



BMP SERIES HYDRAULIC MOTOR

BMP series motor are small volume, economical type, which is designed with shaft distribution flow, which adapt the Gerotor gear set design and provide compact volume, high power and low weight.

Characteristic features:

- * Advanced manufacturing devices for the Gerotor gear set, which provide small volume, high efficiency and long life.
- * Shaft seal can bear high pressure of motor of which can be used in parallel or in series.
- * Advanced construction design, high power and low weight.

Main Specification

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

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
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
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
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
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
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
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
Weight (kg)		5.6	5.6	5.7	5.9	6.0	6.2	6.4	6.7	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.

Main Specification

Technical data for BMP with 31.75 and 32 shaft

Type		BMP 36	BMP 50	BMP 80	BMP 100	BMP 125	BMP 160	BMP 200	BMP 250	BMP 315	BMP 400	BMP 500
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
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
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
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
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
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
Weight (kg)		5.6	5.6	5.7	5.9	6.0	6.2	6.4	6.7	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.

Performance Data

BMP 36 [36cm³/rev.]

Pressure (MPa)

							Max.cont.	Max.int.
	3	6	7	8	10	11	12.5	16.5

Flow (L/min)	8	13	25	29	34	43	48		
		214	205	200	194	187	179		
	15	13	25	29	34	43	48	56	75
		406	398	391	383	374	366	353	324
	20	13	24	29	34	43	48	56	76
		541	534	528	521	513	500	486	458
	30	12	24	29	34	43	48	56	76
		814	804	792	778	763	749	726	701
	35	12	23	28	34	43	48	56	76
		952	944	930	913	897	879	858	833
Max.cont.	40	12	23	28	32	41	47	55	75
		1090	1078	1064	1048	1024	998	977	943
	45	11	22	26	32	41	46	54	74
		1232	1218	1196	1175	1149	1118	1080	1044
	55	6	15	22	28	37	44	52	71
		1505	1494	1480	1466	1438	1406	1367	1309
	Max.int.	3	11	18	20	30	38	49	67
		1650	1640	1626	1603	1571	1536	1502	1446

BMP 50 [51.7cm³/rev.]

Pressure (MPa)

							Max.cont.	Max.int.
	3	6	8	10	12.5	14	16	17.5

Flow (L/min)	8	20	41	56	69	89	95		
		151	134	115	90	56	42		
	15	19	40	56	71	91	100	112	120
		286	274	261	243	204	182	139	102
	20	18	39	55	71	92	101	117	128
		382	373	361	348	318	309	287	251
	30	17	38	55	71	91	98	116	124
		573	568	558	535	503	488	462	440
	35	17	38	54	69	89	98	117	124
		670	661	652	640	606	589	562	548
Max.cont.	45	14	36	53	67	88	98	114	123
		863	858	849	837	807	788	764	746
	55	12	33	50	65	85	96	111	121
		1055	1042	1028	1010	979	963	947	920
	60	10	32	47	64	83	94	108	119
		1150	1143	1126	1111	1079	1065	1043	1015
	Max.int.	6	25	42	56	76	87	101	112
		1440	1430	1416	1395	1367	1351	1335	1312

BMP 80 [77.7cm³/rev.]

Pressure (MPa)

							Max.cont.	Max.int.
	3	6	8	10	12.5	14	16	17.5

Flow (L/min)	8	32	62	85	104	129	144		
		97	87	74	55	33	22		
	15	32	63	84	107	126	144	165	
		186	181	170	154	132	118	86	
	20	31	63	84	107	132	146	168	185
		251	243	236	225	207	196	178	155
	30	31	62	83	106	131	146	168	186
		381	379	368	355	332	316	285	263
	35	30	59	81	102	130	144	167	185
		443	435	426	415	397	383	361	342
Max.cont.	45	25	58	79	100	126	142	165	182
		570	564	554	543	526	509	483	458
	55	23	57	78	97	124	140	161	179
		696	685	672	656	643	630	602	579
	60	20	53	75	94	120	137	160	177
		761	753	744	736	720	706	681	660
	Max.int.	14	44	67	87	112	151	169	169
		948	940	931	920	906	890	871	854

Torque (N·m) 87
Speed (rpm) 920

BMP 100 [96.2cm³/rev.]

Pressure (MPa)

							Max.cont.	Max.int.
	3	6	8	10	12.5	14	16	17.5

Flow (L/min)	8	40	77	105	130	161	180		
		81	75	69	57	36	24		
	15	39	77	106	130	160	180	208	
		152	149	145	140	122	103	81	
	20	36	74	104	128	161	179	205	227
		204	200	195	190	177	166	148	133
	30	33	72	103	125	160	177	203	225
		308	304	298	290	280	268	255	231
	35	30	70	98	122	159	176	202	224
		360	352	343	331	320	306	294	275
Max.cont.	45	29	67	95	118	155	174	200	220
		462	458	451	443	433	419	402	383
	55	25	64	93	116	152	170	198	217
		566	558	549	540	529	515	498	478
	60	22	60	91	114	149	167	194	213
		618	611	601	589	580	570	558	540
	Max.int.	15	54	83	106	141	160	186	205
		771	763	755	744	735	724	708	693

cont.
int.

Performance Data

BMP 125 [120.2cm³/rev.]

Pressure (MPa)

	3	6	8	10	12.5	14	16	17.5
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Flow (L/min)	8	51 63	98 60	137 55	168 47	208 28	236 15	
	15	51 121	101 116	138 110	168 102	209 89	236 73	267 48
20	48	98	135	167	211	237	269	290
	20	162	158	153	148	137	128	109
30	46	96	132	164	209	232	264	287
	30	243	239	234	227	216	202	189
35	42	92	130	160	206	229	260	284
	35	284	279	274	269	259	247	231
45	37	89	125	157	201	224	261	281
	45	370	362	355	348	340	327	310
55	33	84	122	152	196	218	252	275
	55	452	446	438	431	420	412	402
Max.cont.	60	29	78	117	146	191	215	248
	60	490	482	475	468	459	448	439
Max.int.	75	18	66	107	133	179	202	236
	75	615	606	598	586	575	563	549

BMP 160 [157.2cm³/rev.]

Pressure (MPa)

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

BMP 200 [194.5cm³/rev.]

Pressure (MPa)

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

BMP 250 [240.3cm³/rev.]

Pressure (MPa)

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

cont.
int.

Torque (N·m) 128
Speed (rpm) 306

Performance Data

BMP 315 [314.5cm³/rev.]

Pressure (MPa)

	3	5	7	9	10	Max.cont.	Max.int.
	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.	65 188	154 186	227 184	308 182	348 178	443 172	529 163
Max.int.	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	Max.cont.	Max.int.
	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.	102 153	163 152	215 150	272 148	347 146	436 143	532 138
Max.int.	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	Max.int.
	1.5	3	4.5	6	7	8	9

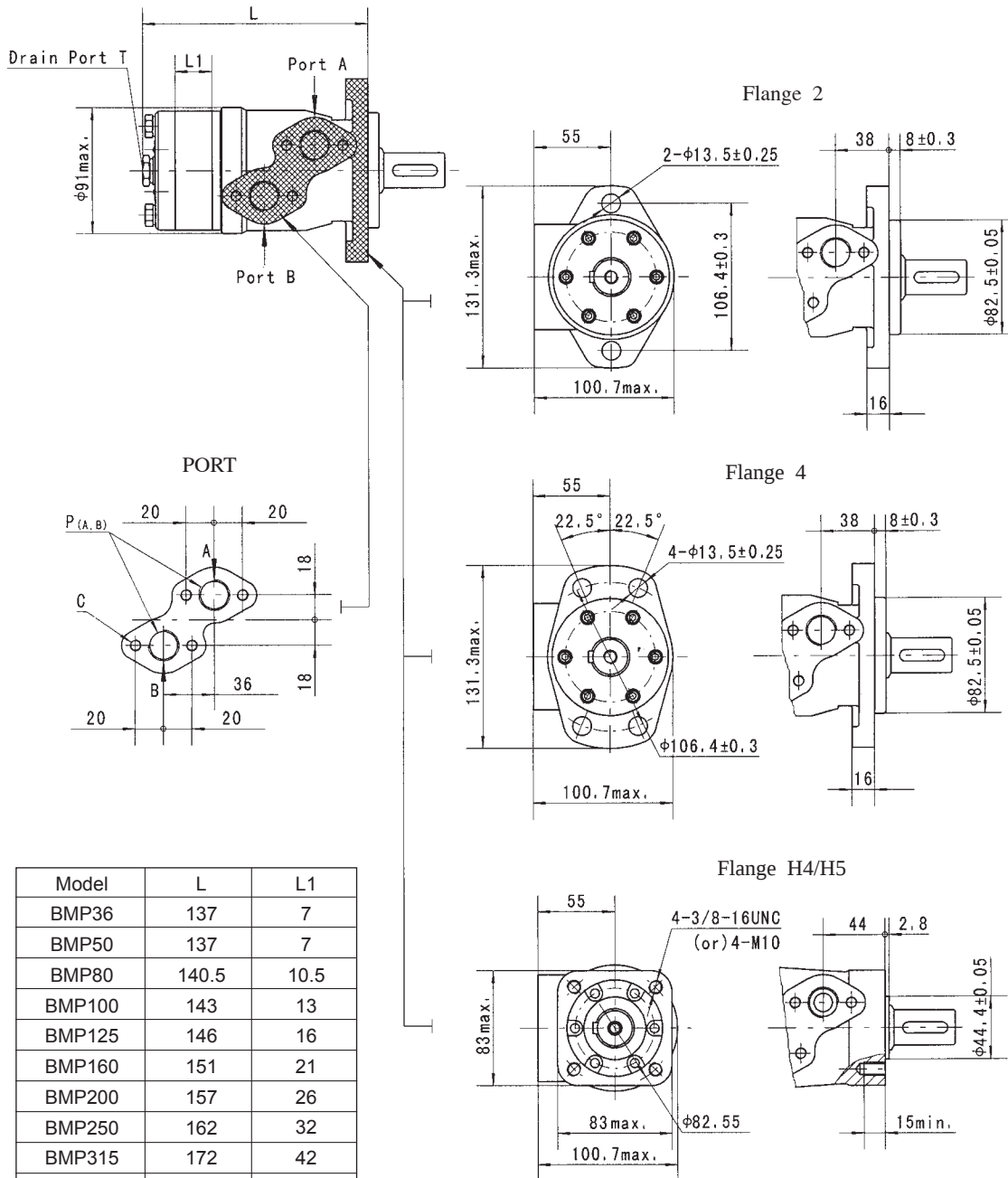
Flow (L/min)	4	96 7	194 6	285 4				
	8	98 15	201 15	304 14	391 14	443 12	512 9	574 7
15	96 30	192 30	284 29	380 28	421 26	496 23	550 22	
	20	96 40	191 40	280 40	372 39	418 37	493 33	546 31
30	91 61	185 60	272 60	360 58	412 56	486 53	541 50	
	40	86 81	172 80	261 80	343 79	408 76	480 73	538 70
50	78 102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

cont.
int.

Torque (N·m) 389
Speed (rpm) 147

BMP DIMENSIONS AND MOUNTING DATA

MOUNTING



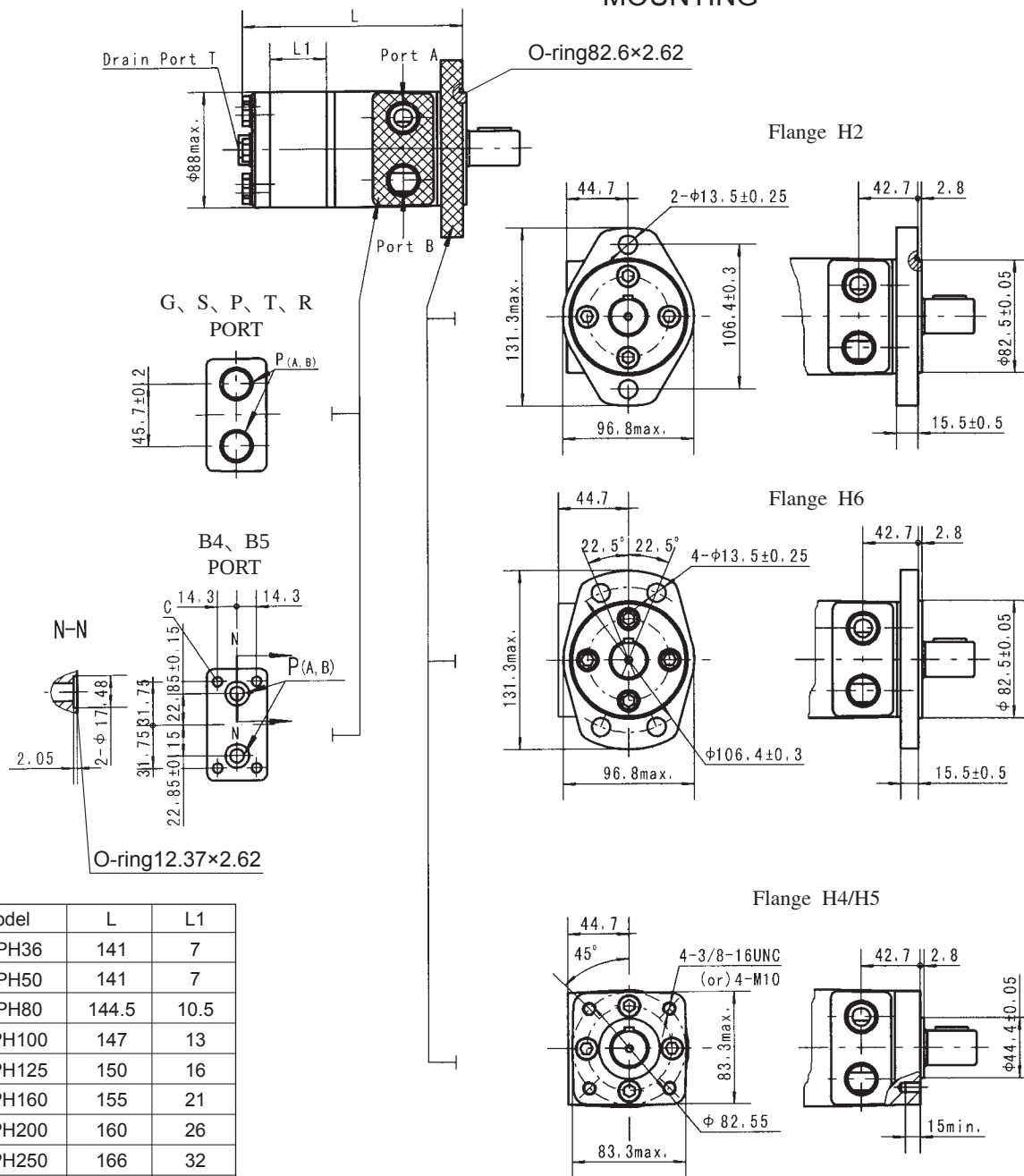
Model	L	L1
BMP36	137	7
BMP50	137	7
BMP80	140.5	10.5
BMP100	143	13
BMP125	146	16
BMP160	151	21
BMP200	157	26
BMP250	162	32
BMP315	172	42
BMP400	182	52
BMP500	195	65

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 DIMENSIONS AND MOUNTING DATA

MOUNTING

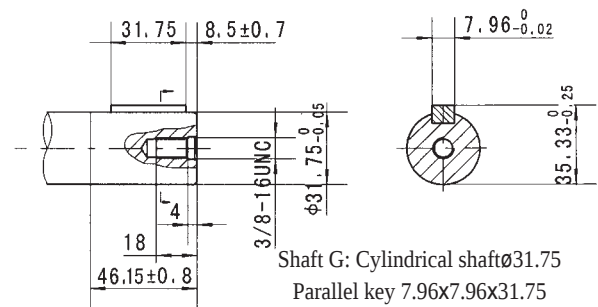
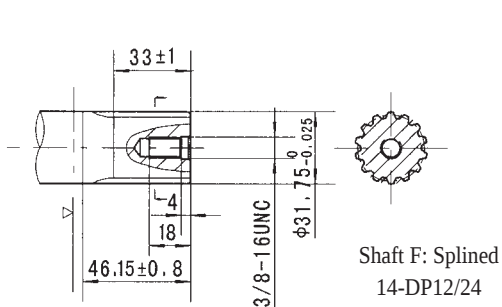
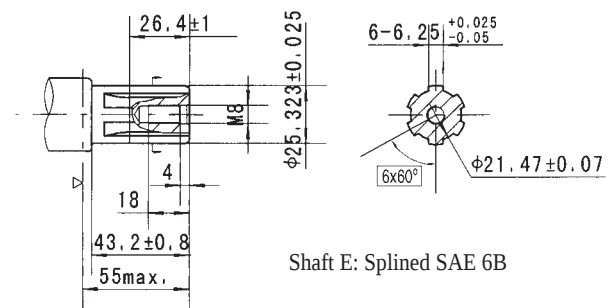
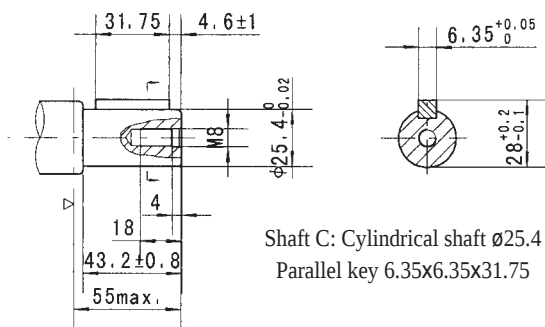
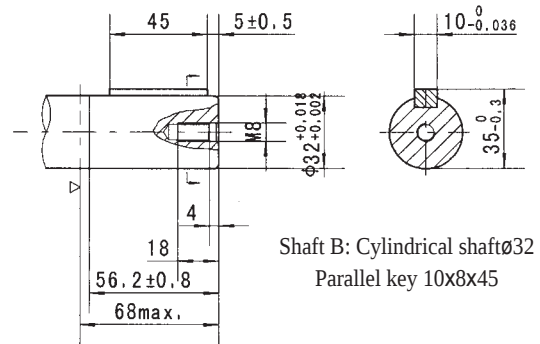
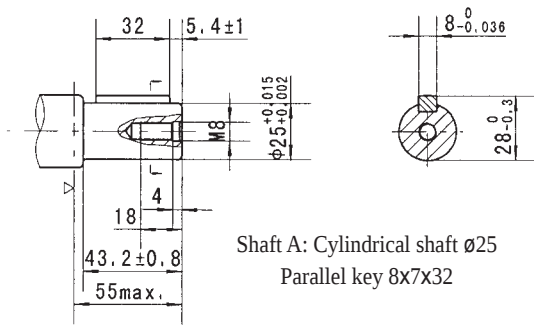


Model	L	L1
BMPH36	141	7
BMPH50	141	7
BMPH80	144.5	10.5
BMPH100	147	13
BMPH125	150	16
BMPH160	155	21
BMPH200	160	26
BMPH250	166	32
BMPH315	176	42
BMPH400	186	52
BMPH500	199	65

Note: The size L of the BMPH N1 should be increased by 2mm.

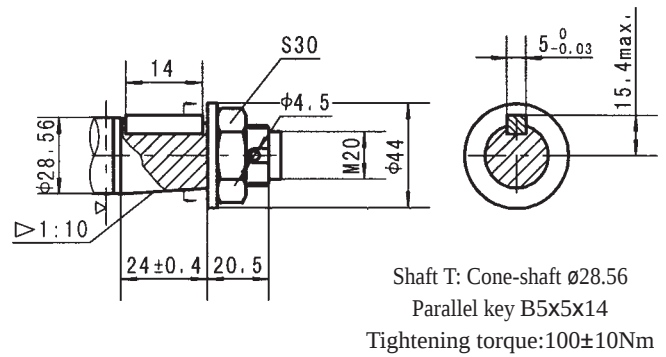
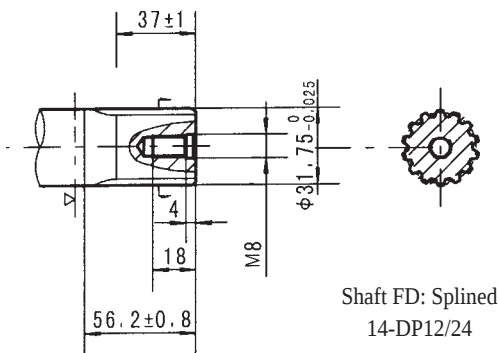
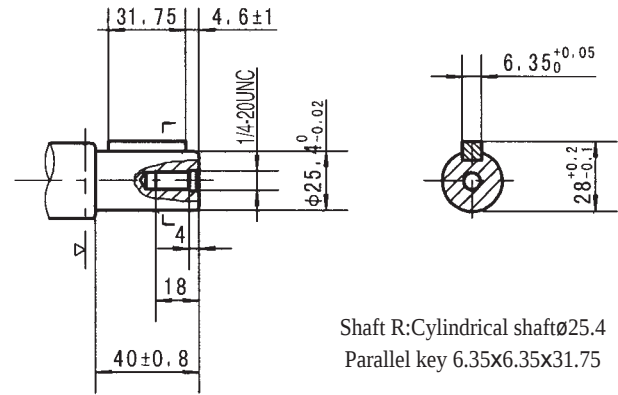
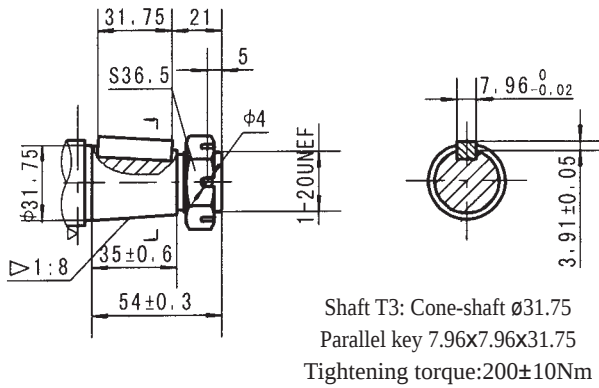
Code	G (depth)	S (depth)	P (depth)	T (depth)	R (depth)	B4 (depth)	B5 (depth)
P(A,B)	G1/2 (15)	7/8-14 O-ring (17)	1/2-14NPTF (15)	3/4-16 O-ring (15)	PT(RC)1/2 (15)	ø10	ø10
T	G1/4 (12)	7/16-20UNF (12)	7/16-20UNF (12)	7/16-20UNF(12)	PT(RC)1/4 (9.7)	7/16-20UNF(12)	G1/4(12)
C	—	—	—	—	—	4-5/16-18UNC(13)	4-M8(13)

BMP SHAFT EXTENSIONS DIMENSIONS DATA



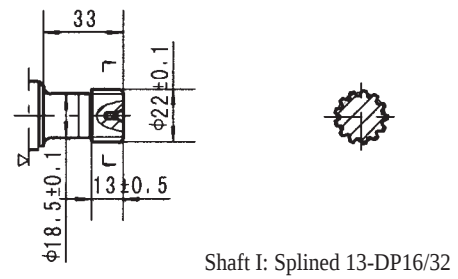
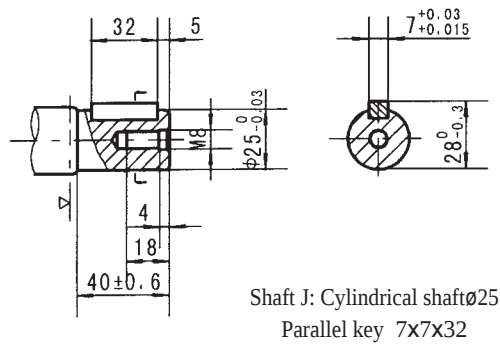
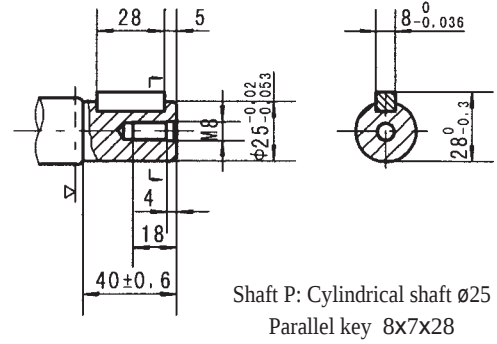
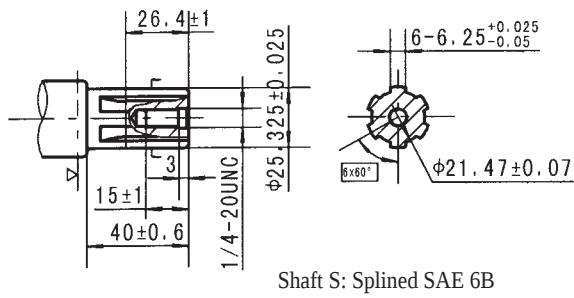
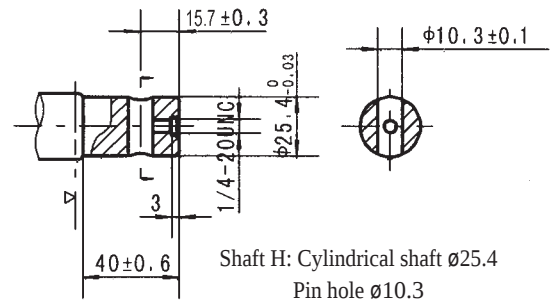
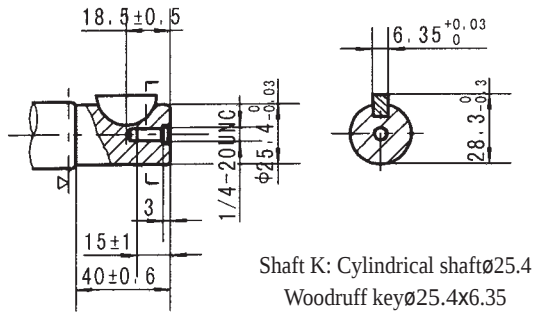
▷ Motor Mounting Surface

BMP SHAFT EXTENSIONS DIMENSIONS DATA



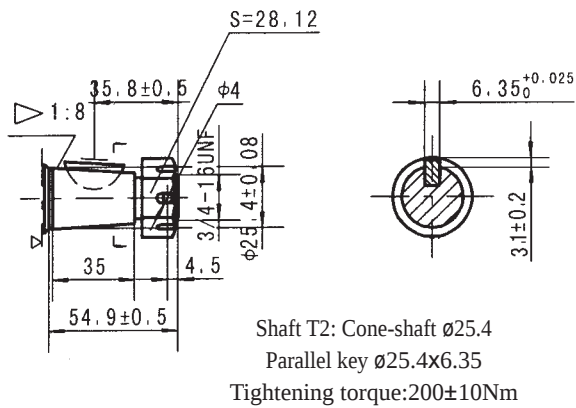
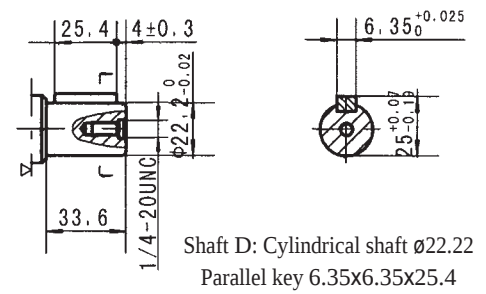
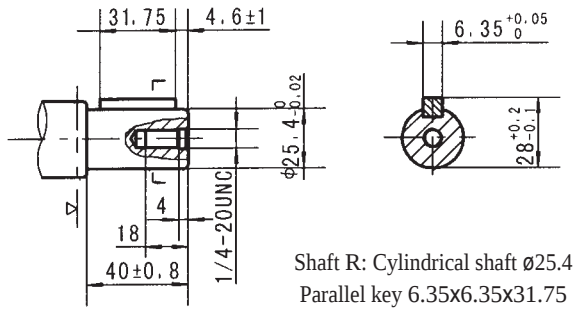
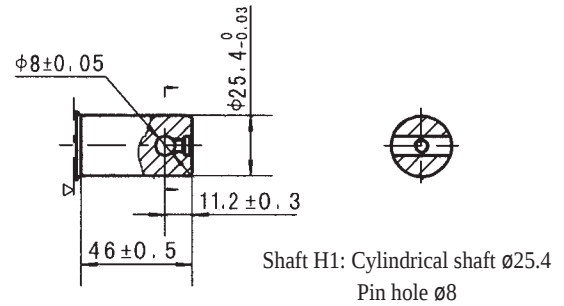
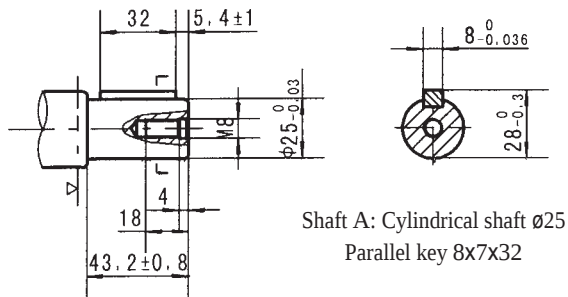
▷ Motor Mounting Surface

BMPH SHAFT EXTENSIONS DIMENSIONS DATA



▷ Motor Mounting Surface

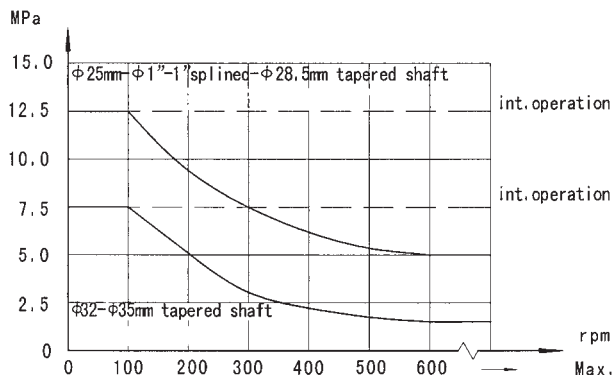
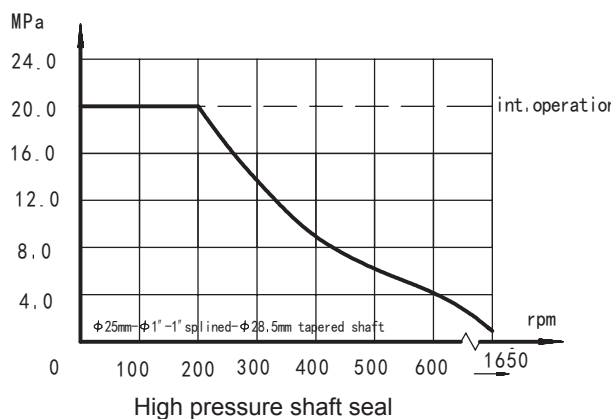
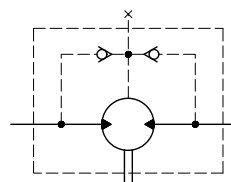
BMPH SHAFT EXTENSIONS DIMENSIONS DATA



▷ Motor Mounting Surface

BMP、BMPH Series Hydraulic Motor

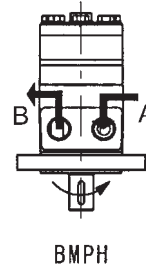
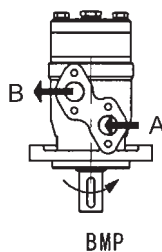
Permissible shaft seal pressure



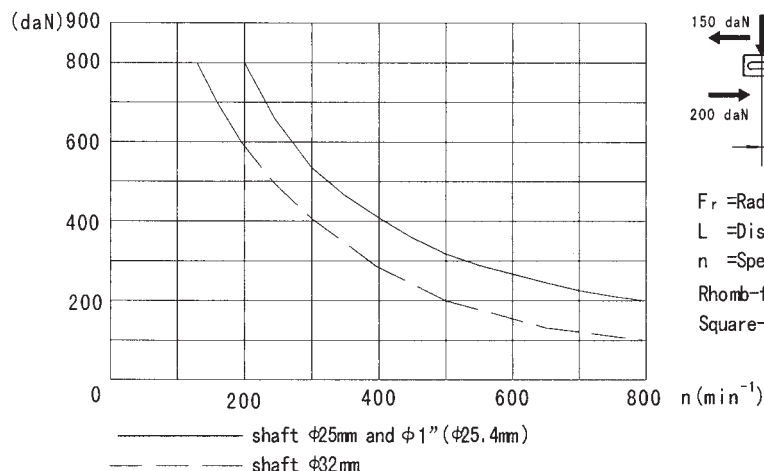
In applications without drain line, output shaft seal exceeds a bit of the pressure in the return line. When applications use the drain line, the pressure of output shaft seal equals the pressure in drain line.

Direction of shaft rotation: Standard

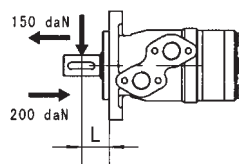
When facing shaft end of motor, shaft to rotate:
Clockwise when port "A" is pressurized.
Counter-clockwise when port "B" is pressurized.



Status of the shaft's radial force (Standard motor with journal bearing)



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



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

Oil flow in drain line

The table shows the Max. oil flow in the drain line at a return pressure less than 0.5-1MPa.

Pressure drop (MPa)	Viscosity (mm ² /s)	Oil flow in the drain line (L/min.)
10	20	2.5
	35	1.8
14	20	3.5
	35	2.8

Order Information

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

Pos.1	2	3	4	5	6	7	8
Code	Disp.	Flange	Output Shaft	Ports and Drain Port	Rotation Direction	Paint	Unusually Function
BMP	36	2-Ø13.5 Rhomb-flange , pilot Ø82.5×8	A Shaft Ø25.4,parallel key 8x7x32	D G1/2 Manifold Mount 4×M8, G1/4	Omit R	00 Omit B S	No paint Blue Black Silver grey
	50		C Shaft Ø25.4,parallel key 6.35x6.35x31.75				
	80		E Shaft Ø25.4,spined tooth SEA 6B				
	100	4-Ø13.5 Rhomb-flange , pilot Ø82.5×8	R Short shaft Ø25.4,parallel key 6.35x6.35x31.75	S M22×1.5 Manifold Mount 4×M8, M14×1.5	Standard Opposite	Omit B S	Standard Big radial force No case drain Free Running Low Speed
	125		T Cone shaft Ø28.56,parallel key B5x5x14				
	160		B Shaft Ø32,parallel key 10x8x45				
	200	H4 4-3/8-16 Square-flange , pilot Ø44.4×2.8	F Shaft Ø31.75,spined tooth 14-DP12/24	P 1/2-14 NPTF Manifold 4x5/16-18UNC, 7/16-20UNF	Standard Opposite	Omit B S	Standard Big radial force No case drain Free Running Low Speed
	250	H5 4-M10 Square-flange , pilot Ø44.4×2.8	FD Long shaft Ø31.75,spined tooth 14-DP12/24				
	315		G Shaft Ø31.75, parallel key 7.96x7.96x31.75				
	400		T3 Cone shaft Ø31.75,parallel key 7.96x7.96x25.4	R PT(Rc)1/2 Manifold 4xM8, PT(Rc)1/4	Standard Opposite	Omit B S	Standard Big radial force No case drain Free Running Low Speed
	500						

Note:The shafts of B\F\I\G\I\T1\T3 are only suitable for flanges of 2 and 4.

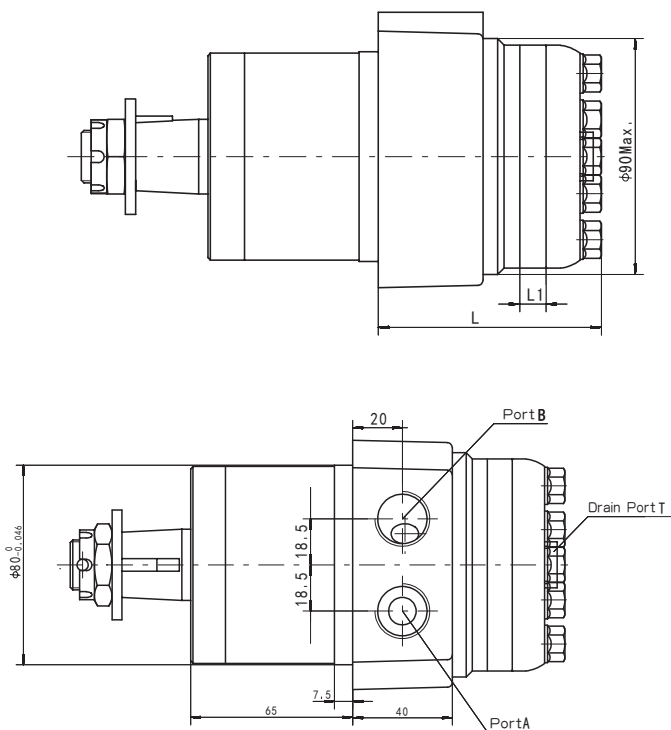
1 2 3 4 5 6 7 8
BMPH - - - - - - - -

Pos.1	2	3	4	5	6	7	8
Code	Disp.	Flange	Output Shaft	Ports and Drain Port	Rotation Direction	Paint	Unusually Function
BMPH	36	H2 2-Ø13.5 Rhomb-flange , pilot Ø82.5×2.8	K Shaft Ø25.4, woodruff key Ø25.4×6.35	G G1/2, G1/4	Omit R	00 Omit B S	Standard Big radial force No case drain Free Running Low Speed
	50		S Shaft Ø25.4 , spined tooth SEA 6B				
	80		A Shaft Ø25 , parallel key 8×7×32				
	100	H6 4-Ø13.5 Rhomb-flange , pilot Ø82.5×2.8	R Shaft Ø25.4, parallel key 6.35×6.35×31.75	S 7/8-14 O-ring, 7/16-20UNF 1/2-14 NPTF, 7/16-20UNF	Standard Opposite	Omit B S	Standard Big radial force No case drain Free Running Low Speed
	125		H Shaft Ø25.4 , pin hole Ø10.3				
	160		H1 Shaft Ø25.4 , pin hole Ø8				
	200	H4 4-3/8-16 Square-flange , pilot Ø44.4×2.8	D Shaft Ø22.22, parallel key 6.35×6.35×25.4	T 3/4-16 O-ring, 7/16-20UNF PT(Rc)1/2 ,PT(Rc)1/4	Standard Opposite	Omit B S	Standard Big radial force No case drain Free Running Low Speed
	250		I Shaft Ø22.22, spined tooth 13-DP16/32				
	315		T2 Cone shaft Ø25.4 , woodruff key Ø25.4×6.35				
	400		P Shaft Ø25 , parallel key 8×7×28	B4 Ø10 O-ring manifold 4x5/16-18UNC,7/16-20UNF	Standard Opposite	Omit B S	Standard Big radial force No case drain Free Running Low Speed
	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.

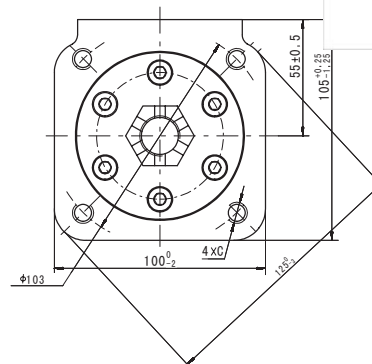


BMPW DIMENSIONS AND MOUNTING DATA



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)	M22×1.5 (15)
T		G1/4 (12)	7/16-20UNF (12)	M14×1.5 (12)
C		4×M10(20)	4×3/8-16UNC(20)	4×M10(20)



Order Information

1 **BMPW** 2 3 4 5 6 7 8

Pos.1	2	3	4	5	6	7	8
Code		Flange	Output shaft	Ports and drain port	Rotation direction	Paint	Unusually function
BMPW	50 80 100 125 160 200 250 315 400 500	Wheel-flange pilat Ø80×7.5 Omit	A Shaft Ø25x6 ,Parallel key 8x7x32 C Shaft Ø25.4 ,Parallel key 6.35x6.35x31.75 E Shaft Ø25.4 ,Splined key SAE 6B T Cone shaft Ø28.56 ,Parallel key B5x5x14	G G1/2, G1/4 S 7/8-14 O-ring, 7/16-20UNF M M22×1.5,M14×1.5	Omit Standard R Opposite	00 Omit B Black S Silver grey	Omit Standard N1 Big radial force 0 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.