



BMS 系列液压马达

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.

Main Specifaion

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
Geometric displacement (cm ³ /rev.)		80.6	100.8	125	157.2	200	252	314.5	370
Max. speed (rpm)	cont.	800	748	600	470	375	300	240	200
	int.	988	900	720	560	450	360	280	240
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
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
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
Max. flow (L/min)	cont.	65	75	75	75	75	75	75	75
	int.	80	90	90	90	90	90	90	90
Max. inlet pressure (MPa)	cont.	25	25	25	25	25	25	25	25
	int.	30	30	30	30	30	30	30	30
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.



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BMS 系列液压马达 BMS SERIES HYDRAULIC MOTOR

Performance Data

BMS 80 [80.6cm³/rev.]

Pressure (MPa)

		3.5	7	10.5	14	Max.cont. 17.5	21	Max.int. 22.5
Flow (L/min)	15	35	80	120	158	195	235	249
		180	174	168	164	158	151	143
	30	35	80	120	158	195	240	260
		362	352	346	338	330	322	310
40		35	79	119	155	193	234	250
		482	473	464	453	444	434	415
50		30	77	117	153	192	232	248
		602	594	587	569	560	551	522
Max.cont. 60		28	77	117	153	192	232	247
		724	713	707	683	673	664	629
Max.int. 65		25	75	114	152	190	230	245
		790	785	770	760	742	720	704
		22	70	110	140	170	200	220
80		980	965	950	920	891	860	830

BMS 100 [100.8cm³/rev.]

Pressure (MPa)

		3.5	7	10.5	14	Max.cont. 17.5	21	Max.int. 22.5
Flow (L/min)	15	48	95	150	200	250	289	310
		146	144	139	135	130	120	105
	30	45	94	146	198	250	295	317
		291	289	278	274	269	258	242
40		43	89	142	196	248	293	316
		387	384	374	359	350	335	320
50		40	88	135	194	247	292	315
		486	483	473	462	450	430	420
Max.cont. 60		37	88	132	185	244	289	312
		588	584	574	562	550	538	520
Max.int. 75		35	80	130	180	240	286	310
		740	735	720	705	696	676	653
		30	75	124	170	236	277	303
90		850	840	810	787	770	750	747

BMS 125 [125cm³/rev.]

Pressure (MPa)

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

BMS 160 [157.2cm³/rev.]

Pressure (MPa)

		3.5	7	10.5	14	Max.cont. 17.5	21	Max.int. 22.5
Flow (L/min)	15	70	140	205	305	371	430	473
		91	88	84	78	76	74	58
	30	75	150	214	321	380	427	490
		185	182	176	168	164	162	152
40		70	150	215	320	378	425	488
		248	244	239	229	224	217	204
50		65	145	215	316	378	425	482
		312	308	304	294	288	280	270
Max.cont. 60		65	145	214	315	375	424	482
		375	371	365	357	346	336	323
Max.int. 75		60	138	208	311	375	420	
		470	465	458	447	436	426	
		56	130	200	308	370	414	
90		564	559	551	541	526	517	

Torque (N·m) 309
Speed (rpm) 644

cont.
int.

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Performance Data

		BMS 200 [200cm³/rev.]					
		Pressure (MPa)					
		3.5	7	10.5	14	17.5	22.5
Flow (L/min)	15	89	190	295	400	484	608
	30	73	71	68	64	60	52
	40	87	190	294	399	485	600
	50	148	146	143	140	135	127
	60	86	188	292	397	483	594
	75	193	191	189	186	181	172
Max.int.	90	80	184	290	395	480	590
	Max.cont.	247	245	243	240	235	226
	Max.int.	74	178	286	390	475	582
Max.int.	90	298	295	293	290	284	273
	Max.cont.	58	160	275	375	460	570
	Max.int.	372	369	365	362	358	346
Max.int.	90	49	148	260	355	445	555
	Max.cont.	440	435	430	422	411	401
	Max.int.						

		BMS 250 [252cm³/rev.]					
		Pressure (MPa)					
		3.5	7	10.5	14	17.5	22.5
Flow (L/min)	15	117	230	355	52	450	554
	30	58	55	350	51	47	46
	40	117	225	112	446	560	657
	50	118	117	348	109	107	106
	60	115	225	152	442	552	650
	75	160	156	345	150	146	142
Max.int.	90	110	220	198	438	546	645
	Max.cont.	202	200	340	196	195	192
	Max.int.	105	220	237	435	542	642
Max.int.	90	242	239	338	234	231	229
	Max.cont.	95	215	293	430	537	638
	Max.int.	300	296	332	286	282	278
Max.int.	90	90	205	348	420	530	632
	Max.cont.	360	354		340	332	326
	Max.int.						

		BMS 315 [314.5cm³/rev.]					
		Pressure (MPa)					
		3.5	7	10.5	12	14	18.5
Flow (L/min)	15	160	320	465	555	650	748
	30	48	47	45	43	40	38
	40	165	322	468	560	658	752
	50	94	92	90	89	86	85
	60	160	310	457	546	642	741
	75	125	123	120	118	116	115
Max.int.	90	155	305	450	538	637	736
	Max.cont.	158	156	153	150	147	145
	Max.int.	152	302	442	532	632	732
Max.int.	90	175	174	170	164	162	159
	Max.cont.	145	295	436	525	628	726
	Max.int.	236	234	230	227	225	222
Max.int.	90	132	280	430	520	622	723
	Max.cont.	285	282	280	276	273	270
	Max.int.						

		BMS 375 [370cm³/rev.]					
		Pressure (MPa)					
		3.5	7	9	10	12	14
Flow (L/min)	15	185	362	474	512	588	660
	30	40	39	38	37	35	33
	40	184	364	475	514	590	661
	50	80	78	77	76	74	72
	60	180	362	473	513	588	659
	75	106	104	103	102	100	97
Max.int.	90	160	360	472	511	586	658
	Max.cont.	133	131	130	129	128	125
	Max.int.	150	359	471	510	585	657
Max.int.	90	157	156	155	154	152	150
	Max.cont.	130	353	465	504	584	651
	Max.int.	200	198	196	195	194	193
Max.int.	90	105	350	462	500	580	647
	Max.cont.	238	235	234	232	230	227
	Max.int.						

Torque (N·m) 520
Speed (rpm) 276

cont.
int.

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BMS DIMENSIONS AND MOUNTING DATA

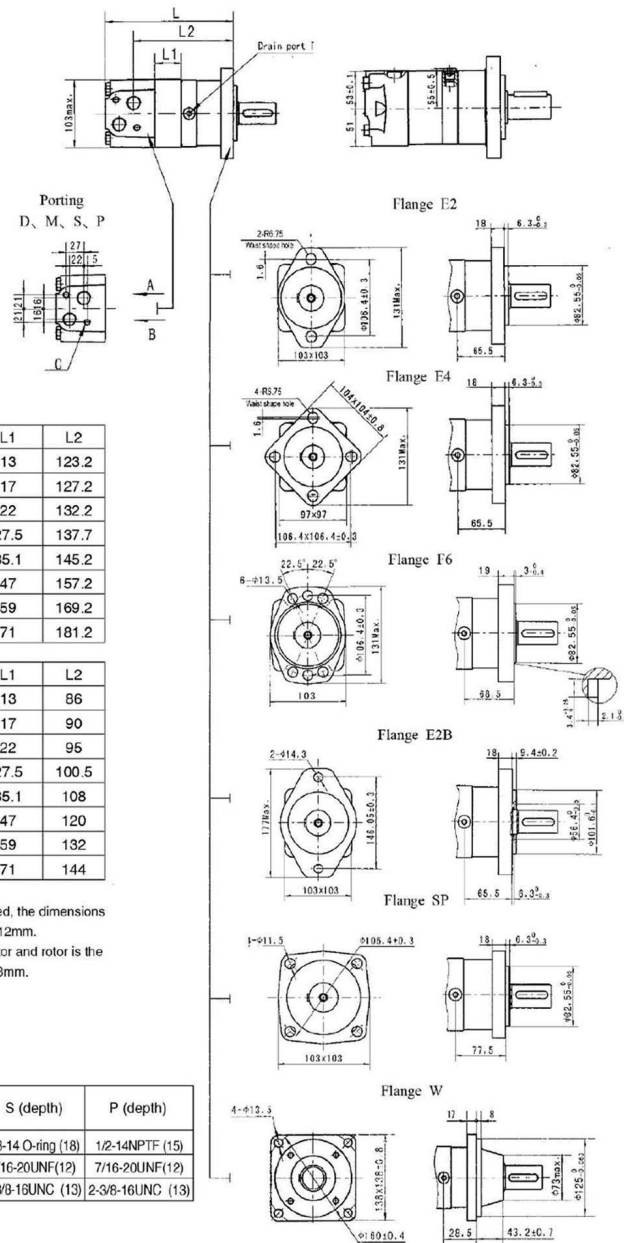
Model	L	L1	L2
BMS-80	167	13	123.2
BMS-100	171	17	127.2
BMS-125	176	22	132.2
BMS-160	181.5	27.5	137.7
BMS-200	189	35.1	145.2
BMS-250	201	47	157.2
BMS-315	213	59	169.2
BMS-375	225	71	181.2

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 plus 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)



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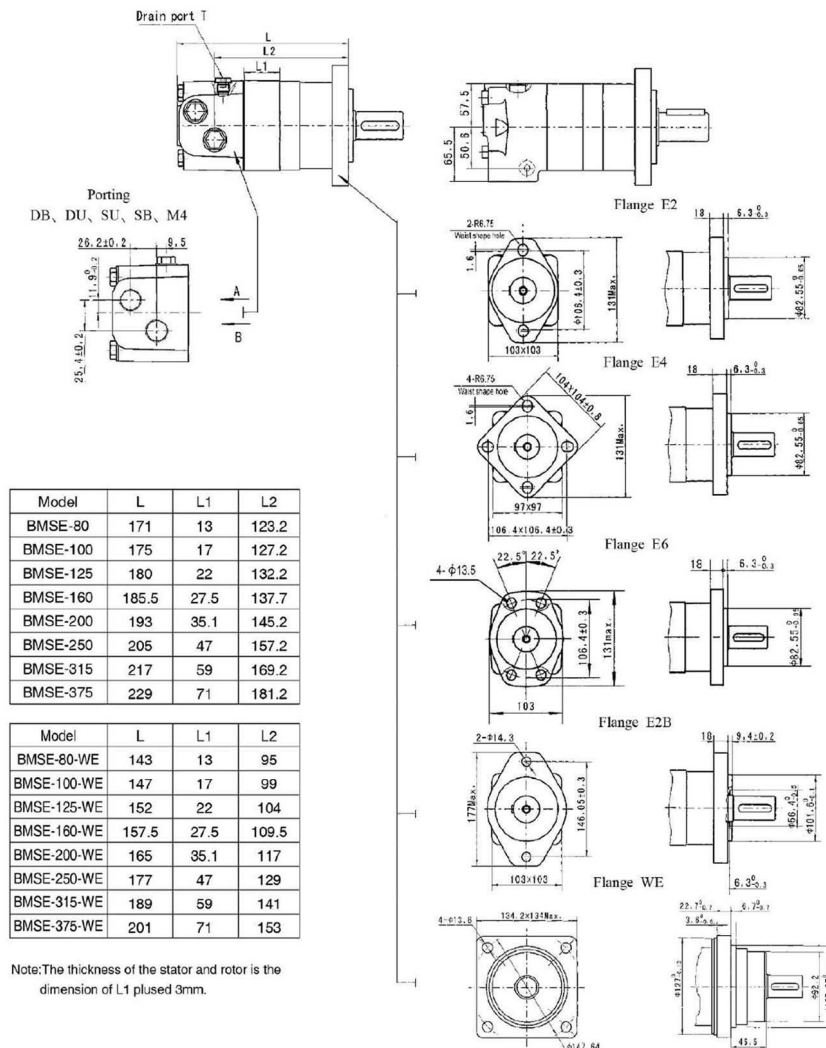
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BMSE DIMENSIONS AND MOUNTING DATA



Code Mounting	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)

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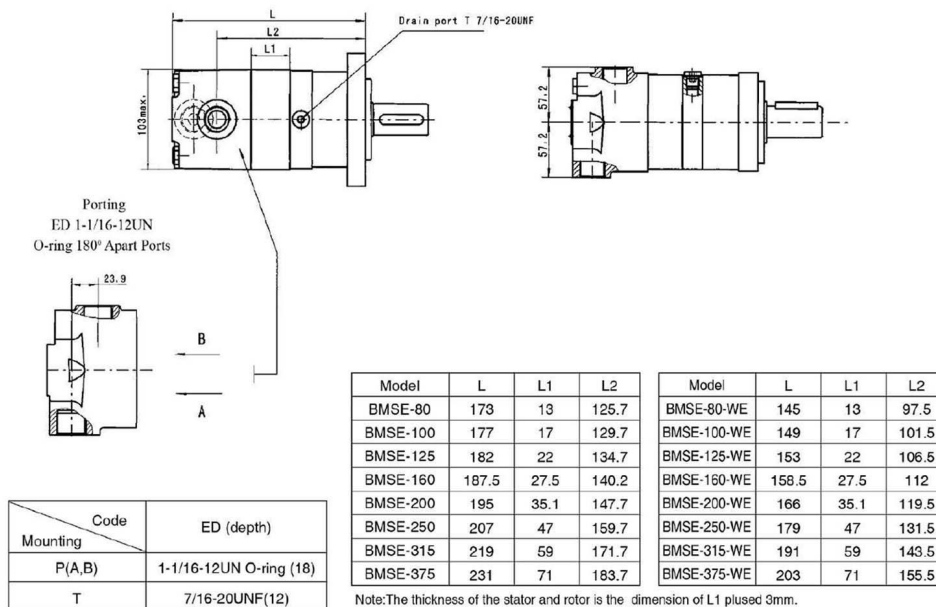
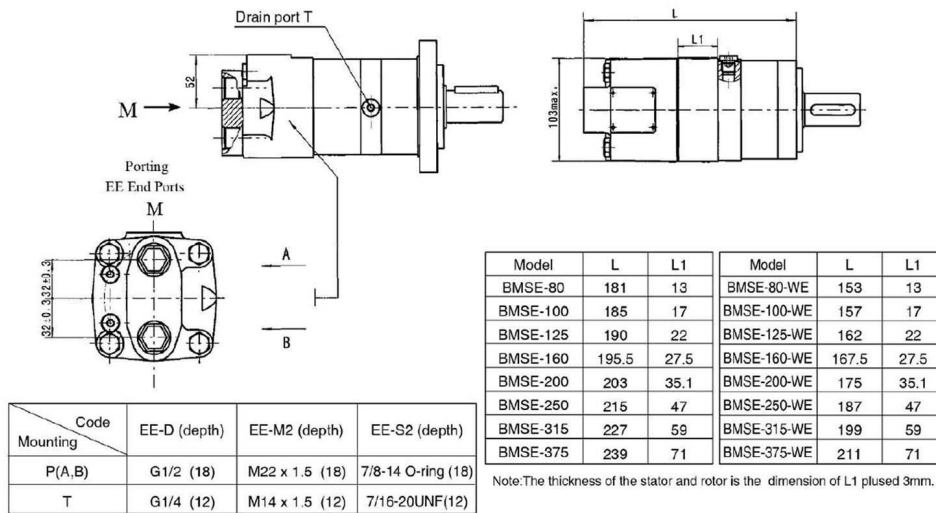
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BMSE DIMENSIONS AND MOUNTING DATA



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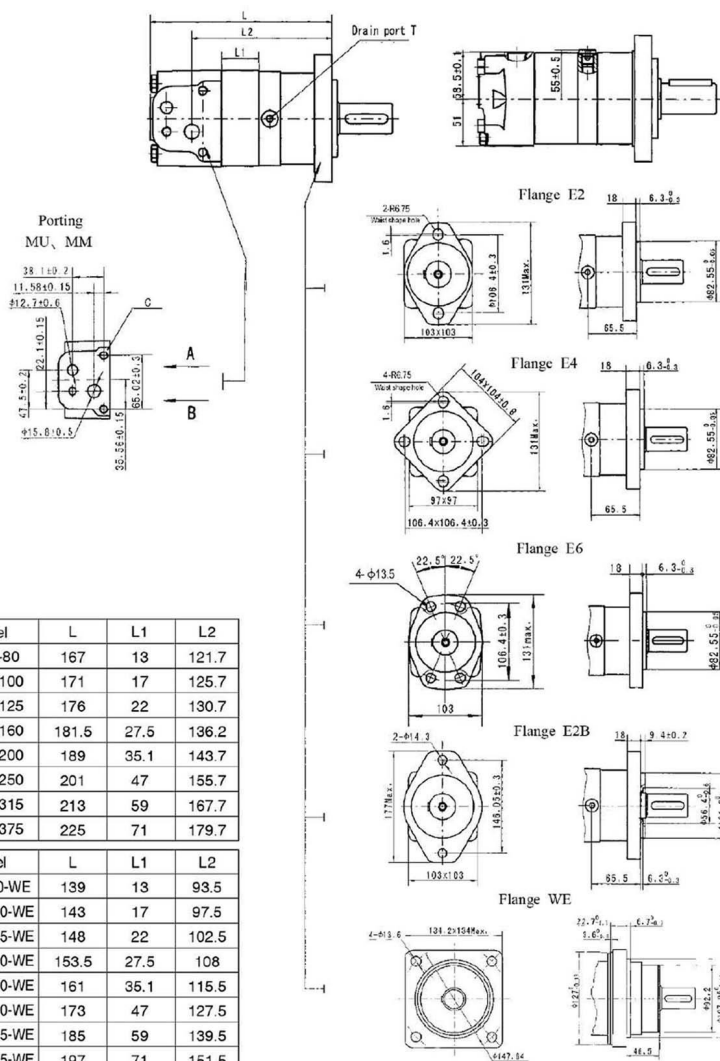
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BMS 系列液压马达 BMS SERIES HYDRAULIC MOTOR

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 plus 3mm.

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

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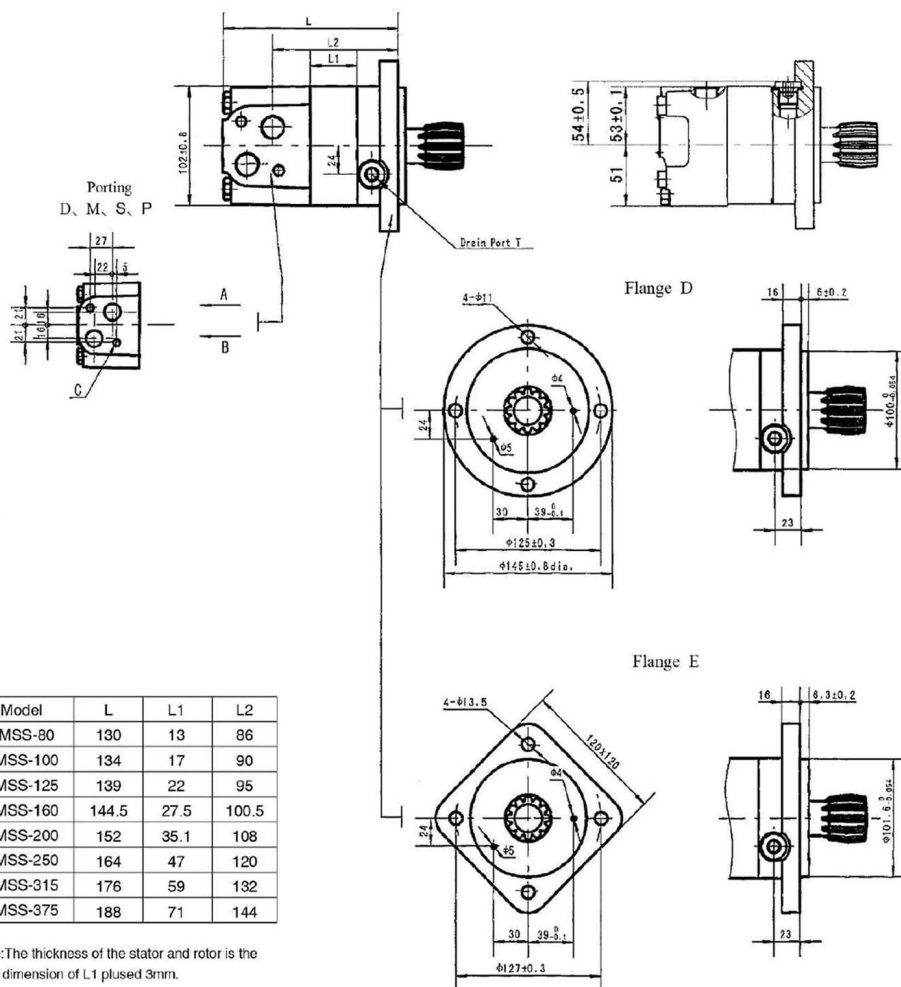
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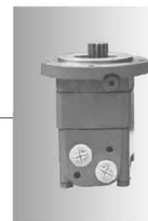
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BMSS DIMENSIONS AND MOUNTING DATA



Code	D (depth)	M (depth)	S (depth)	P (depth)
P(A,B)	G1/2 (18)	M22 x 1.5 (18)	7/8-14 C-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)

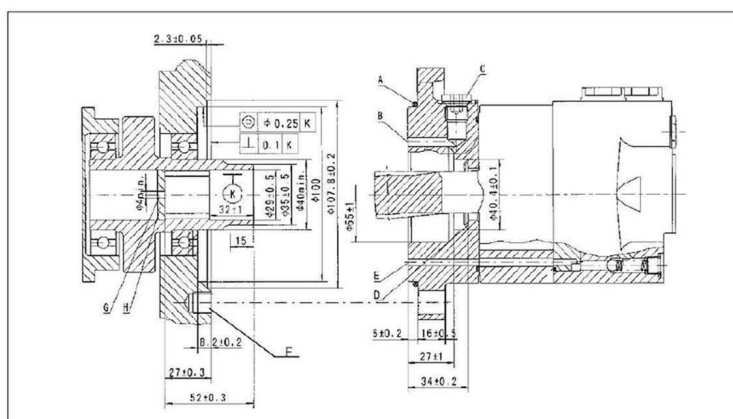
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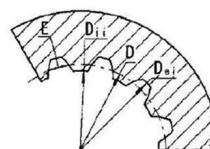
BMSS DIMENSIONS AND MOUNTING DATA



- 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

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	ø25.4
Major Dia.	D_{a}	ø28 ^{+0.1} _{-0.1}
Minor Dia.	D_{f}	ø23 ^{+0.033} ₀
Space Width [Circular]	E	4.308 ± 0.02



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



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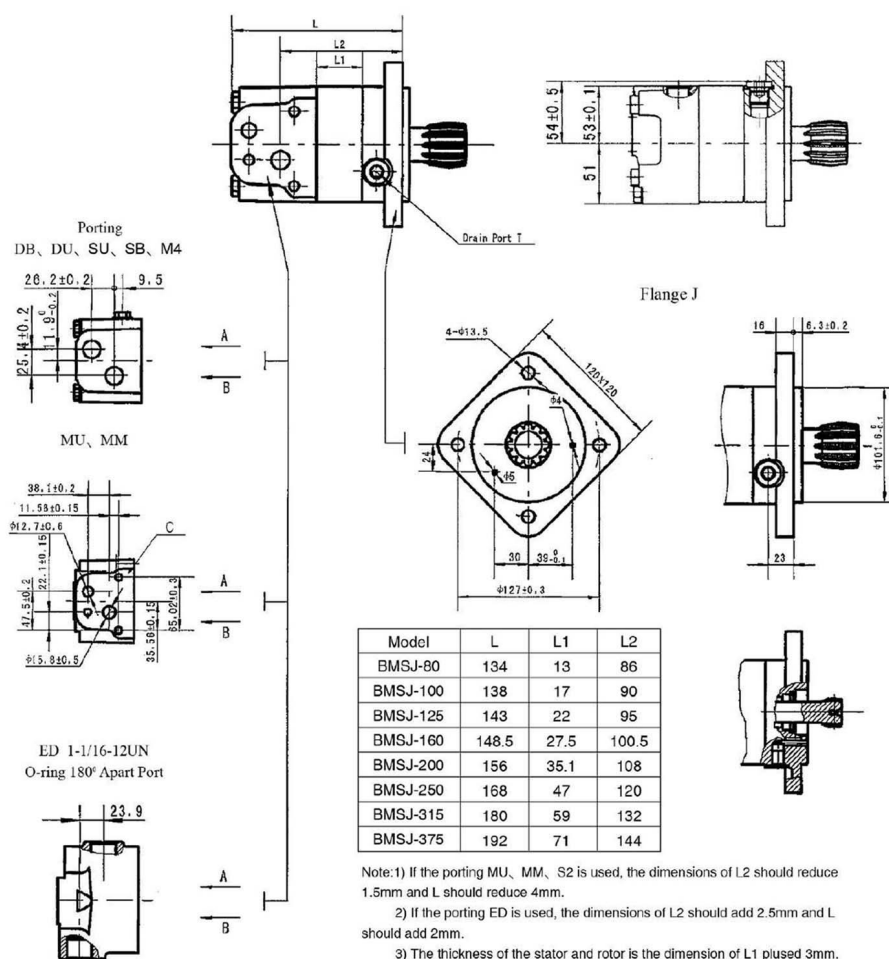
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BMSJ DIMENSIONS AND MOUNTING DATA



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	--

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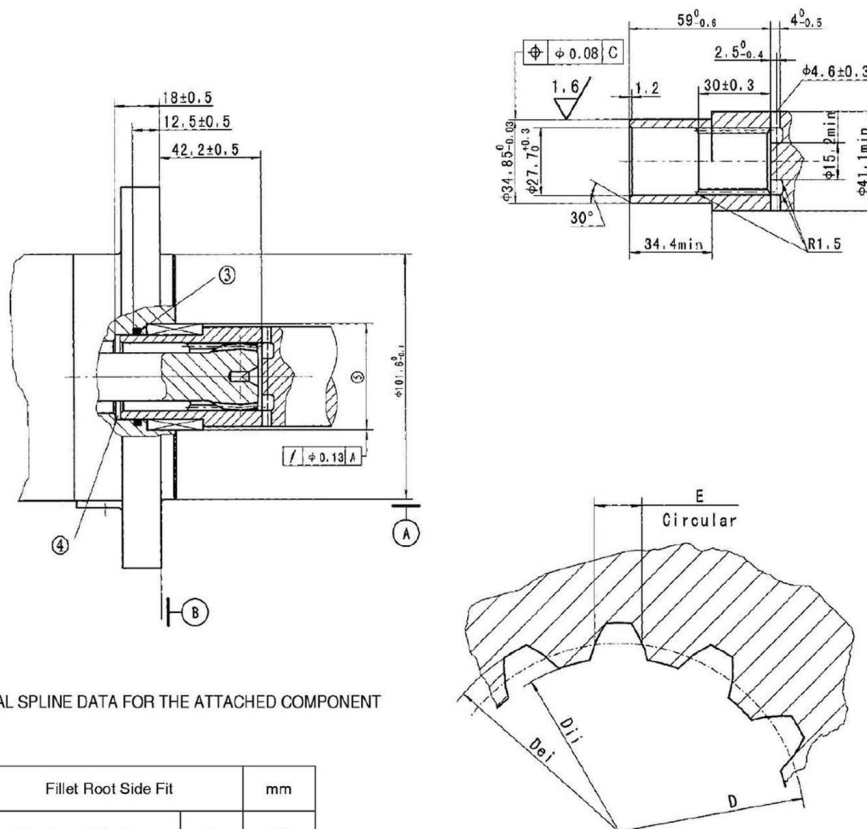
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BMS 系列液压马达 BMS SERIES HYDRAULIC MOTOR

BMSJ DIMENSIONS AND MOUNTING DATA



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	$\phi 25.4$
Major Dia.	D_{ei}	$\phi 27.6^{+0.14}_{-0.12}$
Minor Dia.	D_i	$\phi 23.1^{+0.12}_{-0.10}$
Space Width [Circular]	E	4.282 ± 0.036
Dimension between two pins($\phi 3.36$)	M_o	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 [0.030-0.040] (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.

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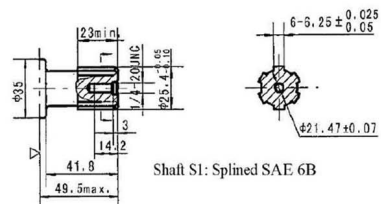
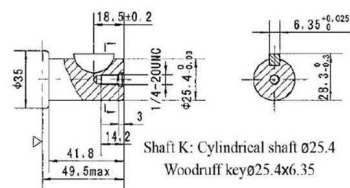
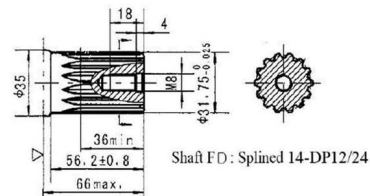
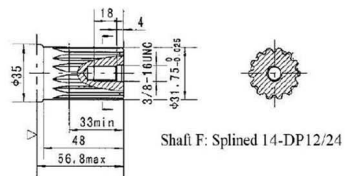
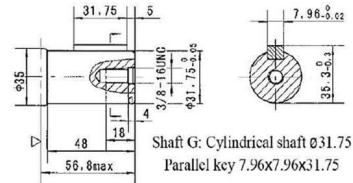
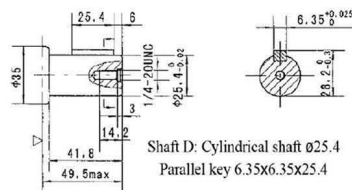
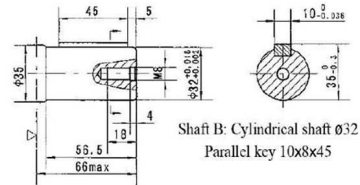
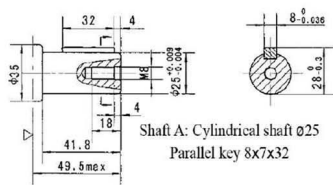
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SHAFT EXTENSIONS FOR BMS(E) MOTORS



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

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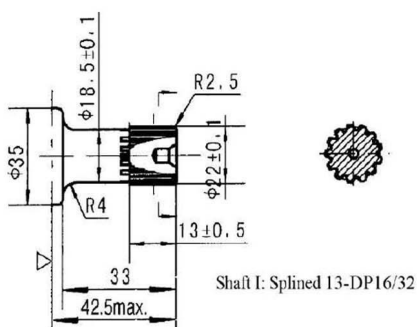
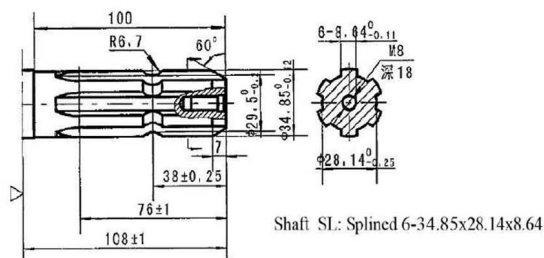
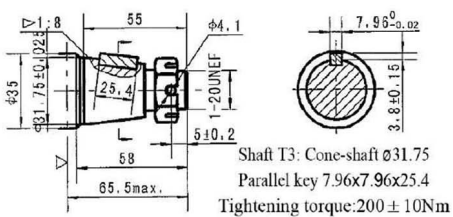
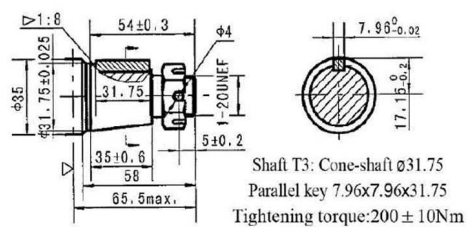
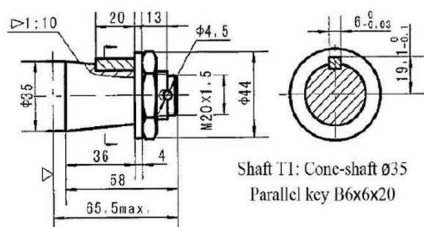
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BMS 系列液压马达 BMS SERIES HYDRAULIC MOTOR

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.

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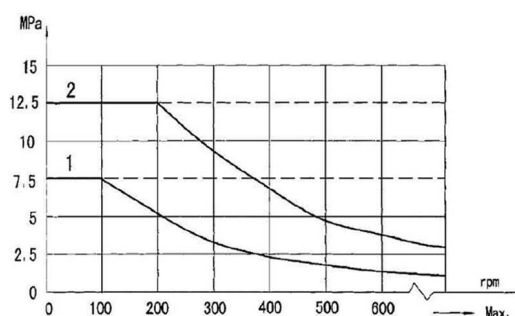
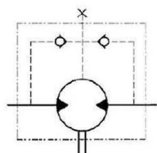
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BMS 系列液压马达 BMS SERIES HYDRAULIC MOTOR

BMS(E) Series Hydraulic Motor

Permissible shaft seal pressure



Note:1.Chart for standard shaft seal;

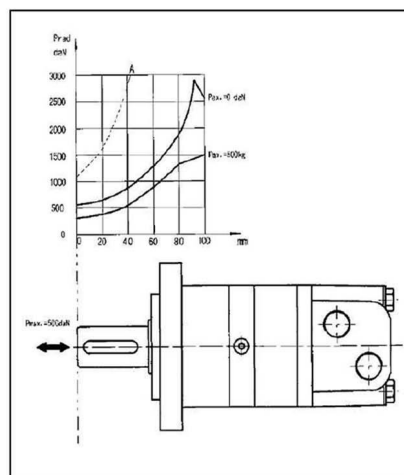
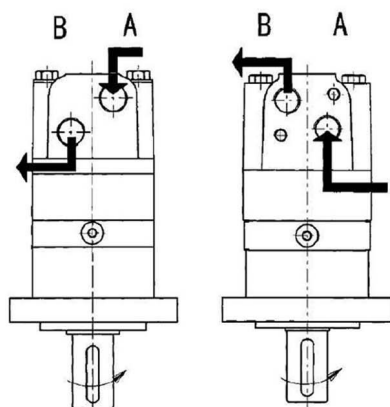
2.Chart for high pressure shaft seal.

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.

Standard direction of shaft rotation: Standard

Axial and Radial forces

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



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.

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BMS 系列液压马达 BMS SERIES HYDRAULIC MOTOR

Order Information

1	2	3	4	5	6	7	8
BMS							
1	2	3	4	5	6	7	8
BMSS							

Pos.1	2	3		4		5		6		7		8					
Code	Disp.	Flange		Output Shaft		Ports 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	D	G1/2 Manifold Mount 2-M10 , G1/4	Omit R	Standard Opposite	00	No paint Blue Black Silver grey	Omit F	Standard Free Running Low Speed				
	100	E4	4-Ø13.5 Rhomb-flange Ø106.4, pilot Ø82.5 × 6.3	B	Shaft Ø32 , parallel key 10 × 8 × 45									M	M22 × 1.5 Manifold Mount 2-M10 , M14 × 1.5	B	Blue
	125	F6	6-Ø13.5 Rhomb-flange Ø106.4, pilot Ø82.5 × 2.6	D	Shaft Ø25.4 , parallel key 6.35 × 6.35 × 25.4									S	7/8-14UNF O-ring manifold 2-3/8-16 , 7/16-20UNF	S	Black
	160	W	4-Ø13.5 Wheel-flange Ø160 , pilot Ø125 × 8	G	Shaft Ø31.75 , parallel key 7.96 × 7.96 × 31.75									P	1/2-14NPTF manifold 2-3/8-16UNC , 7/16-20UNF		Silver grey
	200	E2B	2-Ø14.3 Rhomb-flange Ø146.05, pilot Ø101.6 × 9.4	FD	Long Shaft Ø31.75 , spined tooth 14-DP12/24												
	250	SP	4-Ø11.5 Square-flange Ø106.4, pilot Ø82.5 × 6.3	SL	shaft Ø34.65, Spined key 6-34.85 × 28.14 × 8.54												
BMSS	315			T1	Cone-shaft Ø85 , parallel key B6 × 6 × 20												
	375	D	4-Ø11 Circle-flange Ø125 , pilot Ø100 × 6	T3	Cone-shaft Ø31.75 , parallel key 7.96 × 7.96 × 31.75												
		E	4-Ø13.5 Square-flange Ø127 , pilot Ø101.6 × 6.3	S1	Shaft Ø25.4 , spined tooth SAE 6B												
				I	Sub-shaft Ø22 , spined tooth 13-DP15/32												
				Omit	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 .
Shaft T1、D、B、FD、G for flange SP code T2、D1、B1、F1、G1.The specific dimensions see installation diagram provides additional.

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BMS 系列液压马达 BMS SERIES HYDRAULIC MOTOR

Order Information

1	2	3	4	5	6	7	8
BMSE							
1	2	3	4	5	6	7	8
BMSJ							

Pos.1	2	3		4		5		6		7		8	
Code	Disp.	Flange		Output Shaft		Ports 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	MU	1/2" ,5/8" Crosshole Manifold 3×3/8-16UNC,7/16-20UNF	Omit	Standard Opposite	O0	No paint Blue Black Silver grey	Omit	Standard Free Running Low Speed
	100	E4	4-Ø13.5 Rhomb-flange Ø106.4, pilot Ø82.5×6.3	B	Shaft Ø32 , parallel key 10×8×45								
	125	E2B	2-Ø14.3 Rhomb-flange Ø146.05, pilot Ø101.8×9.4	K	Shaft Ø25.4 , Woodruff key Ø25.4×6.35								
	160	E6	4-Ø13.5 Rhomb-flange Ø106.4, pilot Ø82.5×6.3	G	Shaft Ø31.75 , parallel key 7.96×7.96×31.75								
	200	WE	4-Ø13.6 Wheel-flange Ø147.6, pilot Ø107.95×6.4	F	Shaft Ø31.75 , splined tooth 14-DP12/24								
	250			T4	Cone-shaft Ø31.75 , parallel key 7.96×7.96×25.4								
	315			S1	Shaft Ø25.4 ,splined tooth SAE 6B								
BMSJ	375			I	Sub-shaft Ø22 , splined tooth 13-DP16/32	DU	G1/2,7/16-20 UNF	SB	7/8-14UNF O-ring,G1/4	SU	7/8-14UNF O-ring,7/16-20 UNF	M4	M22×1.5,M14×1.5
		J	4-Ø13.5 Square-flange Ø127 , pilot Ø101.6×6.3	Omit	Short shaft12- 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 . Shaft B、G、T4、F for flange WE code TB1、G1、T5、F2. The specific dimensions see installation diagram provides additional.

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