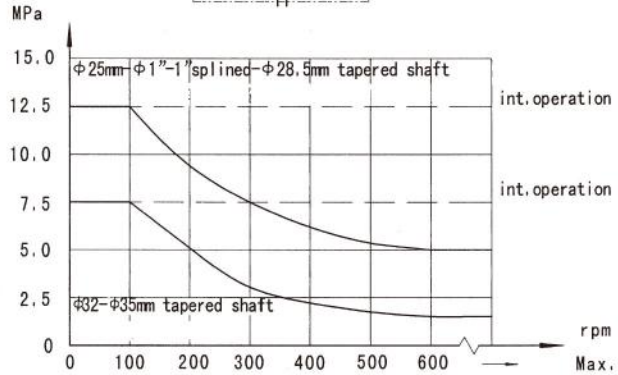
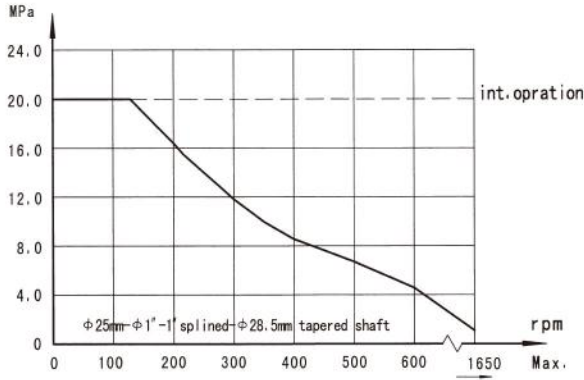
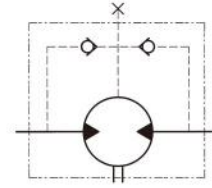


▷ Motor Mounting Surface

BMP、BMPH Series Hydraulic Motor

输出轴密封圈允许承受的压力

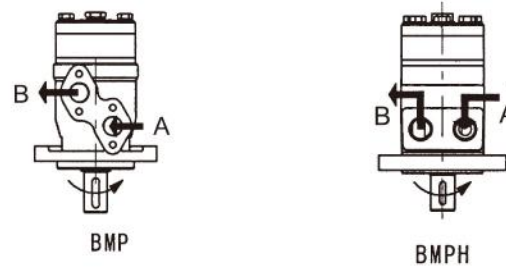
Permissible shaft seal pressure



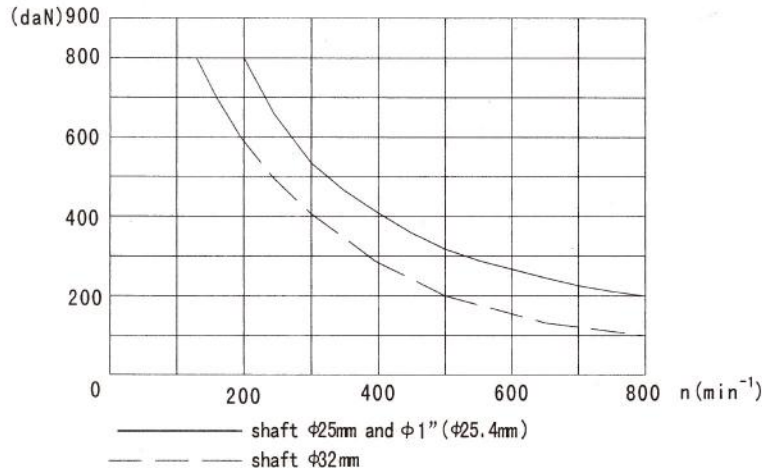
In applications without drain line, output shaft seal exceeds a bit of the pressure in the return line. When applications use the drain line, the pressure of output shaft seal equals the pressure in drain line.

输出轴的旋转方向：标准 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.



输出轴承受径向力情况 Status of the shaft's radial force



$$F_r = \frac{800 \cdot 25000}{n \cdot 95 + L} \text{ daN}$$

F_r =Radial Force (daN)
 L =Distance (mm)
 n =Speed (rpm)
 Rhomb-flange $L=30\text{mm}$
 Square-flange $L=24\text{mm}$



订货信息
Order Information

1 2 3 4 5 6 7 8

BMP

Pos.1	2	3	4	5	6	7	8
Code	排量 Disp.	法兰 Flange	轴键 Output Shaft	油口 Port and Drain Port	旋转 Rotation Direction	Paint	Unusually Function
BMP	36	2-Ø13.5 Rhomb-flange , pilot Ø82.5 × 8 4-Ø13.5 Rhomb-flange , pilot Ø82.5 × 8 H4 4-3/8-16 Square-flange , pilot Ø44.4 × 2.8 H5 4-M10 Square-flange , pilot Ø44.4 × 2.8	A Shaft Ø25,parallel key 8x7x32	D G1/2 Manifold Mount	Omit R Standard Opposite S	No paint Blue Black Silver grey	Omit N Big radial force 0 No case drain F Free Running LS Low Speed
	50		B Shaft Ø32,parallel key 10x8x45	M 4 × M8, G1/4			
	80		C Shaft Ø25.4,parallel key 6.35x6.35x31.75	S 7/8-14 O-ring manifold			
	100		E Shaft Ø25.4,splined tooth SEA 6B	P 4x5/16-18UNC, 7/16-20UNF			
	125		R Short shaft Ø25.4,parallel key 6.35x6.35x31.75	R PT(Rc)1/2 Manifold 4xM8,			
	160		F Shaft Ø31.75,splined tooth 14-DP1/2/24	R PT(Rc)1/4			
	200		FD Long shaft Ø31.75,splined tooth 14-DP1/2/24				
	250		G Shaft Ø31.75, parallel key 7.96x7.96x31.75				
	315		T Cone shaft Ø28.56,parallel key B55x14				
	400		T3 Cone shaft Ø31.75,parallel key 7.96x7.96x31.75				
	500						

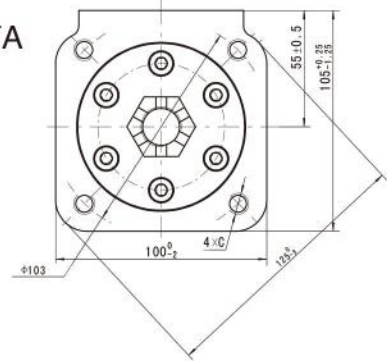
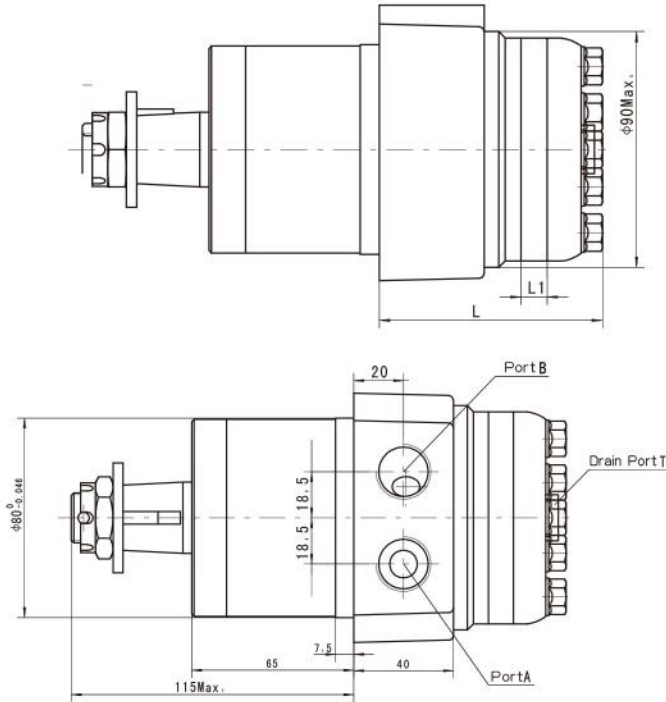
1 2 3 4 5 6 7 8

BMPH

Pos.1	2	3	4	5	6	7	8
Code	排量 Disp.	法兰 Flange	轴键 Output Shaft	油口 Port and Drain Port	旋转 Rotation Direction	Paint	Unusually Function
BMPH	36	2-Ø13.5 Rhomb-flange , pilot Ø82.5 × 2.8 H2 4-Ø13.5 Rhomb-flange , pilot Ø82.5 × 2.8 H6 4-Ø13.5 Rhomb-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	K Shaft Ø25.4, woodruff key Ø25.4 × 6.35	G G1/2, G1/4	Omit R Standard Opposite S	No paint Blue Black Silver grey	Omit N Big radial force 0 No case drain F Free Running LS Low Speed
	50		S Shaft Ø25.4 , splined tooth SEA 6B	S 7/8-14 O-ring ,7/16-20UNF			
	80		A Shaft Ø25 , parallel key 8 × 7 × 32	P 1/2-14 NPTF, 7/16-20UNF			
	100		R Shaft Ø25.4, parallel key 6.35 × 6.35 × 31.75	T 3/4-16 O-ring, 7/16-20UNF			
	125		H Shaft Ø25.4, pin hole Ø10.3	R PT(Rc)1/2 ,PT(Rc)1/4			
	160		H1 Shaft Ø25.4, pin hole Ø8	B4 Ø10 O-ring manifold			
	200		D Shaft Ø22.22, parallel key 6.35 × 6.35 × 25.4	B5 4x5/16-18UNC,7/16-20UNF			
	250		I Shaft Ø22.22, splined tooth 13-DP16/32	7/16-20UNF			
	315		T2 Cone shaft Ø25.4 , woodruff key Ø25.4 × 6.35				
	400		P Shaft Ø25 , parallel key 8 × 7 × 28				
	500		J Shaft Ø25 , parallel key 7 × 7 × 32				

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.

BMPW 系列马达安装链接尺寸
BMPW DIMENSIONS AND MOUNTING DATA



Model	L	L1
BMPW50	81	7
BMPW80	84.5	10.5
BMPW100	87	13
BMPW125	90	16
BMPW160	95	21
BMPW200	100	26
BMPW250	106	32
BMPW315	116	42
BMPW400	126	52
BMPW500	139	65

Mounting	Code		
	G (depth)	S (depth)	M (depth)
P(A,B)	G1/2 (15)	7/8-14 O-ring (17)	M22x1.5 (15)
T	G1/4 (12)	7/16-20UNF (12)	M14x1.5 (12)
C	4xM10(20)	4x3/8-16UNC(20)	4xM10(20)

1 BMPW 2 3 4 5 6 7 8

订货信息
Order Information

Pos.1	2	3	4	5	6	7	8
Code	排量 Disp.	法兰 Flange	轴键 Output shaft	油口 Port	Rotation	Paint	Unusually function
BMPW	50 80 100 125 160 200 250 315 400 500	Wheel-flange pilat Ø80 × 7.5 Omit	A Shaft Ø25k6 ,Parallel key 8 × 7 × 32 C Shaft Ø25.4 ,Parallel key 6.35 × 6.35 × 31.75 E Shaft Ø25.4 ,Splined key SAE 6B T Cone shaft Ø28.56 ,Parallel key B5 × 5 × 14	G G1/2, G1/4 S 7/8-14 O-ring, 7/16-20UNF M M22x1.5,M14x1.5	Omit Standard R Opposite	00 Omit B S	Standard Big radial force No case drain Omit N O

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



BMR 系列液压摆线马达 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

主要技术参数：BMR系列马达轴径为25， 25.4， 花键轴25.4和锥轴28.56

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

类型 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
排量: Geometric displacement (cm ³ /rev.)		36	51.7	81.5	102	127.2	157.2	194.5	253.3	317.5	381.4
最大转速 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
最大扭矩 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
最大功率 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
工作压力差 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
最大流量 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
重量 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.



主要技术参数：BMR系列马达轴径为31.75， 32

Main Specification: Technical data for BMR with 31.75 and 32 shaft

类型 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
排量: Geometric displacement (cm ³ /rev.)		36	51.7	81.5	102	127.2	157.2	194.5	253.3	317.5	381.4
最大转速 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
最大扭矩 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
最大功率 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
工作压力差 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
最大流量 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
重量 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.



性能参数 Performance Data

BMR 36 [36cm³/rev.]

Pressure (MPa)

Max.cont. Max.int.

2	3	5	7	9	10	12.5	14.0	16.5
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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
		208	200	188	175	158	149	134	120
15		8	14	23	36	45	51	64	72
		403	392	380	365	348	326	318	302
20		6	13	22	35	44	50	64	72
		540	531	518	500	483	462	450	435
30		6	12	21	32	42	47	63	70
		810	798	780	763	742	722	705	694
Max.cont. 40		5	11	19	30	41	45	61	68
		1092	1080	1069	1056	1042	1028	1011	984
Max.int. 45		4	10	17	29	40	44	59	66
		1230	1215	1194	1170	1150	1128	1100	1070

BMR 50 [51.7cm³/rev.]

Pressure (MPa)

Max.cont. Max.int.

5	7	9	10	12	14	16	17.5
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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
45		29.5	40	57	65	78	90	105	121
		856	853	849	845	835	815	796	770
Max.cont. 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
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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
		238	234	227	216	203	190	178	154
30		54	75	100	108	131	152	176	195
		360	352	340	332	316	302	290	274
40		48	73	96	105	127	148	172	190
		480	470	458	445	430	418	403	388
50		42	70	93	102	124	147	170	188
		604	595	582	570	556	540	521	504
Max.cont. 60		37	66	89	98	121	144	166	184
		726	715	704	692	678	663	647	622
70		32	60	83	95	116	140	160	177
		845	834	820	802	789	767	754	730
Max.int. 75		21	50	78	90	111	135	154	171
		910	895	881	867	852	830	806	787

BMR 100 [102cm³/rev.]

Pressure (MPa)

Max.cont. Max.int.

5	7	9	10	12	14	16	17.5	20
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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
		189	185	180	173	165	158	150	139
30		63	92	120	133	153	185	209	235
		286	281	275	266	257	246	237	225
40		57	88	117	130	152	185	208	233
		385	378	365	355	345	332	320	314
50		48	79	110	123	150	183	204	228
		482	477	470	460	448	435	420	405
Max.cont. 60		38	70	105	120	144	178	200	220
		580	572	560	548	535	523	510	500
70		32	65	100	118	141	176	197	215
		678	670	660	648	638	626	615	606
Max.int. 75		23	59	93	111	136	170	192	210
		728	720	710	695	681	667	650	634

Torque (N·m) 135
Speed (rpm) 830

cont.
int.



性能参数 Performance Data

BMR 125 [127.2cm³/rev.]

Pressure (MPa)									
					Max.cont.		Max.int.		
5	7	9	10	12	14	16	17.5	20	

Flow (L/min)	Pressure (MPa)									
	5	7	9	10	12	14	16	17.5	20	
5	76	110	145	167	189					
	36	31	25	19	13					
10	84	118	155	176	202	228	253			
	73	70	60	48	36	25	19			
20	82	117	153	174	200	230	259	294	332	
	153	151	148	144	138	128	117	104	73	
30	79	116	151	171	198	228	257	292	329	
	231	228	224	218	210	201	183	168	137	
40	72	114	148	168	196	226	256	290	327	
	309	307	303	298	292	280	270	252	218	
50	62	105	143	165	195	223	254	287	323	
	389	386	382	378	370	360	344	328	292	
60	52	98	136	160	191	220	250	282	319	
	467	463	459	456	448	427	410	399	352	
70	41	90	130	156	187	215	242	278	313	
	545	542	538	534	529	520	508	486	430	
75	32	79	126	148	180	208	234	262	300	
	586	583	578	570	560	546	532	520	480	

BMR 160 [157.2cm³/rev.]

Pressure (MPa)									
					Max.cont.		Max.int.		
5	7	9	10	12	14	16	17.5	20	

Flow (L/min)	Pressure (MPa)									
	5	7	9	10	12	14	16	17.5	20	
5	104	146	190	210	245					
	26	23	20	16	10					
10	107	150	195	216	250	290	335			
	59	56	50	45	37	30	22			
20	102	151	198	220	257	298	342	370	420	
	121	118	115	113	108	102	97	90	78	
30	97	146	190	217	256	295	340	368	416	
	184	178	173	170	164	155	143	128	103	
40	89	140	185	210	252	290	335	363	412	
	246	241	235	228	220	210	194	177	150	
50	72	128	179	202	244	284	327	358	409	
	310	307	300	295	287	278	262	247	210	
60	60	116	170	198	240	279	321	352	400	
	374	367	359	354	346	338	323	306	265	
70	49	107	164	193	233	271	309	344	390	
	437	430	421	415	403	393	381	365	318	
75	36	98	152	185	226	265	300	334	379	
	472	463	450	441	431	420	405	389	365	

BMR 200 [194.5cm³/rev.]

Pressure (MPa)									
					Max.cont.		Max.int.		
5	7	9	10	12	14	16	17.5	20	

Flow (L/min)	Pressure (MPa)									
	5	7	9	10	12	14	16	17.5	20	
5	132	181	238	262	310					
	24	22	18	13	10					
10	135	186	240	264	315	356	403			
	49	47	45	43	38	33	24			
20	131	183	238	260	314	358	404	438	498	
	99	97	94	92	88	83	74	64	56	
30	126	178	233	254	311	355	402	431	486	
	149	147	144	141	135	126	113	105	91	
40	112	169	228	250	307	352	400	426	477	
	200	197	194	191	185	174	160	151	127	
50	95	156	221	246	300	350	398	421	470	
	252	249	246	243	238	228	212	194	161	
60	78	145	213	238	289	342	386	412	459	
	304	301	298	294	286	276	262	243	218	
70	67	135	206	228	277	336	375	408	453	
	355	353	349	340	329	316	300	288	257	
75	58	125	197	220	270	321	360	398	442	
	382	379	373	362	350	337	322	312	278	

BMR 250 [253.5cm³/rev.]

Pressure (MPa)									
					Max.cont.		Max.int.		
5	7	9	10	12	14	16	17.5	20	

Flow (L/min)	Pressure (MPa)									
	5	7	9	10	12	14	16	17.5	20	
5	175	243	304	342	407					
	17	16	14	12	10					
10	178	246	310	344	409	465	525			
	37	35	31	28	23	18	11			
20	175	244	308	340	408	463	520	558	636	
	75	73	72	70	66	58	53	50	42	
30	162	235	304	332	400	455	516	550	621	
	114	111	108	106	100	92	83	77	65	
40	143	223	300	329	396	447	512	546	617	
	154	152	150	147	143	132	120	110	90	
50	124	208	289	323	384	440	503	535	600	
	193	190	187	174	168	160	149	140	116	
60	103	192	280	314	371	426	489	514	578	
	233	230	227	224	218	205	190	181	155	
70	88	178	264	301	356	418	479	498	560	
	273	270	267	263	252	242	226	209	173	
75	62	165	256	288	347	412	474	486	542	
	294	291	287	283	274	263	249	236	211	

cont.
int.

Torque (N·m) 256
Speed (rpm) 287



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

Torque (N•m) 481
Speed (rpm) 200

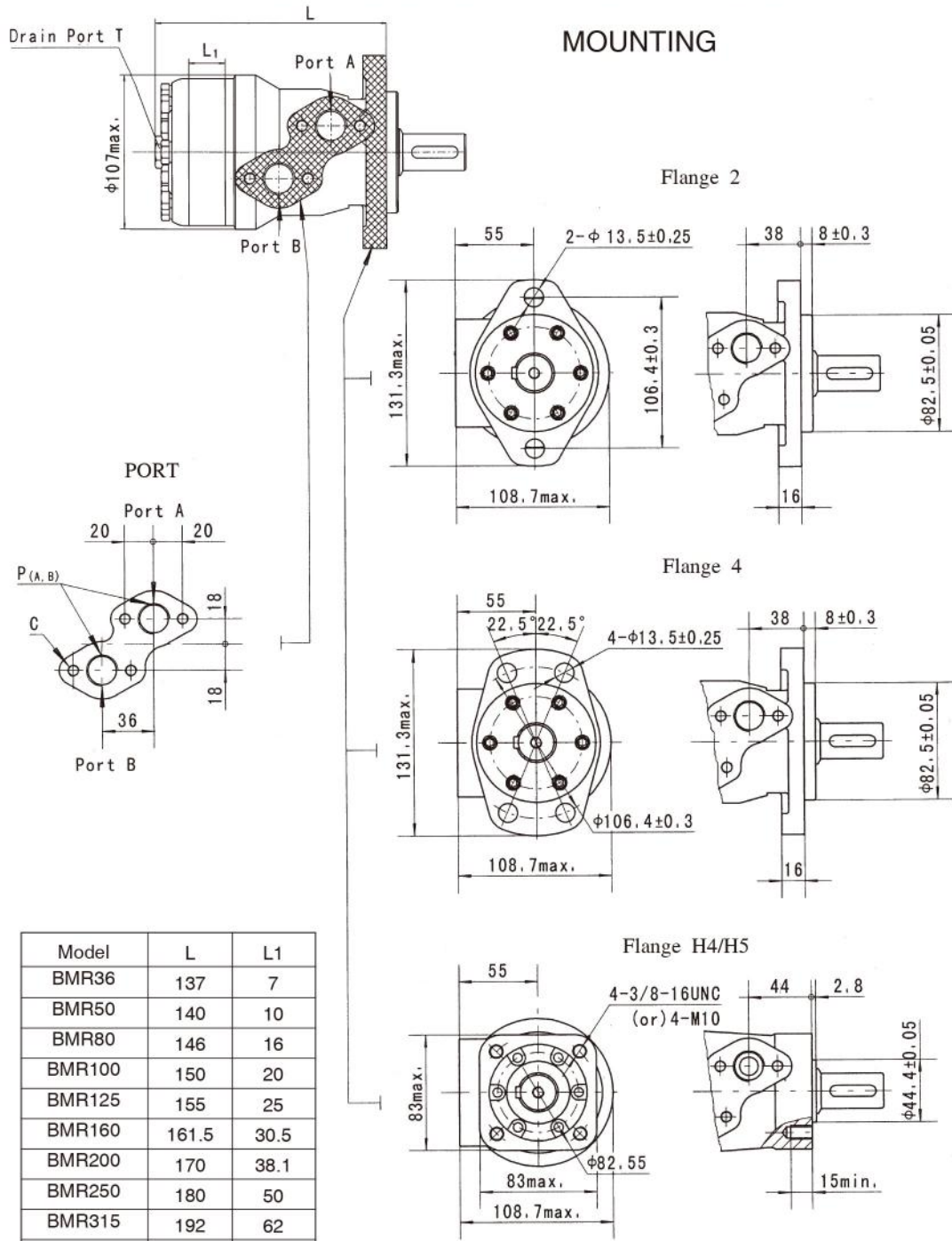
BMR 375 [381.4cm³/rev.]

Pressure (MPa)		Max.cont.				Max.int.	
3	4.5	5.5	6.5	8	10	12.5	14

Flow (L/min)	5		10		20		30		40		50		60		70		75		
	cont.	int.	cont.	int.	cont.	int.	cont.	int.	cont.	int.	cont.	int.	cont.	int.	cont.	int.	cont.	int.	
5	153	232																	
10	12	10																	
20	157	236	284	337	406	497	612	668											
30	24	23	22	21	19	17	15	12											
40	150	232	280	332	401	490	606	660											
50	49	48	47	46	44	41	38	32											
60	142	215	274	327	398	483	603	652											
70	76	75	74	73	71	67	63	50											
Max.int.	126	212	268	320	393	477	593	635											
	103	101	99	97	95	92	88	70											
	105	187	242	302	376	455	583	608											
	128	126	124	121	118	115	111	96											
	90	167	229	281	362	444	566	600											
	154	152	150	148	145	138	130	121											
	90	149	200	258	341	425	546	580											
	180	179	178	176	173	168	160	148											
	56	125	182	241	320	408	524	565											
Max.int.	195	194	193	191	189	185	178	170											

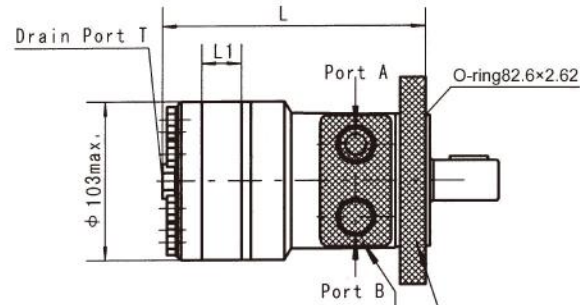
cont.
int.

BMR 安装连接尺寸
BMR DIMENSIONS AND MOUNTING DATA

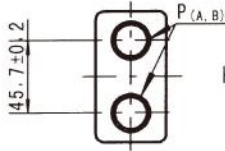


Code	D (depth)	M (depth)	S (depth)	P (depth)	R (depth)
P(A,B)	G1/2 (15)	M22 x 1.5 (15)	7/8-14 O-ring (17)	1/2-14NPTF (15)	PT(RC)1/2 (15)
C	4-M8 (13)	4-M8 (13)	4-5/16-18UNC(13)	4-5/16-18UNC(13)	4-M8 (13)
T	G1/4 (12)	M14 x 1.5 (12)	7/16-20UNF (12)	7/16-20UNF (12)	PT(RC)1/4 (9.7)

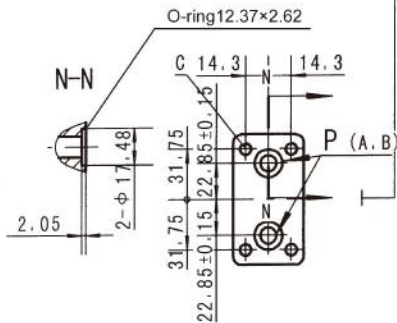
BMRS 安装连接尺寸
BMRS DIMENSIONS AND MOUNTING DATA



PORT: G、S、P、R、M1、M2、M3

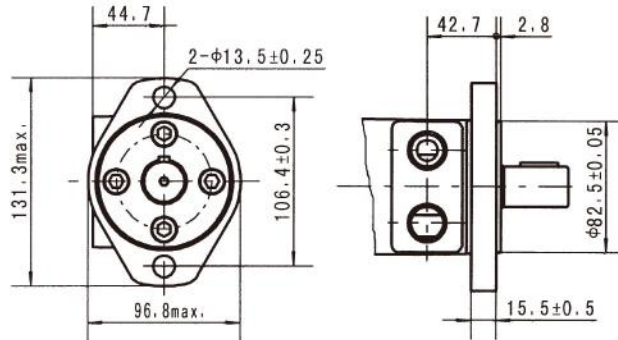


PORT: B4、B5

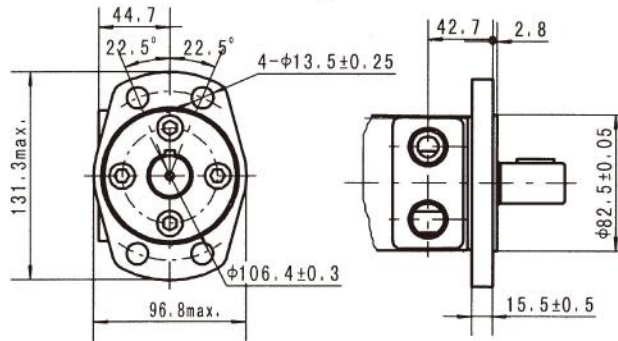


MOUNTING

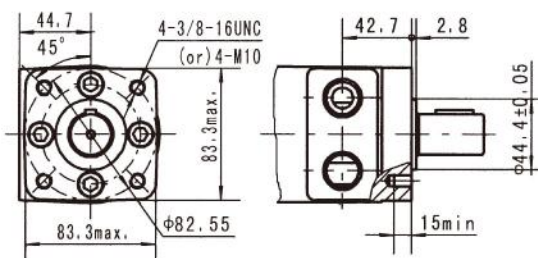
Flange H2



Flange H6



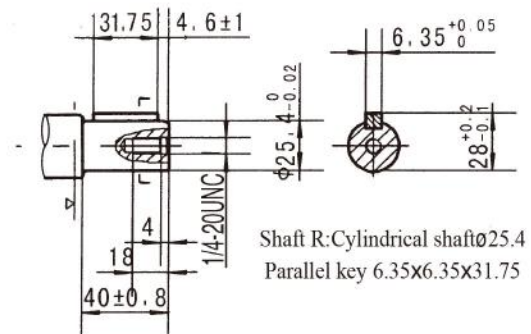
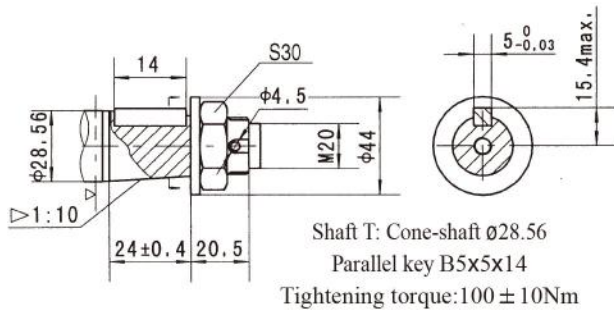
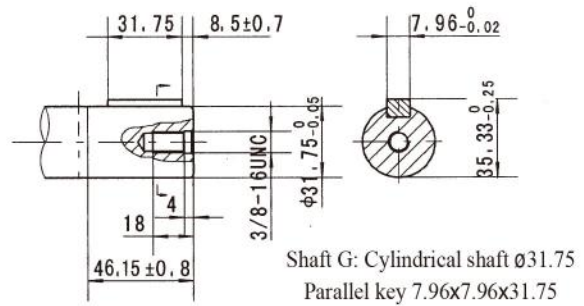
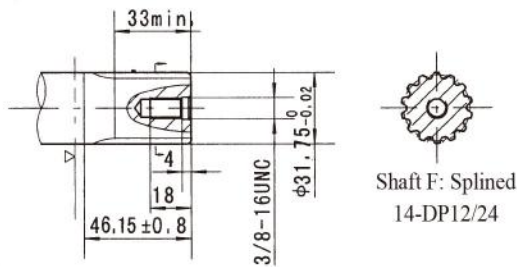
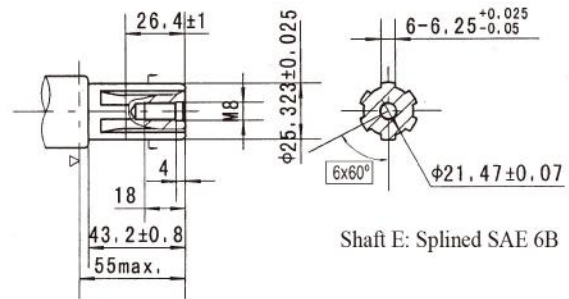
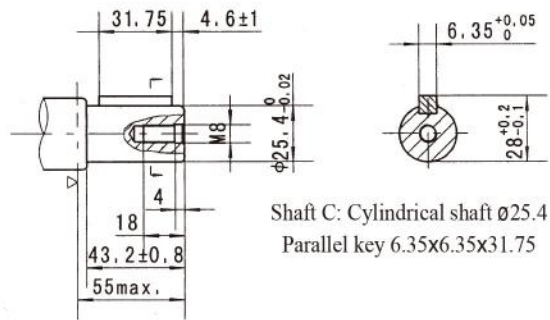
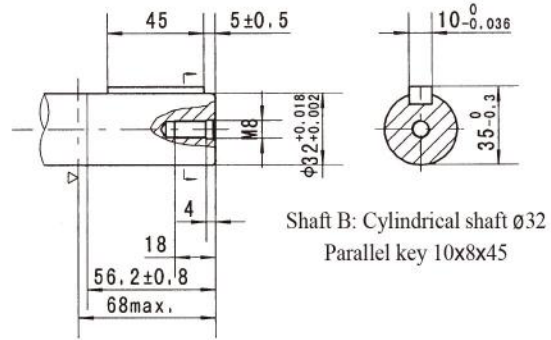
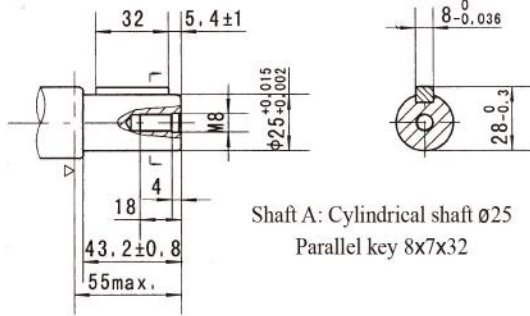
Flange H4/H5



Model	L	L1
BMRS36	141	7
BMRS50	144	10
BMRS80	150	16
BMRS100	154	20
BMRS125	159	25
BMRS160	165.5	30.5
BMRS200	174	38.1
BMRS250	184	50
BMRS315	196	62
BMRS375	208	74

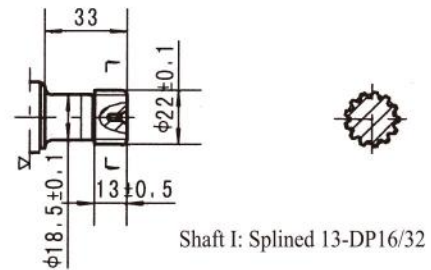
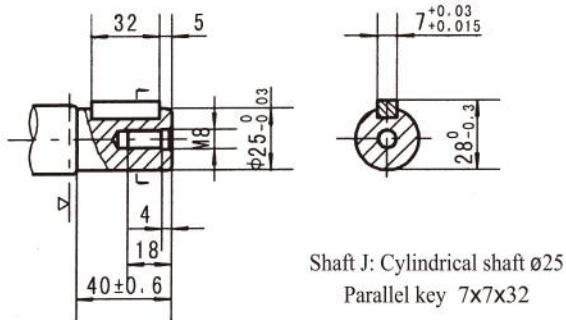
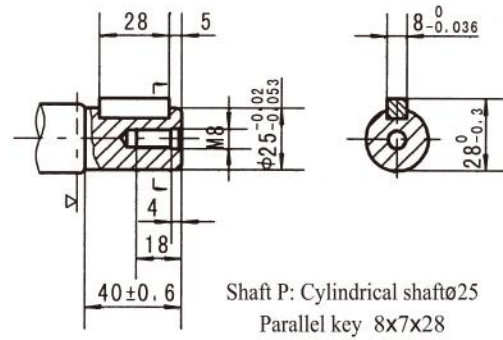
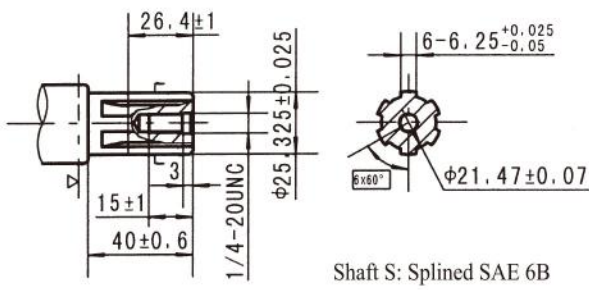
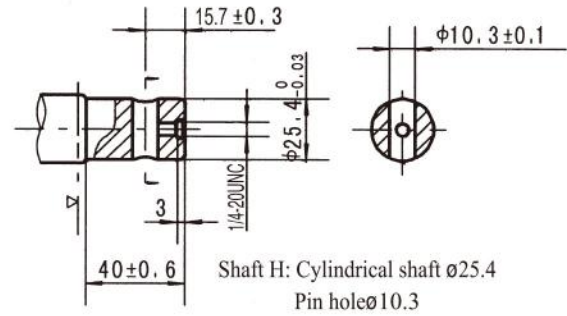
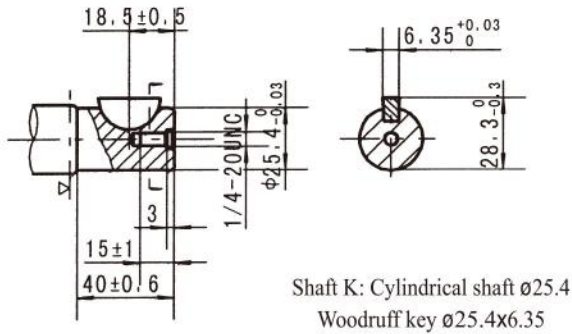
Code Mounting	G (depth)	S (depth)	P (depth)	R (depth)	M1 (depth)	M2 (depth)	M3 (depth)	B4 (depth)	B5 (depth)
P(A,B)	G1/2 (15)	7/8-14 O-ring (17)	1/2-14NPTF (15)	PT(RC)1/2 (15)	M18 x 1.5 (15)	M20 x 1.5 (15)	M22 x 1.5 (15)	ø10	ø10
T	G1/4 (12)	7/16-20UNF (12)	7/16-20UNF (12)	PT(RC)1/4 (9.7)	M10 x 1 (12)	M10 x 1 (12)	M10 x 1 (12)	7/16-20UNF(12)	G1/4(12)
C	-	-	-	-	-	-	-	4-5/16-18UNC(13)	4-M8(13)

BMR 轴伸连接尺寸
BMR SHAFT EXTENSIONS DIMENSIONS DATA



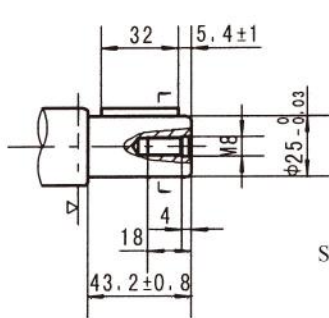
▷ Motor Mounting Surface

BMRS 轴伸连接尺寸
BMRS SHAFT EXTENSIONS DIMENSIDNS DATA

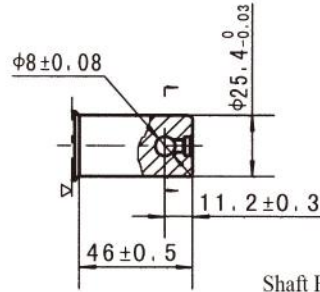
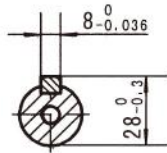


▷ Motor Mounting Surface

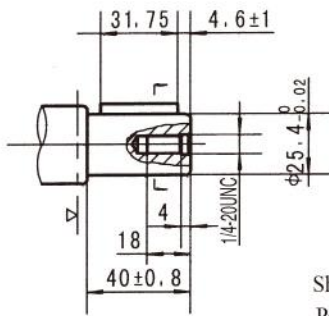
BMRS 轴伸连接尺寸
BMRS SHAFT EXTENSIONS DIMENSIONS DATA



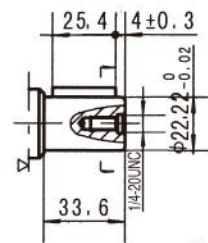
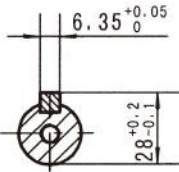
Shaft A: Cylindrical shaft Ø25
Parallel key 8x7x32



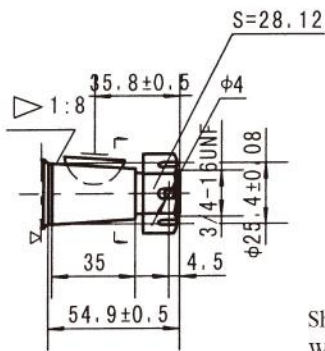
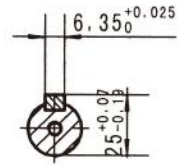
Shaft H1: Cylindrical shaft Ø25.4
Pin hole Ø8



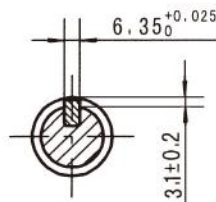
Shaft R: Cylindrical shaft Ø25.4
Parallel key 6.35x6.35x31.75



Shaft D: Cylindrical shaft Ø22.22
Parallel key 6.35x6.35x25.4



Shaft T2: Cone-shaft Ø25.4
Woodruff key Ø25.4x6.35
Tightening torque: 200 ± 10Nm

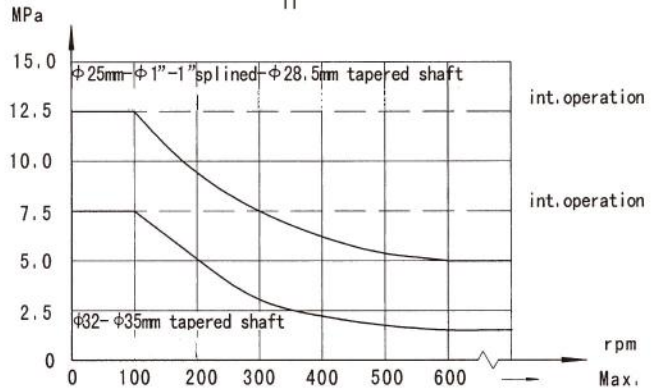
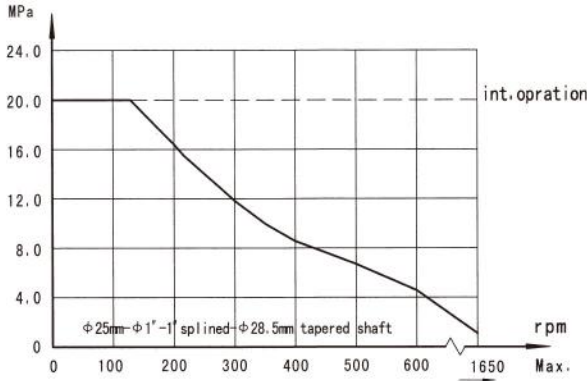
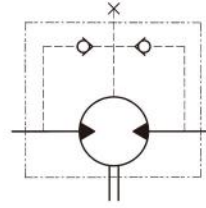


▷ Motor Mounting Surface

BMR、BMRS Series Hydraulic Motor

输出轴密封圈允许承受的压力

Permissible shaft seal pressure

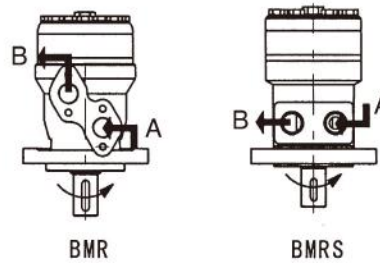


In applications without drain line, output shaft seal exceeds a bit of the pressure in the return line. When applications use the drain line, the pressure of output shaft seal equals the pressure in drain line.

输出轴的旋转方向：标准

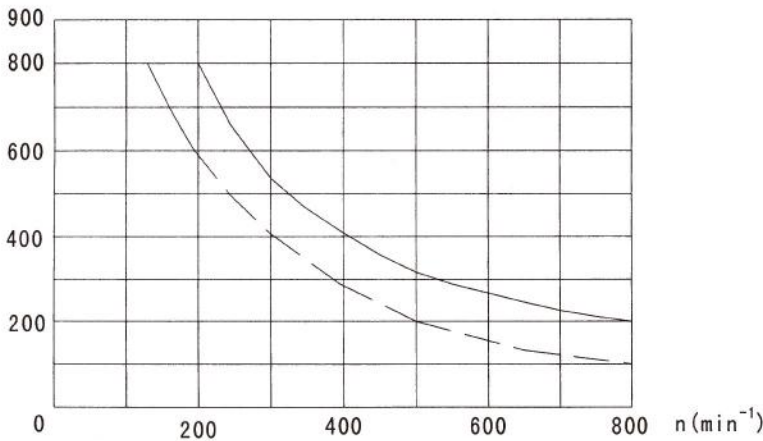
Direction of shaft rotation: Standard

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

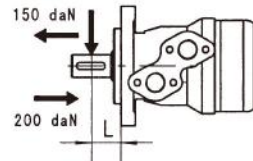


输出轴承受径向力情况

Status of the shaft's radial force



$$F_r = \frac{800 \cdot 25000}{n \cdot 95 + L} \text{ daN}$$



F_r =Radial Force (daN)
 L =Distance (mm)
 n =Speed (rpm)
Rhomb-flange $L=30\text{mm}$
Square-flange $L=24\text{mm}$

————— shaft φ25mm and φ1" (φ25.4mm)
- - - - - shaft φ32mm



订货信息
Order Information

1 2 3 4 5 6 7 8

BMR

Pos.1	2	3	4	5	6	7	8
Code	排量 Disp.	法兰 Flange	轴键 Output Shaft	油口 Port and Drain Port	Rotation Direction	Paint	Unusually Function
BMR	36	2-Ø13.5Rhomb-flange, pilot Ø2.5 × 8 4-Ø13.5Rhomb-flange, pilot Ø2.5 × 8 H4 4-3/8-16 Square-flange, pilot Ø44.4 × 2.8 H5 4-M10 Square-flange, pilot Ø44.4 × 2.8	A Shaft Ø25,parallel Key 8x7x32	D G1/2 Manifold Mount 4-M8, G1/4	Omit Standard Opposite R	00 Omit Blue Black Silver grey	Omit N Big radial force 0 No case drain F Free Running LS Low Speed
	50		B Shaft Ø32,parallel Key 10x8x45	M M22 × 1.5 Manifold Mount			
	80		C Shaft Ø25.4,parallel Key 6.35x6.35x31.75	S 4-M8, M14 × 1.5			
	100		E Shaft Ø25.4,parallel tooth SAE 6B	S 7/8-14 O-ring manifold			
	125		R Short shaft Ø25.4,parallel key 6.35x6.35x31.75	P 4-5/16-18UNC, 7/16-20UNF			
	160		F Shaft Ø31.75,splined tooth 14-DP1/224	P 1/2-14 NPTF			
	200		FD Long shaft Ø31.75,splined tooth 14-DP1/224	P Manifold 4-5/16-18UNC,			
	250		G Shaft Ø31.75,parallel Key 7.96x7.96x31.75	R 7/16-20UNF			
	315		T Cone-Shaft Ø28.56,parallel Key B5x5x14	R PT(Rc)1/2 Manifold 4-M8,			
	375						

1 2 3 4 5 6 7 8

BMRS

Pos.1	2	3	4	5	6	7	8
Code	排量 Disp.	法兰 Flange	轴键 Output Shaft	油口 Port and Drain Port	Rotation Direction	Paint	Unusually Function
BMRS	36	H2 2-Ø13.5Rhomb-flange, pilot Ø2.5 × 2.8 H6 4-Ø13.5Rhomb-flange, pilot Ø2.5 × 2.8 H4 4-3/8-16 Square-flange, pilot Ø44.4 × 2.8 H5 4-M10 Square-flange, pilot Ø44.4 × 2.8	K Shaft Ø25.4,Woodruff Key Ø25.4 × 6.35	G G1/2, G1/4	Omit Standard Opposite R	00 Omit Blue Black Silver grey	Omit N Big radial force 0 No case drain F Free Running LS Low Speed
	50		S Sub-shaft Ø25.4,splined tooth SAE 6B	S 7/8-14 O-ring 7/16-20UNF (G1/4)			
	80		A Shaft Ø25 , parallel key 8 × 7 × 32	P 1/2-14 NPTF, 7/16-20UNF (G1/4)			
	100		R Shaft Ø25.4, parallel key 6.35 × 6.35 × 31.75	T 3/4-16 O-ring, 7/16-20UNF			
	125		H Sub-shaft Ø25.4,Pin hole Ø10.3	R PT(Rc)1/2, PT(Rc)1/4			
	160		H1 Shaft Ø25.4, pin hole Ø8	B4 Ø10 O-ring manifold			
	200		D Shaft Ø22.22, parallel key 6.35 × 6.35 × 25.4	B5 4x5/16-18, 7/16-20UNF			
	250		I Shaft Ø22.22, splined tooth 13-DP16/32	B5 Ø10 O-ring manifold 4xM8, G1/4			
	315		T2 Cone shaft Ø25.4 , woodruff key Ø25.4 × 6.35	M1 M18 × 1.5, M10 × 1 M2 M20 × 1.5, M10 × 1 M3 M22 × 1.5, M10 × 1			
	375		P Shaft Ø25,parallel Key 8 × 7 × 28				
	J Shaft Ø25,parallel Key 7 × 7 × 32						

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.



BMH 系列液压摆线马达 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 Specifaicon

类型 Type		BMH 200	BMH 250	BMH 315	BMH 400	BMH 500
排量 Geometric displacement (cm ³ /rev.)		203.2	255.9	316.1	406.4	489.2
最大转速 Max. speed (rpm)	cont.	366	290	236	183	155
	int.	439	348	282	220	166
最大扭矩 Max. torque (N·m)	cont.	510	621	740	850	830
	int.	579	702	827	990	1040
	peak	651	790	980	1092	1170
最大功率 Max. output (kW)	cont.	16	16	14	12.5	11
	int.	18.5	18.5	15.5	15	14
工作压力差 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
最大流量 Max. flow (L/min)	cont.	75	75	75	75	75
	int.	90	90	90	90	90
重量 Weight (kg)		10.5	11	11.5	12.3	13

类型 Type		最大进油口压力 Max.inlet pressure	最大被压（接外泄油口） 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, 1¹/₄ in splined and 35mm tapered shaft.



性能参数 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)	3.5		7		10.5		14		17.5		20	
	Max.cont.	Max.int.	Max.cont.	Max.int.	Max.cont.	Max.int.	Max.cont.	Max.int.	Max.cont.	Max.int.	Max.cont.	Max.int.
5	98	25	194	25	284	22						
10	101	43	204	41	301	36	391	29	482	14		
20	99	100	201	97	304	93	402	85	509	69	576	56
30	97	145	197	143	300	139	402	130	510	114	579	101
40	90	200	190	200	292	200	399	188	507	168	578	153
50	82	248	183	246	284	244	392	235	500	213	571	199
60	73	292	174	290	274	287	384	279	493	260	563	244
70	63	352	163	350	264	349	374	338	481	318	554	301
Max.cont.	59	366	157	365	259	363	366	355	475	335	547	319
80	53	381	150	381	253	380	358	371	466	352	538	338
Max.int.	39	443	140	437	241	434	348	426	456	407	526	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)	3.5		7		9		12		14.5		17.5		20	
	Max.cont.	Max.int.	Max.cont.	Max.int.	Max.cont.	Max.int.	Max.cont.	Max.int.	Max.cont.	Max.int.	Max.cont.	Max.int.	Max.cont.	Max.int.
5	121	19	246	19	318	18	398	14						
10	130	34	258	33	331	31	425	29	515	23	595	12		
20	130	78	258	77	332	76	432	73	520	65	621	53	702	42
30	122	115	251	113	327	111	429	105	520	96	621	84	700	75
40	115	157	240	157	323	156	422	150	513	139	616	127	698	114
50	105	196	232	195	314	192	411	185	505	173	606	159	687	147
60	94	232	220	230	302	226	401	218	496	206	596	192	676	180
70	81.4	274	209	274	288	274	389	266	484	252	582	238	666	222
Max.cont.	72	290	203	289	280	287	381	279	475	266	574	251	659	236
80	66	303	194	302	273	298	371	290	467	279	566	264	651	249
Max.int.	49	348	178	347	256	345	355	337	453	325	552	309	634	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)	3.5		7.5		10		13.5		15.5		17.5		20	
	Max.cont.	Max.int.	Max.cont.	Max.int.	Max.cont.	Max.int.	Max.cont.	Max.int.	Max.cont.	Max.int.	Max.cont.	Max.int.	Max.cont.	Max.int.
5	155	16	325	13										
10	163	27	342	24	454	18	556	14						
20	169	63	349	61	469	55	582	48	664	40	733	32	809	19
30	165	93	344	89	470	82	580	77	669	67	740	59	824	46
40	154	126	337	126	465	119	577	111	663	99	737	88	827	73
50	141	159	325	155	455	148	568	139	656	126	728	115	824	98
60	121	187	312	186	440	179	555	169	643	154	715	143	812	124
70	103	222	298	222	425	215	541	205	631	187	703	176	800	157
Max.cont.	94	236	287	233	417	224	529	215	623	196	696	184	792	166
80	82	246	277	244	406	228	518	210	611	197	688	174	784	174
Max.int.	62	282	256	280	386	275	496	266	593	248	669	234	767	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)	3.5		6		10.5		12.5		15.5		19	
	Max.cont.	Max.int.	Max.cont.	Max.int.	Max.cont.	Max.int.	Max.cont.	Max.int.	Max.cont.	Max.int.	Max.cont.	Max.int.
5	196	13	348	13	516	10						
10	205	22	363	21	546	21	702	17	859	11		
20	209	50	366	49	543	46	708	41	874	36	988	31
30	201	73	357	72	542	70	706	63	864	56	984	51
40	195	99	346	98	532	96	701	86	858	77	973	71
50	173	123	332	122	518	118	687	107	848	97	958	90
60	154	146	319	144	501	141	668	128	833	115	944	106
70	138	174	305	173	480	169	649	156	814	141	925	130
Max.cont.	128	183	294	181	466	177	637	163	802	149	911	138
80	113	192	277	191	451	188	621	174	786	158	899	144
Max.int.	90	220	256	220	433	215	595	202	767	183	881	165

Torque (N•m) 593
Speed (rpm) 248

□ cont.
■ int.



性能参数 Performance Data

BMH 500 [500cm³/rev.]

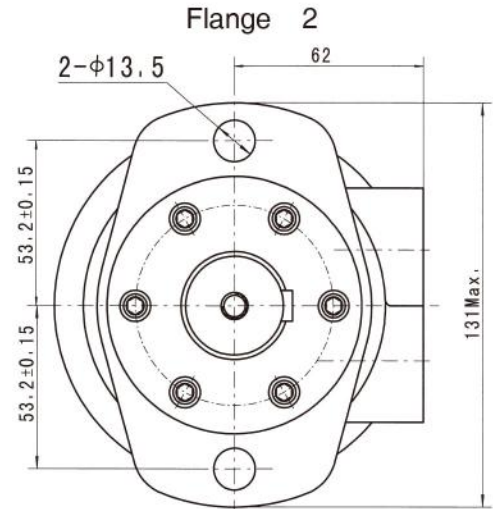
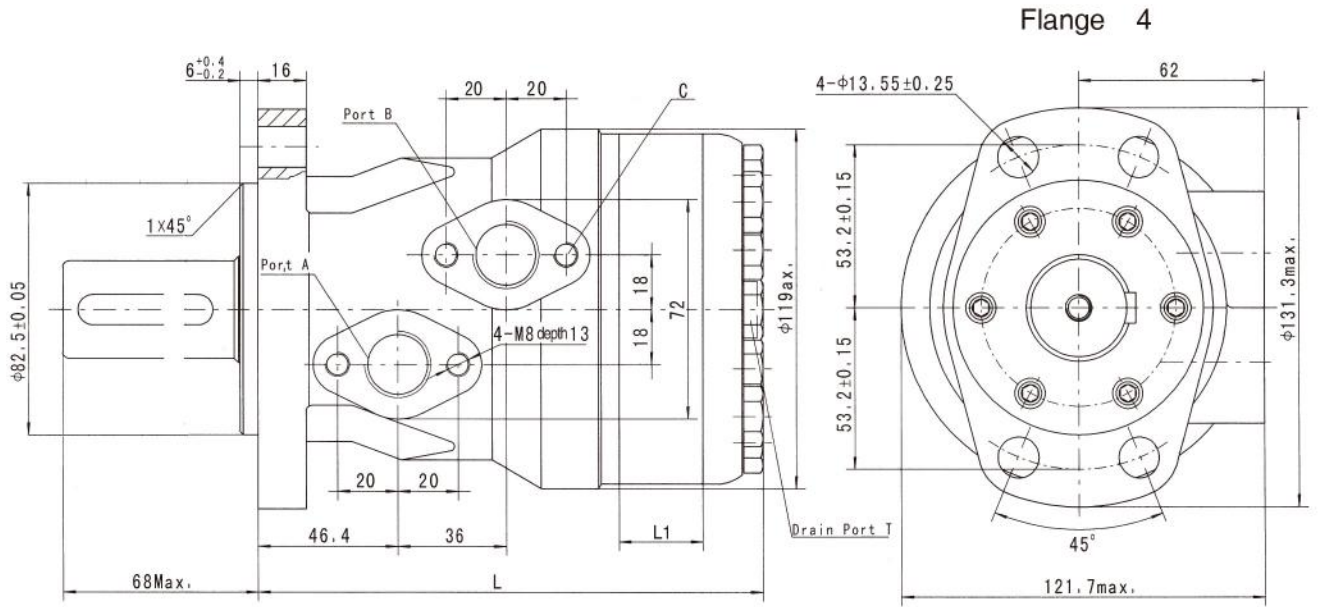
Pressure (MPa)

					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	34 166	201 165	421 164	550 157	673 156	869 155	

Legend: cont. int.

Torque (N•m) 673
Speed (rpm) 156

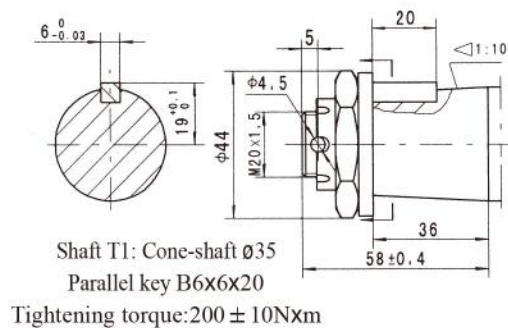
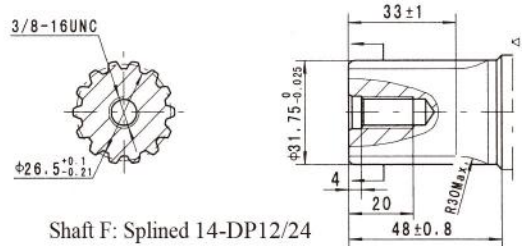
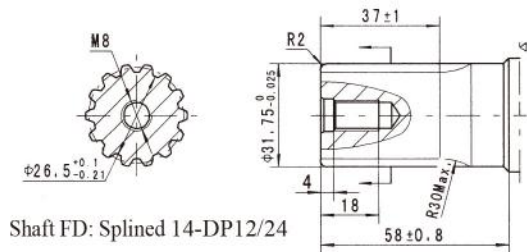
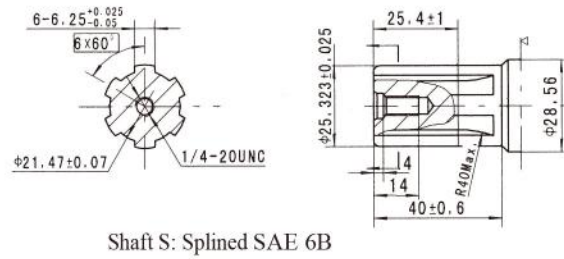
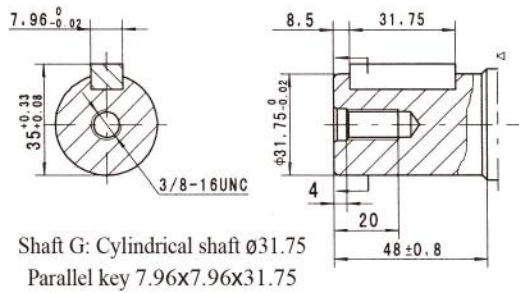
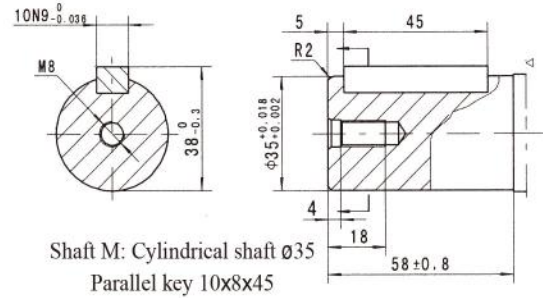
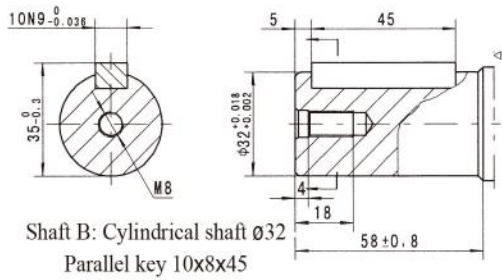
BMH 安装连接尺寸
BMH DIMENSIONS AND MOUNTING DATA



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

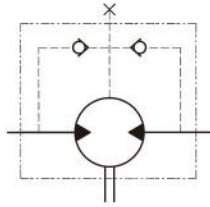
Code	D (depth)	M (depth)	S (depth)	P (depth)	R (depth)
Mounting P(A,B)	G1/2 (15)	M22 x 1.5 (15)	7/8-14 O-ring (15)	1/2-14NPTF (15)	PT(RC)1/2 (15)
C	4-M8 (13)	4-M8 (13)	4-M8 (13)	4-M8 (13)	4-M8 (13)
T	G1/4 (12)	M14 x 1.5 (12)	7/16-20UNF (12)	7/16-20UNF (12)	PT(RC)1/4 1/4

BMH 轴伸链接尺寸
BMH SHAFT EXTENSIONS DIMINSIONS DATA

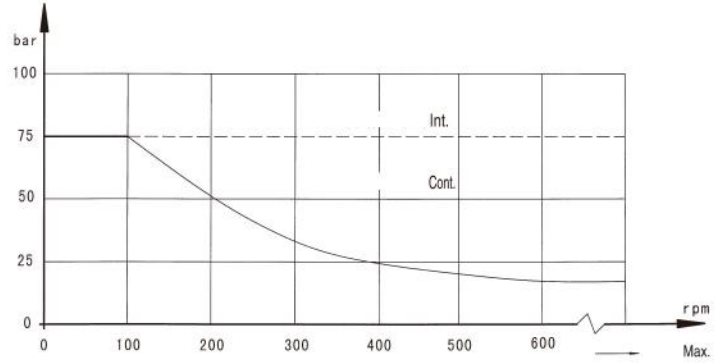


BMH series Hydraulic Motor

输出轴密封圈允许承受的压力 Permissible shaft seal pressure

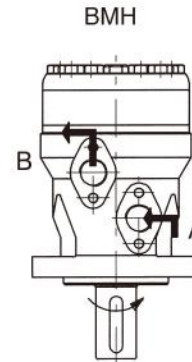


In applications without drain line, output shaft seal exceeds a bit of the pressure in the return line. When applications use the drain line, the pressure of output shaft seal equals the pressure in drain line.



输出轴的旋转方向：标准 Direction of shaft rotation: Standard

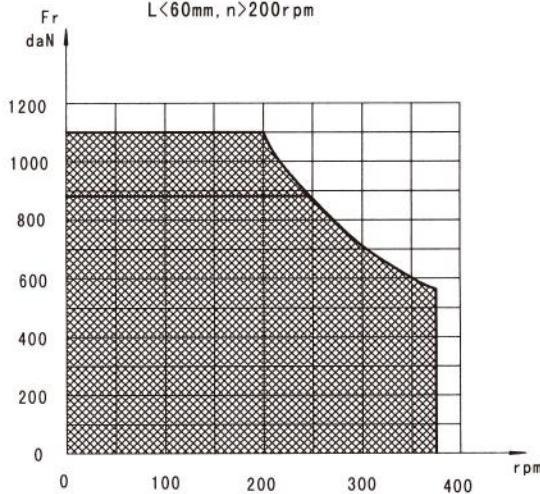
When facing shaft end of motor, shaft to rotate:
Clockwise when port "A" is pressurized.
Counter-clockwise when port "B" is pressurized.



Status of the shaft's radial force

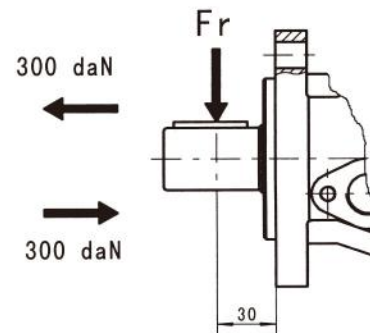
$$F_r = \frac{1100}{n} \times \frac{25000}{103.5+L} \text{ daN}$$

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



— shaft $\phi 1"$ ($\phi 25.4\text{mm}$) and shaft SAE 6B

The drawing is the Possible load when $L=30\text{mm}$.



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



订货信息
Order Information



Pos.1	2	3	4	5	6	7	8
Code	排量 Disp.	法兰 Flange	轴键 Output shaft	油口 Port and drain port	Rotation	Paint	Unusually function
Omit	160	4 × Ø13.5 Rhomb × flange Pilot Ø82.5 × 6	B Shaft Ø32 , parallel key 10 × 8 × 45	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 × M8,7/16-20UNF P 1/2-14 NPTF Manifold mount 4 × M8,7/16-20UNF R PT(Rc) 1/2 Manifold mount 4 × M8,PT(Rc)1/4	Omit Standard Opposite R	00 No paint Blue Black Silver grey	Standard No drain Free Running Low Speed
	200		M Shaft Ø35, parallel key 10 × 8 × 45				
	250		F Shaft Ø31.75, splined key 14-DP12/24				
	315		FD Long Shaft Ø31.75, splined key 14-DP12/24				
	400		G Shaft Ø31.75 parallel key 7.96 × 7.96 × 31.75				
500	T1 Cone shaft Ø35, parallel key B6 × 6 × 20	S Shaft Ø25.4, Splined SAE 6B					

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.



BMS 系列液压摆线马达 BMS SERIES HYDRAULIC MOTOR

BMS series motor adapt the advanced Geroler gear set design with disc distribution flow and high pressure. The unit can be supplied the individual variant in operating multifunction in accordance with requirement of applications.

Characteristic features:

- * Advanced manufacturing devices for the Geroler gear set, which use low pressure of start-up, provide smooth and reliable operation and high efficiency.
- * The output shaft adapts in tapered roller bearings that permit high axial and radial forces. The case can offers capacities of high pressure and high torque in the wide of applications.
- * Advanced design in disc distribution flow, which can automatically compensate in operating with high volume efficiency and long life, provide smooth and reliable operation.

主要技术参数 Main Specifaion

类型 Type		BMS BMSE 80	BMS BMSE 100	BMS BMSE 125	BMS BMSE 160	BMS BMSE 200	BMS BMSE 250	BMS BMSE 315	BMS BMSE 375
排量: Geometric displacement (cm ³ /rev.)		80.6	100.8	125	157.2	200	252	314.5	370
最大转速 Max. speed (rpm)	cont.	800	748	600	470	375	300	240	200
	int.	988	900	720	560	450	360	280	240
最大扭矩 Max. torque (N•m)	cont.	190	240	310	316	400	450	560	536
	int.	240	300	370	430	466	540	658	645
	peak	260	320	400	472	650	690	740	751
最大功率 Max. output (kW)	cont.	15.9	18.8	19.5	15.6	15.7	14.1	14.1	11.8
	int.	20.1	23.5	23.2	21.2	18.3	17.0	18.9	17
工作压力差 Max. pressure drop (MPa)	cont.	17.5	17.5	17.5	15	14	12.5	12	10
	int.	21	21	21	21	16	16	14	12
	peak	22.5	22.5	22.5	22.5	22.5	20	18.5	14
最大流量 Max. flow (L/min)	cont.	65	75	75	75	75	75	75	75
	int.	80	90	90	90	90	90	90	90
最高进油压力 Max. inlet pressure(MPa)	cont.	25	25	25	25	25	25	25	25
	int.	30	30	30	30	30	30	30	30
重量 Weight (kg)		9.8	10	10.3	10.7	11.1	11.6	12.3	12.6

- * 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.



性能参数 Performance Data

BMS 80 [80.6cm³/rev.]

Pressure (MPa)

				Max.cont.			Max.int.	
		3.5	7	10.5	14	17.5	21	22.5
Flow (L/min)	15	35	80	120	158	195	235	249
	30	180	174	168	164	158	151	143
	40	482	473	464	453	444	434	415
	50	30	77	117	153	192	232	248
Max.cont.	60	602	594	587	569	560	551	522
	65	28	77	117	153	192	232	247
Max.int.	75	724	713	707	683	673	664	629
	80	25	75	114	152	190	230	245
		790	785	770	760	742	720	704
		22	70	110	140	170	200	220
		980	965	950	920	891	860	830

BMS 100 [100.8cm³/rev.]

Pressure (MPa)

				Max.cont.			Max.int.	
		3.5	7	10.5	14	17.5	21	22.5
Flow (L/min)	15	48	95	150	200	250	289	310
	30	146	144	139	135	130	120	105
	40	291	289	278	274	269	258	242
	50	43	89	142	196	248	293	316
Max.cont.	60	387	384	374	359	350	335	320
	75	40	88	135	194	247	292	315
Max.int.	90	486	483	473	462	450	430	420
		37	88	132	185	244	289	312
		588	584	574	562	550	538	520
		35	80	130	180	240	286	310
		740	735	720	705	696	676	653
		30	75	124	170	236	277	303
		850	840	810	787	770	750	747

BMS 125 [125cm³/rev.]

Pressure (MPa)

				Max.cont.			Max.int.	
		3.5	7	10.5	14	17.5	21	22.5
Flow (L/min)	15	55	120	176	245	309	349	375
	30	112	110	103	96	93	90	84
	40	222	220	217	208	200	199	190
	50	55	120	175	250	324	375	408
Max.cont.	60	302	298	292	284	276	268	260
	75	50	115	176	248	320	370	406
Max.int.	90	379	373	368	363	350	339	328
		45	113	171	245	324	368	406
		456	448	443	439	425	406	393
		45	110	167	240	314	370	401
		570	563	555	546	533	515	503
		40	105	162	237	309	365	398
		685	676	670	659	644	625	610

BMS 160 [157.2cm³/rev.]

Pressure (MPa)

				Max.cont.			Max.int.	
		3.5	7	10.5	14	17.5	21	22.5
Flow (L/min)	15	70	140	205	305	371	430	473
	30	91	88	84	78	76	74	58
	40	185	182	176	168	164	162	152
	50	70	150	214	321	380	427	490
Max.cont.	60	248	244	239	229	224	217	204
	75	65	145	215	316	378	425	482
Max.int.	90	312	308	304	294	288	280	270
		65	145	214	315	375	424	482
		375	371	365	357	346	336	323
		60	138	208	311	375	420	
		470	465	458	447	436	426	
		56	130	200	308	370	414	
		564	559	551	541	526	517	

Torque (N·m) 309
Speed (rpm) 644

cont.
int.



性能参数 Performance Data

BMS 200 [200cm³/rev.]

		Pressure (MPa)					
		Max.cont.			Max.int.		
		3.5	7	10.5	14	17.5	22.5
Flow (L/min)	15	89	190	295	400	484	608
		73	71	68	64	60	52
	30	87	190	294	399	485	600
		148	146	143	140	135	127
	40	86	188	292	397	483	594
	193	191	189	186	181	172	
	80	184	290	395	480	590	
	247	245	243	240	235	226	
	74	178	286	390	475	582	
	298	295	293	290	284	273	
Max.cont.	75	58	160	275	375	460	570
		372	369	365	362	358	346
Max.int.	90	49	148	260	355	445	555
		440	435	430	422	411	401

BMS 250 [252cm³/rev.]

		Pressure (MPa)						
		Max.cont.			Max.int.			
		3.5	7	10.5	14	17.5	22.5	
Flow (L/min)	15	117	230	355	52	450	554	652
		58	55	52	51	47	46	
	30	117	225	348	446	560	657	
		118	117	348	109	107	106	
	40	115	225	345	442	552	650	
	160	156	345	150	146	142		
	110	220	340	438	546	645		
	202	200	340	196	195	192		
	105	220	338	435	542	642		
	242	239	338	234	231	229		
Max.cont.	75	95	215	332	430	537	638	
		300	296	332	286	282	278	
Max.int.	90	90	205	348	420	530	632	
		360	354	340	332	326	326	

BMS 315 [314.5cm³/rev.]

		Pressure (MPa)					
		Max.cont.			Max.int.		
		3.5	7	10.5	12	14	18.5
Flow (L/min)	15	160	320	465	555	650	748
		48	47	45	43	40	38
	30	165	322	468	560	658	752
		94	92	90	89	86	85
	40	160	310	457	546	642	741
	125	123	120	118	116	115	
	155	305	450	538	637	736	
	158	156	153	150	147	145	
	152	302	442	532	632	732	
	175	174	170	164	162	159	
Max.cont.	75	145	295	436	525	628	726
		236	234	230	227	225	222
Max.int.	90	132	280	430	520	622	723
		285	282	280	276	273	270

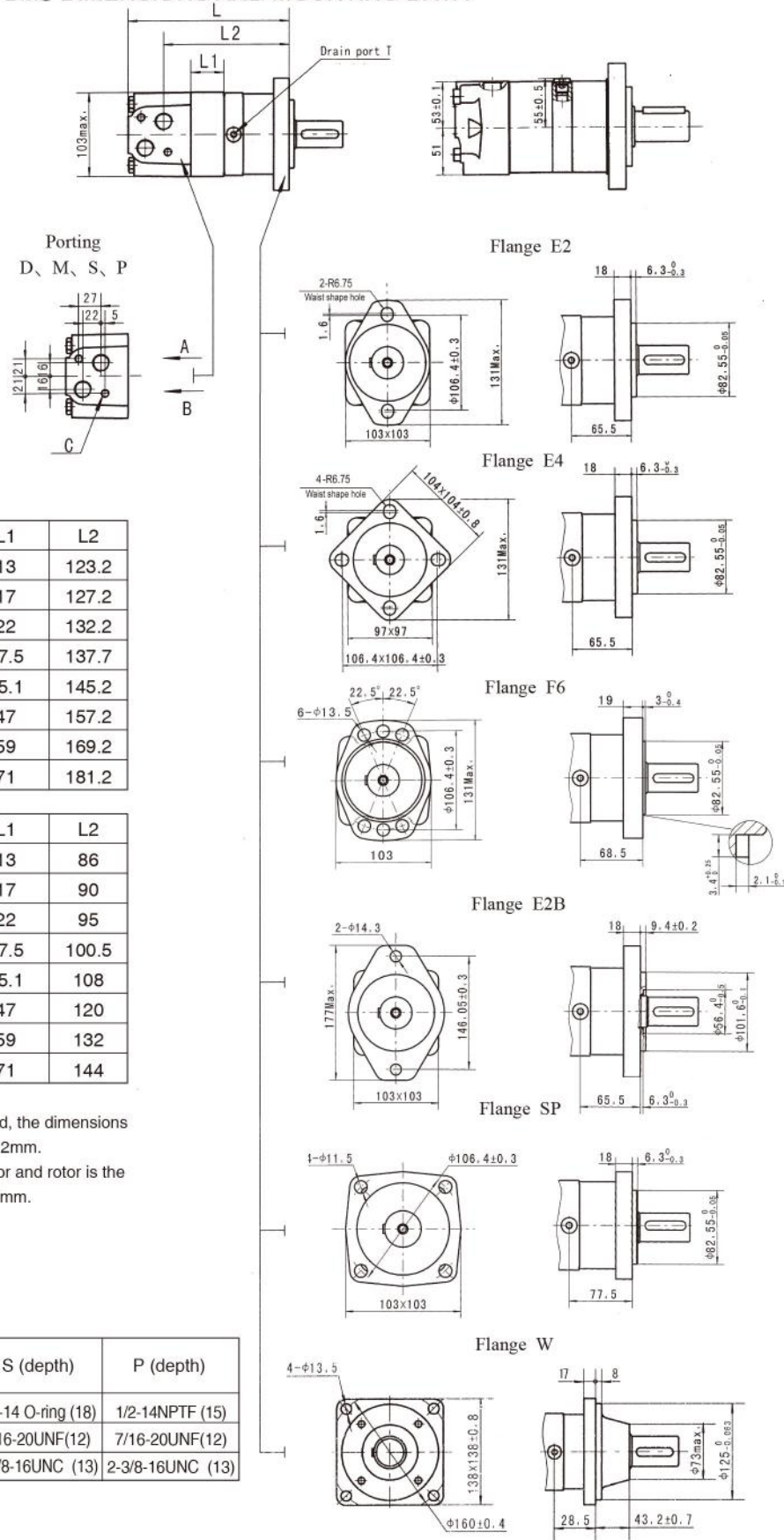
BMS 375 [370cm³/rev.]

		Pressure (MPa)					
		Max.cont.			Max.int.		
		3.5	7	9	10	12	14
Flow (L/min)	15	185	362	474	512	588	660
		40	39	38	37	35	33
	30	184	364	475	514	590	661
		80	78	77	76	74	72
	40	180	362	473	513	588	659
	106	104	103	102	100	97	
	160	360	472	511	586	658	
	133	131	130	129	128	125	
	150	359	471	510	585	657	
	157	156	155	154	152	150	
Max.cont.	75	130	353	465	504	584	651
		200	198	196	195	194	193
Max.int.	90	105	350	462	500	580	647
		238	235	234	232	230	227

Torque (N·m) 520
Speed (rpm) 276

□ cont.
■ int.

BMS 安装连接尺寸
BMS DIMENSIONS AND MOUNTING DATA



Model	L	L1	L2
BMS-80	167	13	123.2
BMS-100	171	17	127.2
BMS-125	176	22	132.2
BMS-160	181.5	27.5	137.7
BMS-200	189	35.1	145.2
BMS-250	201	47	157.2
BMS-315	213	59	169.2
BMS-375	225	71	181.2

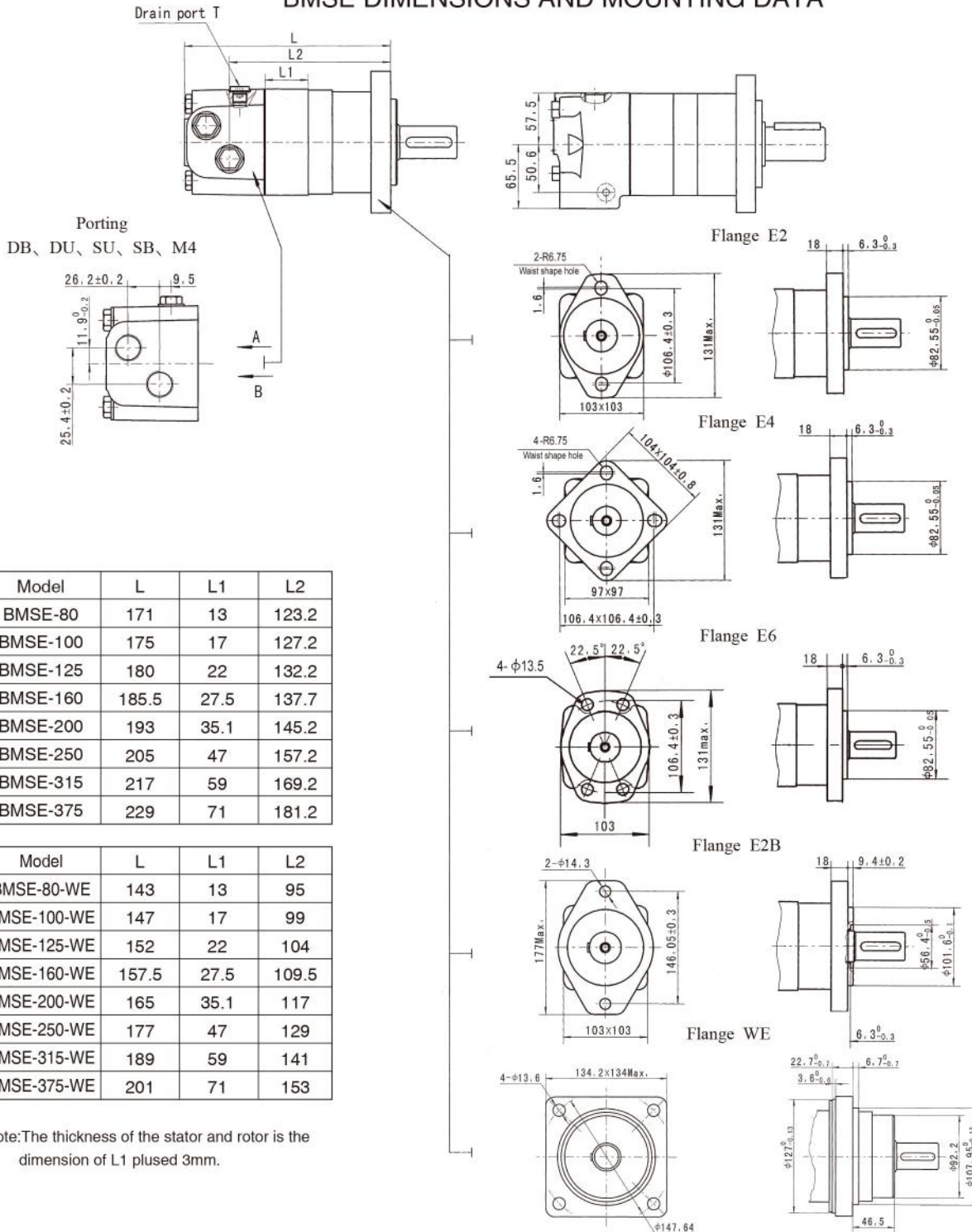
Model	L	L1	L2
BMS-80-W	129.4	13	86
BMS-100-W	133.4	17	90
BMS-125-W	138.4	22	95
BMS-160-W	143.9	27.5	100.5
BMS-200-W	151.4	35.1	108
BMS-250-W	163.4	47	120
BMS-315-W	175.4	59	132
BMS-375-W	187.4	71	144

Note:1) If the mounting SP is used, the dimensions of L and L2 should plus 12mm.

2) The thickness of the stator and rotor is the dimension of L1 plused 3mm.

Code Mounting	D (depth)	M (depth)	S (depth)	P (depth)
P(A,B)	G1/2(18)	M22x1.5(18)	7/8-14 O-ring (18)	1/2-14NPTF (15)
T	G1/4(12)	M14x1.5(12)	7/16-20UNF(12)	7/16-20UNF(12)
C	2-M10(13)	2-M10 (13)	2-3/8-16UNC (13)	2-3/8-16UNC (13)

BMSE 安装连接尺寸
BMSE DIMENSIONS AND MOUNTING DATA



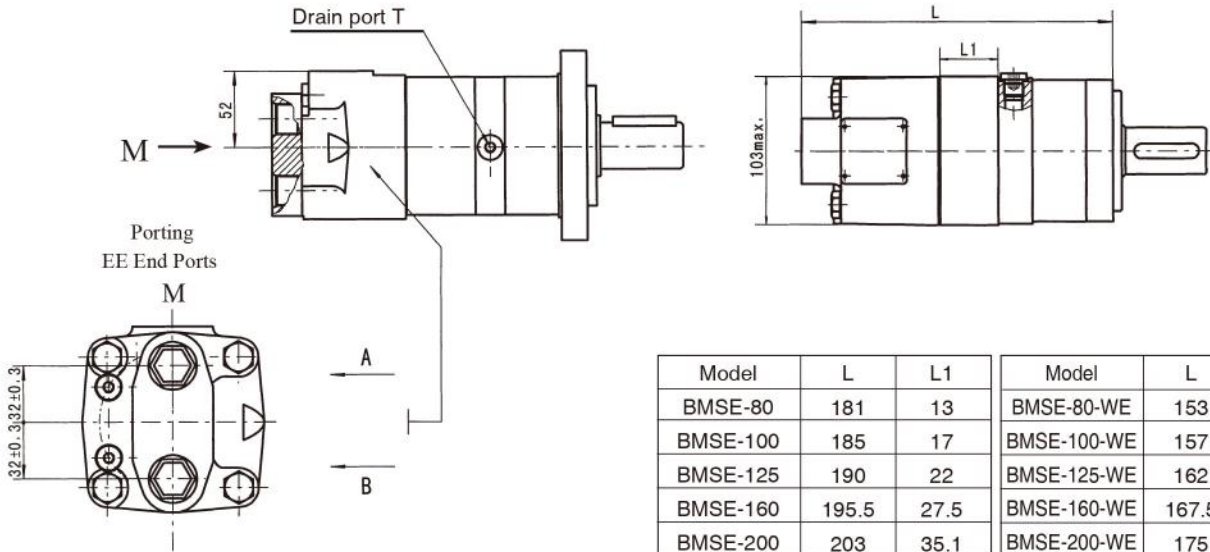
Model	L	L1	L2
BMSE-80	171	13	123.2
BMSE-100	175	17	127.2
BMSE-125	180	22	132.2
BMSE-160	185.5	27.5	137.7
BMSE-200	193	35.1	145.2
BMSE-250	205	47	157.2
BMSE-315	217	59	169.2
BMSE-375	229	71	181.2

Model	L	L1	L2
BMSE-80-WE	143	13	95
BMSE-100-WE	147	17	99
BMSE-125-WE	152	22	104
BMSE-160-WE	157.5	27.5	109.5
BMSE-200-WE	165	35.1	117
BMSE-250-WE	177	47	129
BMSE-315-WE	189	59	141
BMSE-375-WE	201	71	153

Note: The thickness of the stator and rotor is the dimension of L1 plus 3mm.

Code	DB (depth)	DU (depth)	SU (depth)	SB (depth)	M4 (depth)
P(A,B)	G1/2 (18)	G1/2 (18)	7/8-14 O-ring (18)	7/8-14 O-ring (18)	M22 x 1.5 (18)
T	G1/4 (12)	7/16-20UNF(12)	7/16-20UNF(12)	G1/4 (12)	M14 x 1.5 (12)

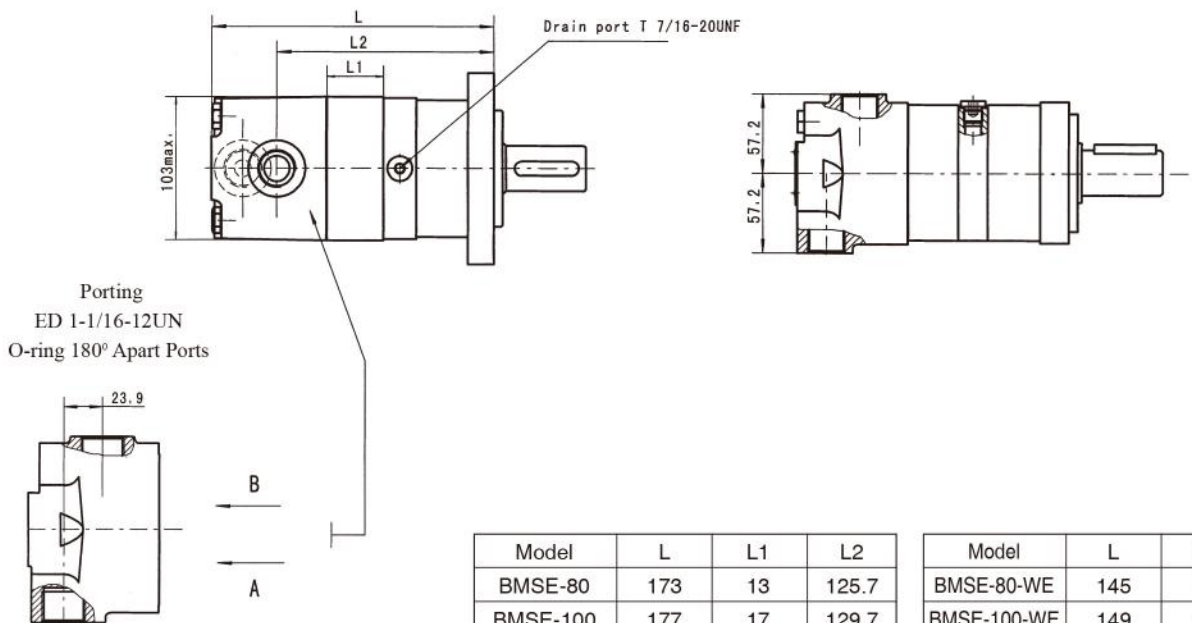
BMSE 安装连接尺寸
BMSE DIMENSIONS AND MOUNTING DATA



Code Mounting	EE-D (depth)	EE-M2 (depth)	EE-S2 (depth)
P(A,B)	G1/2 (18)	M22 x 1.5 (18)	7/8-14 O-ring (18)
T	G1/4 (12)	M14 x 1.5 (12)	7/16-20UNF(12)

Model	L	L1	Model	L	L1
BMSE-80	181	13	BMSE-80-WE	153	13
BMSE-100	185	17	BMSE-100-WE	157	17
BMSE-125	190	22	BMSE-125-WE	162	22
BMSE-160	195.5	27.5	BMSE-160-WE	167.5	27.5
BMSE-200	203	35.1	BMSE-200-WE	175	35.1
BMSE-250	215	47	BMSE-250-WE	187	47
BMSE-315	227	59	BMSE-315-WE	199	59
BMSE-375	239	71	BMSE-375-WE	211	71

Note: The thickness of the stator and rotor is the dimension of L1 plus 3mm.



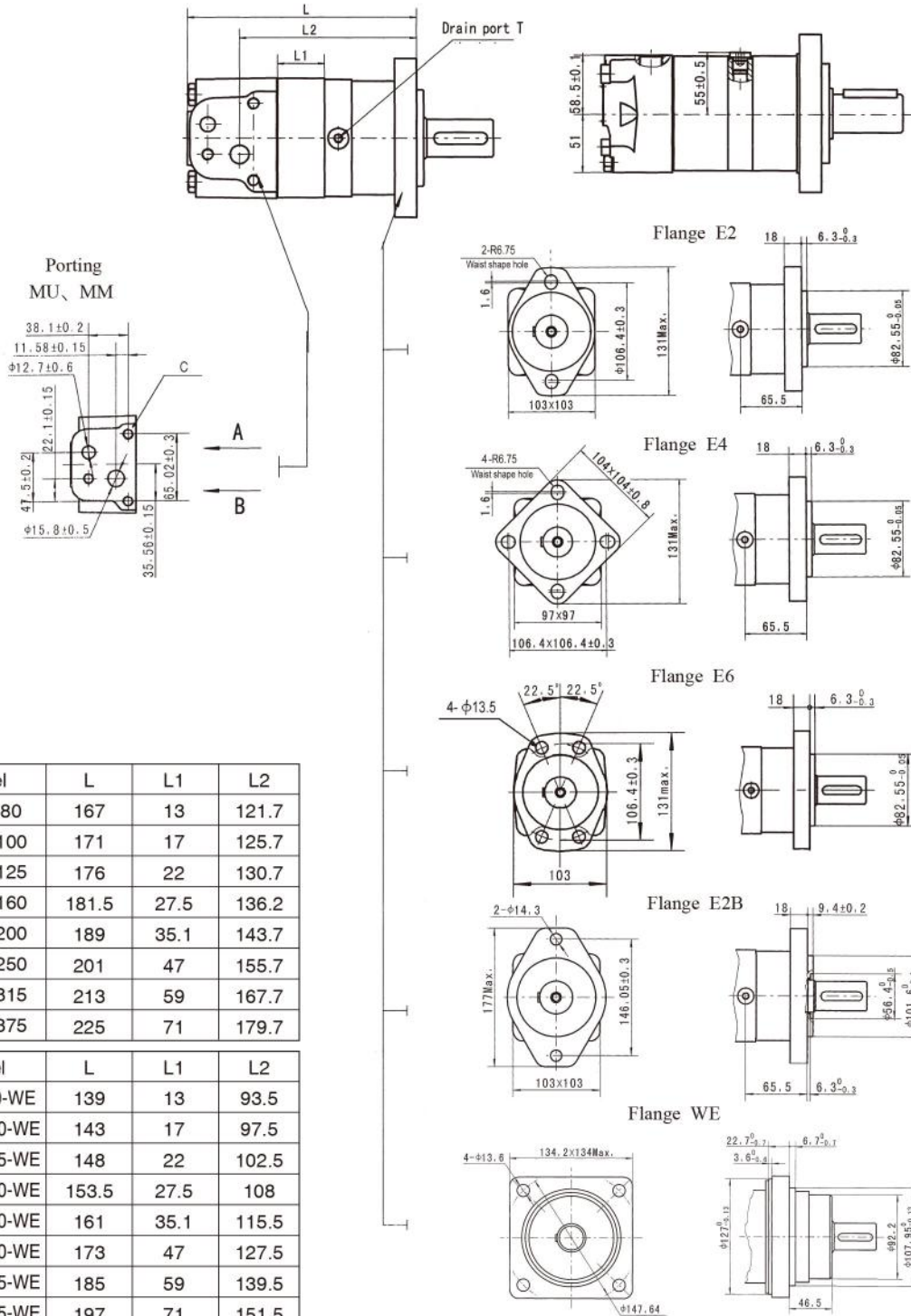
Code Mounting	ED (depth)
P(A,B)	1-1/16-12UN O-ring (18)
T	7/16-20UNF(12)

Model	L	L1	L2
BMSE-80	173	13	125.7
BMSE-100	177	17	129.7
BMSE-125	182	22	134.7
BMSE-160	187.5	27.5	140.2
BMSE-200	195	35.1	147.7
BMSE-250	207	47	159.7
BMSE-315	219	59	171.7
BMSE-375	231	71	183.7

Model	L	L1	L2
BMSE-80-WE	145	13	97.5
BMSE-100-WE	149	17	101.5
BMSE-125-WE	153	22	106.5
BMSE-160-WE	158.5	27.5	112
BMSE-200-WE	166	35.1	119.5
BMSE-250-WE	179	47	131.5
BMSE-315-WE	191	59	143.5
BMSE-375-WE	203	71	155.5

Note: The thickness of the stator and rotor is the dimension of L1 plus 3mm.

BMSE 安装连接尺寸
BMSE DIMENSIONS AND MOUNTING DATA



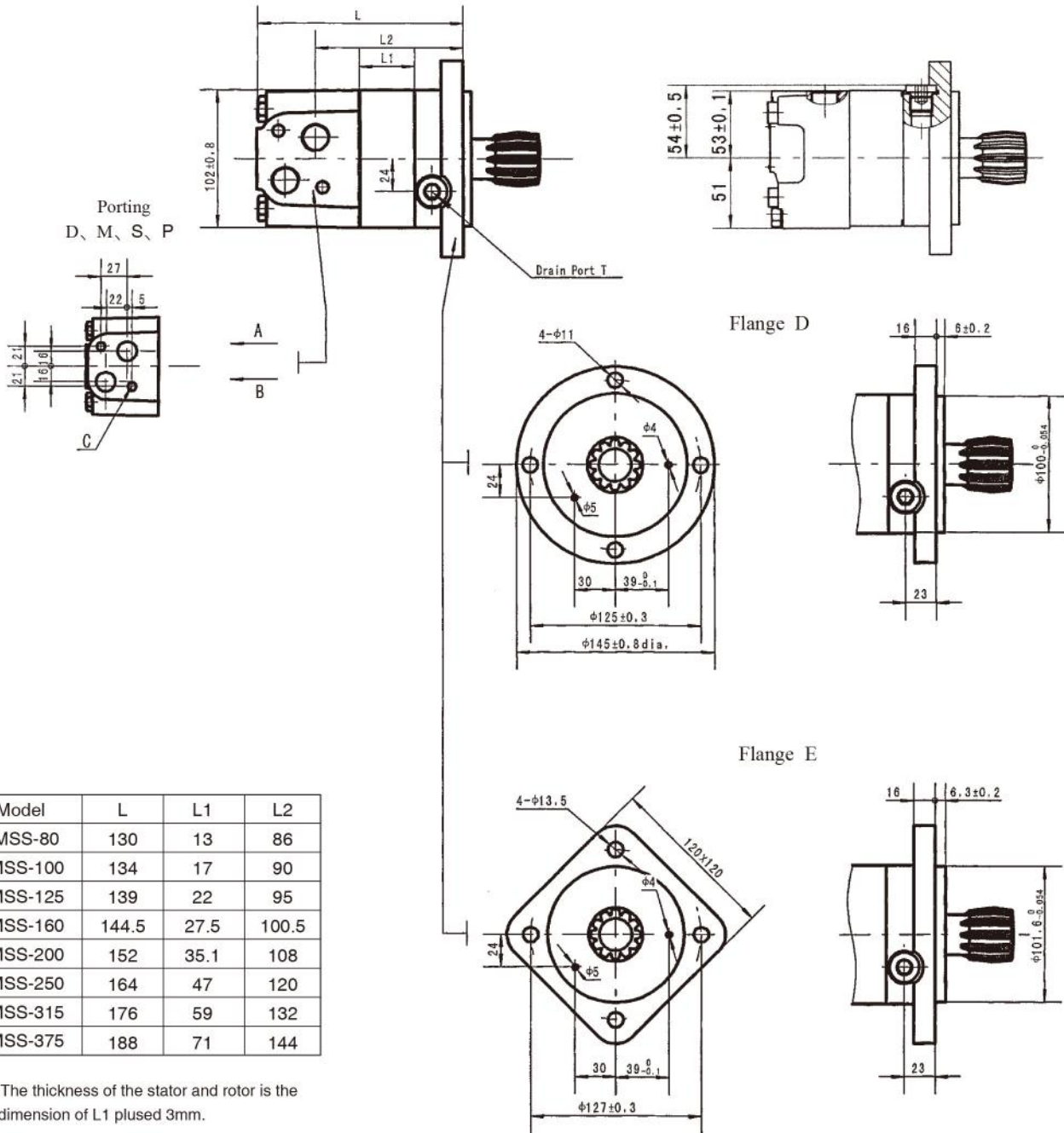
Model	L	L1	L2
BMSE-80	167	13	121.7
BMSE-100	171	17	125.7
BMSE-125	176	22	130.7
BMSE-160	181.5	27.5	136.2
BMSE-200	189	35.1	143.7
BMSE-250	201	47	155.7
BMSE-315	213	59	167.7
BMSE-375	225	71	179.7

Model	L	L1	L2
BMSE-80-WE	139	13	93.5
BMSE-100-WE	143	17	97.5
BMSE-125-WE	148	22	102.5
BMSE-160-WE	153.5	27.5	108
BMSE-200-WE	161	35.1	115.5
BMSE-250-WE	173	47	127.5
BMSE-315-WE	185	59	139.5
BMSE-375-WE	197	71	151.5

Note:1) If the porting G, M2, S2 is used, the dimensions of L2 should plus 1.5mm.
2) The thickness of the stator and rotor is the dimension of L1 plused 3mm.

Mounting	Code	MU	MM
	P(A,B)		ø12.7、ø15.8
T		7/16-20UNF(12)	G1/4 (12)
C		3 x 3/8-16UNC	3 x M10

BMSS 安装连接尺寸
BMSS DIMENSIONS AND MOUNTING DATA

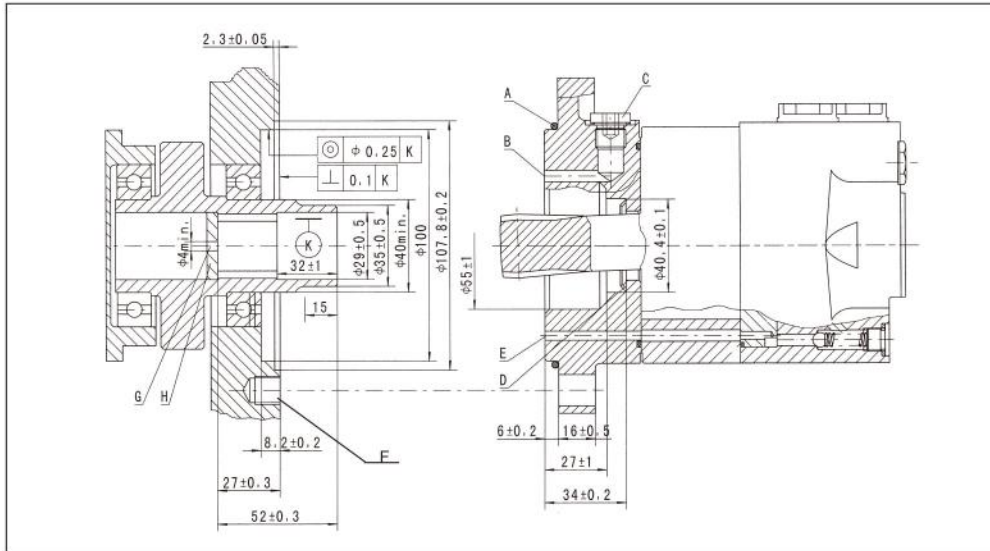


Model	L	L1	L2
BMSS-80	130	13	86
BMSS-100	134	17	90
BMSS-125	139	22	95
BMSS-160	144.5	27.5	100.5
BMSS-200	152	35.1	108
BMSS-250	164	47	120
BMSS-315	176	59	132
BMSS-375	188	71	144

Note: The thickness of the stator and rotor is the dimension of L1 plus 3mm.

Code Mounting	D (depth)	M (depth)	S (depth)	P (depth)
P(A,B)	G1/2 (18)	M22 x 1.5 (18)	7/8-14 O-ring (18)	1/2-14NPTF (15)
T	G1/4 (12)	M14 x 1.5 (12)	7/16-20UNF(12)	7/16-20UNF(12)
C	2-M10 (13)	2-M10 (13)	2-3/8-16UNC (13)	2-3/8-16UNC (13)

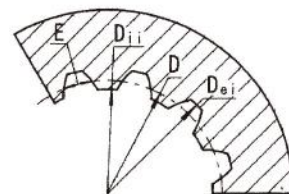
BMSS 安装连接尺寸
BMSS DIMENSIONS AND MOUNTING DATA



- A: O-ring:100x3
- B: External drain channel
- C: Drain connection G 1/4;12 mm deep
- D: Conical seal ring
- E: Internal drain channel
- F: M10;min. 15mm deep
- G: Oil circulation hole
- H: Hardened stop plate

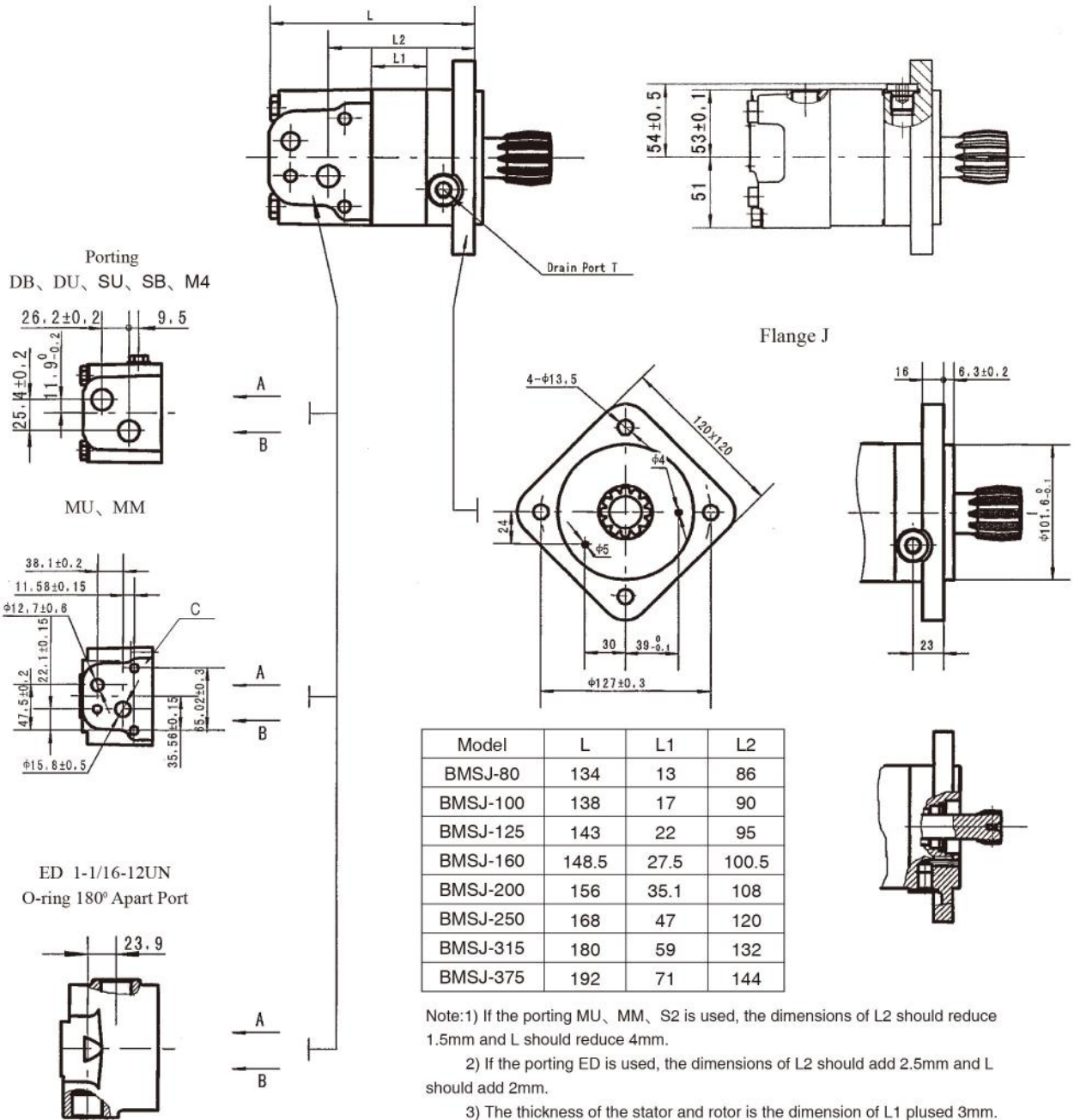
用户内花键孔参数表
INTERNAL SPLINE DATA FOR THE ATTACHED COMPONENT

Fillet Root Side Fit		mm
Number of Teeth	Z	12
Diametral Pitch	DP	12/24
Pressure Angle	α_D	30°
Pitch Dia.	D	φ25.4
Major Dia.	D_{ei}	φ28 ⁰ _{-0.1}
Minor Dia.	D_{fi}	φ23 ^{+0.033} ₀
Space Width [Circular]	E	4.308±0.02



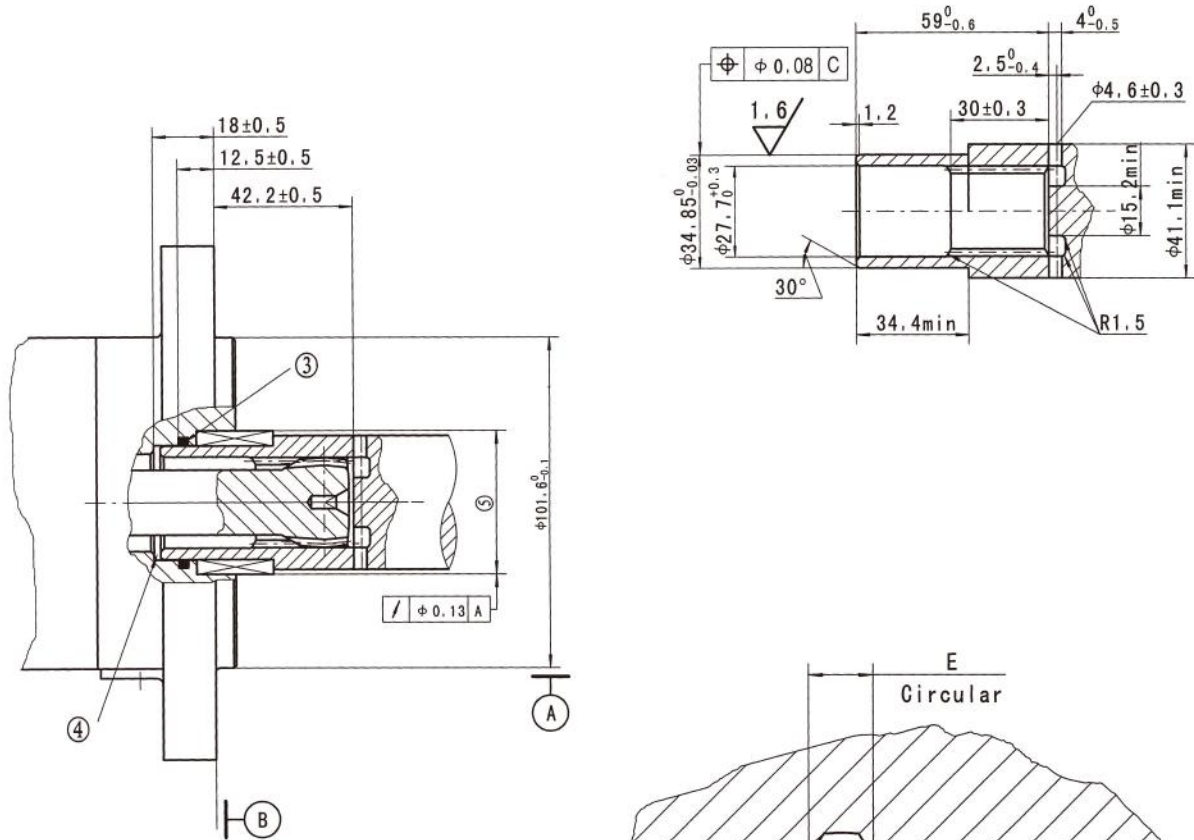
Hardening Specification: HRC 62±2
Effective case depth 0.7±0.2

BMSJ 安装链接尺寸
BMSJ DIMENSIONS AND MOUNTING DATA



Code Mounting	DB (depth)	DU (depth)	SU (depth)	SB (1depth)	M4 (depth)	MU	MM	ED (depth)
P(A,B)	G1/2 (18)	G1/2 (18)	7/8-14 O-ring (18)	7/8-14 O-ring (18)	M22 x 1.5 (18)	φ12.7、φ15.8	φ12.7、φ15.8	1-1/16-12UN (18)
T	G1/4 (12)	7/16-20UNF(12)	7/16-20UNF(12)	G1/4 (12)	M14 x 1.5 (12)	7/16-20UNF(12)	G1/4 (12)	7/16-20UNF(12)
C			--			3 x 3/8-16UNC	3 x M10	--

BMSJ 安装连接尺寸
BMSJ DIMENSIONS AND MOUNTING DATA



用户内花键孔参数表
INTERNAL SPLINE DATA FOR THE ATTACHED COMPONENT

Fillet Root Side Fit		mm
Number of Teeth	Z	12
Diametral Pitch	DP	12/24
Pressure Angle	α_D	30°
Pitch Dia.	D	φ25.4
Major Dia.	D_{ei}	φ27.6 ^{+0.14} ₀
Minor Dia.	D_f	φ23.1 ^{+0.12} ₀
Space Width [Circular]	E	4.282±0.036
Dimension between two pins(φ3.38)	M_e	19.02-19.19

① Internal spline in mating part to be per data. Specification material to be ASTM A304, 8620H. Vacuum degassed alloy steel carburize to a hardness of 58-62HRC with case depth (to 50HRC) of 0.75-1 [.030-.040] (dimensions apply after heat treat).

② Mating part to have critical dimensions as shown, Oil holes must be provided and open for proper oil circulation.

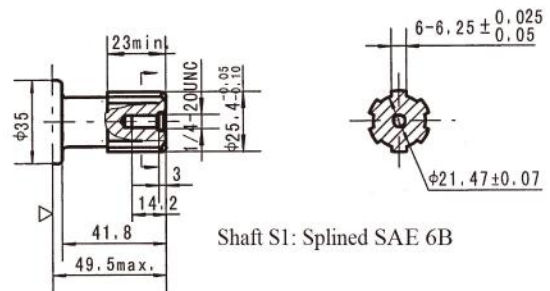
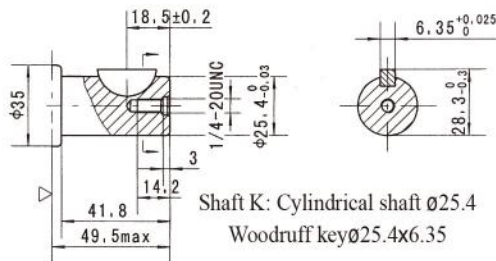
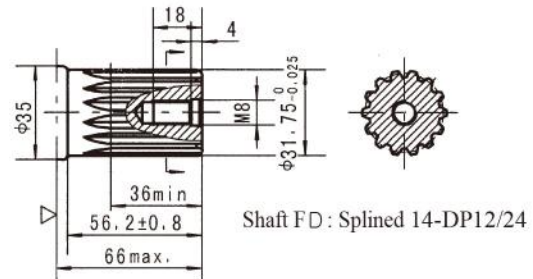
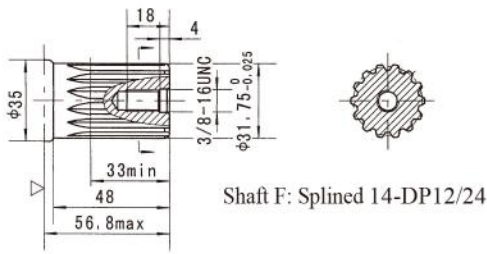
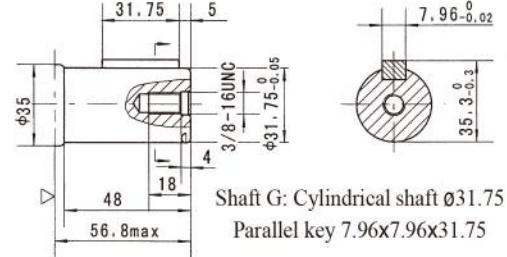
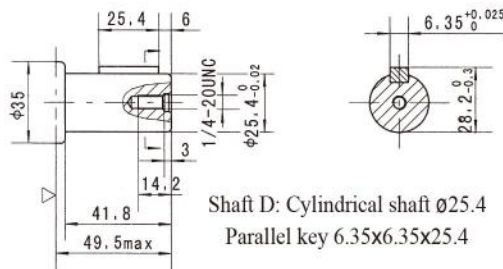
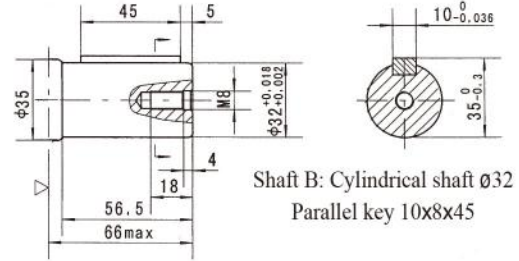
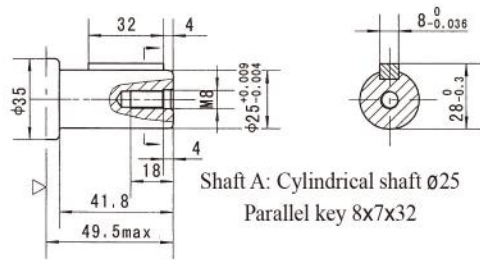
③ Some means of maintaining clearance between shaft and mounting flange must be provided.

④ Seal to be furnished with motor for proper oil circulation thru splines.

⑤ Counterbore designed to adapt to a standard sleeve bearing 35.010-35.040 [1.3784-1.3795] ID by 44.040-44.070 [1.7339-1.7350] O.D.(Oilite Bronze Sleeve Bearing AAM3544-22).

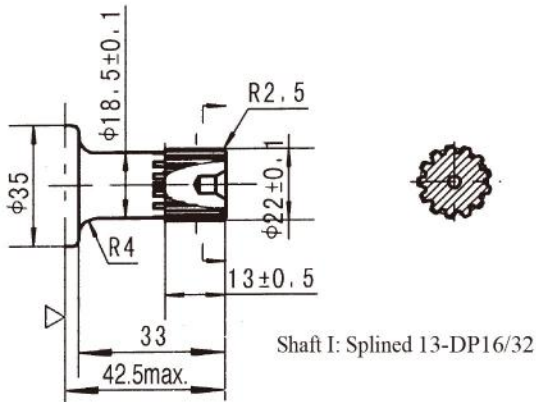
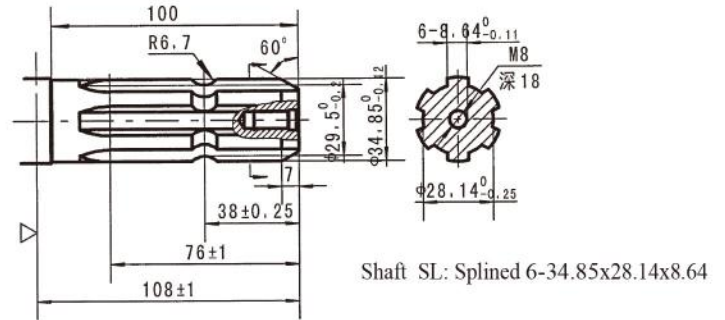
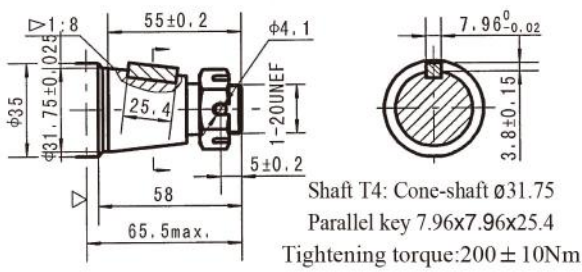
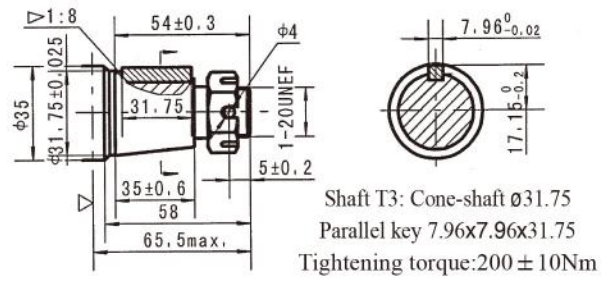
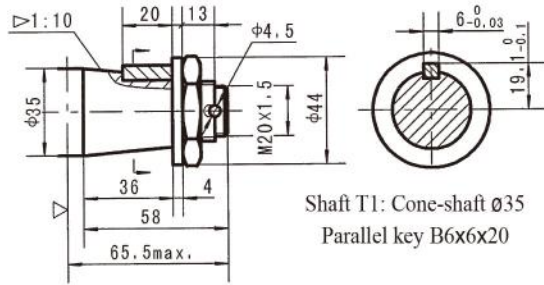
C This surface to be diameter of output shaft.

BMS(E) 轴伸连接尺寸
SHAFT EXTENSIONS FOR BMS(E) MOTORS



▷ Motor Mounting Surface(Dimension corresponding mounting E2, by analogy with others)

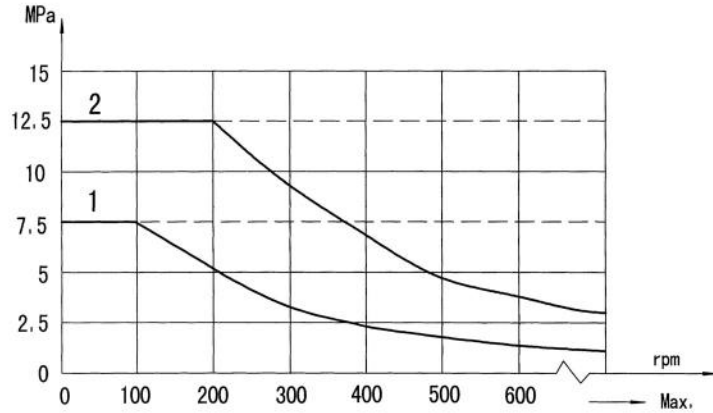
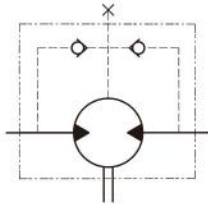
BMS(E) 轴伸连接尺寸
SHAFT EXTENSIONS FOR BMS(E) MOTORS



- ▷ Motor Mounting Surface(Dimension corresponding mounting E2, by analogy with others)
Note:Mounting SP is the same with shaft modle T1、D、B、F and G.

BMS(E) Series Hydraulic Motor

输出轴密封圈允许承受的压力
Permissible shaft seal pressure

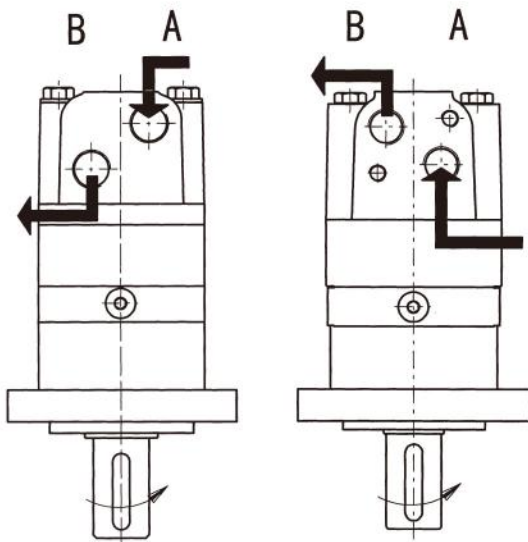


Note: 1. Chart for standard shaft seal;
2. Chart for high pressure shaft seal.

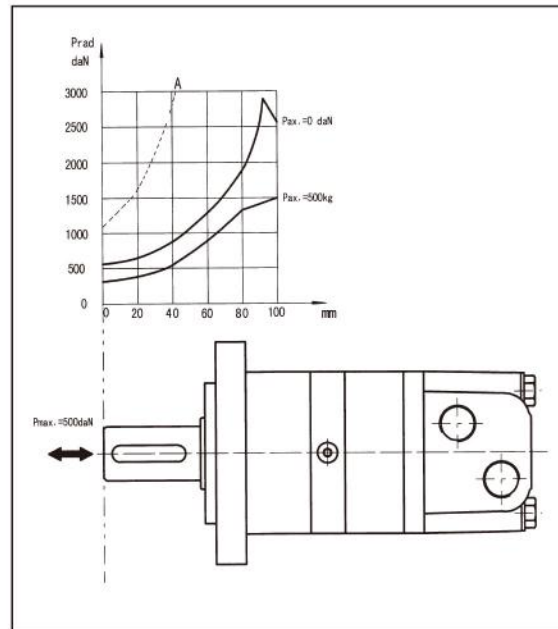
In applications without drain line, output shaft seal exceeds a bit of the pressure in the return line. When applications use the drain line, the pressure of output shaft seal equals the pressure in drain line.

输出轴的旋转方向：标准
Standard 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.



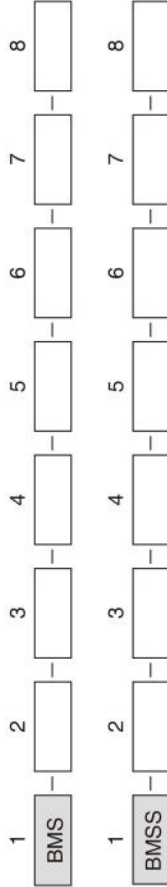
Axial and Radial forces



The output shaft runs in tapered bearings that permit high axial and radial forces, Curve "A" shows max radial shaft load, Any shaft loads exceeding the values quoted in the curve will involve a risk of breakage, The two other curves apply to a B10 bearing life of 3000 hours at 200 RPM.



订货信息
Order Information

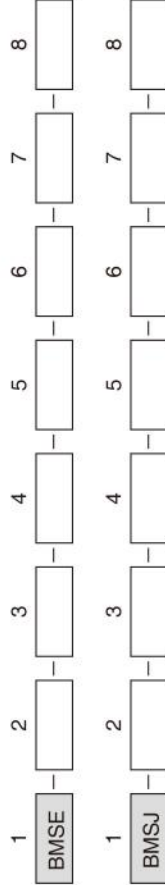


Pos.1	2	3	4	5	6	7	8	
Code	排量 Disp.	法兰 Flange	轴键 Output Shaft	油口 Port and Drain Port	Rotation Direction	Paint	Unusually Function	
BMS	80	E2 2-Ø13.5 Rhomb-flange Ø106.4, pilot Ø82.5×6.3	A Shaft Ø25 , parallel key 8×7×32 B Shaft Ø32 , parallel key 10×8×45 D Shaft Ø25.4, parallel key 6.35×6.35×25.4 G Shaft Ø31.75 , parallel key 7.96×7.96×31.75 F Shaft Ø31.75 , splined tooth 14-DP12/24 FD Long Shaft Ø31.75 , splined tooth 14-DP12/24	D G1/2 Manifold Mount 2-M10 , G1/4 M M22×1.5 Manifold Mount 2-M10 , M14×1.5 S 7/8-14UNF O-ring manifold 2-3/8-16 , 7/16-20UNF P 1/2-14NPTF manifold 2-3/8-16UNC , 7/16-20UNF	Omit	00 Omit	Standard Low Leakage	
	100	E4 4-Ø13.5 Rhomb-flange Ø106.4, pilot Ø82.5×6.3	SL shaft Ø34.85,Splined key 6-34.85×28.14×8.64	R	Blue	LL		
	125	F6 6-Ø13.5 Rhomb-flange Ø106.4, pilot Ø82.5×2.6	T1 Cone-shaft Ø35 , parallel key B6×6×20 T3 Cone-shaft Ø31.75 , parallel key 7.96×7.96×31.75	Opposite	Black	F		
	160	W 4-Ø13.5 Wheel-flange Ø160 , pilot Ø125×8	S1 parallel key 7.96×7.96×31.75 I Sub-shaft Ø22, splined tooth 13-DP16/32	R	Silver grey	LS		
	200	E2B 2-Ø14.3 Rhomb-flange Ø146.05, pilot Ø101.6×9.4	Omit					
	250	SP 4-Ø11.5 Square-flange Ø106.4, pilot Ø82.5×6.3						
	315							
	BMSS	375	D 4-Ø11 Circle-flange Ø125 , pilot Ø100×6 E 4-Ø13.5 Square-flange Ø127 , pilot Ø101.6×6.3	Short shaft 12-DP12/24				

Note:When the table is used, please fill the code of left rows in the table 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 . SP for T1, D, B, F, G .



订货信息
Order Information



Pos.1	2	3	4	5	6	7	8	
Code	排量 Disp.	法兰 Flange	轴键 Output Shaft	油口 Port and Drain Port	Rotation Direction	Paint	Unusually Function	
BMSE	80	E2 2-Ø13.5 Rhomb-flange Ø106.4, pilot Ø82.5 × 6.3	A Shaft Ø25 , parallel key 8 × 7 × 32 B Shaft Ø32 , parallel key 10 × 8 × 45 K Shaft Ø25.4 , Woodruff key Ø25.4 × 6.35	MU 1/2" , 5/8" Crosshole Manifold 3 × 3/8- 16UNC,7/16-20UNF	Standard	00	Standard	
	100	E4 4-Ø13.5 Rhomb-flange Ø106.4, pilot Ø82.5 × 6.3	G Shaft Ø31.75 , parallel key 7.96 × 7.96 × 31.75	MM 1/2" , 5/8" Crosshole Manifold 3 × M10,G1/4 EE-D G1/2,G1/4				Ommit
	125	E2B 2-Ø14.3 Rhomb-flange Ø146.05, pilot Ø101.6 × 9.4	F Shaft Ø31.75 , splined tooth 14-DP12/24	EE-M2 M22 × 1.5,M14 × 1.5	R	F	Free Running	
	160	E6 4-Ø13.5 Rhomb-flange Ø106.4, pilot Ø82.5 × 6.3	T4 Cone-shaftØ31.75 , parallel key 7.96 × 7.96 × 25.4	EE-S2 7/8-14UNF O-ring,7/16-20 UNF ED 1-1/16-12UN O-ring,7/16-20 UNF	Opposite	B	Low Speed	
	200	WE 4-Ø13.6 Wheel-flangeØ147.6, pilot Ø107.95*6.4	S1 parallel key 7.96 × 7.96 × 25.4 I Sub-shaft Ø22 , splined tooth 13-DP16/32	G1/2,G1/4				S
	250							
	315							
	375							
	BMSJ		J 4-Ø13.5 Square-flange Ø127 , pilot Ø101.6 × 6.3	Ommit Short shaft12- DP12/24	M4 7/8-14UNF O-ring,7/16-20 UNF M22 × 1.5,M14 × 1.5			



BMT 系列液压摆线马达 BMT SERIES HYDRAULIC MOTOR

BMT series motor adapt the advanced Geroler gear set design with disc distribution flow and high pressure. The unit can be supplied the individual variant in operating multifunction in accordance with requirement of applications.

Characteristic features:

- * Advanced manufacturing devices for the Geroler gear set, which use low pressure of start-up, provide smooth and reliable operation and high efficiency.
- * The output shaft adapts in tapered roller bearings that permit high axial and radial forces. Can offer capacities of high pressure and high torque in the wide of applications.
- * Advanced design in disc distribution flow, which can automatically compensate in operating with high volume efficiency and long life, provide smooth and reliable operation.

主要技术参数 Main Specifaion

类型 Type		BMT 160	BMT 200	BMT 230	BMT 250	BMT 315	BMT 400	BMT 500	BMT 630	BMT 800
排量 Geometric displacement (cm ³ /rev.)		161.1	201.4	232.5	251.8	326.3	410.9	523.6	629.1	801.8
最大转速 Max. speed (rpm)	cont.	625	625	536	500	380	305	240	196	154
	int.	780	750	643	600	460	365	285	233	185
最大扭矩 Max. torque (N•m)	cont.	470	590	670	730	950	1080	1220	1318	1464
	int.	560	710	821	880	1140	1260	1370	1498	1520
	peak	669	838	958	1036	1346.3	1450.3	1643.8	1618.8	1665
最大功率 Max. output (kW)	cont.	27.7	34.9	34.7	34.5	34.9	31.2	28.8	25.3	22.2
	int.	32	40	40	40	40	35	35	27.5	26.8
工作压力差 Max. pressure drop (MPa)	cont.	20	20	20	20	20	18	16	14	12.5
	int.	24	24	24	24	24	21	18	16	13
	peak	28	28	28	28	28	24	21	19	16
最大流量 Max. flow (L/min)	cont.	100	125	125	125	125	125	125	125	125
	int.	125	150	150	150	150	150	150	150	150
最大进油口压力 Max. inlet pressure (MPa)	cont.	21	21	21	21	21	21	21	21	21
	int.	25	25	25	25	25	25	25	25	25
	peak	30	30	30	30	30	30	30	30	30
重量 Weight (kg)		19.5	20	20.4	20.5	21	22	23	24	25

- * 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.



性能参数 Performance Data

BMT 160 [161.1cm³/rev.]

Pressure (MPa)

		Max.cont.				Max.int.		
		4	8	10	12	16	20	24
Flow (L/min)	10	88	176	228	275	361	447	535
		60	59	58	56	54	50	44
	20	89	181	234	277	372	459	557
		121	120	117	114	109	103	95
	40	91	180	235	277	381	471	573
	249	246	243	236	230	223	212	
	60	82	178	235	277	381	470	572
		371	367	362	356	349	340	330
	80	78	173	229	276	379	466	567
		492	489	485	478	470	462	447
Max.cont.	100	70	160	218	269	370	455	558
		614	611	606	598	590	582	570
Max.int.	125	58	148	211	261	359	448	552
		770	764	758	750	741	731	715

BMT 200 [201.4cm³/rev.]

Pressure (MPa)

		Max.cont.				Max.int.		
		4	8	10	12	16	20	24
Flow (L/min)	10	124	233	289	340	454	560	669
		47	46	45	42	39	37	33
	20	125	239	298	347	468	576	696
		95	94	92	90	87	84	75
	40	120	241	296	352	475	589	716
	195	193	191	187	183	178	167	
	60	116	237	295	352	478	589	718
		297	295	292	287	282	276	263
	80	108	231	289	350	474	586	716
		395	393	389	384	377	370	359
Max.cont.	100	99	227	286	344	471	580	712
		493	490	486	482	475	467	460
Max.int.	125	84	208	276	333	459	566	697
		615	611	607	602	595	588	572
Max.int.	150	70	194	260	324	447	554	682
		743	740	735	727	717	706	682

BMT 250 [251.8cm³/rev.]

Pressure (MPa)

		Max.cont.				Max.int.		
		4	8	10	12	16	20	24
Flow (L/min)	10	138	286	355	419	559	689	824
		38	38	37	36	34	32	31
	20	143	296	364	432	580	708	853
		76	75	74	72	70	67	62
	40	139	301	372	440	593	723	884
	156	154	152	149	146	142	134	
	60	132	294	372	441	592	727	888
		237	236	233	229	224	219	207
	80	128	283	364	433	587	721	887
		317	316	314	308	303	299	284
	100	126	282	355	427	582	716	879
		396	394	391	387	381	373	359
Max.cont.	125	116	260	340	414	568	703	864
		495	492	488	483	476	469	454
Max.int.	150	88	242	320	397	552	686	847
		592	589	585	580	572	565	545

BMT 315 [326.3cm³/rev.]

Pressure (MPa)

		Max.cont.				Max.int.		
		4	8	10	12	16	20	24
Flow (L/min)	10	184	363	453	545	734	891	1062
		30	29	28	27	26	25	23
	20	189	380	472	562	757	917	1109
		60	59	58	56	54	52	50
	40	191	381	484	570	774	954	1149
	121	120	118	115	112	109	104	
	60	189	376	493	573	772	962	1154
		183	181	179	175	172	168	158
	80	179	369	479	565	768	954	1153
		244	242	239	236	231	227	217
	100	169	357	467	562	758	942	1143
		305	304	301	298	294	289	276
Max.cont.	125	147	336	447	544	745	920	1127
		380	378	375	371	367	362	349
Max.int.	150	119	318	432	526	713	894	1097
		458	456	453	449	444	431	425

Torque (N•m) 552
Speed (rpm) 572



性能参数 Performance Data

BMT 400 [410.9cm³/rev.]

Pressure (MPa)

		Max.cont.				Max.int.		
		3	6	9	12	15	18	21
Flow (L/min)	10	176	367	560	715	885	1050	1209
		24	23	22	21	20	19	18
	20	179	370	565	726	899	1071	1236
		49	48	47	44	42	40	38
	40	176	370	567	733	919	1091	1263
		96	95	93	90	87	83	79
	60	174	361	563	729	920	1095	1269
	145	143	139	135	131	127	121	
80	166	353	553	719	912	1084	1263	
	193	191	188	184	180	176	170	
100	150	339	538	708	896	1067	1252	
	242	240	238	234	228	224	218	
Max.cont.	125	135	309	524	688	873	1045	1221
		302	300	298	294	289	285	278
Max.int.	150	126	292	508	666	852	1020	1197
		364	362	358	354	350	346	339

BMT 500 [523.6cm³/rev.]

Pressure (MPa)

		Max.cont.				Max.int.		
		3	6	9	12	14	16	18
Flow (L/min)	10	222	451	692	892	1050	1193	1340
		18	18	18	17	16	15	13
	20	231	464	714	918	1070	1220	1377
		37	36	35	34	33	32	30
	40	230	466	727	941	1094	1244	1422
		75	74	73	72	70	68	64
	60	225	457	714	941	1088	1245	1409
	113	112	111	109	107	105	101	
80	213	431	696	927	1076	1244	1401	
	151	150	149	147	145	143	138	
100	194	420	680	901	1063	1224	1383	
	189	188	187	185	183	181	177	
Max.cont.	125	182	398	641	877	1024	1199	1352
		237	236	235	233	231	229	225
Max.int.	150	147	369	618	853	1004	1167	1325
		284	283	282	280	278	276	272

BMT 630 [629.1cm³/rev.]

Pressure (MPa)

		Max.cont.				Max.int.		
		3	6	9	10.5	12	14	16
Flow (L/min)	10	233	520	795	902	1074	1194	1363
		14	14	13	13	13	11	11
	20	237	554	837	953	1117	1239	1407
		28	27	27	26	26	24	22
	40	239	553	860	987	1171	1308	1483
		62	62	61	60	59	56	54
	60	223	544	863	978	1172	1318	1498
	94	94	92	91	90	86	82	
80	220	537	854	965	1172	1314	1497	
	123	122	121	119	118	114	110	
100	208	522	832	945	1156	1303	1488	
	156	155	153	152	150	147	142	
Max.cont.	125	201	499	810	931	1137	1292	1472
		196	196	194	192	191	187	183
Max.int.	150	174	492	785	921	1121	1277	1454
		233	232	231	230	227	223	217

BMT 800 [801.8cm³/rev.]

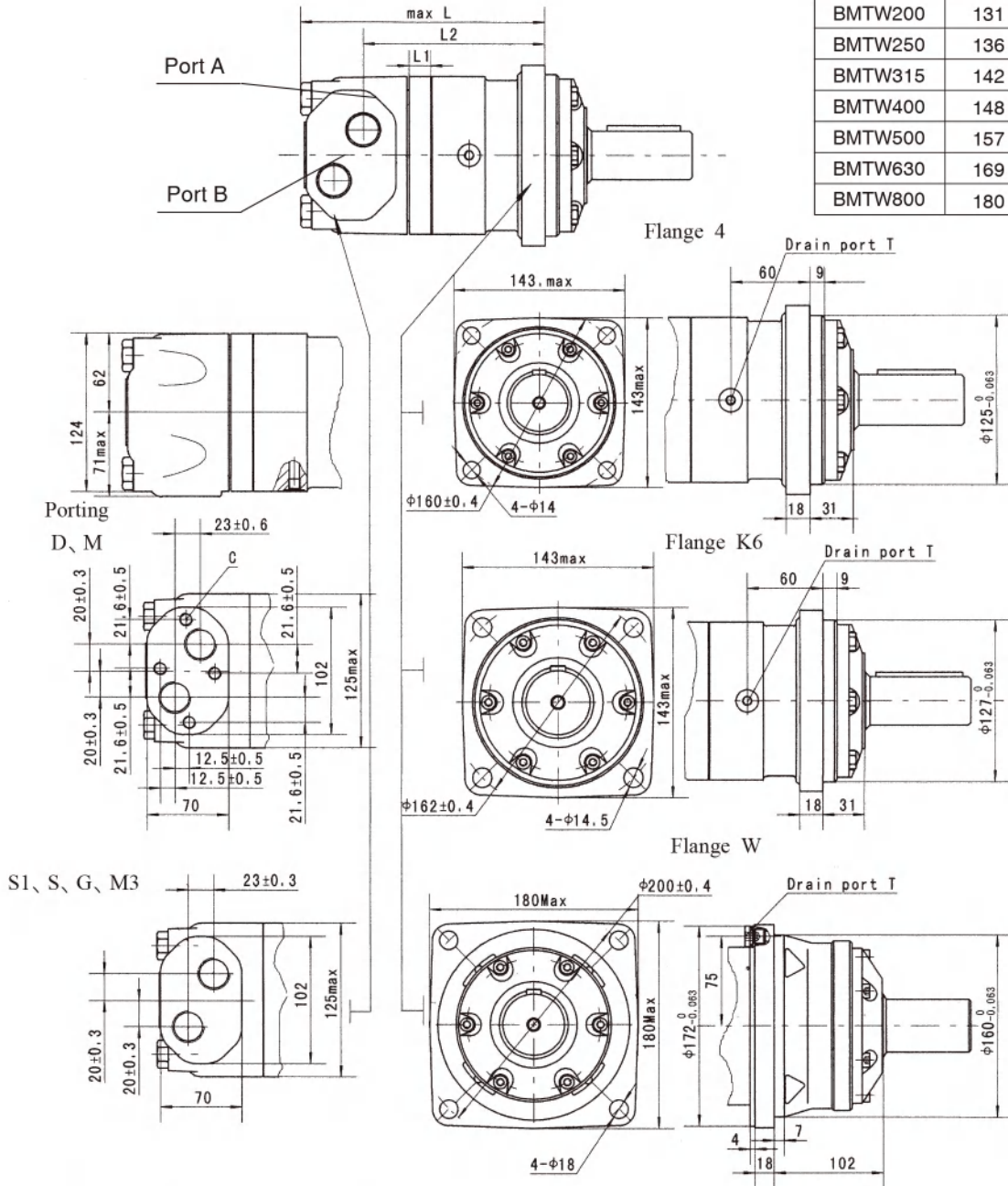
Pressure (MPa)

		Max.cont.				Max.int.	
		3	6	9	10.5	12.5	13
Flow (L/min)	10	346	677	1003	1159	1365	1390
		12	12	11	11	11	10
	20	356	692	1034	1183	1404	1458
		24	24	24	23	22	18
	40	365	703	1066	1236	1459	1516
		50	50	49	48	46	40
	60	354	703	1060	1237	1464	1520
	74	73	71	71	68	63	
80	332	686	1050	1226	1464	1514	
	99	98	98	96	93	86	
100	305	654	1025	1207	1445	1506	
	125	123	123	121	118	110	
Max.cont.	125	280	622	989	1181	1422	1487
		154	153	153	150	149	140
Max.int.	150	247	590	953	1156	1406	1476
		185	184	183	181	179	172

Torque (N•m) 1121
Speed (rpm) 227

BMT 安装连接尺寸
BMT DIMENSIONS AND MOUNTING DATA

Model	L	L1	L2
BMTW160	127	17	77
BMTW200	131	21	81
BMTW250	136	14	86
BMTW315	142	20	91
BMTW400	148	27	98
BMTW500	157	35	106
BMTW630	169	47	118
BMTW800	180	58	129

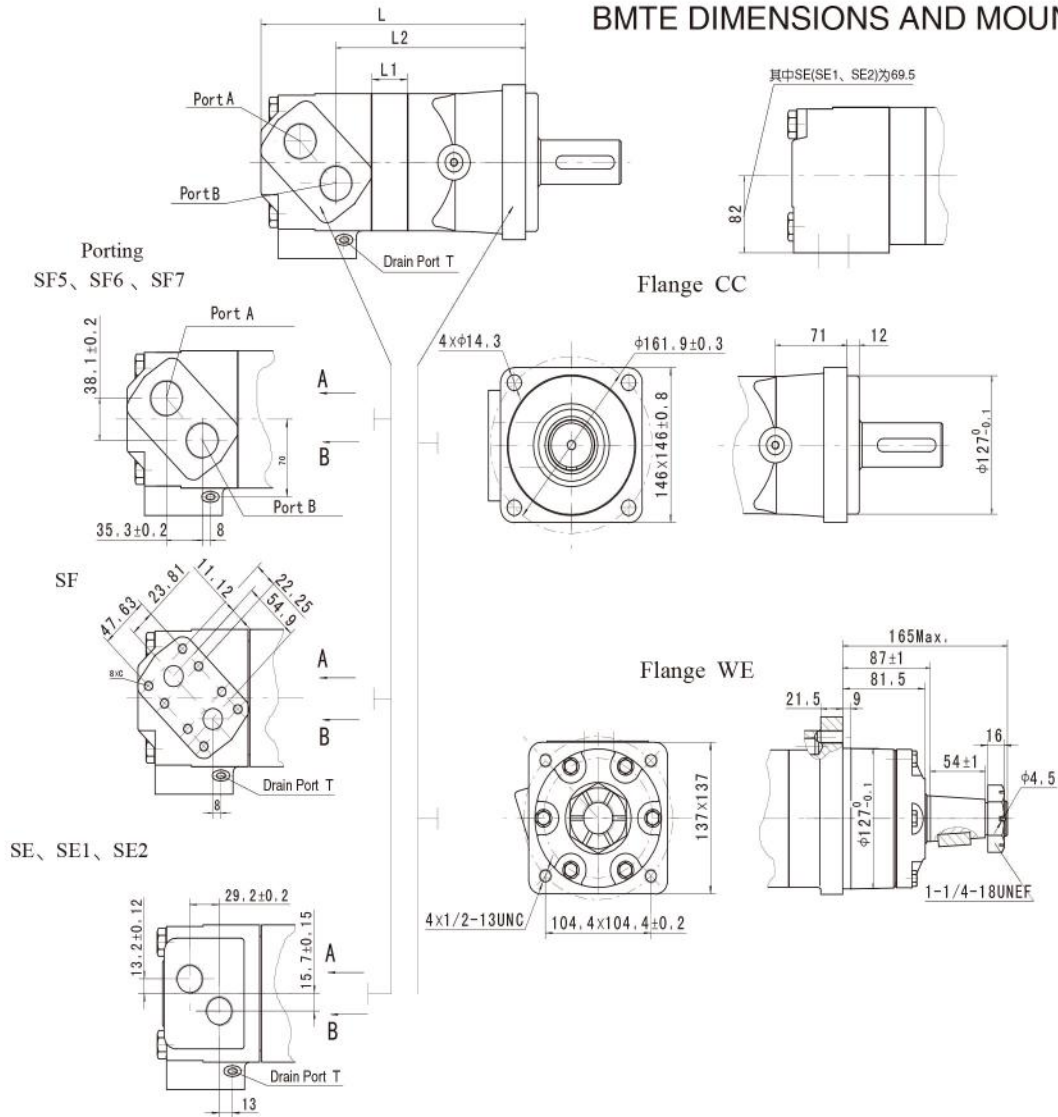


Model	L	L1	L2
BMT160	193	17	142.5
BMT200	197	21	146.5
BMT250	204	14	152.5
BMT315	210	20	158.5
BMT400	217	27	165.5
BMT500	225	35	173.5
BMT630	237	47	185.5
BMT800	248	58	196.5

Content	Code					
	D (depth)	M (depth)	S (depth)	G (depth)	M3 (depth)	S1 (depth)
P(A,B)	G3/4 (18)	M27 x 2 (18)	1-1/16-12UN (18)	G3/4 (18)	M27 x 2 (18)	1-1/16-12UN (18)
T	G1/4 (12)	M14 x 1.5 (12)	9/16-18UNF (12)	G1/4 (12)	M14 x 1.5 (12)	7/16-20UNF (12)
C	4-M10(10)	4-M10(10)	--	--	--	--

Note: 1) The thickness of the stator and rotor for disp. from 160 to 200 is the dimension of L1 adding on 3mm.
2) The thickness of the stator and rotor for disp. from 250 to 800 is the dimension of L1 adding on 7mm.

BMTE 安装连接尺寸
BMTE DIMENSIONS AND MOUNTING DATA

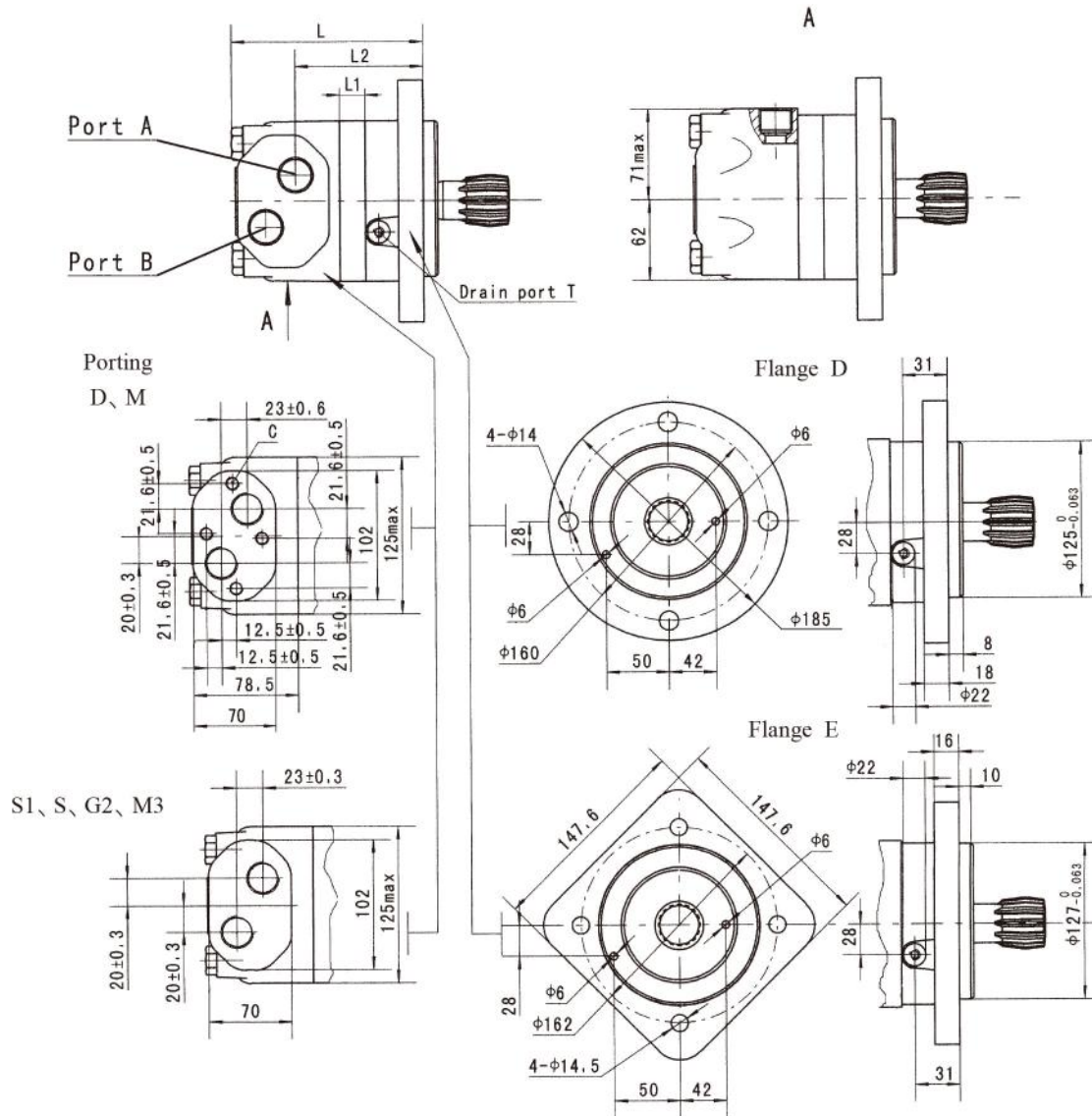


Model	L	L1	L2
BMTE230	238.5	12	164.5
BMTE250	240.5	14	166.5
BMTE315	246.5	20	172.5
BMTE400	253.5	27	179.5
BMTE500	261.5	35	187.5
BMTE630	273.5	47	199.5
BMTE800	284.5	58	210.5

Note:1)The data for the port of SF (SF5 and SF6and sf7)
2)The data for the port of SE (SE1 and SE2) and flange WE:L-70 and L2-59.
3)The thickness of the stator and rotor for disp,from 315 to 800 is the dimension of L1 adding on 7mm.

Content	Code						
	SF5(depth)	SF6 (depth)	SF7 (depth)	SF (depth)	SE (depth)	SE1 (depth)	SE2(depth)
P(A,B)	1-5/16-12UN (18)	M33 x 2 (18)	G1 (18)	3/4" (18)	1-1/16-12UN (18)	1-1/16-12UN (18)	G3/4 (18)
T	7/16-20UNF (12)	M14 x 1.5 (12)	G1/4 (12)	7/16-20UNF (12)	9/16-18UNF (12)	7/16-20UNF (12)	G1/4 (12)
C	--	--	--	8 x 3/8-16UNC	--	--	--

BMTS 安装连接尺寸
BMTS DIMENSIONS AND MOUNTING DATA

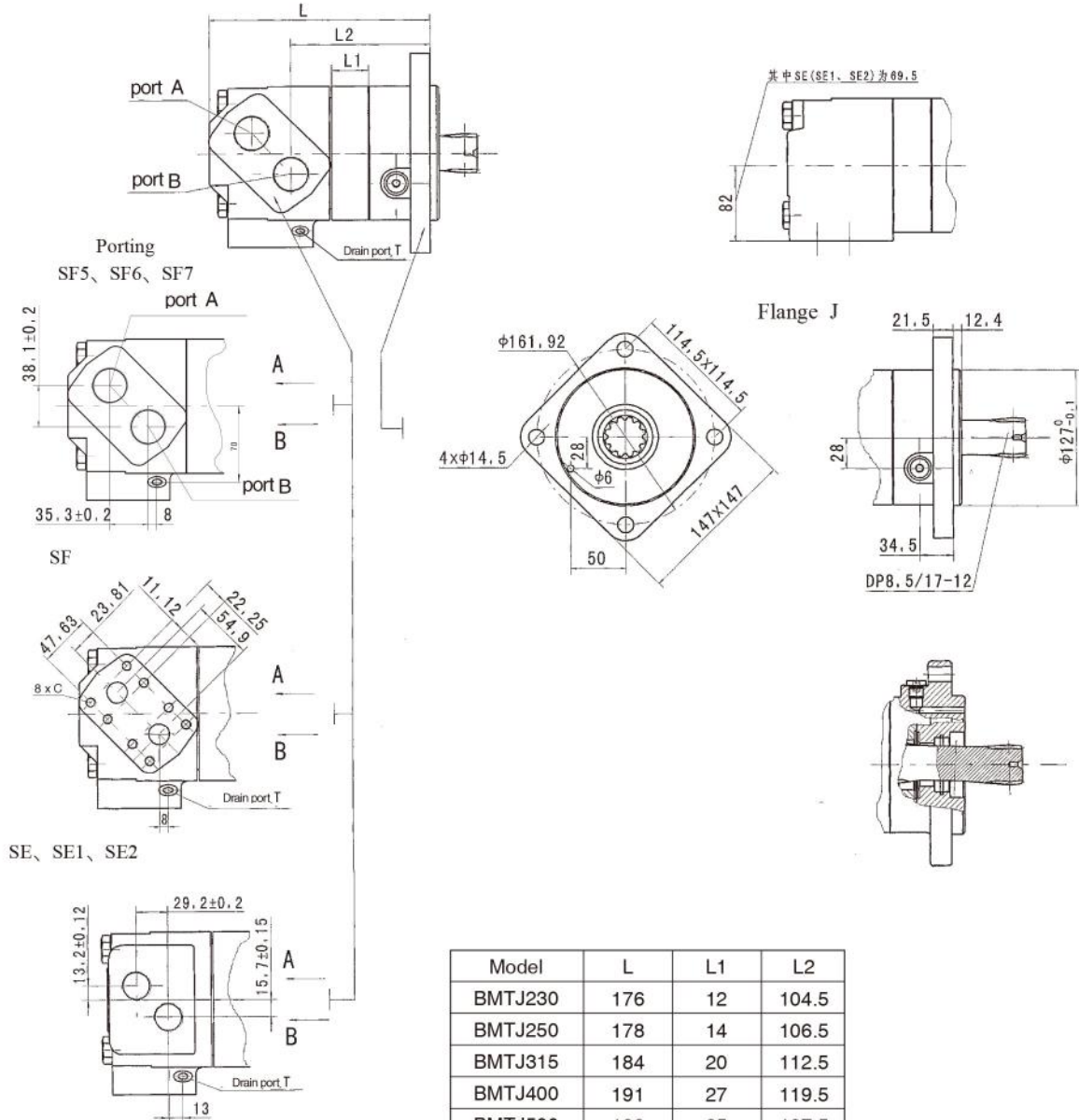


Model	L	L1	L2
BMT160	148	17	96.5
BMT200	152	21	100.5
BMT250	157	14	109
BMT315	163	20	115
BMT400	170	27	122
BMT500	178	35	130
BMT630	190	47	142
BMT800	201	58	153

Content	Code					
	D (depth)	M (depth)	S (depth)	G (depth)	M3 (depth)	S1 (depth)
P(A,B)	G3/4 (18)	M27 x 2 (18)	1-1/16-12UN (18)	G3/4 (18)	M27 x 2 (18)	1-1/16-12UN (18)
T	G1/4 (12)	M14 x 1.5 (12)	9/16-18UNF (12)	G1/4 (12)	M14 x 1.5 (12)	7/16-20UNF (12)
C	4-M10(10)	4-M10(10)	--	--	--	--

Note: 1) The thickness of the stator and rotor for disp. from 160 to 200 is the dimension of L1 adding on 3mm.
2) The thickness of the stator and rotor for disp. from 250 to 800 is the dimension of L1 adding on 7mm.

BMTJ 安装连接尺寸
BMTJ DIMENSIONS AND MOUNTING DATA

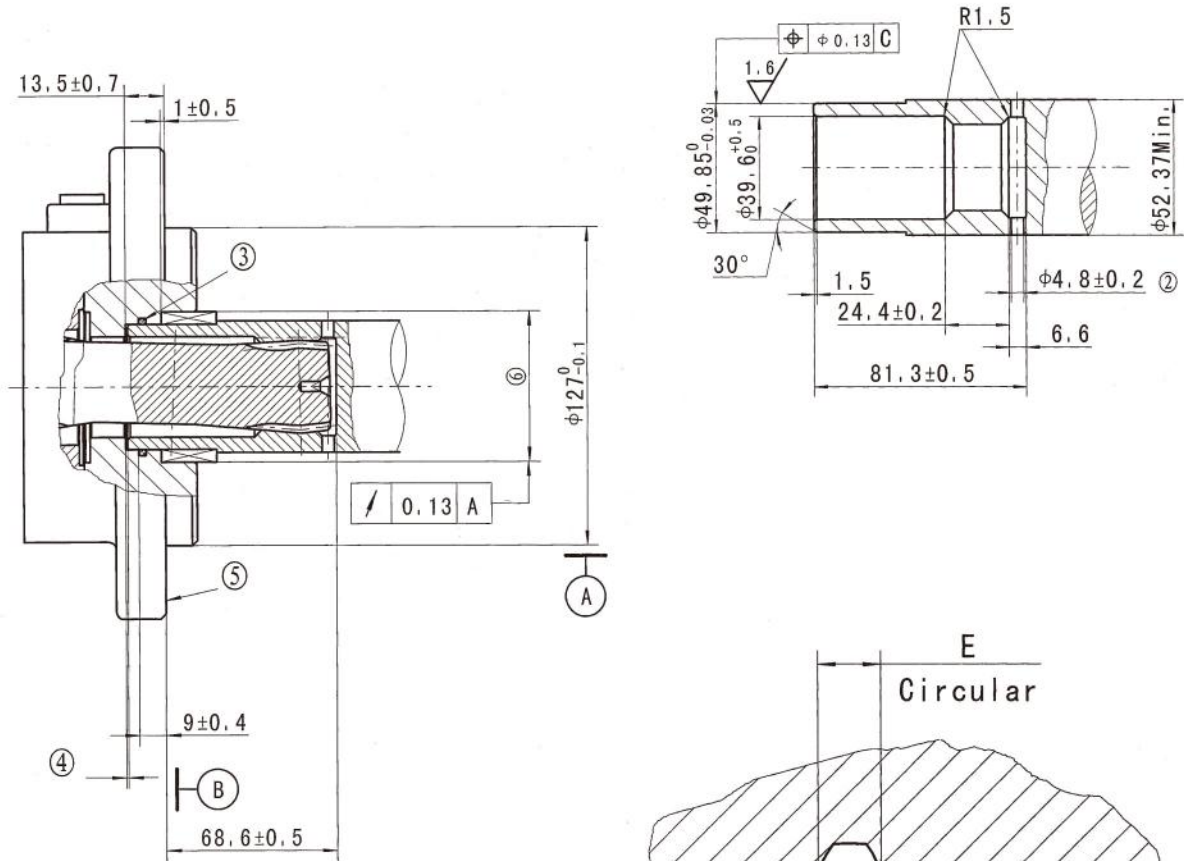


Model	L	L1	L2
BMTJ230	176	12	104.5
BMTJ250	178	14	106.5
BMTJ315	184	20	112.5
BMTJ400	191	27	119.5
BMTJ500	199	35	127.5
BMTJ630	211	47	139.5
BMTJ800	222	58	150.5

- Note:1)The data for the port of SF (SF5 and SF6 andSF7).
2)The data for the port of SE (SE1 and SE2) and flange WE:L-70 and L2-59.
3)The thickness of the stator and rotor is the dimension of L1 adding on 7mm.

Content	Code						
	SF5 (depth)	SF6 (depth)	SF7 (depth)	SF (depth)	SE (depth)	SE1 (depth)	SE2 (depth)
P(A,B)	1-5/16-12UN (18)	M33 x 2 (18)	G1 (18)	3/4" (18)	1-1/16-12UN (18)	1-1/16-12UN (18)	G3/4 (18)
T	7/16-20UNF (12)	M14 x 1.5 (12)	G1/4 (12)	7/16-20UNF (12)	9/16-18UNF (12)	7/16-20UNF (12)	G1/4 (12)
C	--	--	--	8 x 3/8-16UNC	--	--	--

BMTJ 安装链接尺寸
BMTJ DIMENSIONS AND MOUNTING DATA



用户内花键孔参数表
INTERNAL SPLINE DATA FOR THE ATTACHED COMPONENT

Fillet Root Side Fit		mm
Number of Teeth	Z	12
Diametral Pitch	DP	8.5/17
Pressure Angle	D	30°
Pitch Dia.	α_D	φ35.858823
Major Dia.	D_{ei}	φ38.97 ^{+0.20} ₀
Minor Dia.	D_{fi}	φ33.3 ^{+0.18} ₀
Space Width [Circular]	E	5.866 ± 0.032
Dimension between two pins(φ4)	M_e	26.929-27.084

① Internal spline in mating part to be as follows: Material to be ASTM A304, 8620H. Carborize to a hardness of 60-64HRC with case depth (to 50HRC) of 0.75-1 [.030-.040] (dimensions apply after heat treat).

② Mating part to have critical dimensions as shown, Oil holes must be provided and open for proper oil circulation.

③ Some means of maintaining clearance between shaft and mounting flange must be provided.

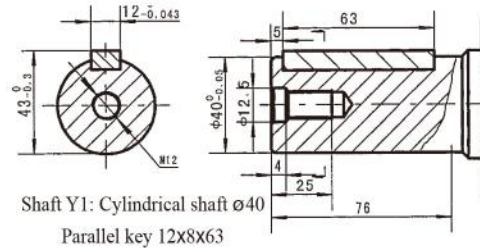
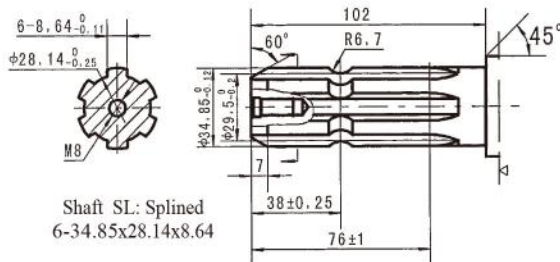
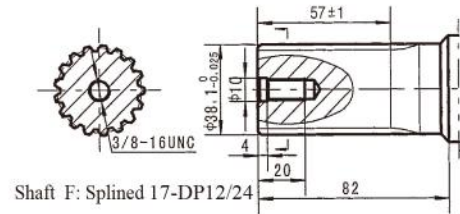
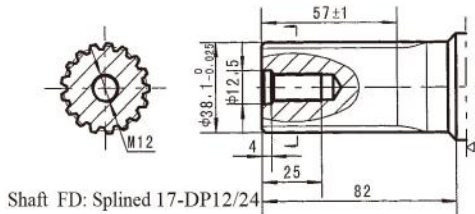
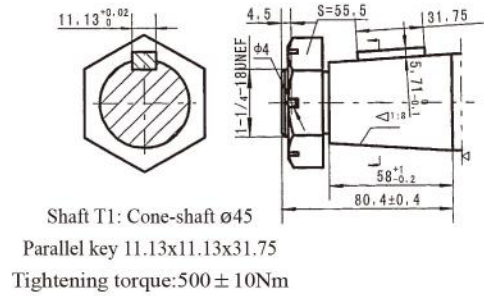
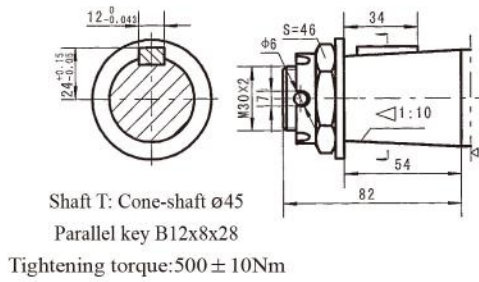
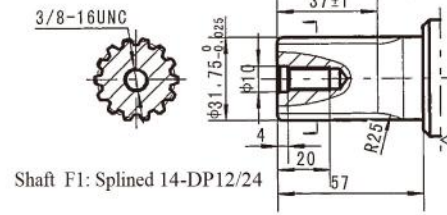
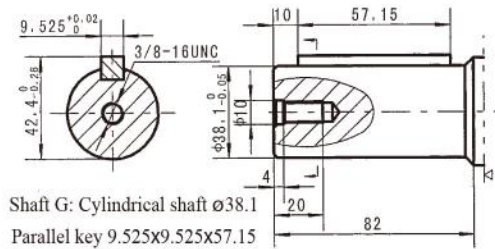
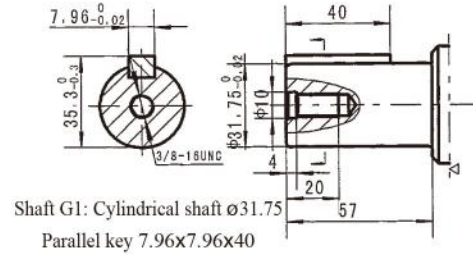
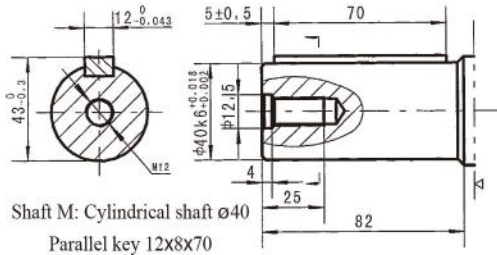
④ Seal to be furnished with motor for proper oil circulation thru splines.

⑤ Similar to SAE "C" Four Bolt Flange

⑥ Counterbore designed to adapt to a standard sleeve bearing 50.010-50.038 [1.9689-1.9700] ID by 60.51-60.079 [2.3642-2.3653] O.D. (Oilite bronze sleeve bearing).

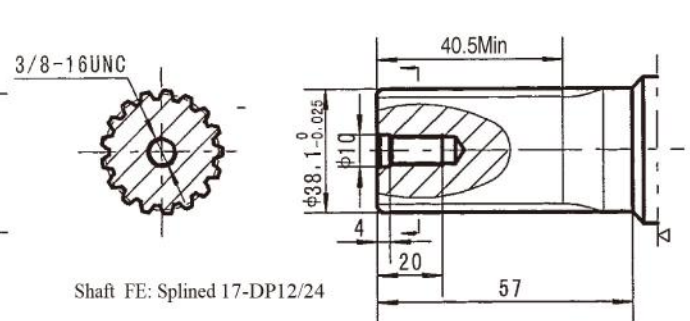
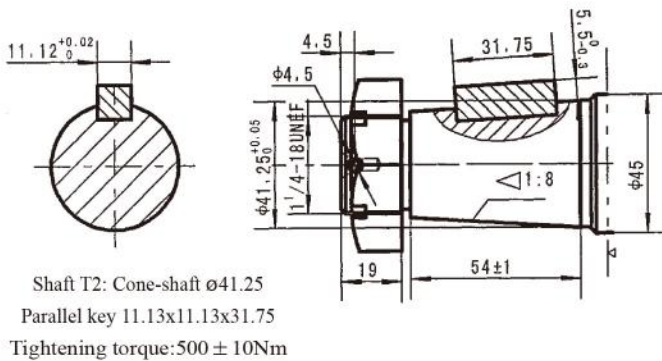
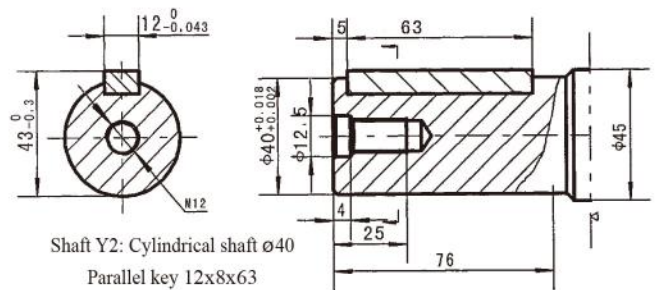
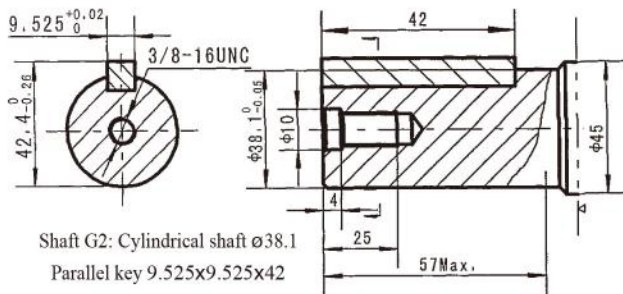
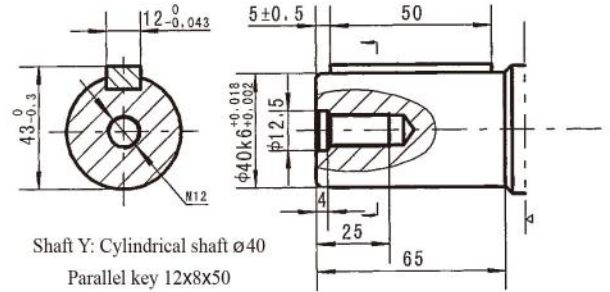
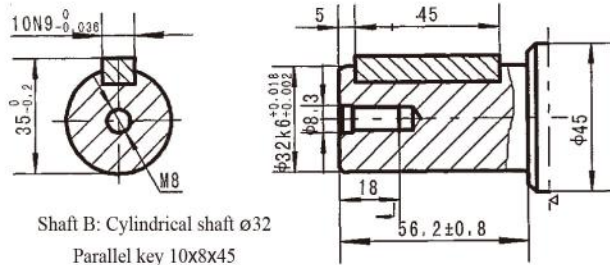
C This surface to be diameter of output shaft.

BMT(E) 轴伸连接尺寸
SHAFT EXTENSIONS FOR BMT(E) MOTORS



▷ Motor Mounting Surface

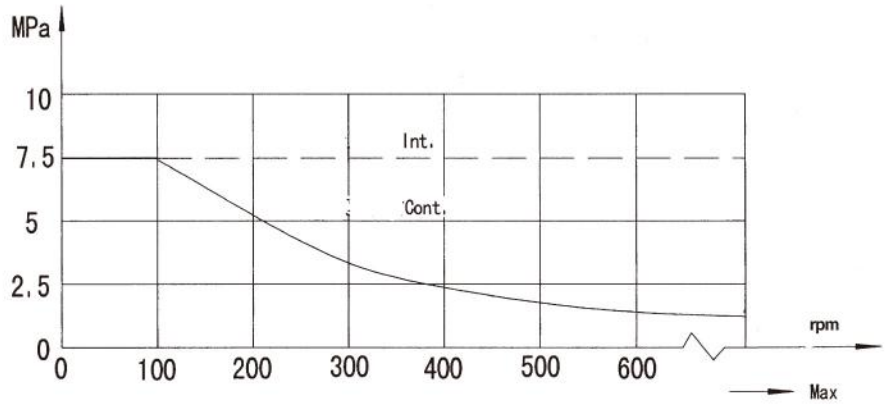
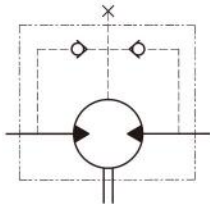
BMT(E) 轴伸连接尺寸
SHAFT EXTENSIONS FOR BMT(E) MOTORS



▷ Motor Mounting Surface

BMT Series Hydraulic Motor

输出轴密封圈允许承受的压力
Permissible shaft seal pressure

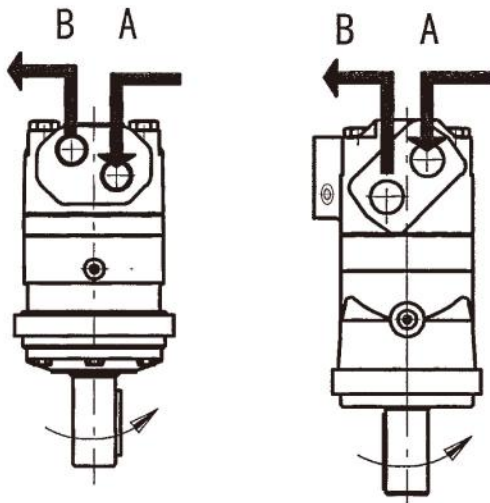


In applications without drain line, output shaft seal exceeds a bit of the pressure in the return line. When applications use the drain line, the pressure of output shaft seal equals the pressure in drain line.

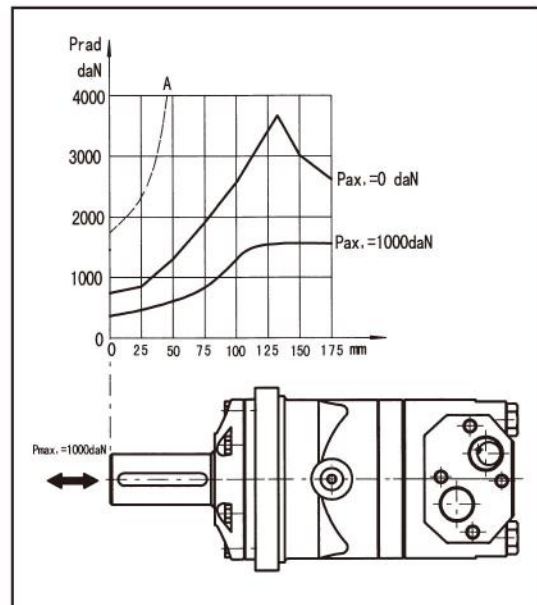
输出轴的标准旋转方向:

Standard 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.



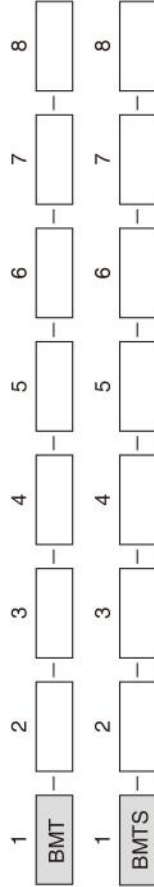
Axial and Radial forces



The output shaft runs in tapered bearings that permit high axial and radial forces, Curve "A" shows max radial shaft load, Any shaft loads exceeding the values quoted in the curve will involve a risk of breakage, The two other curves apply to a B10 bearing life of 3000 hours at 200 RPM.



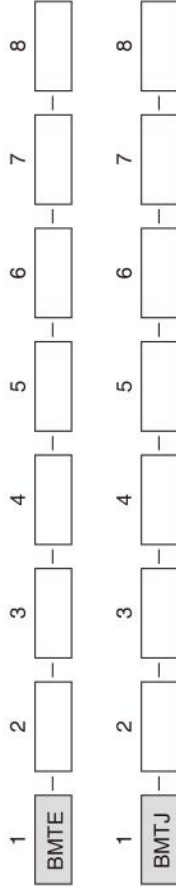
订货信息
Order Information



Pos.1	2	3	4	5	6	7	8
Code	排量 Disp.	法兰 Flange	轴键 Output Shaft	油口 Port and Drain Port	Rotation Direction	Paint	Unusually Function
BMT	160 200 250 315 400 500 630 800	4 4-Ø14 Square-flangeØ160, pilotØ125 × 9 K6 4-Ø14.5Square-flangeØ162, pilotØ127 × 9 W 4-Ø18 Wheel-flangeØ200, pilotØ160 × 7	M Shaft Ø40 , parallel key 12 × 8 × 70	G3/4 Manifold Mount,4-M10 , G1/4 M27 × 2 Manifold Mount,4-M10, M14 × 1.5 S 1-1/16-12UN O-ring, 9/16-18UNF S1 1-1/16-12UN O-ring, 7/16-20UNF G G3/4,G1/4 M3 M27 × 2,M14 × 1.5	Omit Standard R Opposite	No paint Blue Black Silver grey	Standard Low Leakage Free Running Low Speed
			G Shaft Ø88.1 ,parallel key 9.52 × 9.52 × 57.15				
			F Shaft Ø88.1 ,splined tooth 17-DP12/24				
			FD Shaft Ø88.1 ,splined tooth 17-DP12/24				
			T Cone-shaft 1:10 Ø45 ,parallel key B12 × 8 × 28				
			T1 Cone-shaft 1:8 Ø45 ,				
			SL parallel key 11.13 × 11.13 × 31.75				
			G1 Splined key 6-34.85 × 28.14 × 8.64				
			F1 parallel key 7.96 × 7.96 × 40				
			F1 Shaft Ø81.75 ,splined tooth 14-DP12/24				
BMTS		D 4-Ø14 Circle-flange Ø160, pilot Ø125 × 8 E 4-Ø14.5 Square-flange Ø162, pilot Ø127 × 10	Omit				
			Short shaft 16-DP12/24				



订货信息
Order Information



Pos.1	2	3	4	5	6	7	8
Code	排量 Disp.	法兰 Flange	轴键 Output Shaft	油口 Port and Drain Port	Rotation Direction	Paint	Unusually Function
BMTE	230	CC 4-Ø14.3 Square-flange Ø161.9, pilot Ø127 × 12	G2 Shaft Ø38.1 ,parallel key 9.52 × 9.52 × 42	SF 3/4" , Manifold Mount,8-3/8-16UNC, 7/16-20UNF SF5 1-5/16-12UN O-ring,7/16-20 UNF SF6 M83 × 2,M14 × 1.5 SF7 G1,G1/4 SE 1-1/16-12UN O-ring,9/16-18UNF SE1 1-1/16-12UN O-ring,7/16-20 UNF SE2 G3/4,G1/4	Omit Standard R Opposite	00 Omit B S	Omit LL F LS Standard Low Leakage Free Running Low Speed
	250		FE Shaft Ø38.1 ,splined tooth 17-DP12/24				
	315		Y1 ShaftØ40,parallel key 12 × 8 × 63				
	400		Y2 ShaftØ40,parallel key 12 × 8 × 63				
	500		T2 Cone-shaft 1:8 Ø41.25 , parallel key 11.13 × 11.13 × 31.75				
BMTJ	630	WE 4-1/2-13UNC Wheel- flangeØ147.6, pilotØ127 × 9	T3 Cone-shaft 1:8 Ø41.25 , parallel key 11.13 × 11.13 × 31.75				
	800						
			J 4-Ø14.5 Square-flange Ø161.9 pilot Ø127 × 12.4				
BMTJ			Omit Short shaft 12-DP8.5/17				

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



BMV 系列液压摆线马达 BMV SERIES HYDRAULIC MOTOR

BMV series motor adapt the advanced Geroler gear set designed with disc distribution flow and high pressure. The unit can be supplied the individual variant in operating multifunction in accordance with requirement of applications.

Characteristic features:

- * Advanced manufacturing devices for the Geroler gear set, which use low pressure of start-up, provide smooth and reliable operation and high efficiency.
- * The output shaft adapts in tapered roller bearings that permit high axial and radial forces. The case can offer capacities of high pressure and high torque in the wide of applications.
- * Advanced design in disc distribution flow, which can automatically compensate in operating with high volume efficiency and long life, provide smooth and reliable operation.

Main Specificaion

类型 Type		BMV 315	BMV 400	BMV 500	BMV 630	BMV 800	BMV 1000
排量 Geometric displacement (cm ³ /rev.)		333	419	518	666	801	990
最大转速 Max. speed (rpm)	cont.	510	500	400	320	250	200
	int.	630	600	480	380	300	240
最大扭矩 Max. torque (N•m)	cont.	920	1180	1460	1660	1880	2015
	int.	1110	1410	1760	1940	2110	2280
	peak	1290	1640	2050	2210	2470	2400
最大功率 Max. output (kW)	cont.	38.0	47.0	47.0	40.0	33.0	28.6
	int.	46.0	56.0	56.0	56.0	44.0	40.0
工作压力差 Max. pressure drop (MPa)	cont.	20	20	20	18	16	14
	int.	24	24	24	21	18	16
	peak	28	28	28	24	21	18
最大流量 Max. flow (L/min)	cont.	160	200	200	200	200	200
	int.	200	240	240	240	240	240
重量 Weight (kg)		31.8	32.6	33.5	34.9	36.5	38.6

- * 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.



性能参数 Performance Data

BMV 315 [333cm³/rev.]

Pressure (MPa)		Max.cont.		Max.int.		
3.5	7	10	14	18	20	24

Flow (L/min)	Pressure (MPa)						
	3.5	7	10	14	18	20	24
10	140	294	440	610	742	845	1000
	26	24	23	22	20	17	14
20	153	314	466	636	787	895	1070
	55	54	53	52	51	48	44
50	149	312	465	654	815	935	1112
	145	144	142	140	137	133	127
75	143	304	458	642	816	940	1119
	220	218	215	211	207	202	195
100	136	297	452	636	810	936	1108
	294	292	290	287	283	278	270
125	123	286	442	626	799	921	1093
	368	366	364	361	357	352	345
150	114	275	435	615	788	906	1078
	445	443	441	437	430	422	410
160	107	268	430	608	780	895	1070
	475	473	470	466	460	452	439
200	82	249	412	593	758	871	1047
	596	594	590	584	576	565	544

BMV 400 [419cm³/rev.]

Pressure (MPa)		Max.cont.		Max.int.		
3.5	7	10	14	18	20	24

Flow (L/min)	Pressure (MPa)						
	3.5	7	10	14	18	20	24
10	183	385	568	776	968	1101	1292
	20	20	19	18	17	16	14
20	196	398	590	815	1010	1152	1346
	44	44	43	42	40	39	37
50	200	402	603	842	1040	1186	1430
	114	113	113	112	110	108	103
75	195	394	596	838	1043	1188	1432
	175	173	170	166	163	1579	152
100	172	385	593	827	1036	1184	1425
	236	235	233	231	227	223	215
125	167	374	583	816	1021	1177	1413
	296	294	291	288	282	275	268
150	158	361	559	801	1008	1165	1390
	355	354	352	349	344	335	324
175	143	346	553	784	989	1145	1377
	416	414	411	407	403	396	388
200	118	331	536	770	969	1128	1356
	475	473	469	463	455	448	439
240	82	301	506	740	943	1104	1332
	571	569	565	548	539	530	520

BMV 500 [518cm³/rev.]

Pressure (MPa)		Max.cont.		Max.int.		
3.5	7	10	14	18	20	24

Flow (L/min)	Pressure (MPa)						
	3.5	7	10	14	18	20	24
10	242	468	696	959	1190	1353	1607
	17	17	16	16	15	13	11
20	245	501	738	1003	1232	1394	1658
	36	35	35	34	33	32	29
50	240	500	758	1025	1270	1449	1743
	93	92	91	90	88	85	80
75	233	498	752	1030	1288	1475	1766
	140	139	137	135	132	127	120
100	228	491	748	1026	1289	1472	1760
	189	187	185	182	178	173	166
125	220	483	742	1014	1280	1460	1745
	237	236	234	231	227	223	216
150	201	465	723	1008	1250	1429	1736
	287	286	284	281	276	270	260
175	182	446	711	997	1238	1406	1715
	335	334	332	329	325	320	310
200	161	423	676	974	1218	1385	1697
	384	383	381	378	374	366	354
240	120	378	622	921	1172	1340	1650
	461	459	457	454	450	444	432

BMV 630 [666cm³/rev.]

Pressure (MPa)		Max.cont.		Max.int.		
3.5	6	9	12	15	18	21

Flow (L/min)	Pressure (MPa)						
	3.5	6	9	12	15	18	21
10	280	522	812	1100	1268	1549	1784
	14	13	13	12	12	11	10
20	288	552	839	1101	1315	1607	1864
	28	28	27	27	26	24	22
50	289	555	868	1137	1364	1682	1956
	72	72	71	69	68	66	62
75	270	548	863	1120	1352	1680	1964
	109	108	106	104	102	99	94
100	264	538	856	1093	1350	1674	1965
	146	145	143	141	138	135	130
125	251	516	837	1071	1336	1659	1950
	184	183	181	179	177	173	168
150	240	495	817	1063	1330	1650	1928
	221	220	219	217	215	212	205
175	210	485	796	1052	1300	1636	1908
	259	258	257	254	250	246	241
200	182	469	751	1018	1280	1611	1883
	297	297	295	293	290	284	273
240	130	416	712	978	1237	1563	1835
	358	357	355	351	346	340	332

Torque (N•m) 1340
Speed (rpm) 444

cont.
int.



性能参数 Performance Data

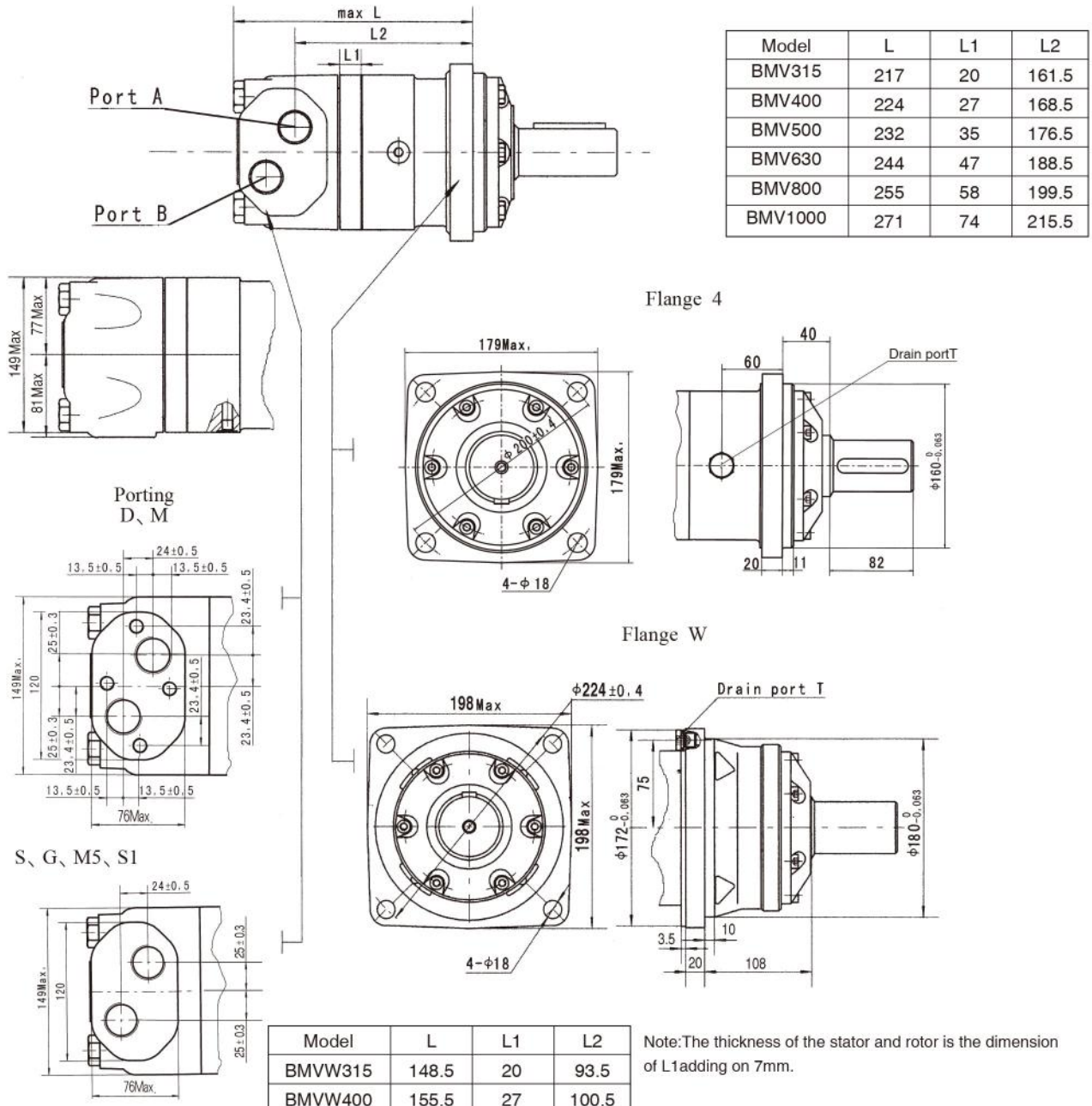
		BMV 800 [801cm³/rev.]						
		Pressure (MPa)						
		2.5	5	8	10	13	16	18
							Max.cont.	Max.int.
Flow (L/min)	10	278	565	830	1095	1405	1712	1915
		11	10	10	9	8	8	7
	20	282	571	845	1150	1456	1783	1994
		23	22	22	21	20	18	16
	50	288	582	856	1162	1463	1790	2001
		60	59	57	56	54	52	48
	75	269	580	855	1165	1465	1786	1993
		91	90	89	87	84	81	77
	100	251	566	840	1140	1448	1767	1985
		122	121	120	118	115	111	105
125	242	535	824	1118	1427	1739	1976	
	153	152	150	147	143	139	133	
150	236	526	808	1102	1401	1714	1959	
	185	183	181	178	174	169	163	
175	215	504	793	1079	1377	1698	1936	
	216	214	212	209	206	203	196	
Max.cont.	200	197	468	765	1063	1362	1681	1913
		247	245	243	240	237	232	225
Max.int.	240	118	388	713	1020	1318	1637	1838
		297	296	295	293	288	283	277

□ cont.
■ int.

		BMV 1000 [990cm³/rev.]					
		Pressure (MPa)					
		2.5	5	7	10	14	16
						Max.cont.	Max.int.
Flow (L/min)	10	312	640	971	1400	1978	2259
		9	9	9	8	7	6
	20	320	648	978	1410	1980	2270
		28	27	26	25	23	21
	50	326	655	992	1422	2015	2280
		47	46	45	43	41	38
	75	318	642	987	1425	2003	2276
		72	71	70	68	66	63
	100	309	634	983	1418	1994	2243
		98	97	95	93	90	86
125	303	624	975	1409	1988	2224	
	123	122	120	117	114	110	
150	278	602	961	1368	1963	2208	
	149	148	146	144	140	133	
175	264	580	946	1338	1925	2159	
	174	172	170	166	162	155	
Max.cont.	200	230	556	912	1300	1891	2105
		199	196	193	190	185	178
Max.int.	240	166	513	867	1267	1825	2034
		240	237	233	229	225	218

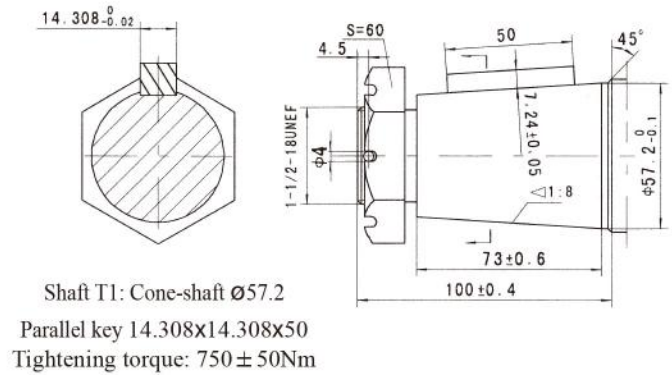
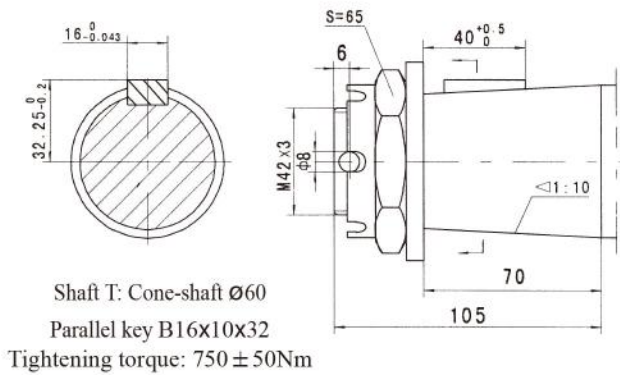
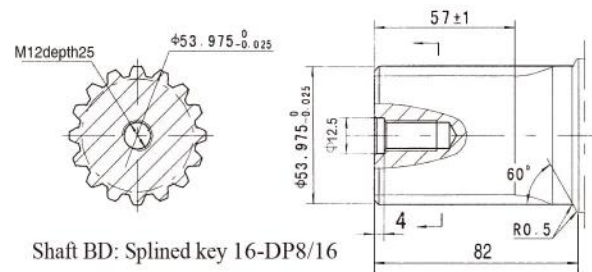
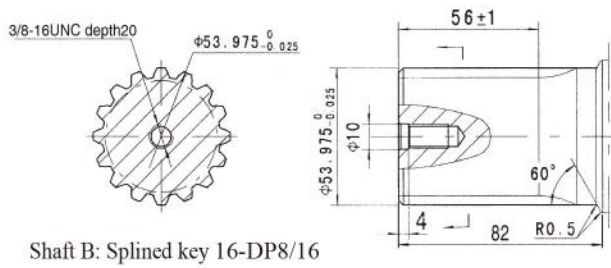
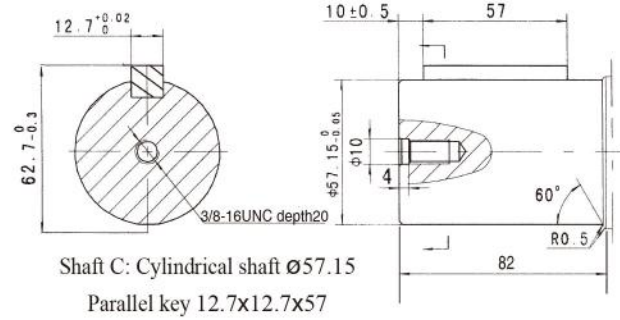
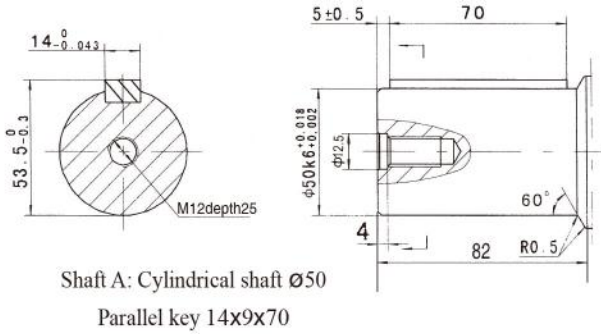
Torque (N•m) 1825
Speed (rpm) 225

BMV 安装连接尺寸
BMV DIMENSIONS AND MOUNTING DATA



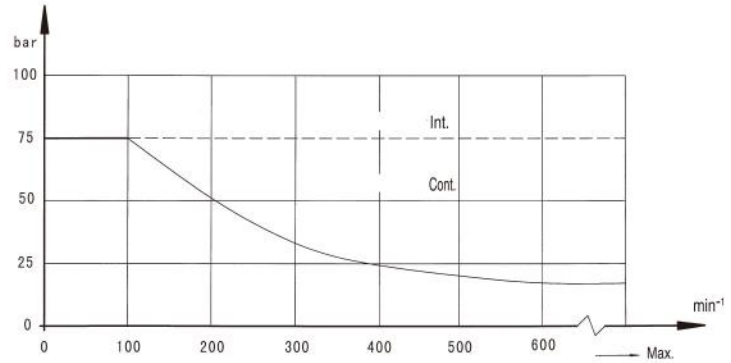
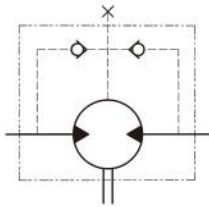
Content Mounting	Code					
	D (depth)	M (depth)	S (depth)	G (depth)	M5 (depth)	S1 (depth)
P(A,B)	G1 (18)	M33 x 2 (18)	1-5/16-12UN(18)	G1 (18)	M33 x 2 (18)	1-5/16-12UN(18)
T	G1/4 (12)	M14 x 1.5 (12)	9/16-18UNF(12)	G1/4 (12)	M14 x 1.5 (12)	7/16-20UNF(12)
C	4-M12 (10)	4-M12 (10)	--	--	--	--

BMV 轴伸连接尺寸
BMV SHAFT EXTENSIONS DIMENSIONS DATA



BMV Series Hydraulic Motor

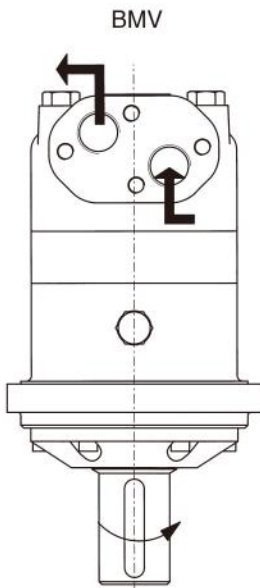
输出轴密封圈允许承受的压力
Permissible shaft seal pressure



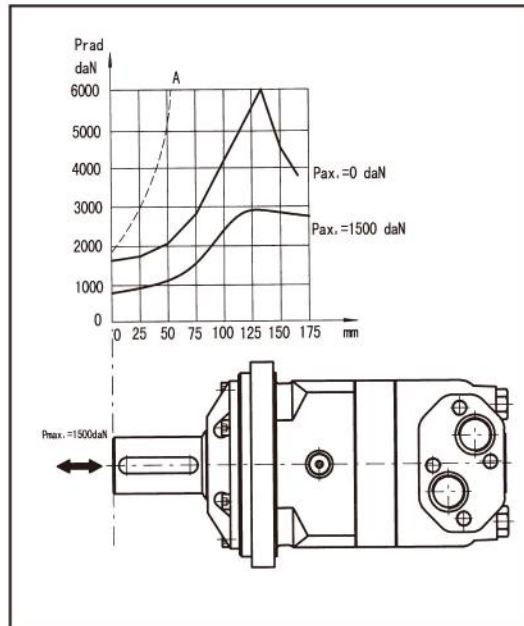
In applications without drain line, output shaft seal exceeds a bit of the pressure in the return line. When applications use the drain line, the pressure of output shaft seal equals the pressure in drain line.

输出轴的标准旋转方向：标准
Standard direction of shaft rotation: Standard

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



Axial and Radial forces



The output shaft runs in tapered bearings that permit high axial and radial forces, Curve "A" shows max radial shaft load, Any shaft loads exceeding the values quoted in the curve will involve a risk of breakage, The two other curves apply to a B10 bearing life of 3000 hours at 200 RPM.



订货信息

Order Information

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

Pos.1	2	3	4	5	6	7	8
Code	排量 Disp.	法兰 Flange	轴键 Output shaft	油口 Port and drain port	Rotation direction	Paint	Unusually function
Omit	315	4 4-Ø18 Square-flangeØ200, pilot Ø160 × 11 W 4-Ø18 Wheel-flange Ø224, pilot Ø180 × 10	A Shaft Ø50 , parallel key 14 × 9 × 70	D G1 Manifold 4 × M12, G1/4 M M33 × 2 Manifold 4 × M12, M14 × 1.5 S 1-5/16-12UN, 9/16-18UNF G G1,G1/4 M5 M33 × 2, M14 × 1.5 S1 1-5/16-12UN(18), 7/16-20UNF(12)	Omit Standard R Opposite B S	00 Omit Blue Black Silver grey	Standard Omit
	400		BD Shaft Ø53.975, splined key 16-DP8/16				
	500		B Shaft Ø53.975, splined key 16-DP8/16				
	630		C Shaft Ø57.15, parallel key 12.7 × 12.7 × 57.15				
	800		T Cone shaft Ø60, parallel key B16 × 10 × 32				
1000	T1 Cone shaft Ø60, parallel key 14.308 × 14.308 × 50.8						

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.



BMK2 系列液压摆线马达 BMK2 SERIES HYDRAULIC MOTOR

BMK2 series motor adapt the advanced Geroler gear set design with disc distribution flow and high pressure. The unit can be supplied the individual variant in operating multifunction in accordance with requirement of applications.

Characteristic features:

- * Advanced manufacturing devices for the Geroler gear set, which use low pressure of start-up, provide smooth and reliable operation and high efficiency.
- * The output shaft adapts in tapered roller bearings that permit high axial and radial forces. The case can offers capacities of high pressure and high torque in the wide of applications.

主要技术参数 Main Specification

类型Type		BMK2 65	BMK2 80	BMK2 100	BMK2 125	BMK2 160	BMK2 200	BMK2 250	BMK2 315	BMK2 400	BMK2 475	
排量 Disp.	(cm ³ /rev.)	65	80	100.9	129.8	156.8	193.4	242.5	304.3	390.8	485	
最高转速 Max. speed	(rpm)	连续	835	800	742	576	477	385	308	246	191	153
		断续	990	980	924	720	713	577	462	365	287	230
最大扭矩 Max. torque	(N·m)	连续	185	235	295	385	455	540	660	765	775	845
		断续	245	345	445	560	570	665	820	885	925	930
最高工作压力 Max. pressure	(MPa)	连续	20.5	21	21	21	20.5	20.5	20.5	21	15.5	12
		断续	27.5	31	31	31	26	26	26	24	17	14
		峰值	31	31	31	31	31	31	31	31	20.5	17
最大流量 Max. flow	(L/min)	连续	55	65	75	75	75	75	75	75	75	75
		断续	65	80	95	95	115	115	115	115	115	115
重量 weight	(kg)	9.2	9.4	9.7	10	10.2	10.5	11	11.5	12	12.4	

* 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 性能参数

BMK2 65 [65 cm³/rev.]

压力 (MPa)

连续最大 断续最大 峰值

	3.5	7	10.5	14	17.5	20.5	24	27.5	31
2	28	54	80						
	22	12	6						
4	30	58	88	115	146	165	195		
	52	47	43	35	30	24	16		
8	31	60	92	120	150	170	200	225	
	107	98	92	85	70	55	40	30	
15	32	62	94	124	155	175	205	230	250
	214	208	200	193	185	174	160	145	130
22	32	65	95	125	157	178	206	232	254
	320	315	308	296	286	275	260	242	230
30	30	65	95	128	160	180	210	235	258
	445	440	430	420	408	395	380	360	325
38	28	62	95	130	165	185	216	240	260
	565	560	550	540	526	512	495	470	420
45	26	60	92	125	160	180	215	245	265
	675	670	660	648	632	615	600	580	530
55	23	55	88	120	155	175	210	235	255
	835	825	810	790	770	745	720	690	640
65	20	50	84	112	150	170	205	230	250
	990	980	965	945	935	910	880	860	800

流量 (L/min)

连续最大

断续最大

BMK2 80 [80 cm³/rev.]

压力 (MPa)

连续最大 断续最大 峰值

	3.5	7	10.5	14	17.5	20.5	24	27.5	31
2	29	54	86						
	18	9	3						
4	35	75	112	145	172	208	218	236	
	45	41	38	35	28	22	14	3	
8	35	75	114	148	175	212	230	260	280
	90	85	80	76	72	64	55	46	40
15	38	78	116	152	184	215	245	275	300
	180	175	170	166	160	153	140	126	115
22	36	75	114	150	185	220	250	285	315
	265	260	255	250	242	234	220	205	185
30	35	75	115	150	185	225	260	295	325
	363	355	350	342	334	322	302	280	260
38	34	72	112	155	190	230	265	300	335
	460	452	442	430	418	405	385	360	335
45	32	70	110	150	190	230	265	305	340
	545	535	528	515	505	495	465	440	410
55	30	68	110	150	190	230	270	305	335
	670	660	650	635	620	605	575	540	510
65	25	65	105	145	180	225	260	295	325
	800	790	778	755	740	728	690	650	610
75	22	63	102	145	180	225	260	290	
	910	900	880	860	850	830	790	750	
80	20	60	100	140	175	220	250		
	980	970	955	920	900	875	840		

流量 (L/min)

连续最大

断续最大

BMK2 100 [100.9 cm³/rev.]

压力 (MPa)

连续最大 断续最大 峰值

	1.75	3.5	7	10.5	14	17.5	20.5	24	27.5	31
2	15	32	68							
	14	10	5							
4	18	42	92	130	170	205	230			
	36	34	32	28	22	14	5			
8	20	45	90	135	180	210	240	280	310	
	74	73	70	66	60	52	42	26	15	
15	20	45	90	135	185	220	260	305	345	390
	142	140	137	134	129	120	105	92	78	65
22	18	45	90	140	190	230	275	315	360	405
	210	207	201	195	188	179	160	150	138	125
30	16	42	88	142	195	240	285	330	375	425
	290	288	282	276	268	258	242	230	212	195
38	15	40	88	140	190	240	285	335	380	430
	370	365	360	352	340	326	310	295	275	255
45	15	40	86	140	190	240	285	340	385	440
	440	435	430	422	410	395	380	365	345	320
55	12	36	85	135	190	240	285	340	385	440
	540	534	528	520	510	500	485	465	440	405
65	10	35	80	130	185	235	280	335	380	440
	640	635	630	622	605	590	575	550	525	500
75	5	30	75	125	180	230	275	330	375	
	738	735	728	715	700	680	655	635	610	
85	3	25	75	125	175	225	270	320	370	
	838	835	830	820	805	785	760	730	690	
95		23	70	120	170	220	260	310		
		925	918	905	890	870	840	810		

流量 (L/min)

连续最大

断续最大

BMK2 125 [129.8 cm³/rev.]

压力 (MPa)

连续最大 断续最大 峰值

	1.75	3.5	7	10.5	14	17.5	20.5	24	27.5	31
2	25	40								
	12	7								
4	28	55	110	175	220	280	325			
	27	26	22	18	14	11	8			
8	28	60	115	175	230	290	330	375	400	
	57	56	53	48	42	38	34	26	20	
15	28	60	120	180	240	295	340	390	440	485
	113	112	110	105	98	92	86	80	72	65
22	28	55	120	180	245	305	360	415	470	530
	165	163	160	155	150	144	138	130	115	100
30	25	52	120	185	245	310	365	425	480	545
	228	224	222	210	212	206	198	188	178	165
38	25	50	120	180	245	315	370	430	495	550
	288	285	282	275	268	260	252	242	230	215
45	22	50	120	180	245	315	370	430	490	550
	345	343	338	332	325	315	305	292	280	265
55	20	46	115	175	245	330	375	430	490	
	420	418	414	408	400	390	378	365	346	
65	15	43	110	170	240	320	370	425	485	
	498	496	492	486	480	465	458	440	425	
75	12	42	108	170	235	310	365	425		
	575	574	568	560	550	548	525	502		
85	8	40	105	165	230	310	360	420		
	653	652	645	636	625	616	600	578		
95		40	100	160	225	290	355	415		
		722	715	702	690	680	670	655		

流量 (L/min)

连续最大

断续最大

连续
断续

扭矩 (N·m) 225
转速 (rpm) 690



BMK2 160 [156.8 cm³/rev.]
压力 (MPa)

		连续最大				断续最大				
		1.75	3.5	7	10.5	14	17.5	20.5	24	26

流量 (L/min)		连续最大												
		2	4	8	15	22	30	38	45	55	65			
	2	28 9	55 7	110 5	175 3									
	4	32 22	63 21	125 19	190 17	250 13	315 8	370 3						
	8	37 47	68 45	130 42	200 39	260 36	325 34	390 32	450 27	480 22				
	15	35 93	68 92	135 89	210 85	275 80	370 76	420 70	500 60	530 45				
	22	35 138	75 136	140 133	215 128	285 122	370 116	440 110	515 102	550 95				
	30	35 190	75 187	145 184	220 178	290 172	370 167	440 164	520 154	560 142				
	38	37 240	70 237	150 234	225 230	310 225	380 218	450 202	525 193	565 185				
	45	32 285	70 283	150 280	225 275	310 268	380 259	450 247	525 236	565 225				
	55	28 348	66 346	145 242	220 338	305 332	375 324	450 314	525 300					
	65	25 412	63 410	140 406	220 300	300 393	375 383	445 370						
连续最大	75	22 476	60 474	135 470	215 464	295 454	370 445	440 435						
	85	18 540	55 536	130 532	210 524	290 514	365 502	435 485						
断续最大	95	15 600	50 595	125 590	205 580	285 565	360 555	430 545						
	115		40 715	115 705	200 695	280 685	350 670	425 655						

BMK2 200 [193.4 cm³/rev.]
压力 (MPa)

		连续最大				断续最大				
		1.75	3.5	7	10.5	14	17.5	20.5	24	26

流量 (L/min)		连续最大													
		2	4	8	15	22	30	38	45	55	65	75	85	95	115
	2	32 9	68 7	110 5	145 3										
	4	40 18	75 16	150 14	195 11	300 7	360 4								
	8	45 37	80 36	160 34	240 30	315 26	405 21	500 17	570 13	600 11					
	15	48 75	90 74	170 72	255 68	335 64	425 60	510 56	590 50	620 42					
	22	46 112	90 110	175 108	265 101	350 101	440 97	520 91	605 86	645 80					
	30	45 153	90 151	180 148	270 145	360 141	450 135	530 128	615 122	655 116					
	38	45 193	90 191	180 188	275 184	370 178	455 172	540 166	625 158						
	45	40 230	85 228	180 226	275 222	370 218	460 210	545 202							
	55	38 280	82 278	180 275	275 270	375 264	465 255	550 248							
	65	35 332	80 330	175 328	270 322	370 315	465 306	545 295							
连续最大	75	30 384	72 382	170 378	265 370	360 365	455 356	540 346							
	85	25 436	70 434	165 430	260 420	355 410	450 400	540 390							
断续最大	95	20 488	60 485	155 478	255 470	350 458	445 448	530 438							
	115		50 580	140 572	240 562	330 550	440 538	520 520							

BMK2 250 [242.5 cm³/rev.]
压力 (MPa)

		连续最大				断续最大				
		1.75	3.5	7	10.5	14	17.5	20.5	24	26

流量 (L/min)		连续最大												
		2	4	8	15	22	30	38	45	55	65			
	2	45 4	95 2											
	4	50 14	100 13	210 11	310 9	410 6	510 4	610 3						
	8	55 29	105 28	215 26	320 23	420 20	530 17	620 14	730 11	780 9				
	15	55 59	110 58	220 56	330 53	440 50	550 47	650 45	755 43	810 40				
	22	50 88	115 87	225 85	340 82	455 78	560 74	665 69	770 65					
	30	50 122	115 121	230 118	350 113	465 109	570 104	680 100	785 92					
	38	48 154	112 152	235 149	355 145	475 140	580 135	695 130	795 122					
	45	45 183	110 182	230 180	350 176	475 170	590 165	700 158						
	55	42 224	105 223	230 221	345 218	470 212	580 205							
	65	35 266	100 265	220 263	340 258	460 252	565 242							
连续最大	75	32 307	95 306	210 303	330 298	455 290	560 280							
	85	30 348	85 346	200 342	320 336	450 330	555 320							
断续最大	95	25 386	70 384	190 378	315 372	440 365	540 355							
	115		65 465	180 458	300 450	430 442								

BMK2 315 [304.3 cm³/rev.]
压力 (MPa)

		连续最大				断续最大			
		1.75	3.5	7	10.5	14	17.5	20.5	24

流量 (L/min)		连续最大													
		2	4	8	15	22	30	38	45	55	65	75	85	95	115
	2	45 4	95 2												
	4	65 12	130 11	250 10	380 8	490 6									
	8	70 24	135 23	260 22	390 20	510 18	630 15	760 10	875 6						
	15	75 48	140 48	275 47	410 45	535 42	670 38	800 34	920 30						
	22	70 71	140 70	285 69	425 66	555 62	685 56	810 50	940 42						
	30	70 97	145 97	290 96	430 93	565 88	695 80	820 70							
	38	66 123	140 122	290 120	435 117	570 112	715 102	835 90							
	45	62 147	135 146	290 144	435 142	575 135	720 125	840 118							
	55	58 180	130 179	285 176	430 172	575 165	720 155								
	65	52 213	120 212	275 210	425 205	570 200	715 190								
连续最大	75	40 246	110 245	260 242	415 236	560 225	710 212								
	85	30 278	100 277	250 274	405 270	540 260									
断续最大	95	20 311	90 310	245 307	380 303	515 296									
	115		80 365	225 361	350 355										

□ 连续
■ 断续

扭矩 (N·m) 225
转速 (rpm) 361



BMK2 400 [390.8 cm³/rev.]
压力 (MPa)

流量 (L/min)	连续最大 断续最大							
	1.75	3.5	7	10.5	14	15.5	17.5	19
2	70 4	145 2						
4	80 9	170 9	345 8	500 7	660 6	740 5		
8	85 19	175 18	355 17	520 16	680 14	765 13	830 12	910 10
15	90 37	185 37	370 36	550 35	720 32	810 30	880 28	
22	95 55	190 55	380 54	565 52	750 48	830 46	900 44	
30	92 76	188 75	385 73	570 71	760 68	835 65	905 62	
38	90 96	185 94	385 92	575 90	765 86	840 84	930 80	
45	85 114	180 113	380 111	570 108	760 102			
55	80 140	175 139	380 137	570 133	760 127			
65	75 165	170 164	370 163	560 160	750 155			
连续最大 75	68 191	160 190	360 188	555 184	740 178			
85	65 214	150 212	355 210	550 206	730 200			
断续最大 95	50 242	135 240	340 237	530 233	710 228			
115		125 286	310 282	510 275				

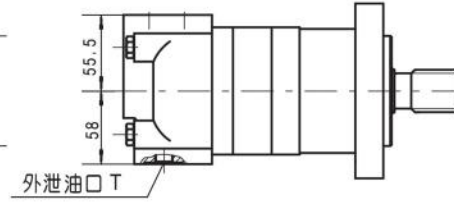
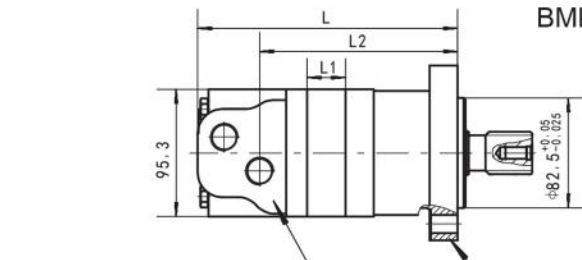
BMK2 475 [485 cm³/rev.]
压力 (MPa)

流量 (L/min)	连续最大 断续最大						
	1.75	3.5	7	10.5	12	14	
2	75 2	175 1					
4	110 7	220 6	430 4	540 1			
8	110 14	225 13	450 11	700 7			
15	105 29	235 28	470 26	710 24	825 22	895 19	
22	105 44	240 43	480 42	720 40	835 37	915 34	
30	110 61	240 60	485 58	725 55	840 52	935 48	
38	110 77	235 75	480 73	720 70	840 68	930 65	
45	100 91	220 91	470 89	715 85	825 83		
55	95 112	210 110	460 108	710 104	820 100		
65	85 132	200 131	445 128	700 125	810 120		
连续最大 75	70 153	185 152	440 149	690 145	800 140		
85	60 173	175 172	430 169	680 165	785 160		
断续最大 95	40 195	150 193	405 190	655 185			
115		130 230	380 226	625 220			

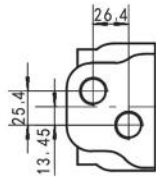
□ 连续
■ 断续

扭矩 (N·m) 130
转速 (rpm) 230

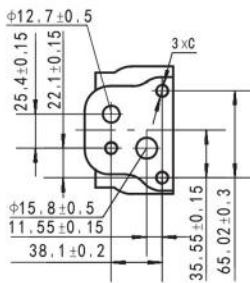
BMK2 安装连接尺寸
BMK2 DIMENSIONS AND MOUNTING DATA



油口
DB、DU、SU、SB、M4

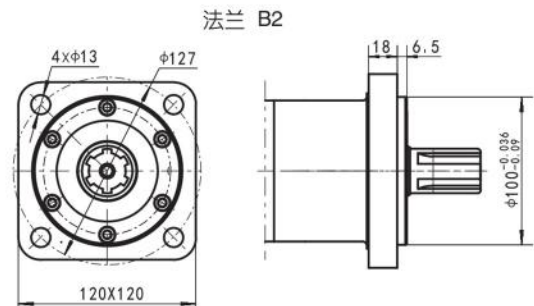
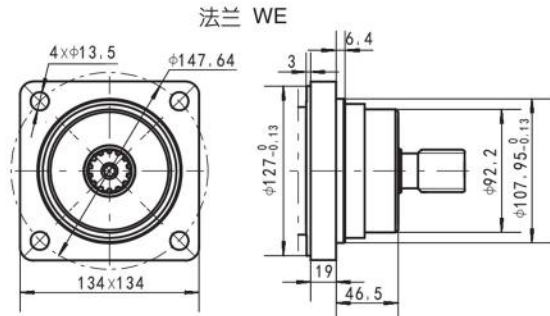
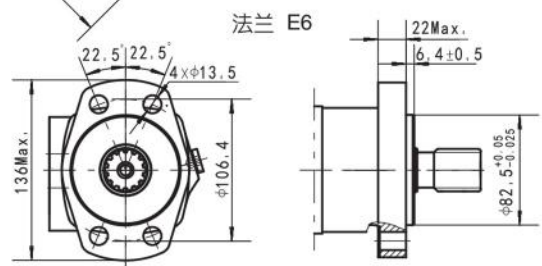
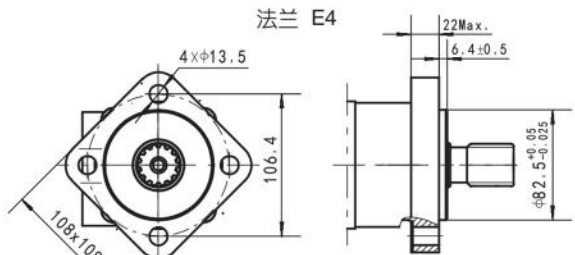
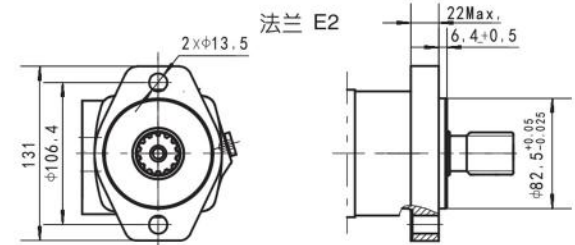


油口 MU、MM



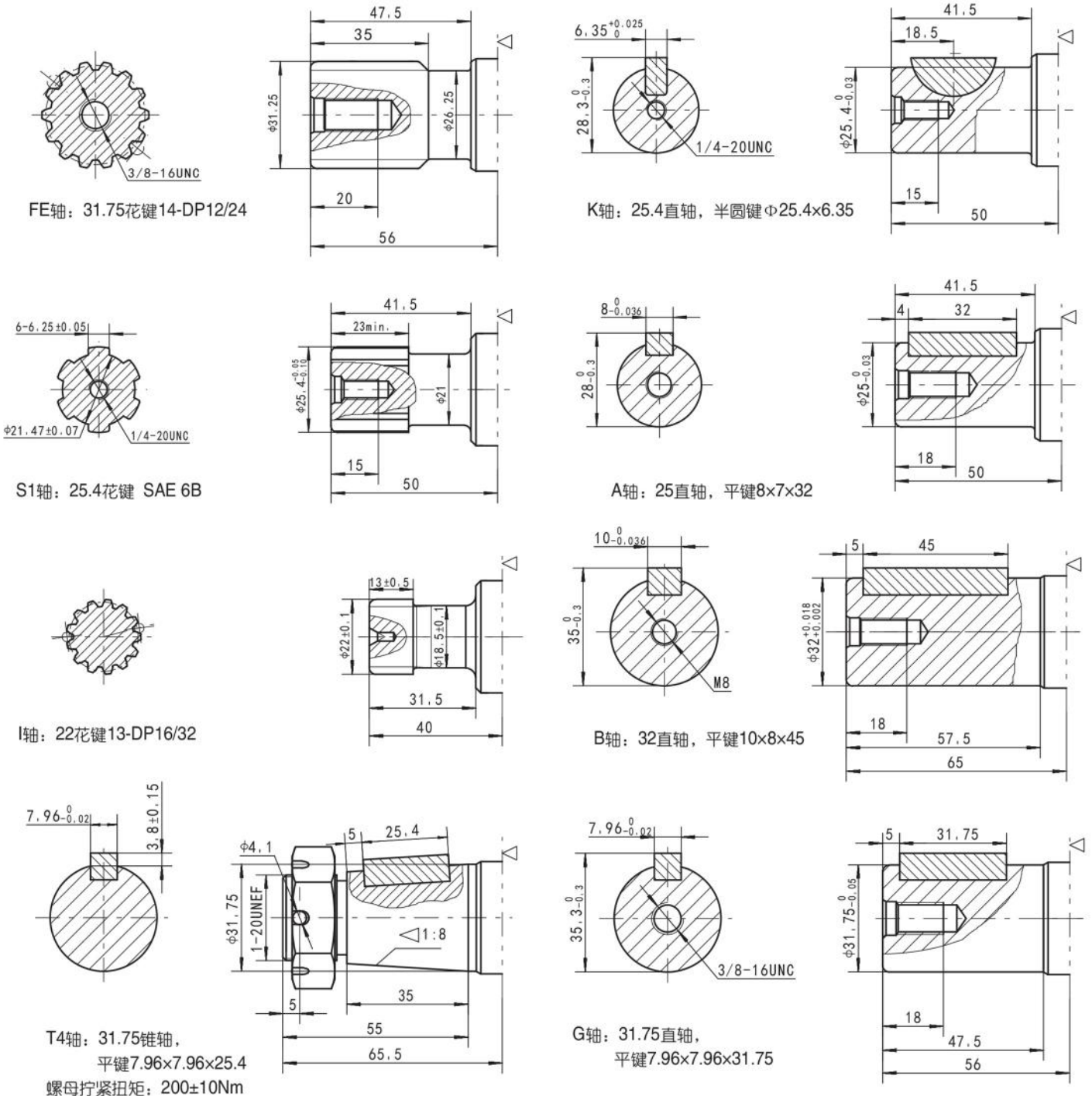
型号规格	L	L1	L2
BMK2-65	182	14.5	133.5
BMK2-80	185	17.8	136.5
BMK2-100	189.5	22.5	141.5
BMK2-125	196	28.9	148
BMK2-160	196	28.9	148
BMK2-200	202.5	35.6	154.5
BMK2-250	211.5	44.6	163.5
BMK2-315	223	56	175
BMK2-400	239	72	191
BMK2-475	256.5	89.3	208.5

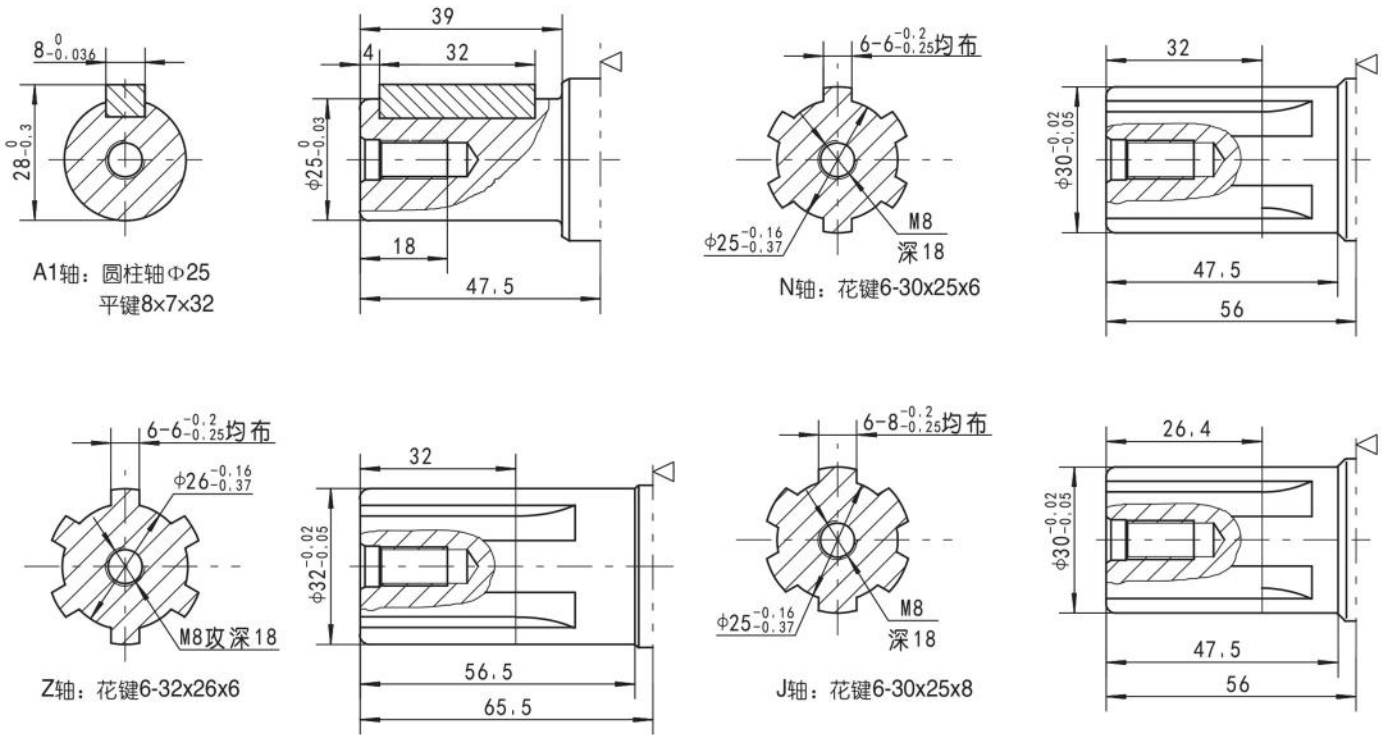
型号规格	L	L1	L2
BMK2-62-WE	142	14.5	93.5
BMK2-80-WE	145.5	17.8	97
BMK2-100-WE	150	22.5	101.5
BMK2-125-WE	156.5	28.9	108
BMK2-160-WE	156.5	28.9	108
BMK2-200-WE	163	35.6	114.5
BMK2-250-WE	172	44.6	123.5
BMK2-315-WE	183.5	56	135
BMK2-400-WE	199.5	72	151
BMK2-475-WE	217	89.3	168



代号	DB (深)	DU (深)	SU (深)	SB (深)	M4 (深)	MU	MM
连接形式							
P(A,B)	G1/2 (15)	G1/2 (15)	7/8-14 O-ring (17)	7/8-14 O-ring (17)	M22 x 1.5 (15)	φ12.7、φ15.8	φ12.7、φ15.8
T	G1/4 (12)	7/16-20UNF(12)	7/16-20UNF(12)	G1/4 (12)	M14 x 1.5 (12)	7/16-20UNF(12)	G1/4 (12)
C			--			3/8-16UNC(15)	M10(15)

BMK2 轴伸连接尺寸
BMK2 SHAFT EXTENSION DIMENSION DATA

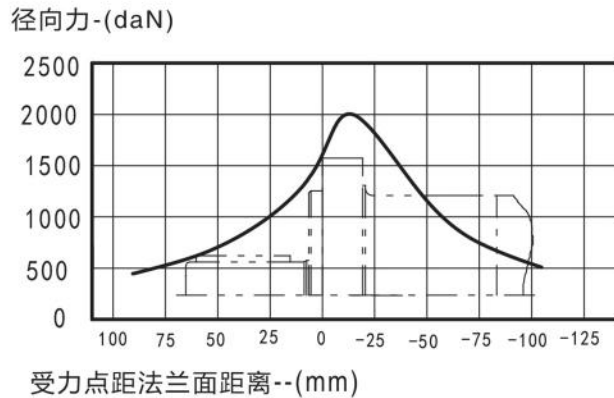




◁ 马达安装面(对应于E2法兰, 其他方式类推)

输出轴轴封允许最高承受压力
Permissible shaft seal pressure

BMK2 标准E2法兰径向受力图



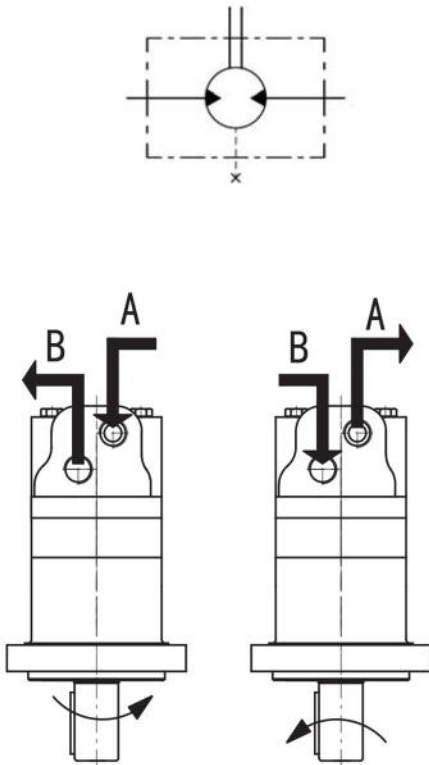
本径向力曲线是在额定扭矩下保证轴承寿命 B_{10} 允许负载得出(2000小时或 12×10^6 转在100rpm工况下), 其它转速工况下须乘以某一系数。

BMK2 马达输出轴旋转方向规定

输出轴旋转方向：标准

Direction of shaft rotation: Standard

当面对马达轴伸方向，油口A为高压油时，输出轴顺时针方向旋转；反之，则逆时针方向旋转。



订货信息 Order Information

Pos.1	2	3	4	5	6	7	8
结构代码	排量 Disp.	法兰 Flange	输出轴 Output shaft	油口、外泄油口 Port and Drain	R旋转工况	油漆	特殊功能
无	65	E2	A	DB	无	00	标准
	80		B	DU	R	无	无
	100	E4	K	SB	标准	无	蓝漆
	125		G	SU	反向	B	黑漆
	160		FE	M4	无	S	银灰漆
	200	E6	S1	MU	无		
	250		T4	MM			
	315		I				
	400	WE	A1				
	475		N				
		B2	Z				



BMK6 系列液压摆线马达 BMK6 SERIES HYDRAULIC MOTOR

BMK6 series motor adapt the advanced Geroler gear set design with disc distribution flow and high pressure. The unit can be supplied the individual variant in operating multifunction in accordance with requirement of applications.

Characteristic features:

- * Advanced manufacturing devices for the Geroler gear set, which use low pressure of start-up, provide smooth and reliable operation and high efficiency.
- * The output shaft adapts in tapered roller bearings that permit high axial and radial forces. Can offer capacities of high pressure and high torque in the wide of applications.
- * Advanced design in disc distribution flow, which can automatically compensate in operating with high volume efficiency and long life, provide smooth and reliable operation

主要技术参数 Main Specification

类 型 Type		BMK6 200	BMK6 250	BMK6 315	BMK6 400	BMK6 500	BMK6 630	BMK6 800	BMK6 1000
排量 Disp. (cm ³ /rev.)		195.6	246.1	311.6	391.3	490.8	623	802.4	981.6
最高转速 Max. speed (rpm)	cont.	765	610	480	382	304	240	186	152
	int.	865	830	690	570	455	360	280	230
最大扭矩 Max. torque N.m	cont.	565	710	920	1160	1445	1480	1580	1675
	int.	840	1080	1325	1625	1880	1890	1880	1860
最高工作压差 Max. pressure drop (MPa)	cont.	20	20	20	20	20	17.5	14	14
	int.	30	30	30	30	27.5	22.5	15.5	14
	peak.	30	30	30	30	30	24	17.5	17
最大流量 Max. flow (L/min)	cont.	150	150	150	150	150	150	150	150
	int.	170	205	225	225	225	225	225	225
重量 weight (kg)		26.3	26.8	27.3	28	28.8	29.6	30.5	32

- * 额定转速、扭矩是指在额定流量、压力下的输出值。
- * 连续值是指该排量马达可以连续工作的最大值。
- * 断续值是指该排量马达在1分钟内工作6秒的最大值。
- * 峰值是指该排量马达在1分钟内工作0.6秒的最大值。
- * 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.



性能参数 Performance Data

BMK6 200 [195.6cm³/rev.]
压力 (MPa)

	连续最大									峰值 30
	1.75	3.5	7	10.5	14	17.5	20	24	27.5	
2	30	73	160							
8	36	76	168	262	345	438	465			
15	36	81	174	270	365	455	510	580	640	765
30	37	85	175	275	370	465	540	615	700	805
45	37	85	180	280	375	470	535	650	740	825
60	38	80	178	282	380	475	565	660	750	840
75	32	78	175	275	378	480	565	670	760	840
90	26	75	172	270	375	475	565	660	765	840
105	22	70	170	270	370	470	560	660	760	840
120	20	67	166	265	365	465	560	660	755	840
135	14	65	160	260	360	465	560	655	750	840
150	10	60	155	258	356	450	550	650		
170	60	155	255	350	450	545	640			

BMK6 250 [246.1cm³/rev.]
压力 (MPa)

	连续最大									峰值 30
	1.75	3.5	7	10.5	14	17.5	20	24	27.5	
2	46	92								
8	51	103	215	335	440	550	560			
15	52	105	220	340	455	570	640	745	850	960
30	55	110	232	352	470	600	685	790	900	1020
45	58	116	235	355	475	610	705	840	940	1050
60	53	110	230	350	480	615	705	845	955	1080
75	45	105	230	355	485	620	710	850	960	1080
90	45	105	225	350	480	615	710	845	955	1080
105	40	100	220	340	475	610	705	840	950	1080
120	38	95	210	340	470	590	700	830	940	1080
135	35	85	205	325	460	580	690	820		
150	30	80	200	320	450	570	680	815		
170	65	190	315	440	560	675	750			
185		185	310	430	545	670				
205		175	300	418	536	562				

BMK6 315 [311.6cm³/rev.]
压力 (MPa)

	连续最大									峰值 30
	1.75	3.5	7	10.5	14	17.5	20	24	27.5	
2	65	126								
8	68	135	280	410	540	650	750	880		
15	70	135	285	435	565	690	810	940	1010	1035
30	70	135	295	440	600	740	880	990	1100	1180
45	70	140	300	460	610	750	900	1035	1165	1300
60	70	140	300	460	615	775	920	1055	1200	1325
75	65	135	295	455	615	780	920	1065	1215	1325
90	60	130	290	450	615	780	920	1070	1220	1325
105	50	125	280	445	605	770	915	1070	1205	1325
120	45	120	280	440	600	765	910	1055		
135	40	115	275	435	585	760	900	1050		
150	35	110	270	420	570	755	880	1030		
190	100	245	375	520	685	820				
225	220	350	500	640	770					

BMK6 400 [391.3cm³/rev.]
压力 (MPa)

	连续最大									峰值 30
	1.75	3.5	7	10.5	14	17.5	20	24	27.5	
2	90	172	360							
8	95	180	370	555	730	885	1025	1195		
15	95	185	375	560	740	930	1070	1265	1380	1625
30	98	185	380	575	760	960	1135	1315	1455	1625
45	95	185	385	580	765	970	1145	1335	1530	1625
60	90	180	380	580	770	975	1155	1345		
75	85	180	380	580	775	980	1160	1355		
90	80	175	375	570	765	975	1155			
105	70	165	360	560	760	965	1150			
120	65	160	355	550	745	950	1140			
135	55	155	340	545	735	940	1120			
150	45	145	320	530	730	925				
190	130	300	515	730	915					
225	285	500	710	895						



BMK6 500 [490.8cm³/rev.]
压力 (MPa)

		1.75		3.5		7		10.5		14		17.5		20		24		27.5			
		连续最大																断续最大		峰值	
流量 (L/min)	4	120	230	470	685																
	8	125	240	475	705	940	1165	1375													
	15	125	235	480	720	960	1190	1400	1625	1880											
	30	125	235	485	735	975	1215	1445	1685												
	45	125	235	485	735	975	1215	1450													
	60	120	235	480	730	975	1220	1460													
	75	110	225	470	725	970	1220														
	90	100	220	465	720	965	1215														
	105	95	205	460	710	960	1210														
	120	90	195	450	700	950	1205														
连续最大	135	85	175	435	680	935	1170														
	150	70	155	420	665	920	1150														
	断续最大	190		130	360	580	865														
		225		385	382	373	365														

BMK6 630 [623cm³/rev.]
压力 (MPa)

		1.75		3.5		7		10.5		14		17.5		20		22.5			
		连续最大																断续最大	
流量 (L/min)	4	130	245	500	750														
	8	135	265	540	805	1050													
	15	140	280	585	865	1085	1425												
	30	145	295	605	925	1270	1480	1780	1890										
	45	145	295	610	920	1330	1465	1770											
	60	135	285	605	915	1330	1465												
	75	130	275	595	915	1325													
	90	115	260	585	905	1310													
	105	100	255	575	895	1305													
	120	85	235	560	880	1280													
连续最大	135	75	220	540	855														
	150	50	200	525	84														
	断续最大	190			465	795													
		225			300	293													

BMK6 800 [802.4cm³/rev.]
压力 (MPa)

		1.75		3.5		5		7		8.5		10.5		12		14		15.5		17.5	
		连续最大																断续最大			
流量 (L/min)	4	172	345	530	690	860															
	8	180	355	540	725	955	1080	1275	1360												
	15	185	370	565	758	980	1130	1265	1420	1655	1880										
	30	190	385	590	795	1005	1200	1330	1580	1740											
	45	190	385	590	800	1015	1200	1380	1550												
	60	185	380	580	790	1015	1200	1345													
	75	176	370	575	782	1000	1185	1365													
	90	165	360	560	765	990	1170														
	105	150	340	555	750	972	1155														
	120	132	325	545	735	945	1130														
连续最大	135	105	302	525	710	911															
	150	80	270	500	680	880															
	断续最大	190		300	475	660	855														
		225		235	233	230	226														

BMK6 1000 [981.6cm³/rev.]
压力 (MPa)

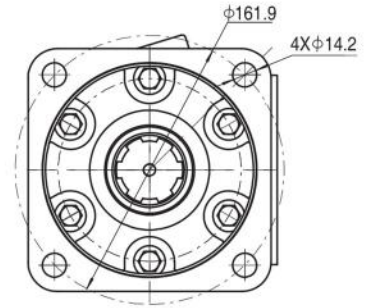
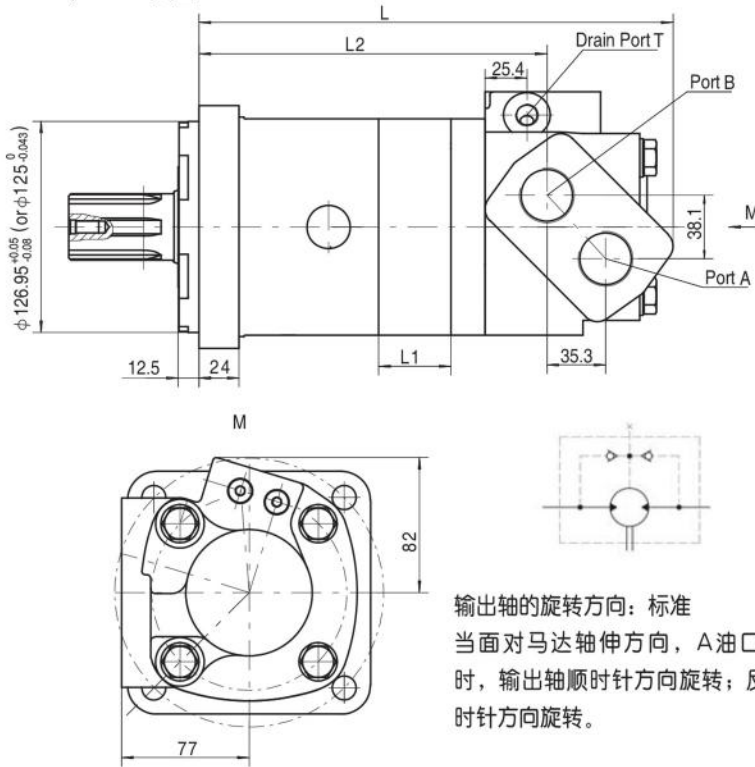
		1.75		3.5		5		7		8.5		10.5		12		14			
		连续最大																断续最大	
流量 (L/min)	4	225	460	640	875	1085													
	8	230	470	695	945	1170	1415	1560	1675										
	15	240	485	715	965	1200	1445	1580	1780										
	30	240	495	720	995	1235	1480	1640	1860										
	45	240	495	720	1000	1250	1490	1700											
	60	235	490	715	990	1245	1500												
	75	225	475	710	980	1230	1485												
	90	215	460	705	960	1215	1465												
	105	200	445	690	940	1195	1440												
	120	185	420	665	920	1155													
连续最大	135	150	390	635	890	1120													
	150	110	360	605	860	1080													
	断续最大	190		320	575	820	1045												
		225		192	190	188	185												

扭矩 (N·m) 423
转速 (rpm) 280

连续
断续

BMK6 安装图
BMK6 DIMENSION AND MOUNTING

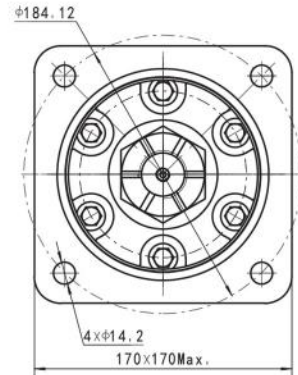
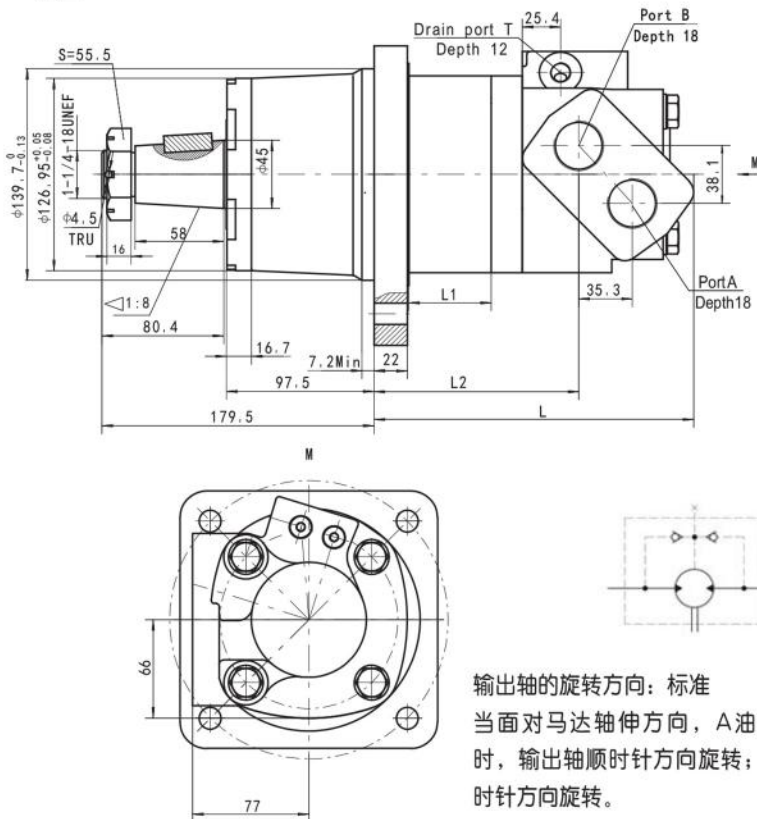
CC、CC1 法兰



型号	L	L1	L2
BMK6-200	265	21.7	187.5
BMK6-250	271	27.3	193.1
BMK6-315	278	34.5	200.3
BMK6-400	287	43.4	209.2
BMK6-500	298	54.4	220.2
BMK6-630	313	69.1	234.9
BMK6-800	333	89	254.8
BMK6-1000	353	108.9	274.7

输出轴的旋转方向: 标准
当面对马达轴伸方向, A油口为高压油时, 输出轴顺时针方向旋转; 反之, 则逆时针方向旋转。

W 法兰



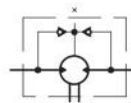
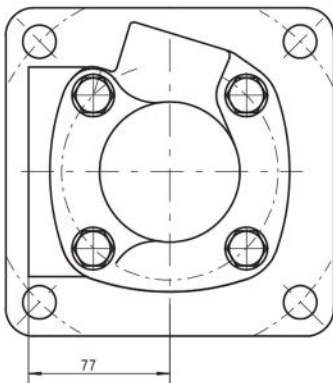
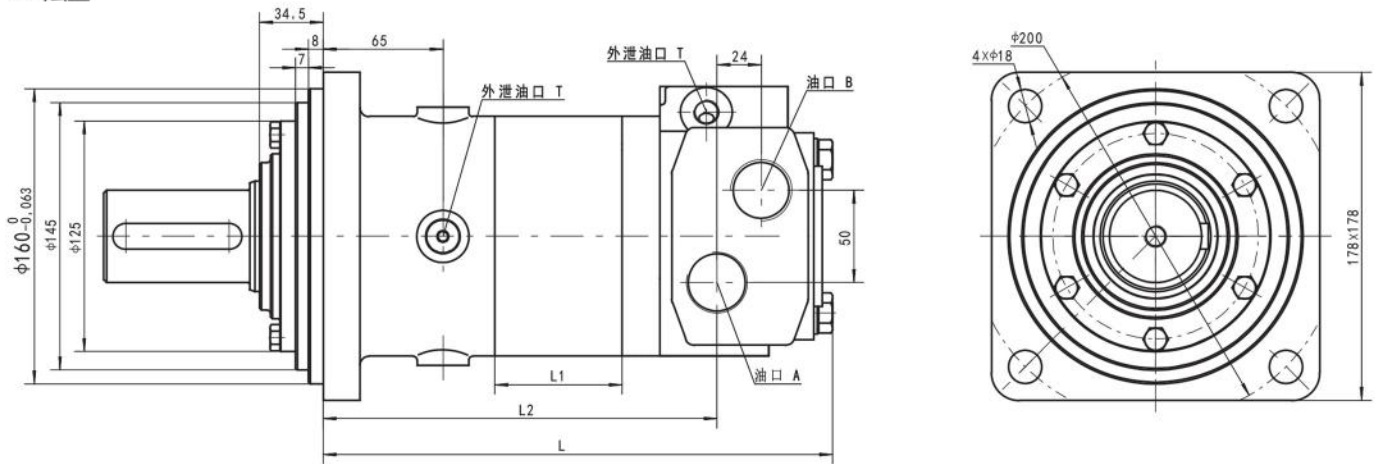
型号	L	L1	L2
BMK6-200	179	21.7	102.5
BMK6-250	185	27.3	108
BMK6-315	192	34.5	115.5
BMK6-400	201	43.4	124.5
BMK6-500	212	54.4	135.5
BMK6-630	226.7	69.1	150.2
BMK6-800	246.5	89	170
BMK6-1000	266.5	108.9	190

输出轴的旋转方向: 标准
当面对马达轴伸方向, A油口为高压油时, 输出轴顺时针方向旋转; 反之, 则逆时针方向旋转。

BMK6安装尺寸图

BMK6 DIMENSION AND MOUNTING DATA

J6 法兰



输出轴的旋转方向:标准

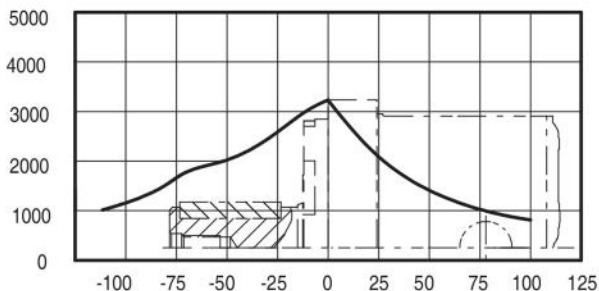
当面对马达轴伸方向, A油口为高压油时, 输出轴顺时针方向旋转; 反之, 则逆时针方向旋转。无单向阀, M14X15外泄油口必须接回油箱

型号	L	L1	L2
BMK6-200	230	21.7	166
BMK6-250	236	27.3	172
BMK6-315	243	34.5	179
BMK6-400	252	43.4	188
BMK6-500	263	54.4	199
BMK6-630	277.5	69.1	213.5
BMK6-800	297.5	89	233.5
BMK6-1000	317.5	108.9	253.5

BMK6 径向受力曲线图

CC、CC1 法兰

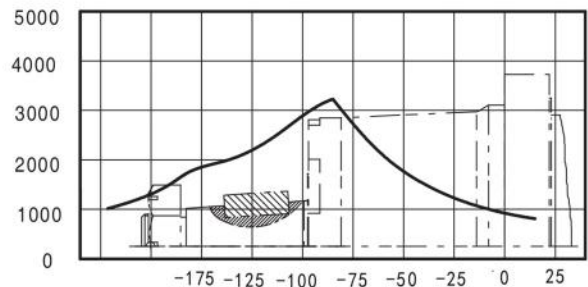
径向载荷 -(daN)



受力点距法兰面距离--(mm)

W 法兰

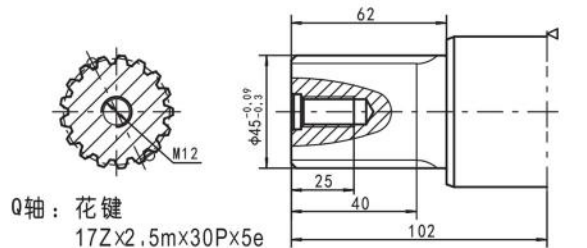
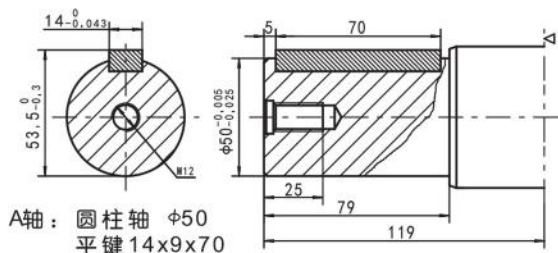
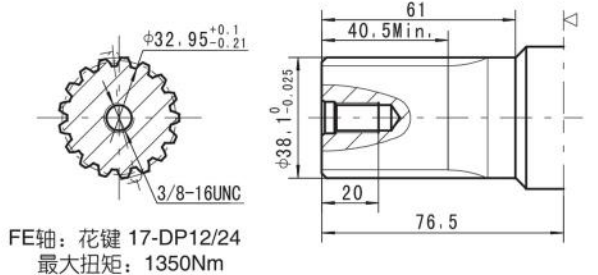
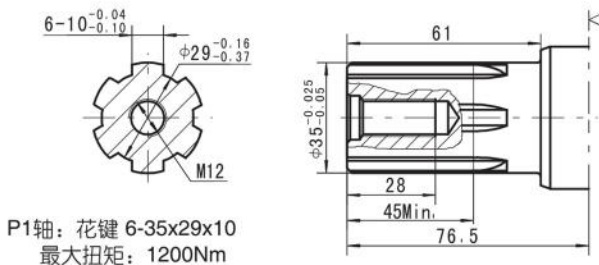
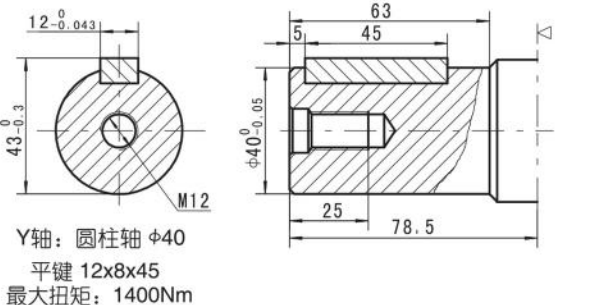
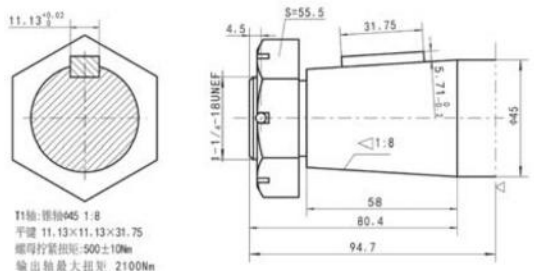
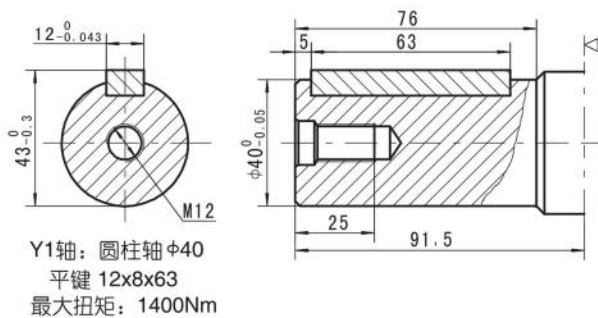
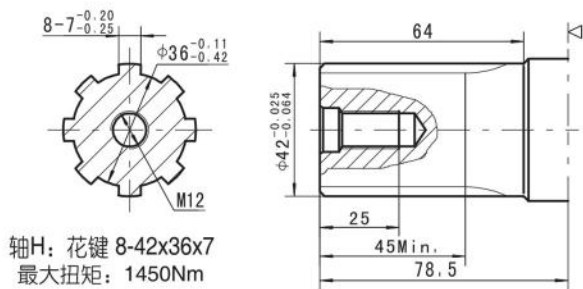
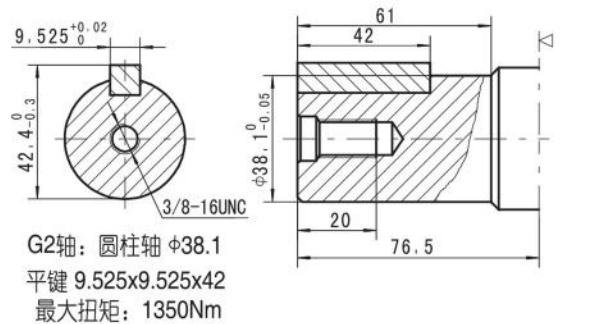
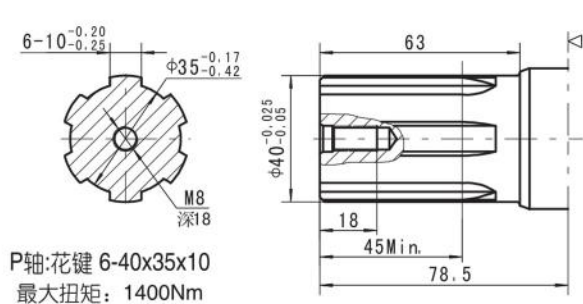
径向载荷-(daN)



受力点距法兰面距离--(mm)

本径向力曲线是在额定扭矩下保证轴承寿命 B_{10} 允许负载得出(2000小时或 12×10^6 转在100rpm工况下), 其它转速工况下须乘以某一系数。

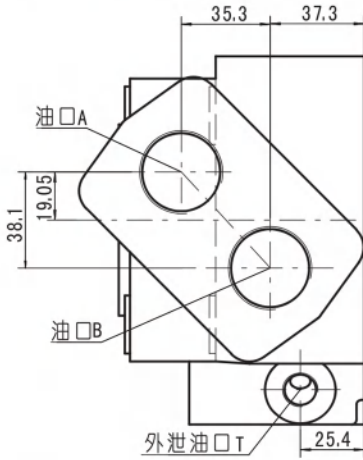
BMK6 轴伸连接尺寸
BMK6 SHAFT EXTENSIONS DIMENSION DATA



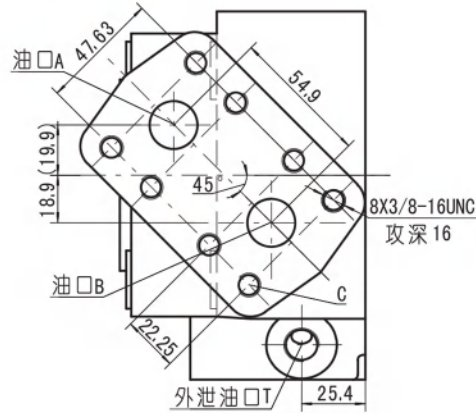
◁ 马达止口安装面

BMK6 油口连接尺寸
BMK6 PORTS DIMENSIONS

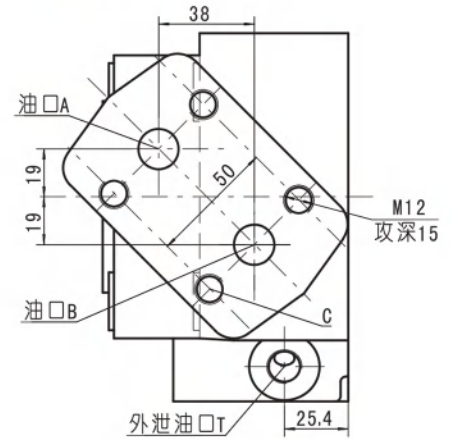
油口代号: SF5、SF6、SF7、SF8



油口代号: SF

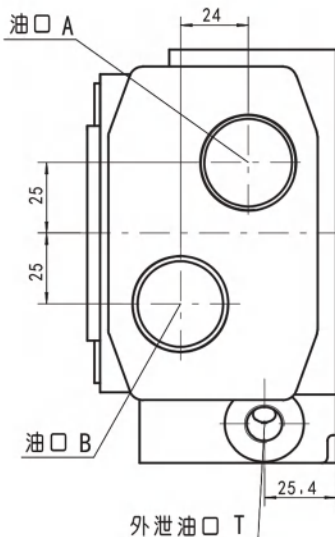


油口代号: SF0

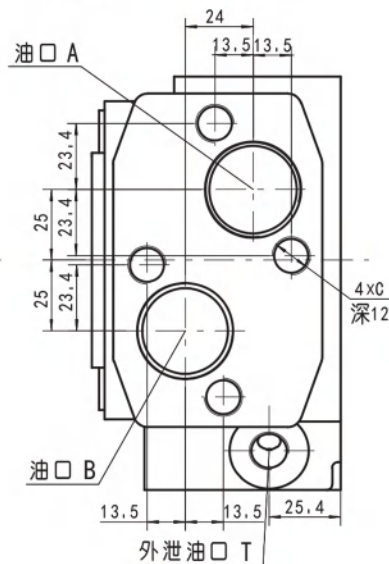


连接形式	代号					
	SF5(深)	SF6(深)	SF7(深)	SF8(深)	SF(深)	SF0(深)
P(A,B)	1-5/16-12UN(18)	M33X2(18)	G1(18)	G3/4(18)	Φ19.05	Φ16
T	7/16-20UNF(12)	M14X1.5(12)	G1/4(12)	G1/4(12)	7/16-20UNF(12)	M14X1.5(12)
C	-	-	-	-	8X3/8-16UNC	4XM12

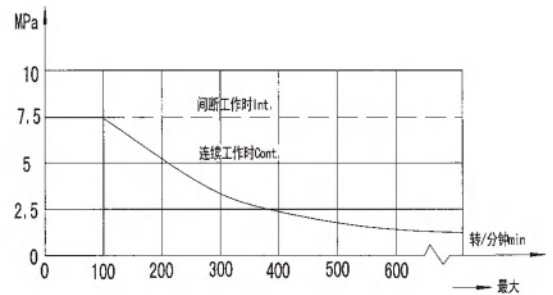
油口代号: S1、M5、G



油口代号: D、D1、M



BMK6 系列标配马达输出轴轴封
允许承受的压力



在无外泄油管的使用中, 输出轴密封圈上的压力微高于回油管路中的压力。当使用外泄油管时, 输出轴密封圈上的压力则与外泄油管路中的压力相同。

连接形式	代号					
	S1(深)	M5(深)	G(深)	D(深)	D1(深)	M(深)
P(A,B)	1-5/16-12UN(18)	M33X2(18)	G1(18)	G1(18)	G3/4(18)	M33X2(18)
T	7/16-20UNF(12)	M14X1.5(12)	G1/4(12)	G1/4(12)	G1/4(12)	M14X1.5(12)
C	-	-	-	4XM12	4XM12	4XM12



订货信息

Order information



1	2	3	4	5	6	7	8
结构代码	排量	法兰、止 Flange, pilot	输出轴 Output Shaft	油口、外泄口 Ports and Drain	旋转工况	油漆选项	特殊功能
	CC	4-Φ13.5 法兰 Φ161.9, 止口 Φ127×12.5	G2 Φ38.1轴, 平键9.52×9.52×57.15 FE Φ40轴, 花键17-DP12/24 Y1 Φ40轴, 平键12×8×63	SF 3/4"板式8x3/8-18UNC, 7/16-20UNF SF0 Φ16板式4xM12, M14x1.5 SF5 1-5/16-12UN, 7/16-20UNF SF6 M33x2, M14x1.5 SF7 G1, G1/4 SF8 G3/4, G1/4			
	CC1	4-Φ13.5 法兰 Φ161.9, 止口 Φ125×12.5	H Φ42轴, 花键8-42×36×7 H1 Φ42轴, 花键8-42×36×7 P Φ40轴, 花键6-42×35×10 P1 Φ35轴, 花键6-35×29×10 T1 Φ45轴, 花键11.13×11.13×31.75				
	W	4-Φ13.5 法兰 Φ184.12, 止口 Φ139.7					
无	200				无	00	
	250				标准	不油漆	
	315				反向	蓝漆	
	400				R	黑漆	
	500					银灰漆	
	630						
	800						
	1000	J6 4×Φ13.5 法兰 Φ200, 止口 Φ160×8	A Φ35轴, 平键14×9×70 Q Φ45轴, 花键17Z×2.5×30P×5e	S1 1-5/16-12UNC, 7/16-20UNF M5 M33x2, M14x1.5 G G1, G1/4 D G1板式4xM12, G1/4 D1 G3/4板式4xM12, G1/4 M M33x2板式4xM12, M14x1.4			

注：用户在使用订货信息时，将马达结构、排量、安装法兰、轴伸、进出油口等信息，选择右面作色部位的代号按上面格式写给我们即可。若所选规格不在上述表中或特殊要求，请与我们联系。



BMER 系列液压摆线马达 BMER SERIES HYDRAULIC MOTOR

BMER series motor adapt the advanced Geroler gear set designed with high speed distribution flow and high pressure, and have good stability in low speed , and can keep high volume efficiency. The unit can be supplied the individual variant in operating multifunction in accordance with requirement of applications.

Characteristic features:

* Advanced manufacturing devices for the Geroler gear set, which use low pressure of start-up, provide smooth and reliable operation and high efficiency.

* The output shaft adapts in needle roller bearings that permit high axial and radial forces. The case can offers capacities of high pressure and high torque in the wide of applications.

* Advanced design in high speed distribution flow, which can automatically compensate in operating with high volume efficiency and long life , provide smooth and reliable operation.

* Lowest leakage rate, most accurate timing methods. Commutator rotates 6x faster than shaft speed. It make the distribution in a high precision reduces life-cycle cost, maintain high volume efficiencies and can run very smoothly at low speed, gear box not required.

主要技术参数 Main Specifaion

类型 Type		BMER 125	BMER 160	BMER 200	BMER 230	BMER 250	BMER 300	BMER 350	BMER 375	BMER 475	BMER 540	BMER 750
排量 Geometric displacement (cm ³ /rev.)		118	156	196	228	257	296	345	371	462	540	745
最高转速 Max. speed (rpm)	cont.	360	375	330	290	290	250	220	200	160	140	100
	int.	490	470	425	365	350	315	270	240	195	170	120
最大扭矩 Max. torque (N•m)	cont.	325	450	530	625	700	810	905	990	1085	980	1050
	int.	380	525	600	710	790	930	1035	1140	1180	1240	1180
	peak	450	590	750	870	980	1120	1285	1360	1260	1380	1370
最大功率 Max. output (kW)	cont.	12.0	15.0	15.5	16.0	17.5	18.0	17.5	16.5	14.5	11.5	8.0
	int.	14.0	17.5	18.0	19.0	20.0	21.0	20.0	19.0	16.5	15.0	10.0
工作压力差 Max. pressure drop (MPa)	cont.	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	17.5	14	10.5
	int.	24	24	24	24	24	24	24	24	19	17.5	12
	peak	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6	20.5	20.5	14
最大流量 Max. flow (L/min)	cont.	45	60	70	70	75	80	80	75	75	75	75
	int.	60	75	85	85	90	95	95	90	90	90	90

*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.



性能参数 Performance Data

BMER125 [118cm³/rev.]

Pressure (MPa)

		Max.cont. Max.int.							
		1.75	3.5	7	10.5	14	17.5	20.5	24
Flow (L/min)	2	20 14	50 13	96 11	137 7				
	4	24 28	53 26	110 24	166 19	221 13			
	8		55 60	113 54	174 50	225 45	266 39	294 35	336 26
	15		53 115	114 110	180 100	234 96	275 90	326 84	348 76
	25		48 194	110 185	164 173	226 168	272 160	323 155	352 149
	34			108 276	166 260	220 244	278 232	315 225	373 217
	45			98 362	160 350	215 342	271 325	308 322	369 303
Max.cont.	53		90 423	152 418	208 404	265 399	304 371		
Max.int.	60		82 488	141 472	205 455	260 442	300 421		

BMER160 [156cm³/rev.]

Pressure (MPa)

		Max.cont. Max.int.							
		1.75	3.5	7	10.5	14	17.5	20.5	24
Flow (L/min)	2	35 8	74 4	146 3	218 3	298 2			
	4	29 22	78 19	157 18	235 16	316 14	370 13	424 8	
	8	35 47	78 44	158 42	236 40	312 37	373 34	450 32	526 27
	15	37 93	74 90	155 86	234 84	310 82	368 79	440 75	517 69
	25		68 155	152 151	227 147	308 142	364 137	436 131	499 124
	34		68 214	152 213	227 210	308 204	364 198	436 191	499 184
	45		64 282	143 280	218 275	296 268	360 263	425 256	481 245
Max.cont.	53		135 330	216 327	293 322	357 315	421 306	476 296	
Max.int.	60		122 379	207 376	284 368	350 362	416 356	467 345	
	68		109 423	196 419	273 414	345 406	156 345		
Max.int.	75		104 472	188 466	270 270	337 450	156 337		

BMER200 [196cm³/rev.]

Pressure (MPa)

		Max.cont. Max.int.							
		1.75	3.5	7	10.5	14	17.5	20.5	24
Flow (L/min)	2	39 8	88 4	132 4	286 3	370 2			
	4	42 16	85 14	188 13	270 11	361 10	427 9	506 6	
	8	43 35	90 32	192 29	291 28	367 27	450 25	529 23	600 19
	15	38 74	92 71	196 68	298 64	381 60	462 58	530 55	602 50
	25		82 124	188 121	283 117	377 113	456 108	528 103	605 92
	34		79 170	183 169	270 167	362 160	447 154	515 146	591 135
	45		163 223	259 218	352 212	441 208	510 199	593 189	
Max.cont.	53		149 260	256 258	350 254	440 248	501 241	582 230	
60		132 299	248 292	336 284	432 276	497 272	575 263		
Max.cont.	68		120 336	230 332	330 327	412 319	486 310	570 301	
Max.int.	75		108 375	208 372	311 365	403 358	480 350		
Max.int.	85			184 425	280 420	380 411	462 390		

BMER230 [228cm³/rev.]

Pressure (MPa)

		Max.cont. Max.int.							
		1.75	3.5	7	10.5	14	17.5	20.5	24
Flow (L/min)	2	44 6	90 4	182 3	291 2	374 1			
	4	48 15	100 13	216 11	310 11	405 9	484 7	549 3	
	8	50 31	104 29	212 27	320 25	421 23	518 20	603 16	700 10
	15	44 63	106 61	207 58	318 55	426 52	529 47	623 41	712 34
	25		101 103	209 100	324 96	428 92	532 87	620 81	705 71
	34		88 145	205 143	316 139	421 133	522 126	623 120	702 109
	45			186 192	294 187	422 182	507 176	595 170	688 160
Max.cont.	53		175 226	290 221	393 215	496 208	584 203	678 194	
60		152 256	270 253	390 248	485 242	569 235	661 222		
Max.cont.	68		140 292	265 288	351 283	482 278	563 273	642 256	
Max.int.	75		124 324	235 321	344 344	448 308	552 300		
Max.int.	85			207 366	335 360	442 351	546 338		

Torque (N·m) 380
Speed (rpm) 411

cont.
int.



BMER250 [257cm³/rev.]

Pressure (MPa)

		1.75	3.5	7	10.5	14	17.5	20.5	24	Max.cont.	Max.int.
Flow (L/min)	2	48 5	111 2								
	4	54 12	113 11	237 10	362 9	471 8	570 6	642 3			
	8	54 27	115 26	244 24	366 22	482 20	587 18	688 14			
	15	50 57	113 56	256 54	367 51	485 48	591 45	692 43	794 37		
	25	44 95	114 93	241 90	360 86	488 82	593 77	699 72	782 63		
	34		95 129	226 125	348 121	481 116	590 111	686 106	774 96		
	45		77 174	215 173	346 170	468 166	572 161	674 155	779 143		
	53		66 203	200 202	325 200	448 196	564 190	657 184	756 175		
	60			180 232	296 229	438 225	550 220	642 215	741 202		
	68			162 262	294 261	415 257	548 250	637 241	730 228		
Max.cont.	75		137 290	274 289	388 388	520 280	618 273	726 260			
85			130 328	261 326	370 322	509 316	604 307				
Max.int.	90			85 348	224 347	358 344	490 336				

BMER300 [296cm³/rev.]

Pressure (MPa)

		1.75	3.5	7	10.5	14	17.5	20.5	24	Max.cont.	Max.int.
Flow (L/min)	2	50 3	93 1								
	4	62 11	141 10	294 9	429 8	502 7	618 4				
	8	63 22	147 21	298 20	432 19	565 16	667 13	761 9	819 5		
	15	66 48	144 47	305 45	427 43	568 39	671 33	810 28	894 20		
	25	59 82	138 81	289 80	420 76	552 71	676 64	791 56	932 44		
	34	48 113	130 112	297 110	393 107	562 102	689 96	805 86	926 73		
	45		96 150	268 149	385 148	527 143	636 135	753 124	880 112		
	53		76 177	242 176	383 175	524 173	631 165	758 152	900 138		
	60		64 200	225 199	362 198	506 193	627 186	753 174	892 162		
	68			200 225	333 224	470 222	630 212	750 201	882 194		
Max.cont.	75			178 251	322 250	464 240	610 240	741 232	870 215		
85				140 285	316 284	455 278	570 270	728 257			
Max.int.	95			106 316	260 314	431 311	552 307	700 292			

BMER350 [345cm³/rev.]

Pressure (MPa)

		1.75	3.5	7	10.5	14	17.5	20.5	24	Max.cont.	Max.int.
Flow (L/min)	2	63 4	133 4								
	4	64 10	135 9	290 8	440 7						
	8	68 21	146 20	310 20	458 19	589 18	735 16	847 12			
	15	72 42	150 41	314 40	468 39	627 37	769 35	880 32	984 26		
	25	63 70	148 69	313 68	470 66	628 63	765 60	892 55	1018 46		
	34	52 97	133 96	304 95	455 93	619 89	760 85	905 78	1034 68		
	45		100 129	261 128	442 127	583 125	736 118	887 112	1028 101		
	53		85 152	247 150	418 148	566 145	715 139	880 132	1024 118		
	60		65 171	233 170	410 169	550 167	712 162	842 155	996 143		
	68			218 195	387 194	543 190	696 185	825 175	976 162		
Max.cont.	75			206 215	373 214	515 206	680 206	822 197	966 183		
85				176 243	355 242	510 239	679 234	808 227			
Max.int.	95				353 272	509 269	645 265				

BMER375 [371cm³/rev.]

Pressure (MPa)

		1.75	3.5	7	10.5	14	17.5	20.5	24	Max.cont.	Max.int.
Flow (L/min)	2	75 3									
	4	83 8	160 8	330 7	488 6	636 5	761 3				
	8	81 18	170 17	356 17	527 16	679 14	822 12	948 9	1060 5		
	15	76 39	162 38	356 37	533 35	683 32	845 29	978 25	1102 18		
	25	68 65	156 64	350 62	524 59	680 55	857 48	994 44	1138 35		
	34	58 90	148 89	339 87	506 83	690 77	841 71	993 63	1145 53		
	45		121 120	302 119	478 117	650 113	813 108	972 100	1134 90		
	53		95 141	282 140	466 138	628 134	785 128	934 120	1103 105		
	60		75 161	264 161	428 160	592 158	766 155	925 151	1070 141		
	68			232 182	422 180	585 176	756 169	901 161	1066 148		
Max.cont.	75			207 201	380 200	556 556	738 190	865 181	1012 165		
85				175 228	370 226	526 221	700 216	832 206			
Max.int.	90			148 242	316 240	500 237	654 226				

Torque (N•m) 645
Speed (rpm) 265

□ cont.
■ int.



BMER475 [462cm³/rev.]

Pressure (MPa)

	1.75	3.5	7	10.5	14	17.5	20.5
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Flow (L/min)	Max.cont.						
	1.75	3.5	7	10.5	14	17.5	20.5
2	93 2	186 1					
4	98 7	202 6	405 5	608 5	805 4		
8	98 15	206 14	430 13	652 13	844 12	1005 10	1180 8
15	94 31	202 30	441 28	654 28	875 26	1056 23	1238 20
25	94 52	202 51	441 48	654 45	875 43	1056 39	1238 35
34	75 72	180 71	420 68	660 65	850 61	1085 55	1266 44
45		144 96	380 95	627 93	835 90	1062 84	1261 73
53		116 113	346 112	573 111	795 107	1008 102	1212 90
60		82 128	318 128	539 127	790 124	975 119	1186 110
68		58 146	272 145	520 144	740 141	955 136	1156 125
75			230 161	480 160	702 702	920 153	1116 140
85			200 182	454 180	662 177	876 168	
90			150 194	378 193	615 190	840 182	

BMER540 [540cm³/rev.]

Pressure (MPa)

	1.75	3.5	7	10.5	14	17.5
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Flow (L/min)	Max.cont.					
	1.75	3.5	7	10.5	14	17.5
2	105 2	198 2				
4	125 6	231 5	470 5	688 4	932 4	1136 3
8	134 13	238 13	496 12	749 11	966 11	1175 8
15	122 27	230 26	505 26	750 25	981 24	1218 21
25	100 44	225 43	500 42	774 41	986 39	1220 35
34	80 62	212 61	481 60	748 58	977 54	1243 49
45		173 82	437 82	714 81	936 79	1190 75
53		142 97	416 97	678 96	938 94	1170 89
60		106 110	380 110	664 109	896 108	1158 106
68		85 125	357 124	616 124	870 123	1108 120
75			318 138	600 137	826 826	1100 132
85			292 154	538 153	780 152	
90			214 169	486 168	755 168	

Torque (N•m) 486
Speed (rpm) 168

BMER750 [745cm³/rev.]

Pressure (MPa)

	1.75	3.5	7	10.5	12	14
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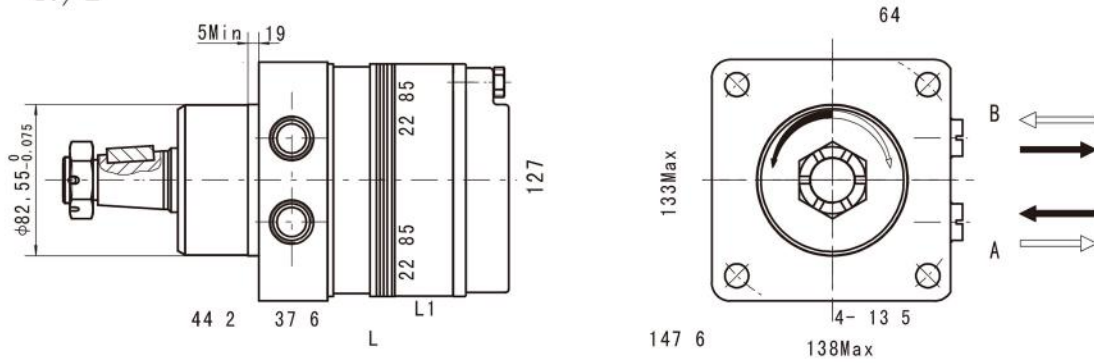
Flow (L/min)	Max.cont.					
	1.75	3.5	7	10.5	12	14
2	145 2	280 1				
4	160 4	321 4	654 4	960 3	1115 3	1312 2
8	162 9	335 9	688 9	1026 8	1159 8	1347 7
15	156 19	330 19	694 18	1047 18	1184 17	1376 16
25	142 32	320 31	688 30	1046 30	1179 29	1373 27
34	110 44	288 44	658 42	1021 41	1169 40	1366 37
45	71 60	242 59	620 59	982 58	1143 58	1345 55
53		202 70	568 69	941 68	1105 67	1308 66
60		140 79	527 78	898 77	1086 76	1286 74
68		100 90	486 90	852 89	1034 88	1251 87
75		65 99	425 99	812 98	980 97	1178 96
83			395 110	745 109	906 108	
90			298 120	660 119	800 117	

cont.
int.

BMER-1 安装连接尺寸
BMER-1 DIMENSIONS MOUNTING DATA

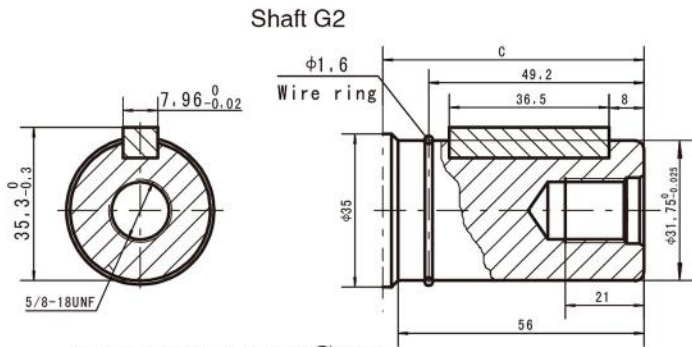
Wheel Mount

Code: Port A, B
WS 7/8-14UNF
WP 1/2-14NPTF
WD G1/2

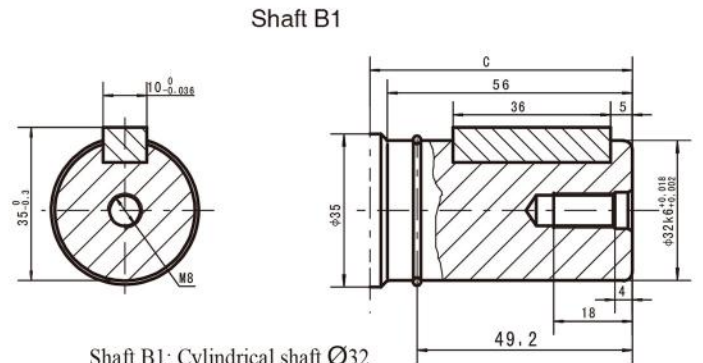


Displacement (cm ³ /rev.)	125	160	200	230	250	300	350	375	475	540	750
L1(mm)	10.2	13.5	17	19.5	22	25.4	29.5	31.8	39.4	47.3	63.5
L(mm)	119	122	125.5	128	130.5	134.5	138	140.5	148	156	176
Weight(kg)	12	12.1	12.3	12.4	12.6	13	13.2	13.5	14	14.6	16

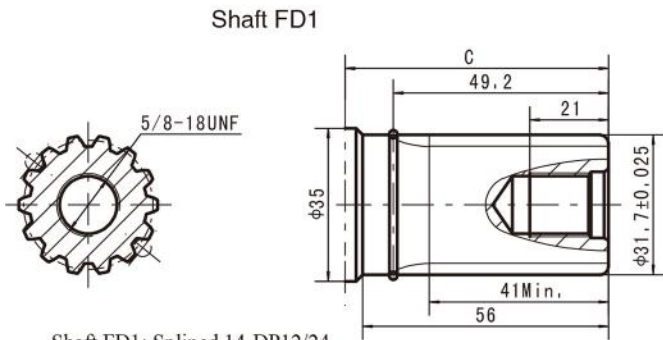
BMER-1 轴伸连接尺寸
BMER-1 SHAFT EXTENSIONS DIMENSIONS DATA



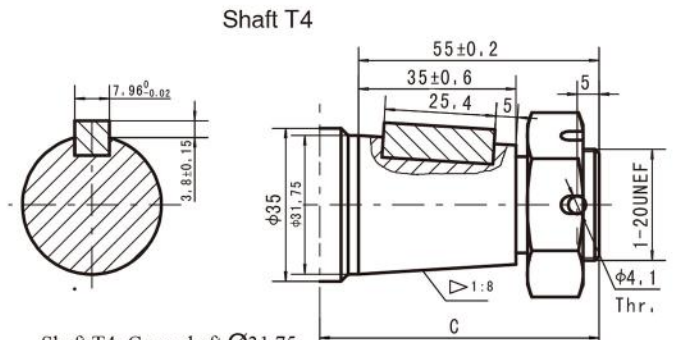
Shaft G2: Cylindrical shaft $\varnothing 31.75$
Parallel key 7.96x7x36.5



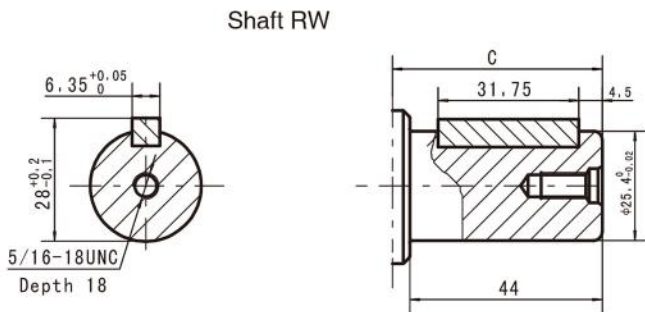
Shaft B1: Cylindrical shaft $\varnothing 32$
Parallel key 10x8x36



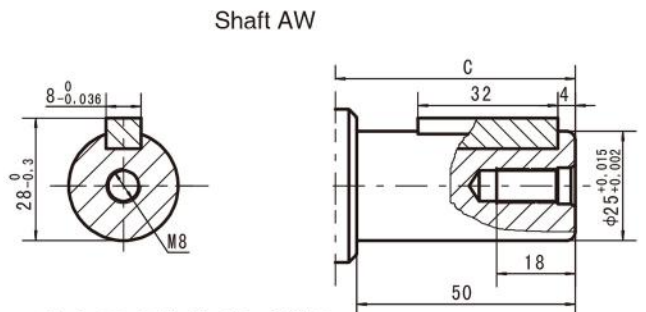
Shaft FD1: Splined 14-DP12/24
Flat root side fit
to fit ANSI B92.1 1996



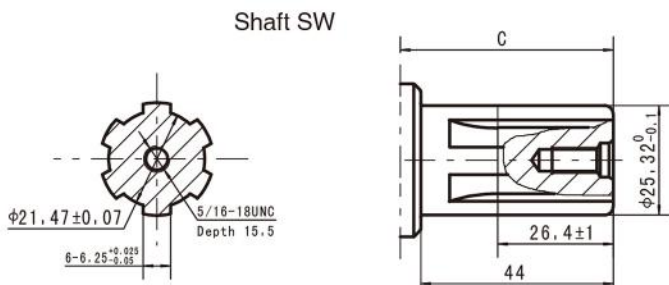
Shaft T4: Cone-shaft $\varnothing 31.75$
Parallel key 7.96x7.96x25.4
Tightening torque: 200±10Nm



Shaft RW: Cylindrical shaft $\varnothing 25.4$
Parallel key 6.35x6.35x31.75



Shaft AW: Cylindrical shaft $\varnothing 25$
Parallel key 8x7x32

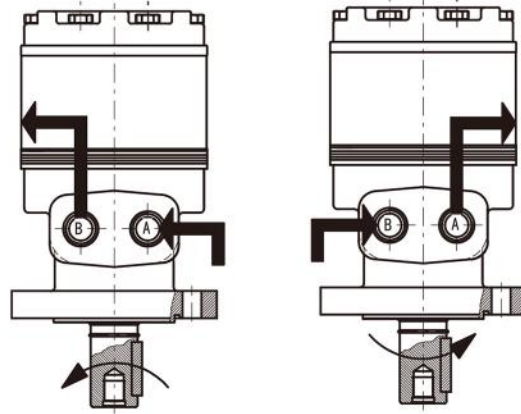
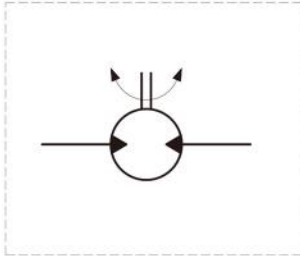


Shaft SW: Splined SAE 6B

From Mounting Flange to Shaft End		
Dimension C		
Shaft Code	Magneto Mount (mm)	Wheel Mount (mm)
G2	61	103
B1	61	103
FD1	61	103
T4	65	107
RW	50	91
AW	56	97
SW	50	91

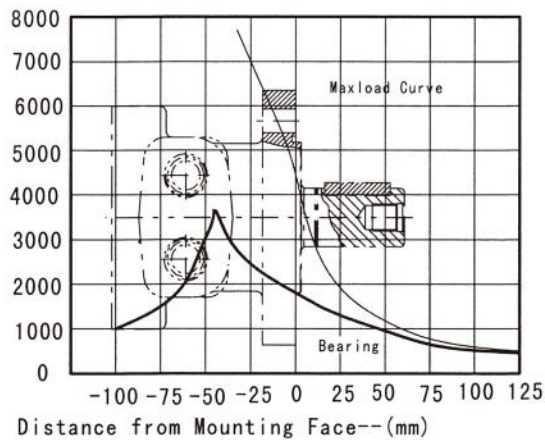
BMER-1 Series Hydraulic Motor

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

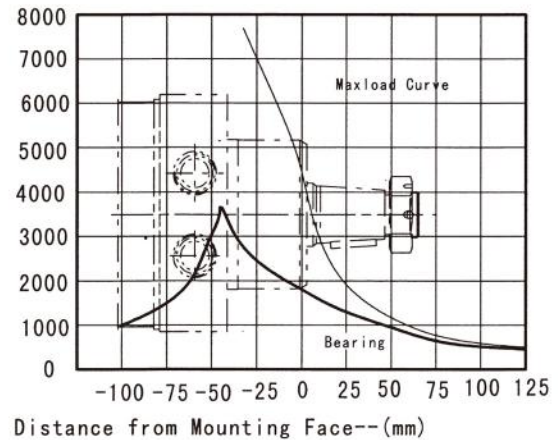


Axial and Radial forces

BMER-1 for M#/F# Mounting
Side Load-(daN)



BMER-1 for W# Mounting
Side Load-(daN)



The bearing curve represents allowable bearing loads for an L^{10} bearing life at 3×10^6 revolutions.
The maximum load curve is defined by bearing static load capacity. This curve should not be exceeded at any time including shock loads.



订货信息

Order Information

BMER- 1 - 2 - 3 - 4 - 5 - 6 - 7

Pos.1	2	3	4	5	6	7				
Code	排量 Disp.	法兰, 止口, 油口 Flange , Pilot , Port	轴键 Output Shaft	Rotation direction	Paint	Unusually function				
1	MS	4-013.5 Magneto Mount, Pilot 082.55x2.8, Ports 7/8-14 O-ring	轴键 Output Shaft	None	No paint	Unusually function				
	MP	4-013.5 Magneto Mount, Pilot 082.55x2.8, Ports 1/2-14NPTF								
	MD	4-013.5 Magneto Mount, Pilot 082.55x2.8, Ports G1/2								
	FS	6-013.5 Magneto Mount, Pilot 082.55x2.8, Ports 7/8-14 O-ring								
	FP	6-013.5 Magneto Mount, Pilot 082.55x2.8, Ports 1/2-14NPTF								
	FD	6-013.5 Magneto Mount, Pilot 082.55x2.8, Ports G1/2								
	FH	6-013.5 Magneto Mount, Pilot 082.55x2.8, Manifold Ports 1/2								
	WS	4-013.5 Wheel Mount, Pilot 082.55x5, Ports 7/8-14 O-ring								
	WP	4-013.5 Wheel Mount, Pilot 082.55x5, Ports 1/2-14NPTF								
	WD	4-013.5 Wheel Mount, Pilot 082.55x5, Ports G1/2								
	G2						Shaft Ø31.75 , parallel key 7.96x7.96x31.75	Standard	00	
	B1						Shaft Ø32, Parallel key 10x8x45	Reverse	None	None
	FD1						Shaft Ø31.75, splined key 14-DP12/24	Timed	B	Black
T4		Cone-Shaft Ø31.75, Parallel key 7.96x7.96x25.4		S	Silver Grey					
RW		Shaft Ø25.4 , parallel key 6.35x6.35x31.75								
AW		Shaft Ø25.4 , parallel key 8x7x32								
SW		Shaft Ø25.4 ,splined key SAE 6B								

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.

企业荣誉 Enterprise honor

