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 distrbution flow, which can automatically compensate in operating with high volume efficiency and long life, provide smooth and reliable operation.

Main Specification

Type		BMT 160	BMT 200	BMT 230	BMT 250	BMT 315	BMT 400	BMT 500	BMT 630	BMT 800
Geometric displacement (cm^3/rev.)		161.1	201.4	232.5	251.8	326.3	410.9	523.6	629.1	801.8
Max. speed (rpm)	cont.	625	625	536	500	380	305	240	196	154
	int.	780	750	643	600	460	365	285	233	185
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
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
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
Max. flow (L/min)	cont.	100	125	125	125	125	125	125	125	125
	int.	125	150	150	150	150	150	150	150	150
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
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.

Performance Data

BMT 160 [161.1cm³/rev.]

Pressure (MPa)

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

BMT 200 [201.4cm³/rev.]

Pressure (MPa)

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

BMT 250 [251.8cm³/rev.]

Pressure (MPa)

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

Torque (N•m) 552
Speed (rpm) **572**

BMT 315 [326.3cm³/rev.]

Pressure (MPa)

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

Performance Data

BMT 400 [410.9cm³/rev.]

Pressure (MPa)

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

BMT 500 [523.6cm³/rev.]

Pressure (MPa)

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

BMT 630 [629.1cm³/rev.]

Pressure (MPa)

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

Torque (N•m) 1121
Speed (rpm) **227**

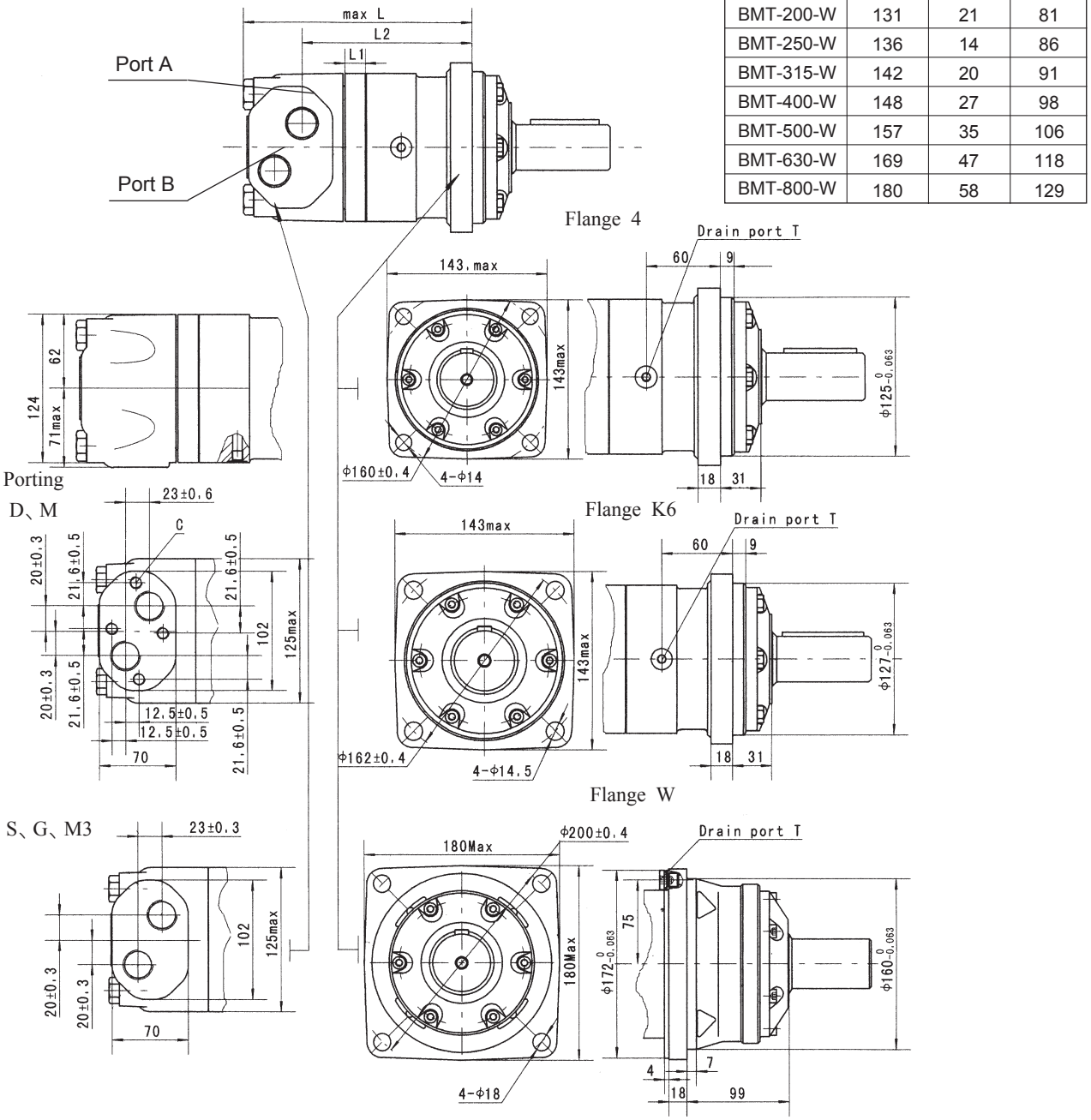
BMT 800 [801.8cm³/rev.]

Pressure (MPa)

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

BMT DIMENSIONS AND MOUNTING DATA

Model	L	L1	L2
BMT-160-W	127	17	77
BMT-200-W	131	21	81
BMT-250-W	136	14	86
BMT-315-W	142	20	91
BMT-400-W	148	27	98
BMT-500-W	157	35	106
BMT-630-W	169	47	118
BMT-800-W	180	58	129

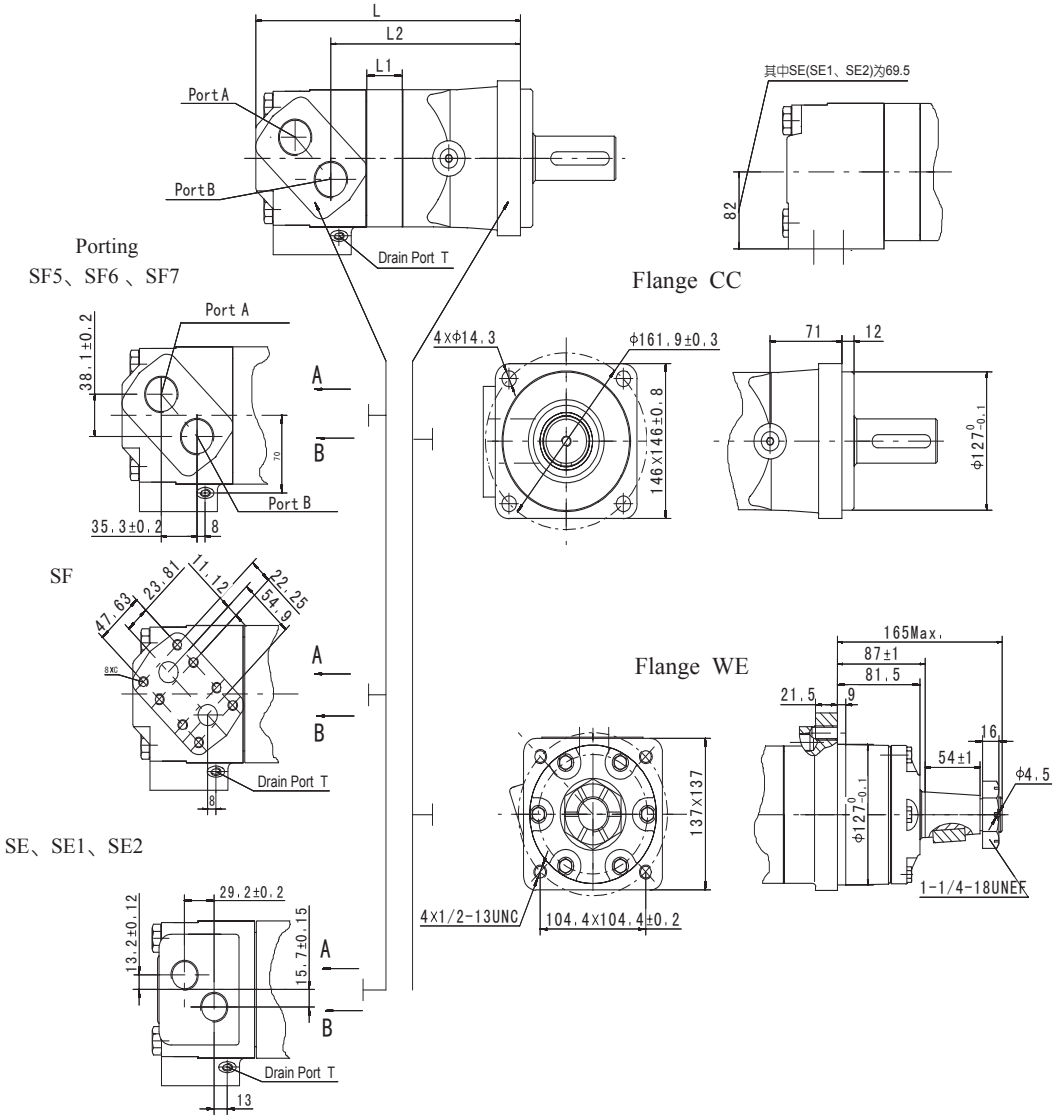


Model	L	L1	L2
BMT160	193	17	142.5
BMT200	197	21	146.5
BMT250	204	14	152.5
BMT315	210	20	158.5
BMT400	217	27	165.5
BMT500	225	35	173.5
BMT630	237	47	185.5
BMT800	248	58	196.5

Content / Mounting	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 DIMENSIONS AND MOUNTING DATA

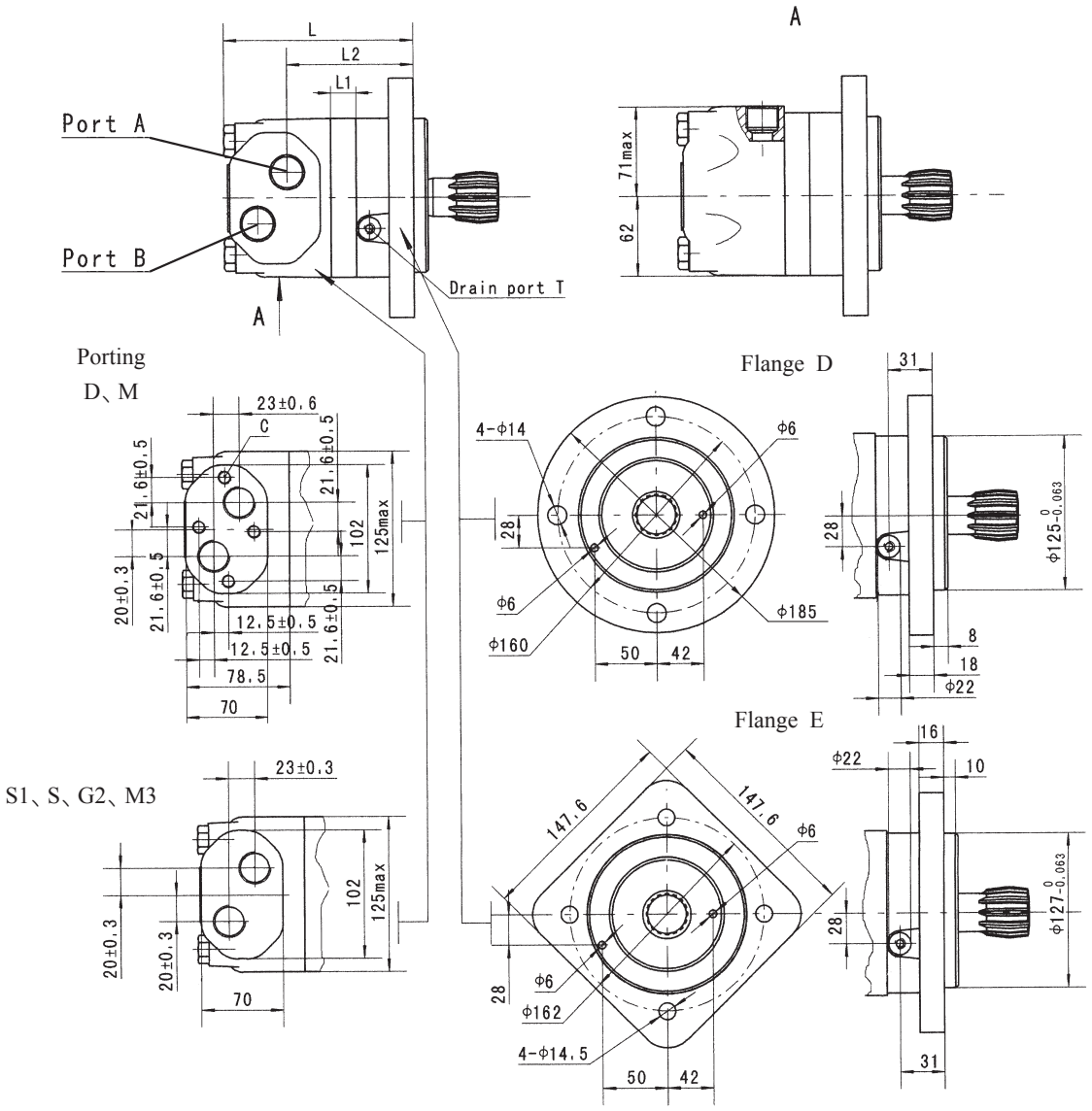


Model	L	L1	L2
BMTE230	238.5	12	164.5
BMTE250	240.5	14	166.5
BMTE315	246.5	20	172.5
BMTE400	253.5	27	179.5
BMTE500	261.5	35	187.5
BMTE630	273.5	47	199.5
BMTE800	284.5	58	210.5

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 / Mounting	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 DIMENSIONS AND MOUNTING DATA

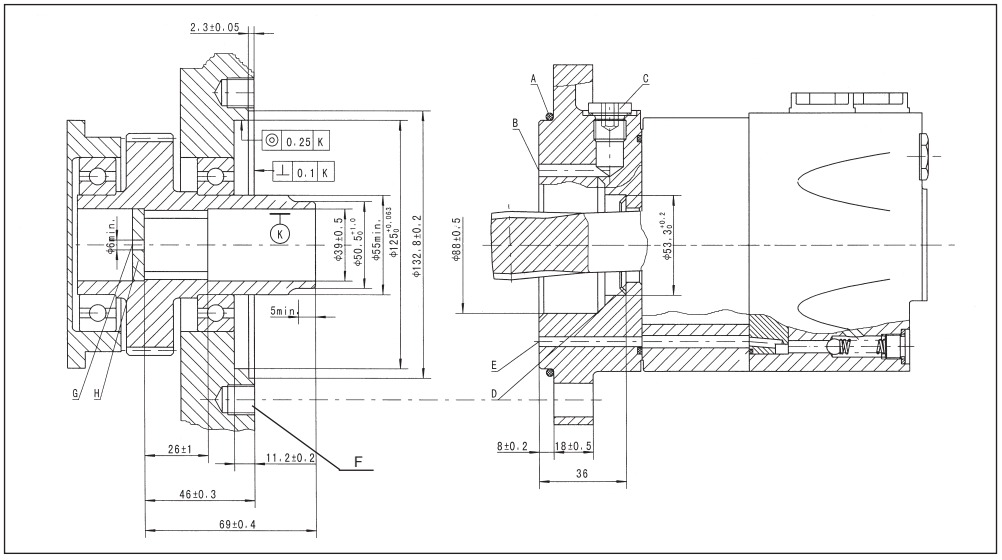


Model	L	L1	L2
BMT160	148	17	96.5
BMT200	152	21	100.5
BMT250	157	14	109
BMT315	163	20	115
BMT400	170	27	122
BMT500	178	35	130
BMT630	190	47	142
BMT800	201	58	153

Content / Mounting	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.

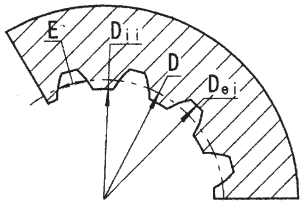
BMTS MOUNTING DATA



A: O-ring:125x3
B: External drain channel
C: Drain connection G 1/4;12 mm deep
D: Conical seal ring
E: Internal drain channal
F: M12;min. 18mm deep
G: Oil circulation hole
H: Hardened stop plate

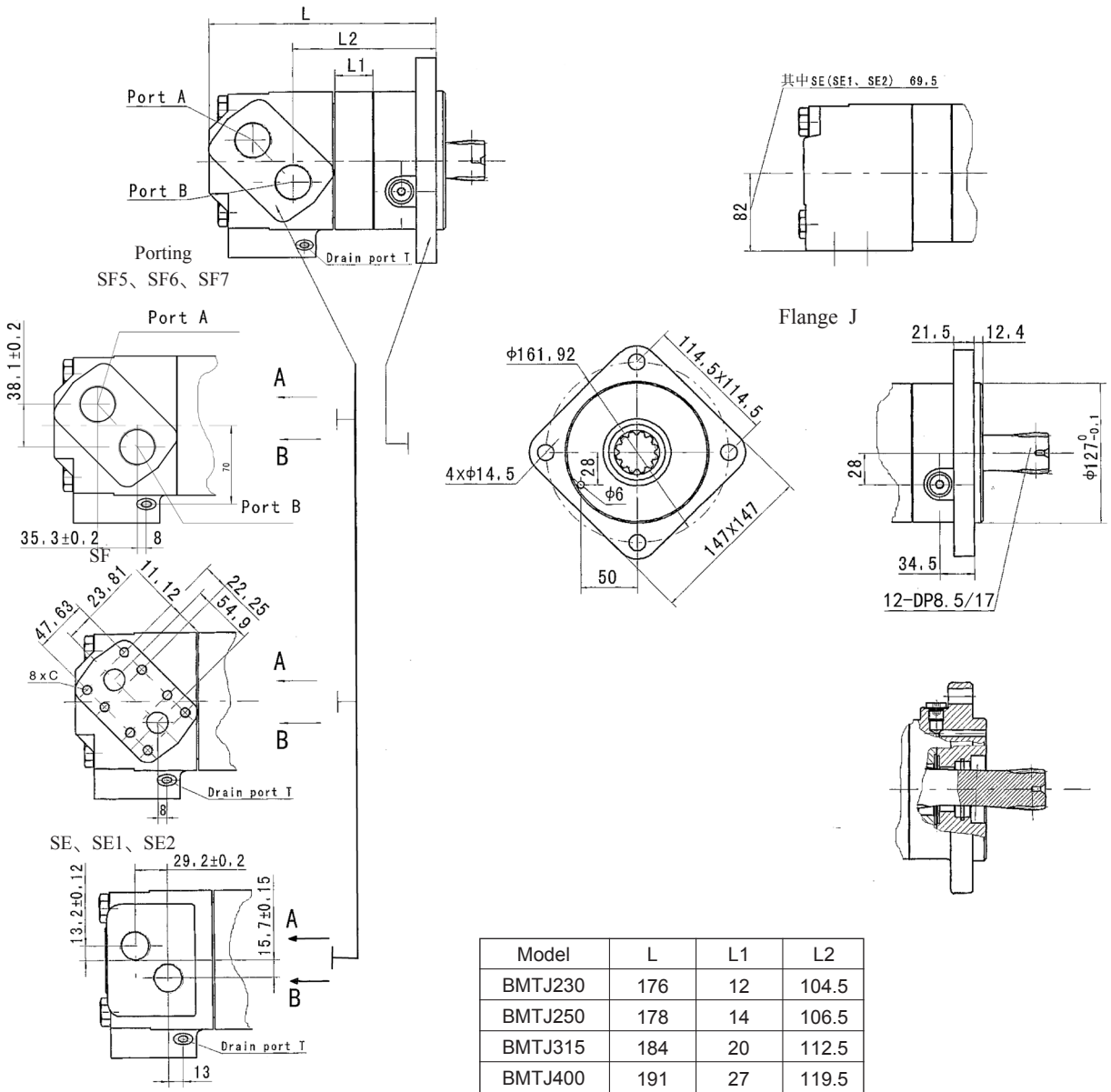
INTERNAL SPLINE DATA FOR THE ATTACHED COMPONENT

Fillet Root Side Fit		mm
Number of Teeth	Z	16
Diametral Pitch	DP	12/24
Pressure Angle	α_D	30°
Pitch Dia.	D	ø33.8656
Major Dia.	D_{ei}	ø38.4 $^{+0.25}_{0}$
Minor Dia.	D_{ii}	ø32.15 $^{+0.04}_{0}$
Space Width [Circular]	E	4.516±0.037



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

BMTJ DIMENSIONS AND MOUNTING DATA

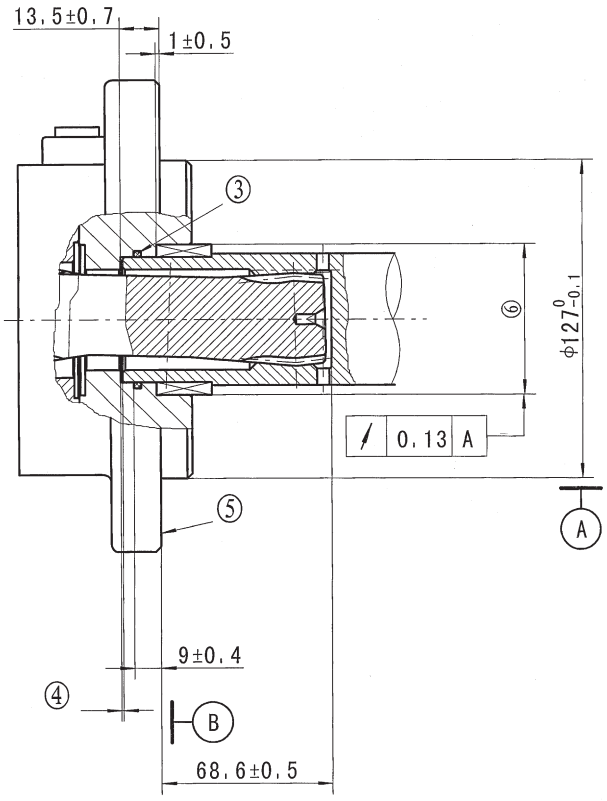


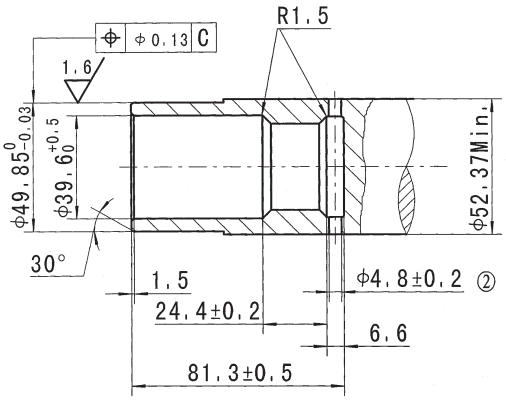
Model	L	L1	L2
BMTJ230	176	12	104.5
BMTJ250	178	14	106.5
BMTJ315	184	20	112.5
BMTJ400	191	27	119.5
BMTJ500	199	35	127.5
BMTJ630	211	47	139.5
BMTJ800	222	58	150.5

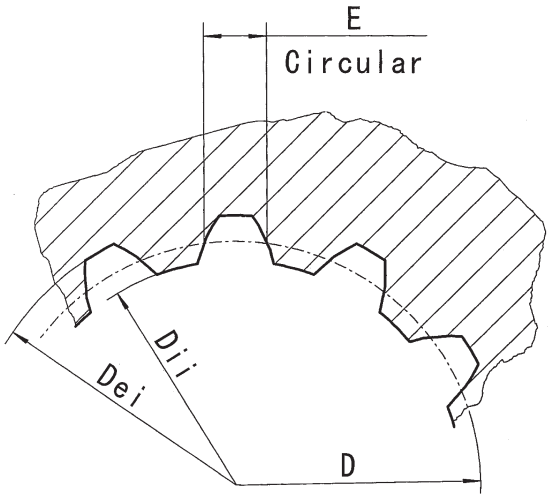
Note:1)The data for the port of SF (SF5 and SF6 andSF7).
2)The data for the port of SE (SE1 and SE2) and flange WE:L-70 and L2-59.
3)The thickness of the stator and rotor is the dimension of L1 adding on 7mm.

Content / Mounting	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 DIMENSIONS AND MOUNTING DATA





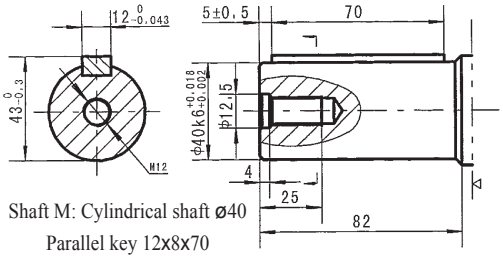


INTERNAL SPLINE DATA FOR THE ATTACHED COMPONENT

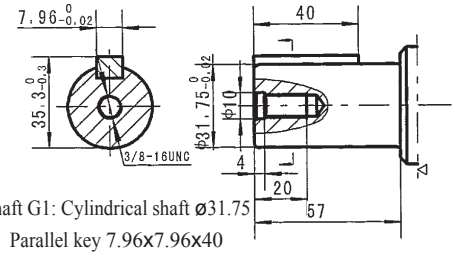
Fillet Root Side Fit		mm
Number of Teeth	Z	12
Diametral Pitch	DP	8.5/17
Pressure Angle	D	30°
Pitch Dia.	α_D	ø35.858823
Major Dia.	D_{ei}	ø38.97$^{+0.20}_{0}$
Minor Dia.	D_{ii}	ø33.3$^{+0.18}_{0}$
Space Width［Circular］	E	5.866±0.032
Dimension between two pins(ø4)	M_e	26.929-27.084

①Internal 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).
②Mating part to have critical dimensions as shown,
Oil holes must be provided and open for proper oil circulation.
③Some means of maintaining clearance between shaft and mounting flange must be provided.
④Seal to be furnished with motor for proper oil circulation thru splines.
⑤Similar to SAE "C" Four Bolt Flange
⑥Counterbore 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.

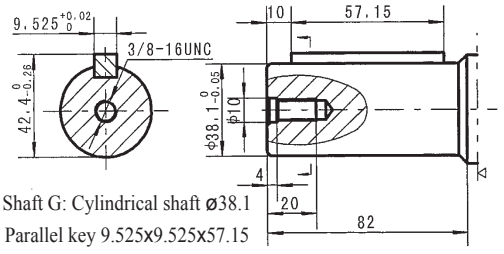
SHAFT EXTENSIONS FOR BMT(E) MOTORS



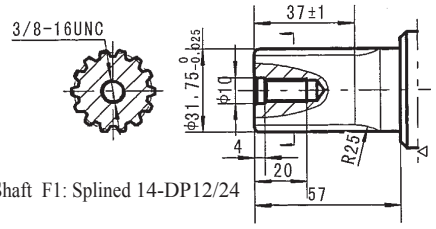
Shaft M: Cylindrical shaft ø40
Parallel key 12x8x70



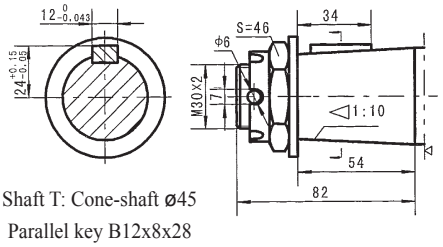
Shaft G1: Cylindrical shaft ø31.75
Parallel key 7.96x7.96x40



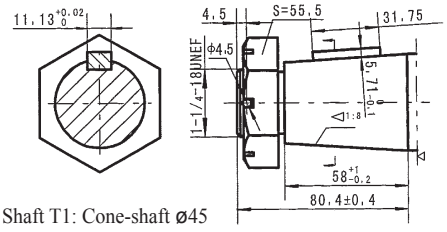
Shaft G: Cylindrical shaft ø38.1
Parallel key 9.525x9.525x57.15



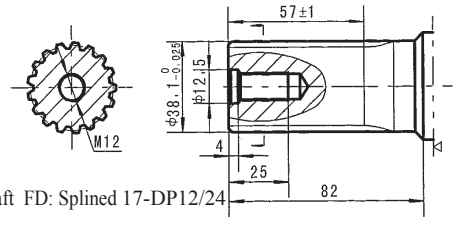
Shaft F1: Splined 14-DP12/24



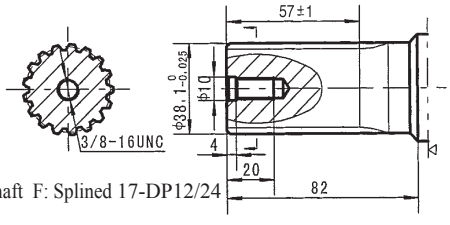
Shaft T: Cone-shaft ø45
Parallel key B12x8x28
Tightening torque:500±10Nm



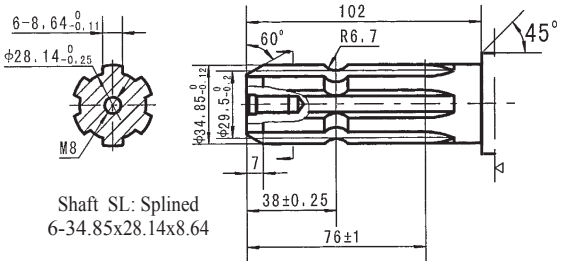
Shaft T1: Cone-shaft ø45
Parallel key 11.13x11.13x31.75
Tightening torque:500±10Nm



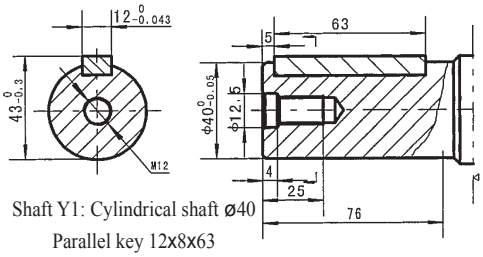
Shaft FD: Splined 17-DP12/24



Shaft F: Splined 17-DP12/24



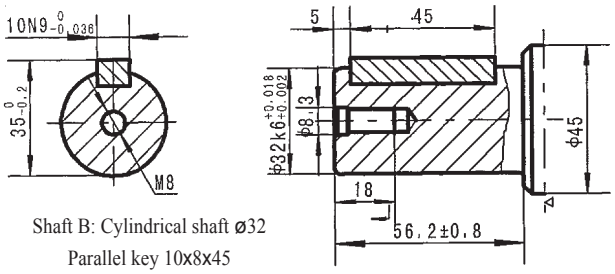
Shaft SL: Splined
6-34.85x28.14x8.64



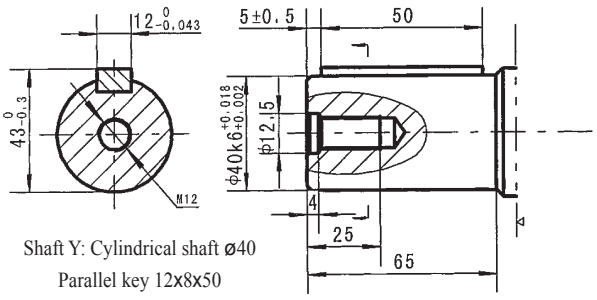
Shaft Y1: Cylindrical shaft ø40
Parallel key 12x8x63

▷ Motor Mounting Surface

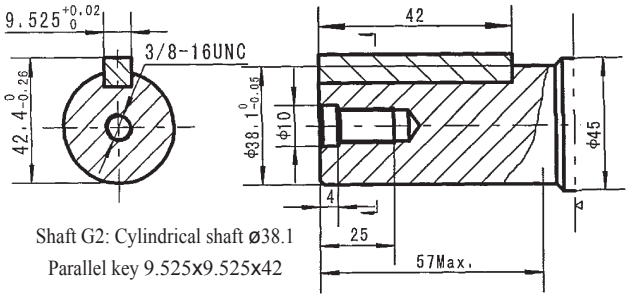
SHAFT EXTENSIONS FOR BMT(E) MOTORS



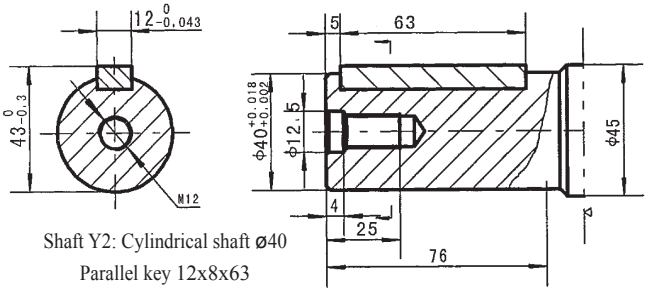
Shaft B: Cylindrical shaft ø32
Parallel key 10x8x45



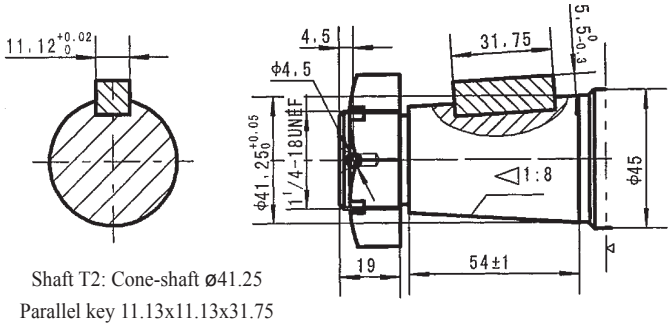
Shaft Y: Cylindrical shaft ø40
Parallel key 12x8x50



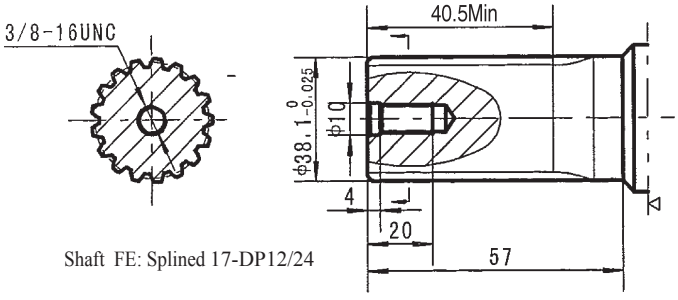
Shaft G2: Cylindrical shaft ø38.1
Parallel key 9.525x9.525x42



Shaft Y2: Cylindrical shaft ø40
Parallel key 12x8x63



Shaft T2: Cone-shaft ø41.25
Parallel key 11.13x11.13x31.75
Tightening torque:500±10Nm

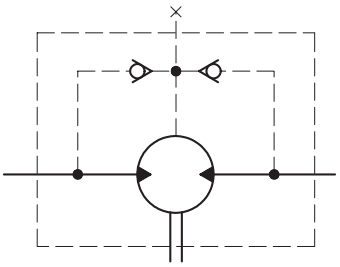


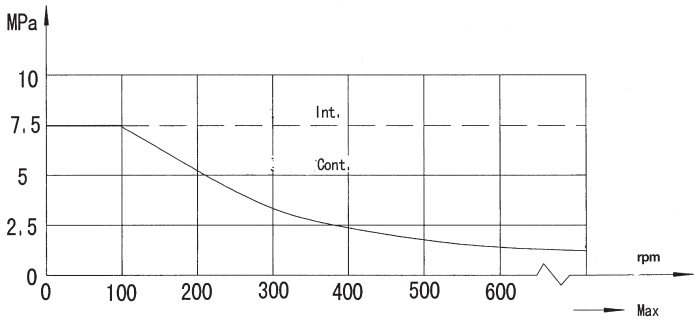
Shaft FE: Splined 17-DP12/24

▷ Motor Mounting Surface

BMT Series Hydraulic Motor

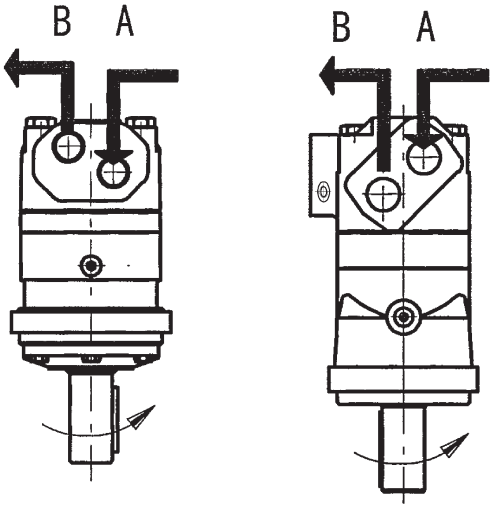
Permissible shaft seal pressure





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.

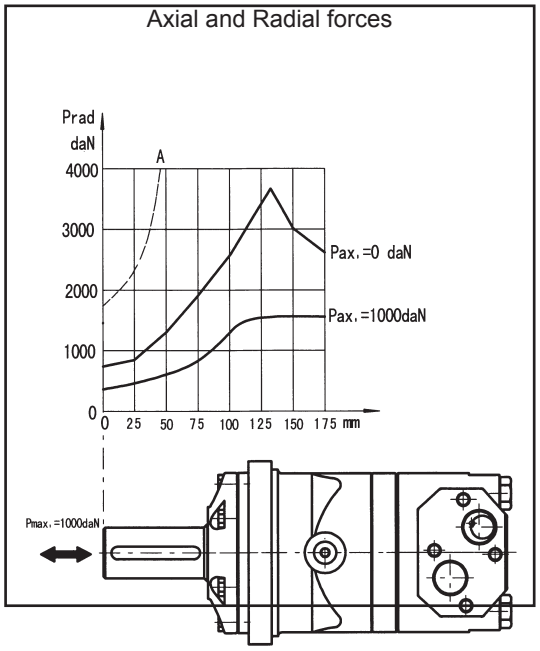


In applications without drain line, output shaft seal exceeds a bit of the pressure in the return line. When applications use the drain line, the pressure of output shaft seal equals the pressure in drain line.

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.)
14	20	2.5
	35	1.5
21	20	5
	35	3



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.

Order Information

1	2	3	4	5	6	7	8
BMT	–	–	–	–	–	–	–	–
BMTS	–	–	–	–	–	–	–	–

Pos.1	2	3		4		5		6		7		8	
Code	Disp.	Flange		Output Shaft		Ports and Drain Port		Rotation Direction		Paint		Unusually Function	
BMT	160 200 250 315 400 500 630 800	4	4-Ø14 Square-flangeØ160, pilotØ125 × 9	M	Shaft Ø40 , parallel key 12 × 8 × 70	D	G3/4 Manifold Mount,4-M10 , G1/4	Omit	Standard	00	No paint	Omit	Standard
		K6	4-Ø14.5Square-flangeØ162, pilotØ127 × 9	G	Shaft Ø38.1 ,parallel key 9.52 × 9.52 × 57.15	M	M27 × 2 Manifold Mount,4-M10, M14 × 1.5	R	Opposite	Omit	Blue	F	Free Running
		W	4-Ø18 Wheel-flangeØ200, pilotØ160 × 7	F	Shaft Ø38.1 ,splined tooth 17-DP12/24	S	1-1/16-12UN O-ring, 9/16-18UNF			B	Black	LS	Low Speed
				FD	Shaft Ø38.1 ,splined tooth 17-DP12/24	S1	1-1/16-12UN O-ring, 7/16-20UNF			S	Silver grey		
				T	Cone-shaft 1:10 Ø45 ,parallel key B12 × 8 × 28	G	G3/4,G1/4						
				T1	Cone-shaft 1:8 Ø45 , parallel key 11.13 × 11.13 × 31.75	M3	M27 × 2,M14 × 1.5						
				SL	shaft Ø34.85,Splined key								
				G1	Splined key 6-34.85 × 28.14 × 8.64 shaftØ31.75 , parallel key 7.96 × 7.96 × 40								
				F1	Shaft Ø31.75,splined tooth 14-DP12/24								
BMTS		D	4-Ø14 Circle-flange Ø160, pilot Ø125 × 8	Omit	Short shaft 16-DP12/24								
		E	4-Ø14.5 Square-flange Ø162, pilot Ø127 × 10										

Order Information

1	2	3	4	5	6	7	8
BMTE	–		–		–		–		–		–		–	

1	2	3	4	5	6	7	8
BMTJ	–		–		–		–		–		–		–	

Pos.1	2	3		4		5		6		7		8	
Code	Disp.	Flange		Output Shaft		Ports and Drain Port		Rotation Direction		Paint		Unusually Function	
BMTE	230 250 315 400 500 630 800	CC	4-Ø14.3 Square-flange Ø161.9, pilotØ127 × 12	G2 FE Y1 Y2 T2	Shaft Ø38.1 ,parallel key 9.52 × 9.52 × 42 Shaft Ø38.1 ,splined tooth 17-DP12/24 ShaftØ40,parallel key 12 × 8 × 63 ShaftØ40,parallel key 12 × 8 × 63 Cone-shaft 1:8 Ø41.25 , parallel key 11.13 × 11.13 × 31.75	SF SF5 SF6 SF7 SE SE1 SE2	3/4”, Manifold Mount,8-3/8-16UNC, 7/16-20UNF 1-5/16-12UN O-ring,7/16-20 UNF M33 × 2,M14 × 1.5 G1,G1/4 1-1/16-12UN O-ring,9/16-18UNF 1-1/16-12UN O-ring,7/16-20 UNF G3/4,G1/4	Omit R	Standard Opposite	00 Omit B S	No paint Blue Black Silver grey	Omit F LS	Standard Free Running Low Speed
		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								
BMTJ		J	4-Ø14.5 Square-flange Ø161.9 pilot Ø127 × 12.4	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 .

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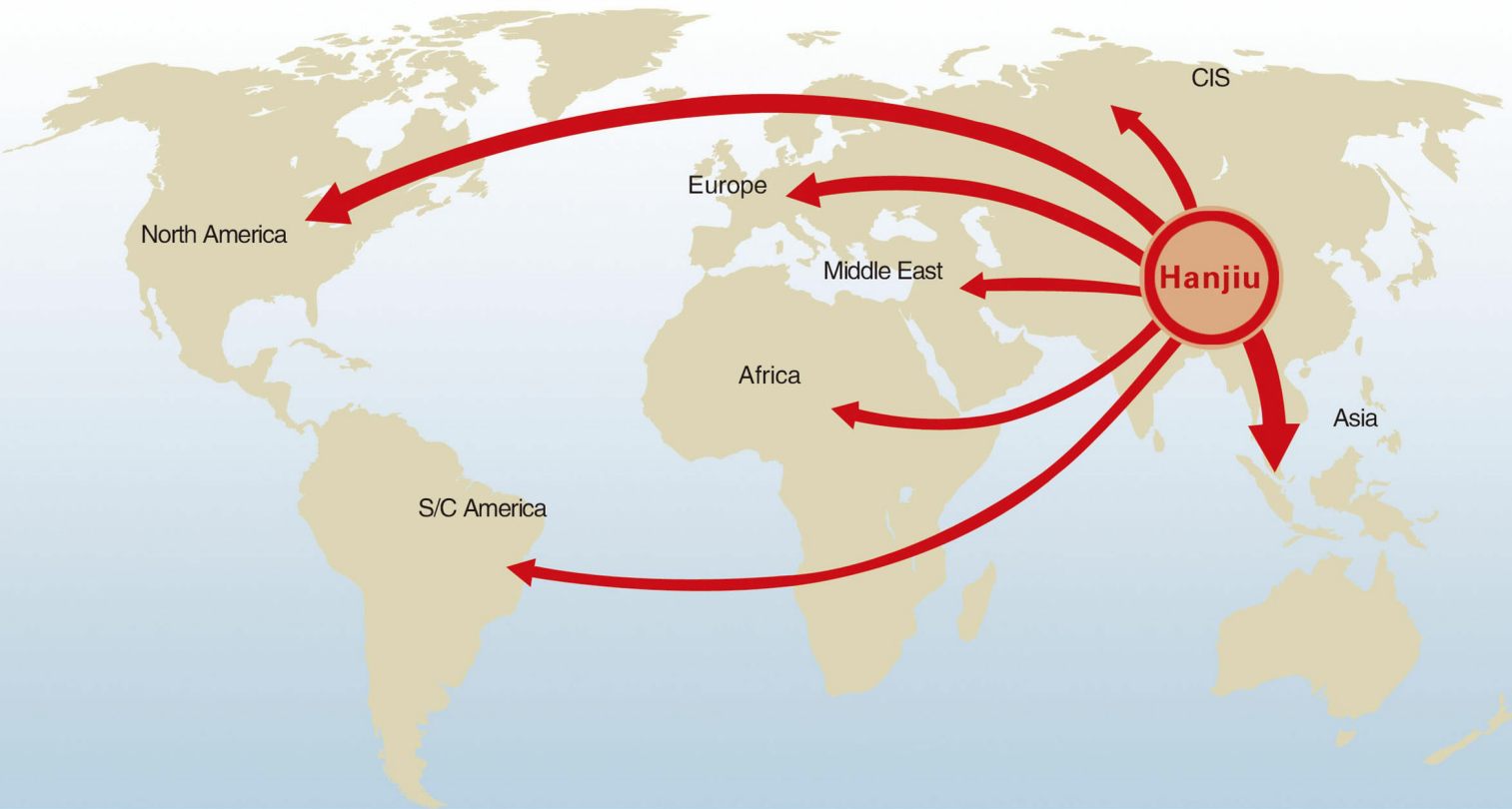

CE

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