

# SUFON MOTOR

## 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.

### Main Specification

Type		BMT 160	BMT 200	BMT 230	BMT 250	BMT 315	BMT 400	BMT 500	BMT 630	BMT 800
Geometric displacement (cm <sup>3</sup> /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)	rated	80	100	100	100	100	100	100	100	100
	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 [161.1cm<sup>3</sup>/rev.]

Pressure (MPa)

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

BMT 200 [201.4cm<sup>3</sup>/rev.]

Pressure (MPa)

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

BMT 250 [251.8cm<sup>3</sup>/rev.]

Pressure (MPa)

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

BMT 315 [326.3cm<sup>3</sup>/rev.]

Pressure (MPa)

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

Torque (N•m) 552  
Speed (rpm) 572



# Performance Data

BMT 400 [410.9cm<sup>3</sup>/rev.]

Pressure (MPa)

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

BMT 500 [523.6cm<sup>3</sup>/rev.]

Pressure (MPa)

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

BMT 630 [629.1cm<sup>3</sup>/rev.]

Pressure (MPa)

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

BMT 800 [801.8cm<sup>3</sup>/rev.]

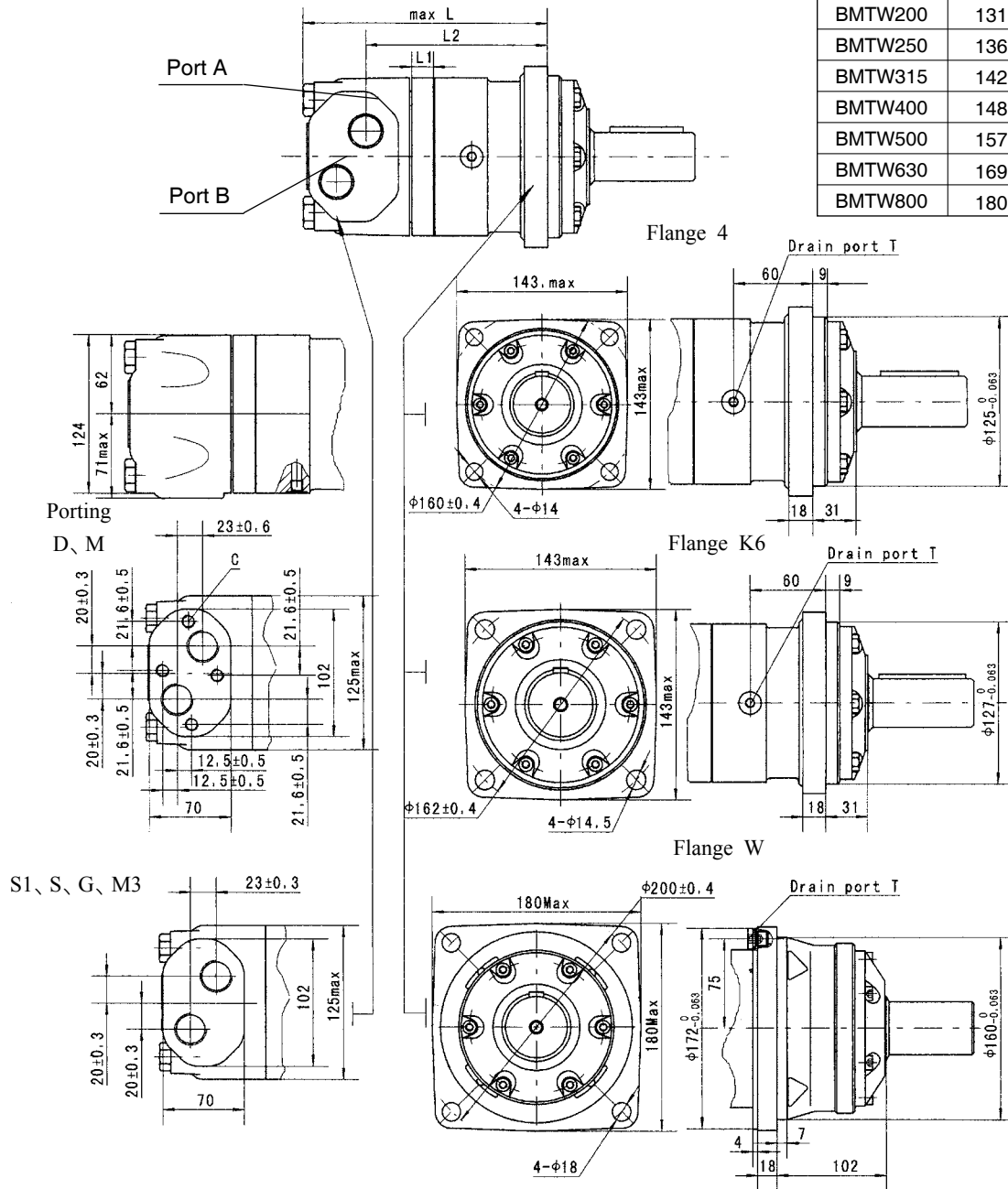
Pressure (MPa)

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

Torque (N•m) 1121  
Speed (rpm) 227

## 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

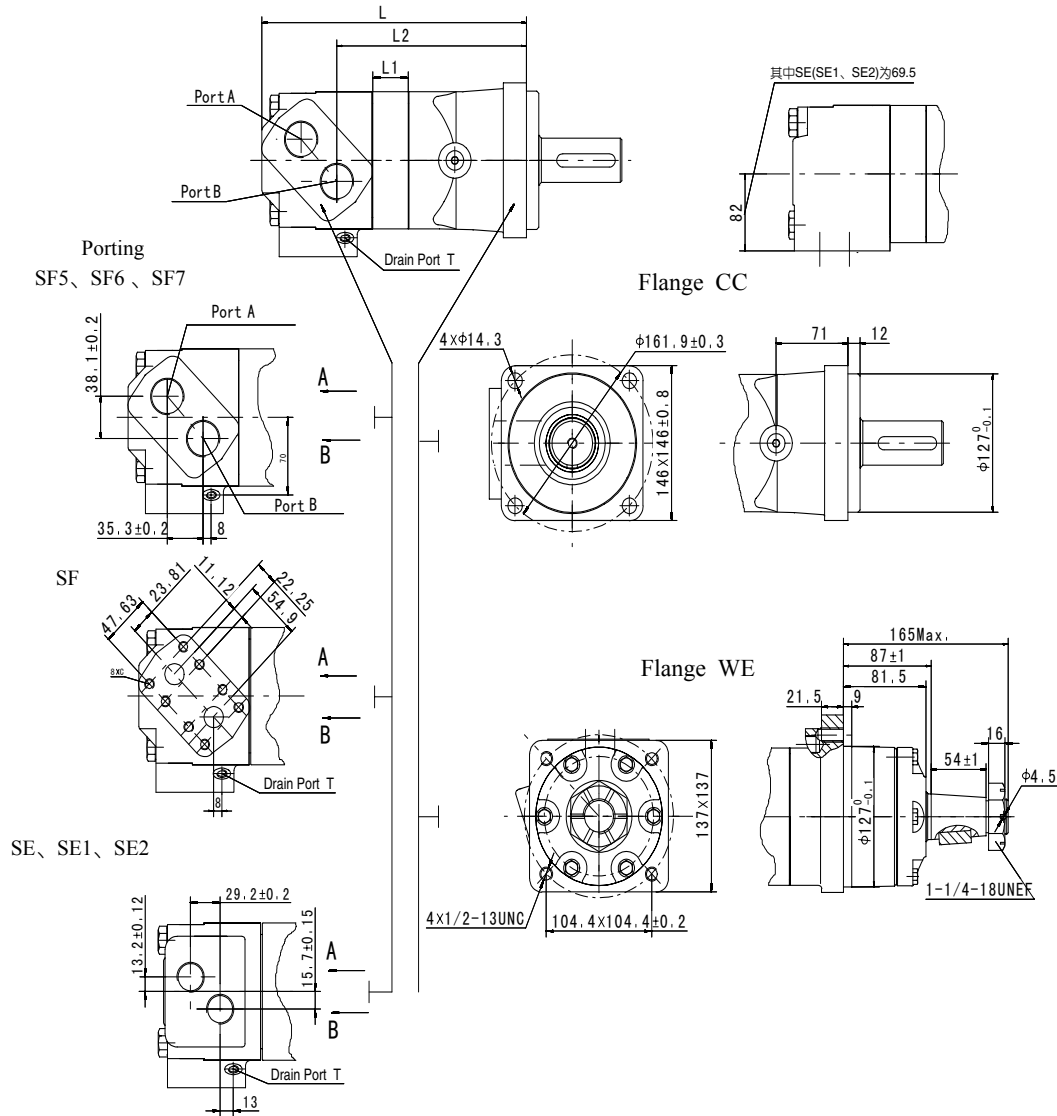


Model	L	L1	L2
BMT160	193	17	142.5
BMT200	197	21	146.5
BMT250	204	14	152.5
BMT315	210	20	158.5
BMT400	217	27	165.5
BMT500	225	35	173.5
BMT630	237	47	185.5
BMT800	248	58	196.5

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 DIMENSIONS AND MOUNTING DATA

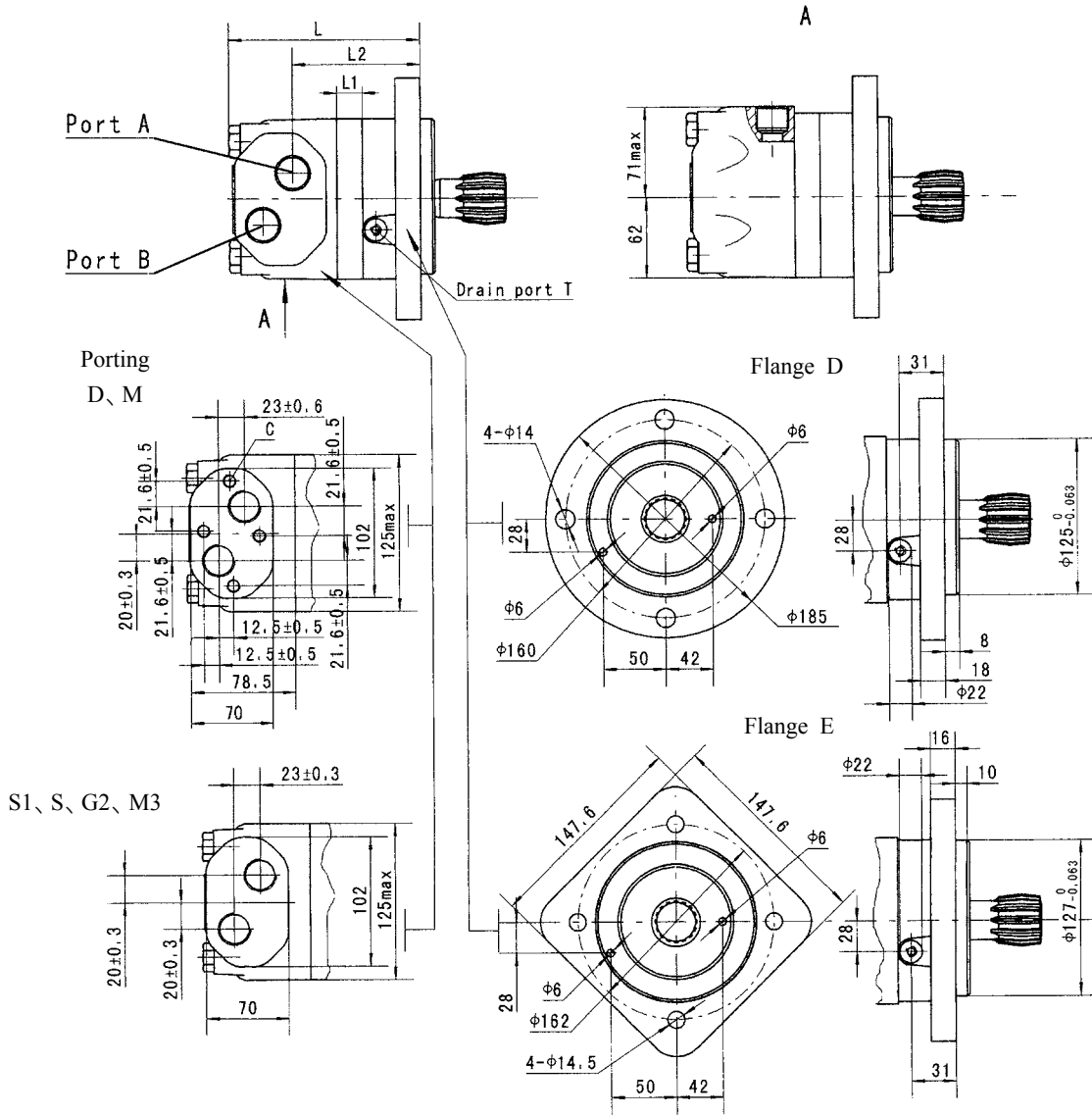


Model	L	L1	L2
BMTE230	238.5	12	164.5
BMTE250	240.5	14	166.5
BMTE315	246.5	20	172.5
BMTE400	253.5	27	179.5
BMTE500	261.5	35	187.5
BMTE630	273.5	47	199.5
BMTE800	284.5	58	210.5

Note: 1) The data for the port of SF (SF5 and SF6 and 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 DIMENSIONS AND MOUNTING DATA

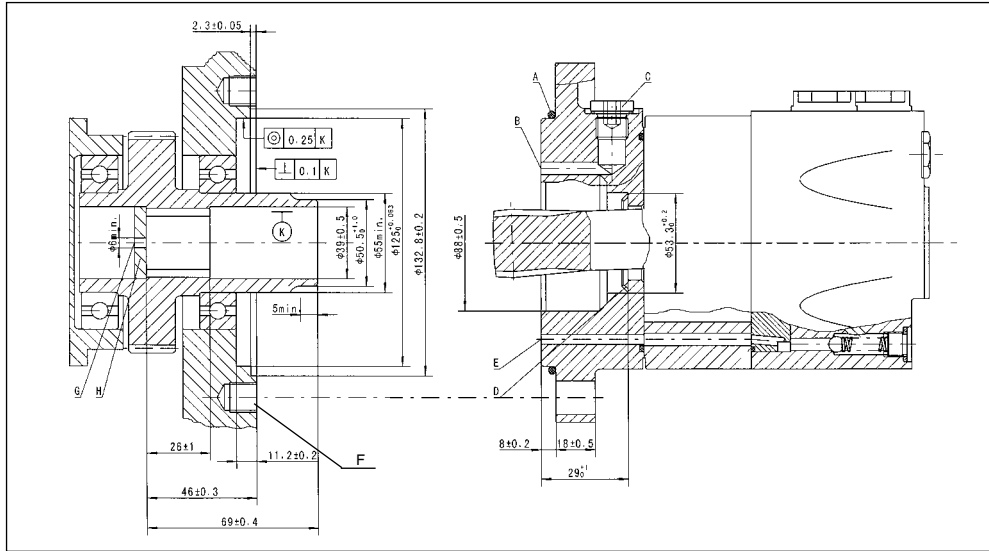


Model	L	L1	L2
BMT160	148	17	96.5
BMT200	152	21	100.5
BMT250	157	14	109
BMT315	163	20	115
BMT400	170	27	122
BMT500	178	35	130
BMT630	190	47	142
BMT800	201	58	153

Content	Code					
	D (depth)	M (depth)	S (depth)	G (depth)	M3 (depth)	S1 (depth)
Mounting 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.

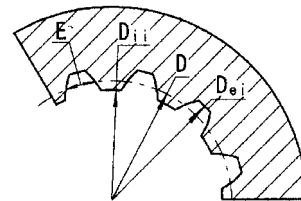
## BMTS MOUNTING DATA



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

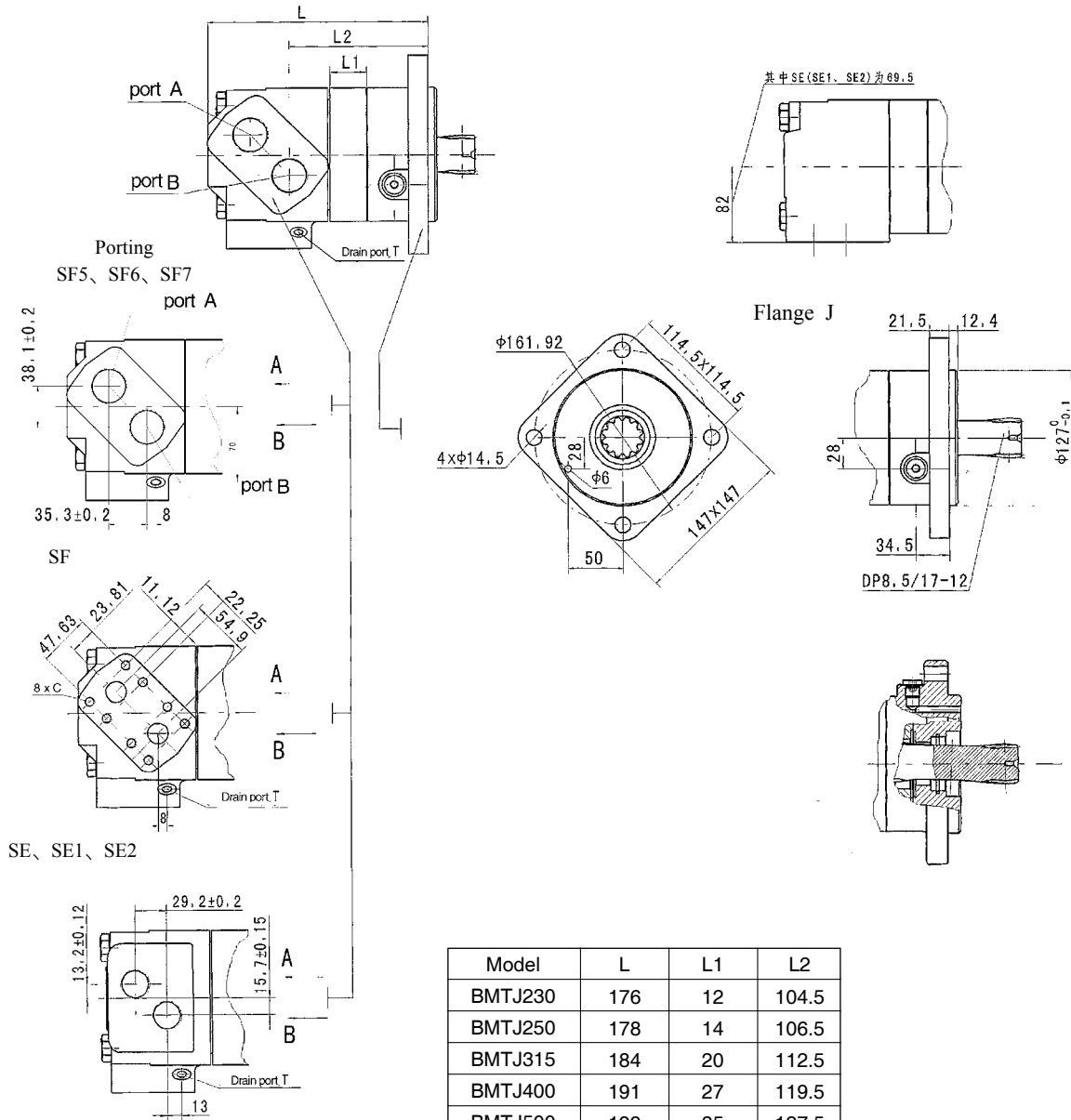
### INTERNAL SPLINE DATA FOR THE ATTACHED COMPONENT

Fillet Root Side Fit		mm
Number of Teeth	Z	16
Diametral Pitch	DP	12/24
Pressure Angle	$\alpha_D$	30°
Pitch Dia.	D	$\phi 33.8656$
Major Dia.	$D_{ei}$	$\phi 38.4^{+0.25}_0$
Minor Dia.	$D_i$	$\phi 32.15^{+0.04}_0$
Space Width [Circular]	E	$4.516 \pm 0.037$



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

## BMTJ DIMENSIONS AND MOUNTING DATA

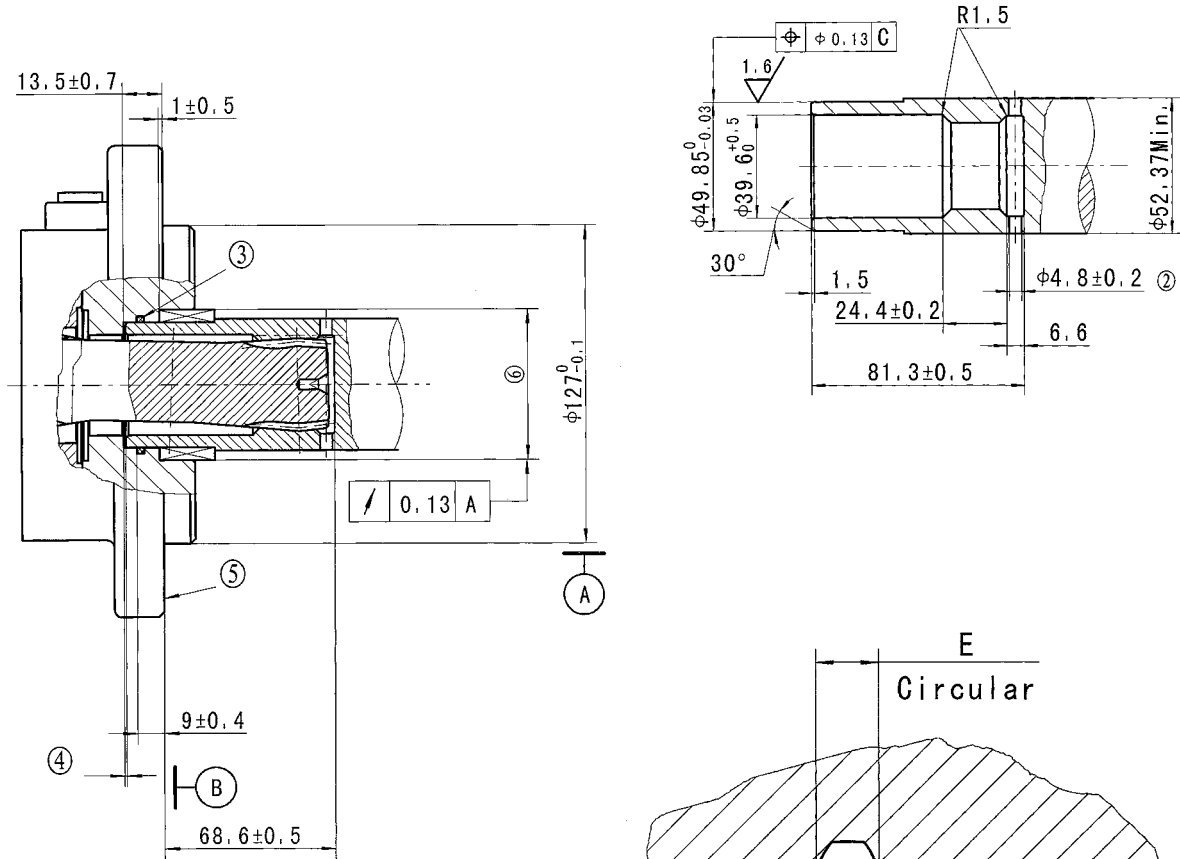


Model	L	L1	L2
BMTJ230	176	12	104.5
BMTJ250	178	14	106.5
BMTJ315	184	20	112.5
BMTJ400	191	27	119.5
BMTJ500	199	35	127.5
BMTJ630	211	47	139.5
BMTJ800	222	58	150.5

Note: 1) The data for the port of SF (SF5 and SF6 and 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 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 DIMENSIONS AND MOUNTING DATA

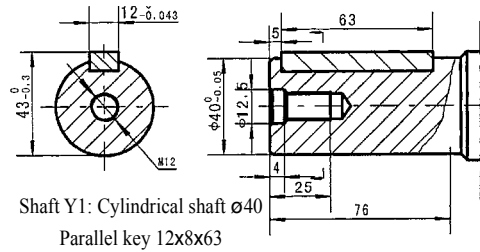
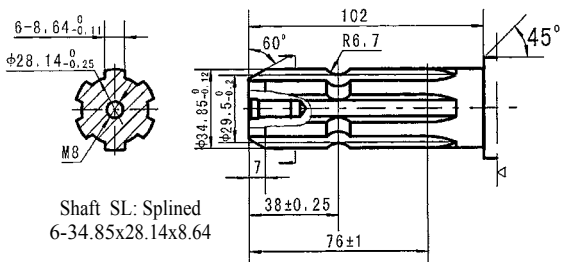
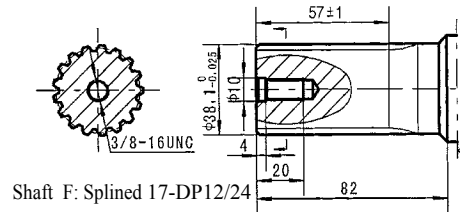
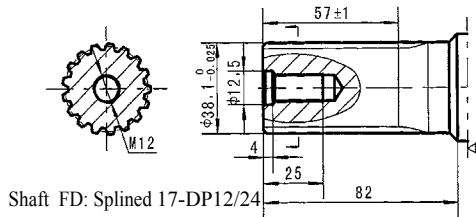
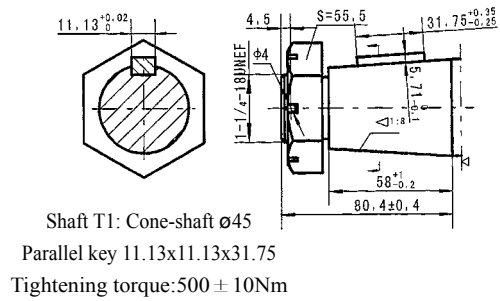
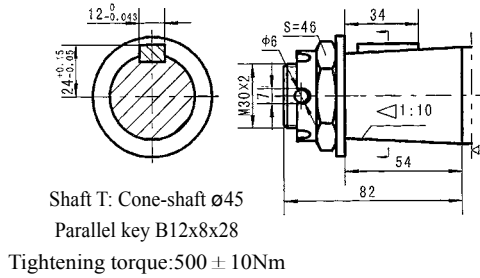
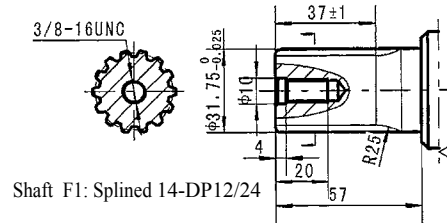
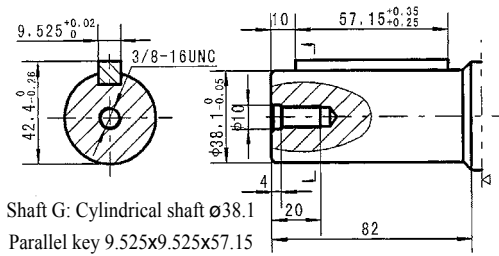
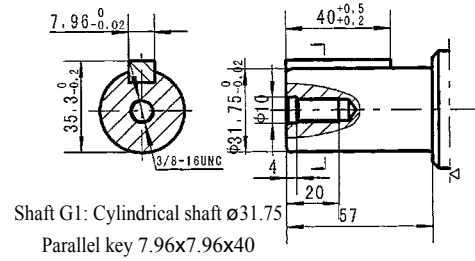
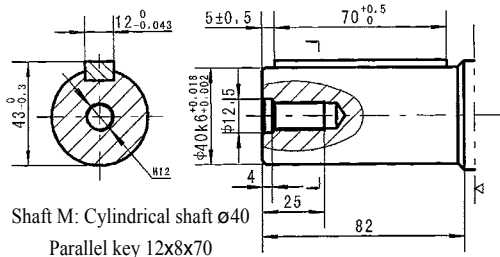


### INTERNAL SPLINE DATA FOR THE ATTACHED COMPONENT

Fillet Root Side Fit		mm
Number of Teeth	Z	12
Diametral Pitch	DP	8.5/17
Pressure Angle	D	30°
Pitch Dia.	$\alpha_D$	$\phi 35.858823$
Major Dia.	$D_{ei}$	$\phi 38.97^{+0.20}_0$
Minor Dia.	$D_{ii}$	$\phi 33.3^{+0.18}_0$
Space Width [Circular]	E	$5.866 \pm 0.032$
Dimension between two pins( $\phi 4$ )	$M_e$	$26.929-27.084$

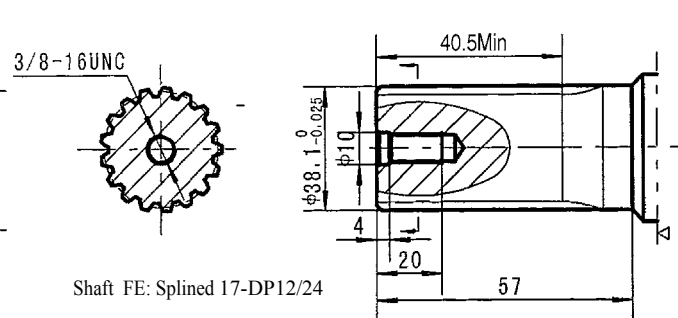
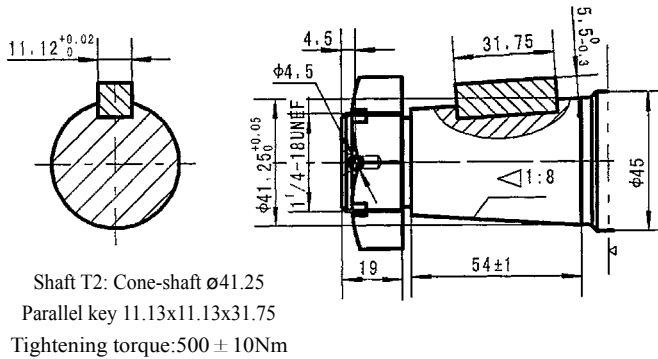
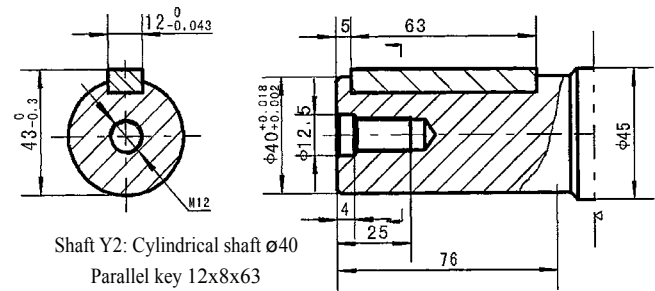
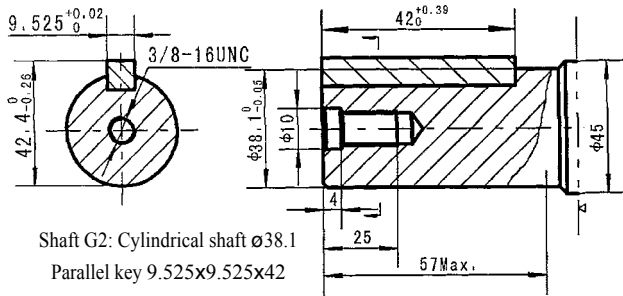
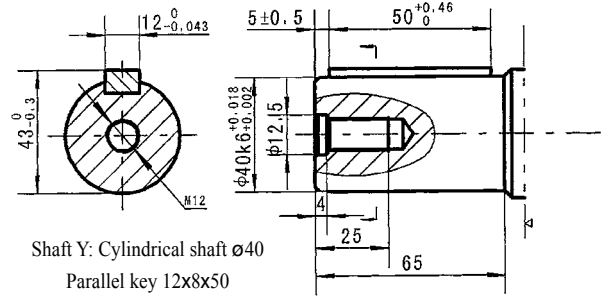
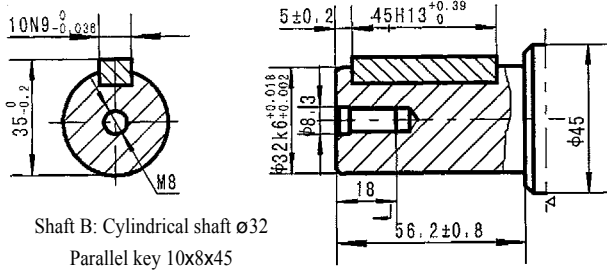
- ① Internal spline in mating part to be as follows: Material to be ASTM A304, 8620H. Carborize to a hardness of 60-64HRC with case depth (to 50HRC) of 0.75-1 [.030-.040] (dimensions apply after heat treat).
- ② Mating part to have critical dimensions as shown, Oil holes must be provided and open for 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.

## SHAFT EXTENSIONS FOR BMT(E) MOTORS



▷ Motor Mounting Surface

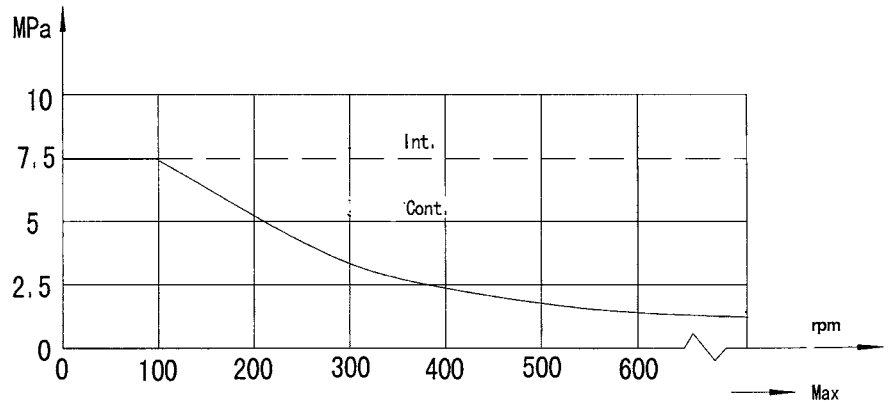
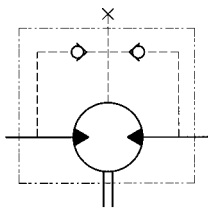
## SHAFT EXTENSIONS FOR BMT(E) MOTORS



▷ Motor Mounting Surface

# BMT Series Hydraulic Motor

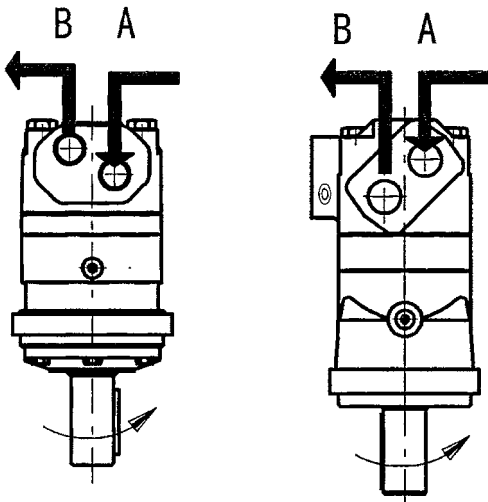
## Permissible shaft seal pressure



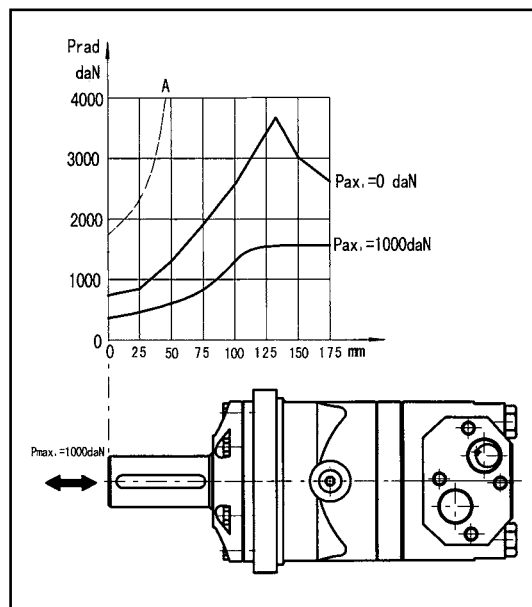
In applications without drain line, output shaft seal exceeds a bit of the pressure in the return line. When applications use the drain line, the pressure of output shaft seal equals the pressure in drain line.

## Standard 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.

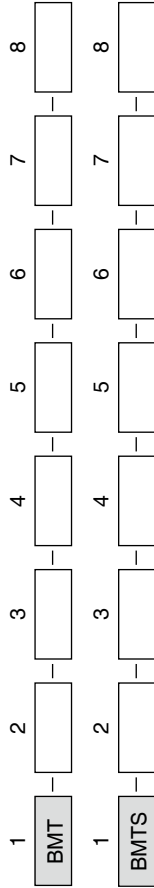


## Axial and Radial forces



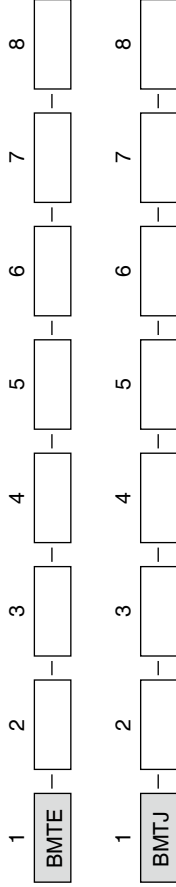
The output shaft runs in tapered bearings that permit high axial and radial forces, Curve "A" shows max radial shaft load, Any shaft loads exceeding the values quoted in the curve will involve a risk of breakage, The two other curves apply to a B10 bearing life of 3000 hours at 200 RPM.

## Order Information



Pos.1	2	3	4	5	6	7	8
Code	Disp.	Flange	Output Shaft	Port and Drain Port	Rotation Direction	Paint	Unusually Function
BMT	160	4-Ø14 Square-flange Ø160, pilot Ø125 × 9	M Shaft Ø40, parallel key 12 × 8 × 70	D G3/4 Manifold Mount, 4-M10, G1/4	Standard	No paint	Standard
	200		G Shaft Ø38.1, parallel key 9.52 × 9.52 × 57.15				
	250		F Shaft Ø38.1, splined tooth 17-DP12/24				
	315		FD Shaft Ø38.1, splined tooth 17-DP12/24				
	400		T Cone-shaft 1:10 Ø45, parallel key B12 × 8 × 28				
	500		T1 Cone-shaft 1:8 Ø45, parallel key 11.13 × 11.13 × 31.75				
	630		SL shaft Ø34.85, Splined key				
	800		G1 Splined key 6-34.85 × 28.14 × 8.64				
			F1 shaft Ø31.75, parallel key 7.96 × 7.96 × 40				
BMTS		D 4-Ø14 Circle-flange Ø160, pilot Ø125 × 8	M3 Short shaft 16-DP12/24	M27 × 2, M14 × 1.5	Omit	Silver grey	Low Speed
		E 4-Ø14.5 Square-flange Ø162, pilot Ø127 × 10					

## Order Information



Pos.1	2	3	4	5	6	7	8
Code	Disp.	Flange	Output Shaft	Port 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 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 M33 × 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 R Standard Opposite	00 Omit B S	No paint Blue Black Silver grey
			FE Shaft Ø38.1 ,splined tooth 17-DP12/24				
			Y1 ShaftØ40,parallel key 12 × 8 × 63				
			Y2 ShaftØ40,parallel key 12 × 8 × 63				
			T2 Cone-shaft 1:8 Ø41.25 , parallel key 11.13 × 11.13 × 31.75				
			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				

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 .