



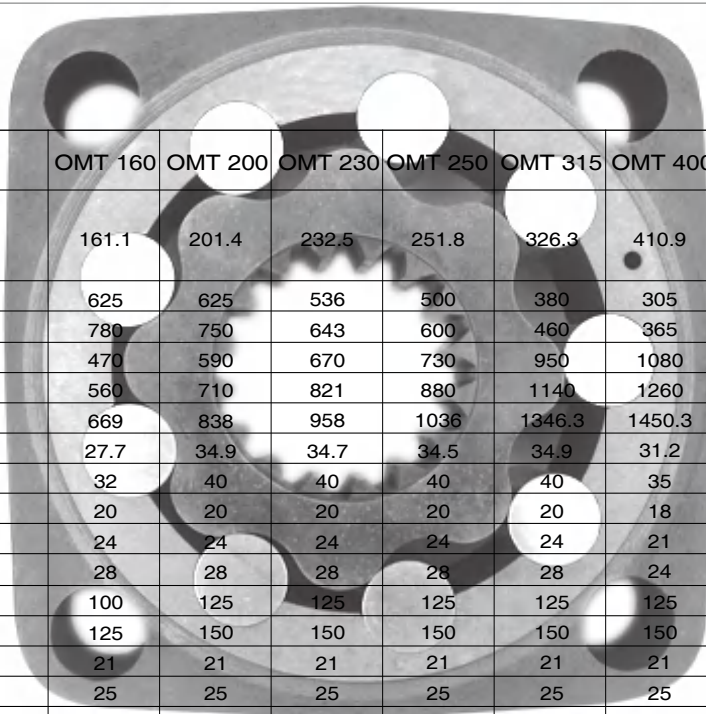
## OMT SERIES HYDRAULIC MOTOR

OMT 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 Specifaion



Type		OMT 160	OMT 200	OMT 230	OMT 250	OMT 315	OMT 400	OMT 500	OMT 630	OMT 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)	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

OMT 160 [161.1cm³/rev.]

Pressure (MPa)

	Max.cont.				Max.int.		
	4	8	10	12	16	20	24

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

OMT 200 [201.4cm³/rev.]

Pressure (MPa)

	Max.cont.				Max.int.			
	4	8	10	12	16	20	24	

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

OMT 250 [251.8cm³/rev.]

Pressure (MPa)

	Max.cont.				Max.int.		
	4	8	10	12	16	20	24

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

OMT 315 [326.3cm³/rev.]

Pressure (MPa)

	Max.cont.				Max.int.			
	4	8	10	12	16	20	24	

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

Torque (N•m) 552  
Speed (rpm) 572



Performance Data

OMT 400 [410.9cm³/rev.]

Pressure (MPa)

Max.cont. Max.int.

3	6	9	12	15	18	21
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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>
Flow (L/min)	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>
Flow (L/min)	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>	1221 <b>278</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>

OMT 500 [523.6cm³/rev.]

Pressure (MPa)

Max.cont. Max.int.

3	6	9	12	14	16	18
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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>
Flow (L/min)	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>
Flow (L/min)	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>	1352 <b>225</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>

OMT 630 [629.1cm³/rev.]

Pressure (MPa)

Max.cont. Max.int.

3	6	9	10.5	12	14	16
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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>
Flow (L/min)	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>
Flow (L/min)	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>	1472 <b>183</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>

OMT 800 [801.8cm³/rev.]

Pressure (MPa)

Max.cont. Max.int.

3	6	9	10.5	12.5	13
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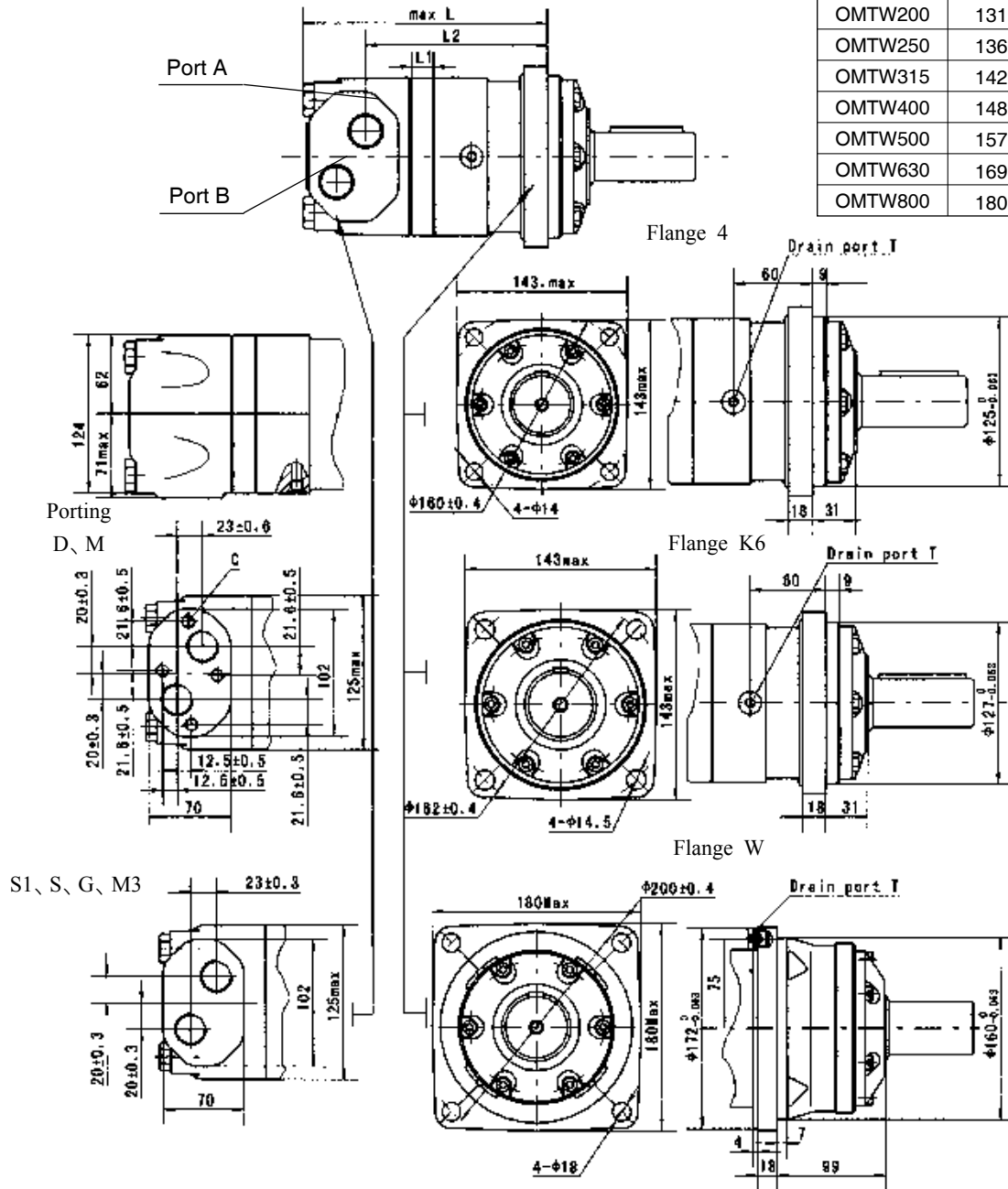
Flow (L/min)	10	346 <b>12</b>	677 <b>12</b>	1003 <b>11</b>	1159 <b>11</b>	1365 <b>11</b>	1390 <b>10</b>
	20	356 <b>24</b>	692 <b>24</b>	1034 <b>24</b>	1183 <b>23</b>	1404 <b>22</b>	1458 <b>18</b>
Flow (L/min)	40	365 <b>50</b>	703 <b>50</b>	1066 <b>49</b>	1236 <b>48</b>	1459 <b>46</b>	1516 <b>40</b>
	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>
Flow (L/min)	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



OMT DIMENSIONS AND MOUNTING DATA

Model	L	L1	L2
OMTW160	127	17	77
OMTW200	131	21	81
OMTW250	136	14	86
OMTW315	142	20	91
OMTW400	148	27	98
OMTW500	157	35	106
OMTW630	169	47	118
OMTW800	180	58	129



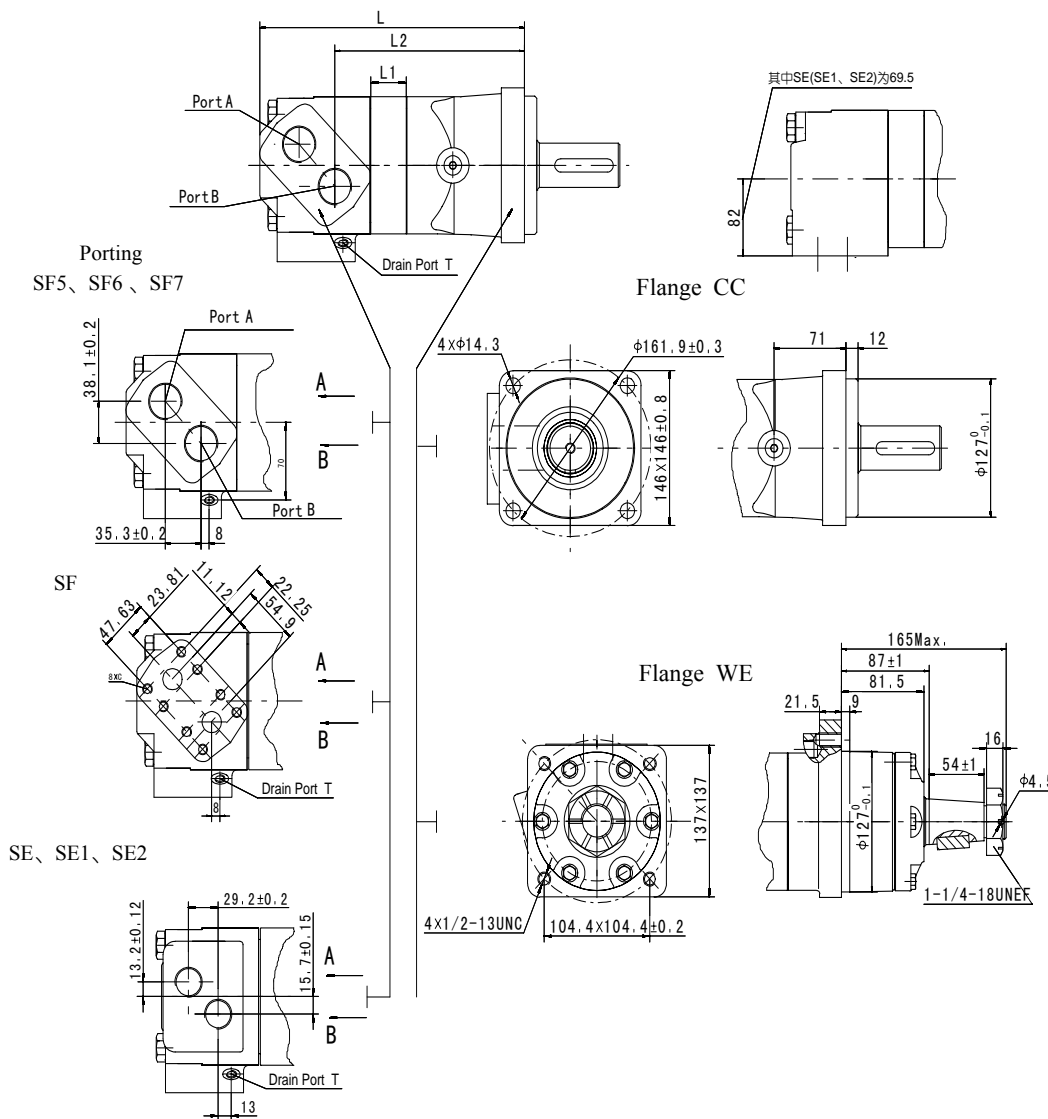
Model	L	L1	L2
OMT160	193	17	142.5
OMT200	197	21	146.5
OMT250	204	14	152.5
OMT315	210	20	158.5
OMT400	217	27	165.5
OMT500	225	35	173.5
OMT630	237	47	185.5
OMT800	248	58	196.5

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.



OMTE DIMENSIONS AND MOUNTING DATA



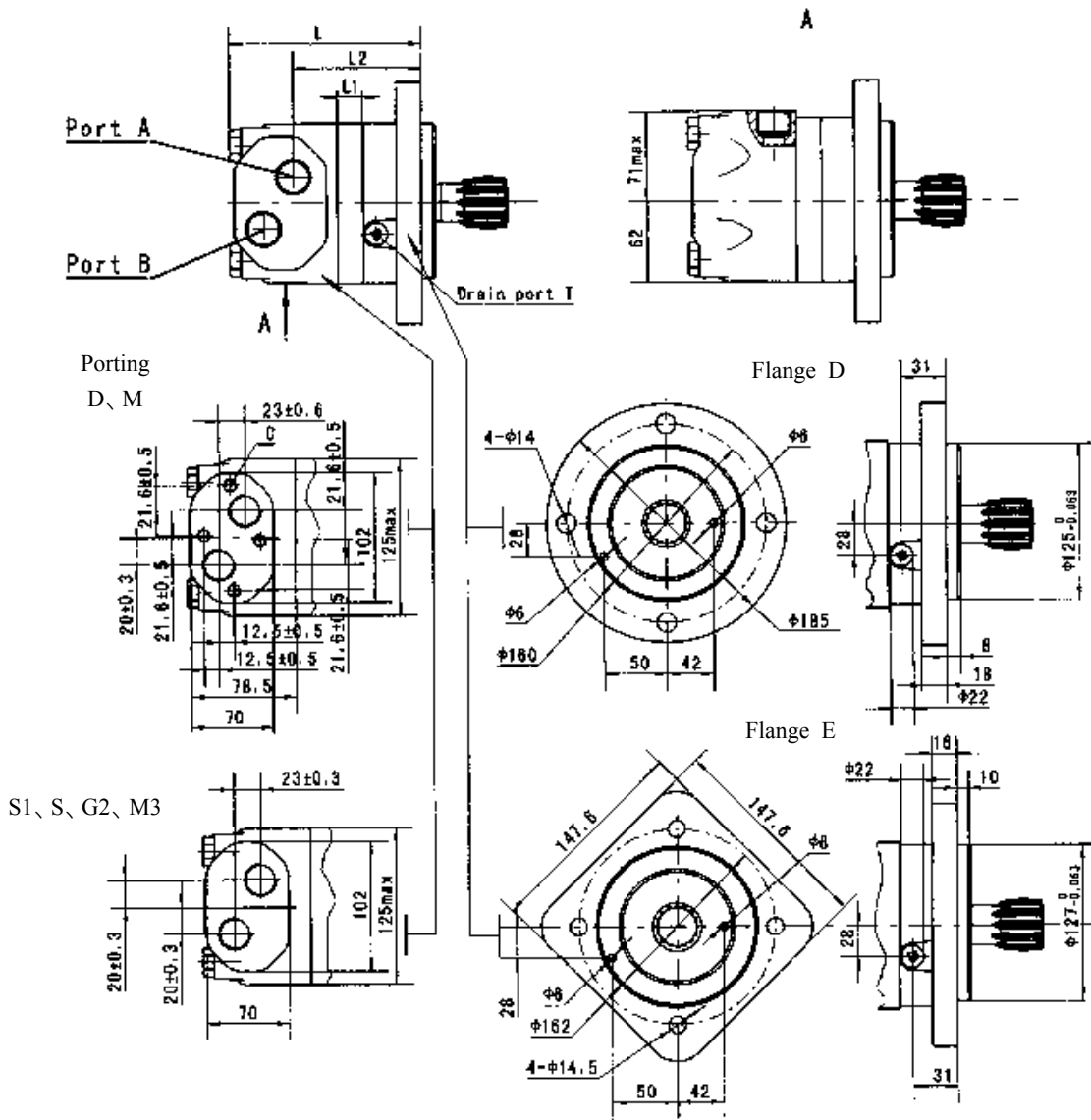
Model	L	L1	L2
OMTE230	238.5	12	164.5
OMTE250	240.5	14	166.5
OMTE315	246.5	20	172.5
OMTE400	253.5	27	179.5
OMTE500	261.5	35	187.5
OMTE630	273.5	47	199.5
OMTE800	284.5	58	210.5

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

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



OMTS DIMENSIONS AND MOUNTING DATA



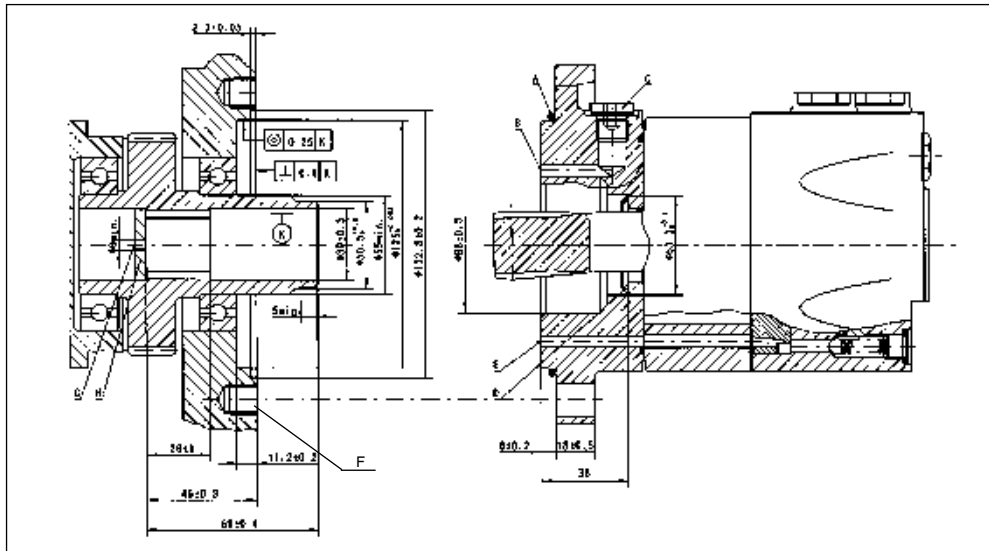
Model	L	L1	L2
OMT160	148	17	96.5
OMT200	152	21	100.5
OMT250	157	14	109
OMT315	163	20	115
OMT400	170	27	122
OMT500	178	35	130
OMT630	190	47	142
OMT800	201	58	153

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.



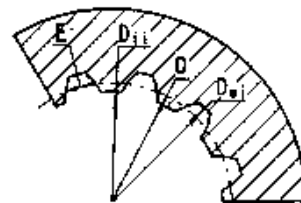
OMTS MOUNTING DATA



- 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

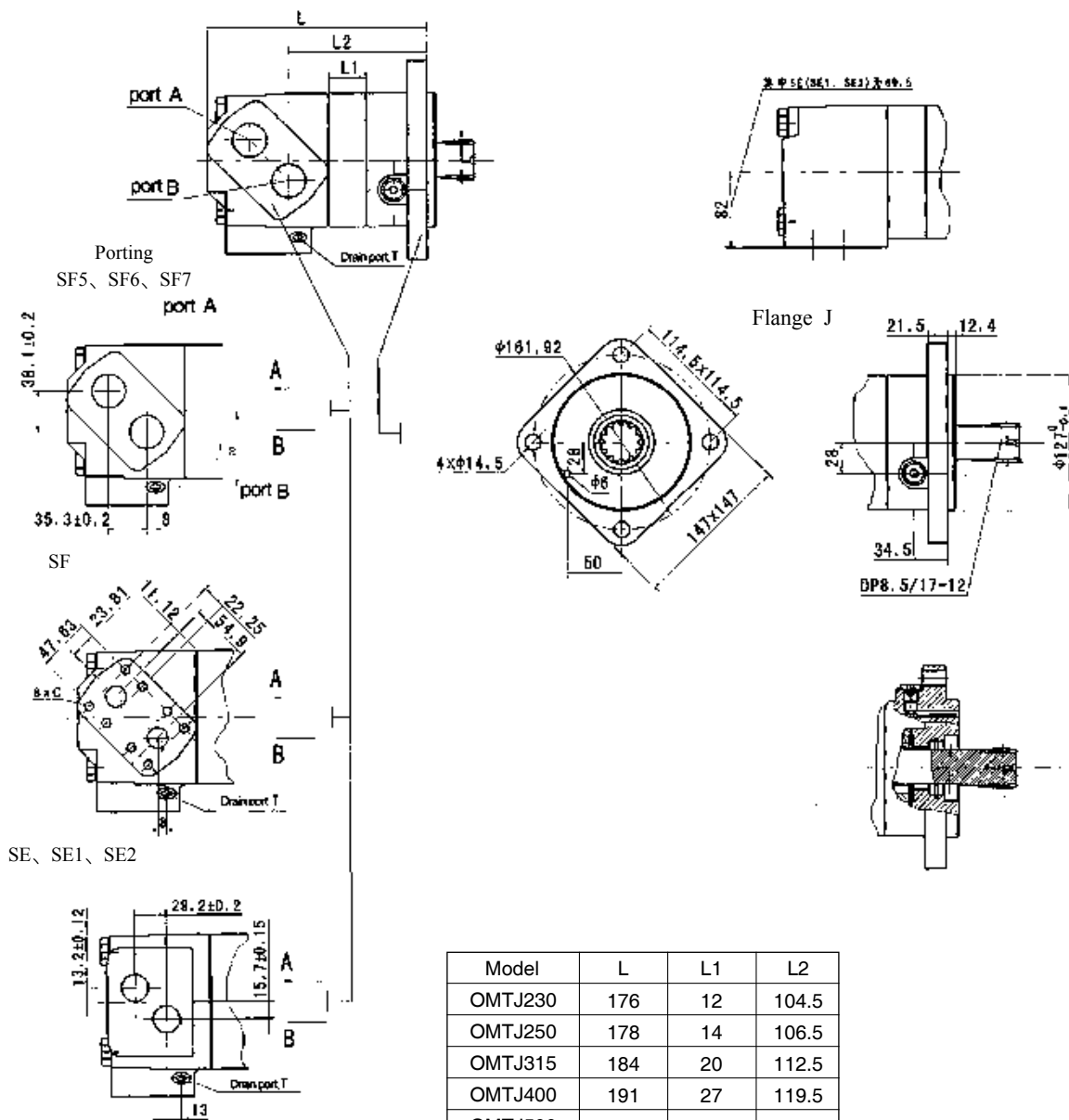
Fillet Root Side Fit		mm
Number of Teeth	Z	16
Diametral Pitch	DP	12/24
Pressure Angle	$\alpha_D$	30°
Pitch Dia.	D	$\phi 33.8656$
Major Dia.	$D_{ei}$	$\phi 38.4^{+0.25}_0$
Minor Dia.	$D_i$	$\phi 32.15^{+0.04}_0$
Space Width [Circular]	E	$4.516 \pm 0.037$



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



OMTJ DIMENSIONS AND MOUNTING DATA



Model	L	L1	L2
OMTJ230	176	12	104.5
OMTJ250	178	14	106.5
OMTJ315	184	20	112.5
OMTJ400	191	27	119.5
OMTJ500	199	35	127.5
OMTJ630	211	47	139.5
OMTJ800	222	58	150.5

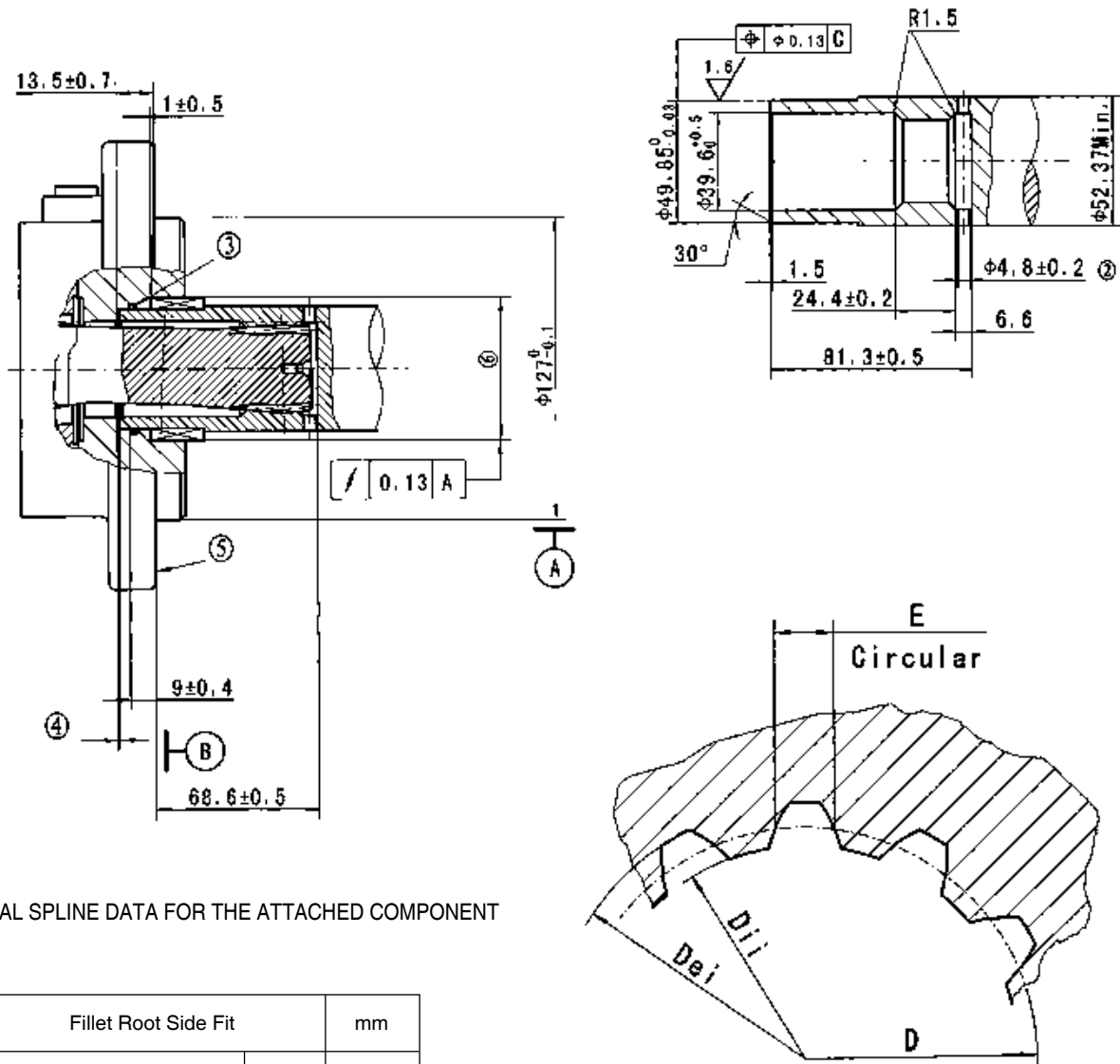
Note: 1) The data for the port of SF (SF5 and SF6 and SF7).  
 2) The data for the port of SE (SE1 and SE2) and flange WE: L-70 and L2-59.  
 3) The thickness of the stator and rotor is the dimension of L1 adding on 7mm.

Content	Code						
	SF5 (depth)	SF6 (depth)	SF7 (depth)	SF (depth)	SE (depth)	SE1 (depth)	SE2 (depth)
Mounting 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	--	--	--





OMTJ DIMENSIONS AND MOUNTING DATA



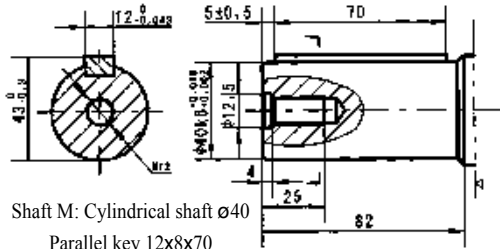
INTERNAL SPLINE DATA FOR THE ATTACHED COMPONENT

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.	$D_i$	$\phi 33.3^{+0.18}_0$
Space Width [Circular]	E	$5.866 \pm 0.032$
Dimension between two pins( $\phi 4$ )	$M_0$	$26.929-27.084$

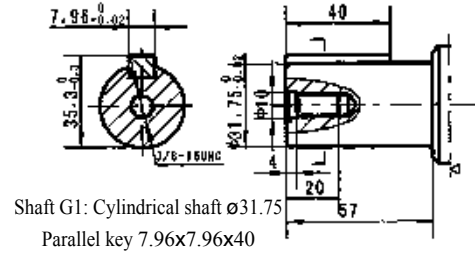
- ① Internal spline in mating part to be as follows:Material to be ASTM A304, 8620H. Carborize to a hardness of 60-64HRC with case depth (to 50HRC) of 0.75-1 [ .030-.040] (dimensions apply after heat treat).
- ② Mating part to have critical dimensions as shown, Oil holes must be provided and open for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



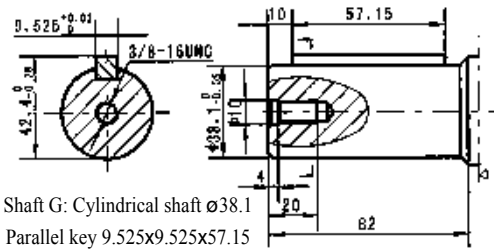
SHAFT EXTENSIONS FOR OMT(E) MOTORS



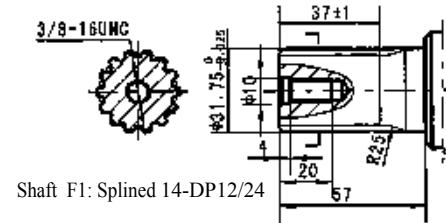
Shaft M: Cylindrical shaft  $\phi 40$   
Parallel key 12x8x70



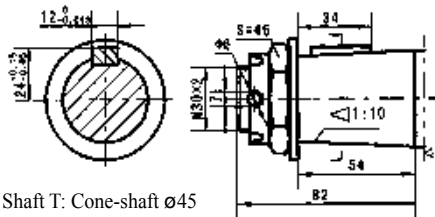
Shaft G1: Cylindrical shaft  $\phi 31.75$   
Parallel key 7.96x7.96x40



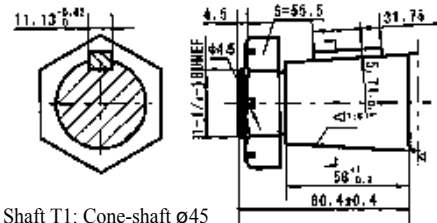
Shaft G: Cylindrical shaft  $\phi 38.1$   
Parallel key 9.525x9.525x57.15



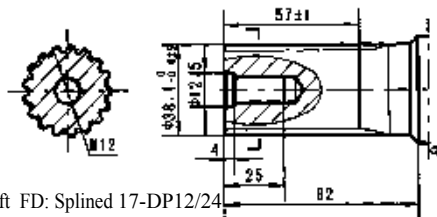
Shaft F1: Splined 14-DP12/24



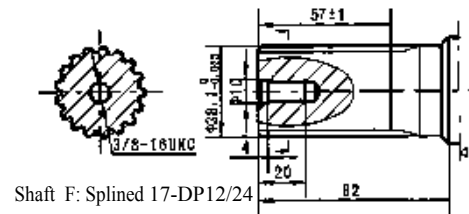
Shaft T: Cone-shaft  $\phi 45$   
Parallel key B12x8x28  
Tightening torque:  $500 \pm 10\text{Nm}$



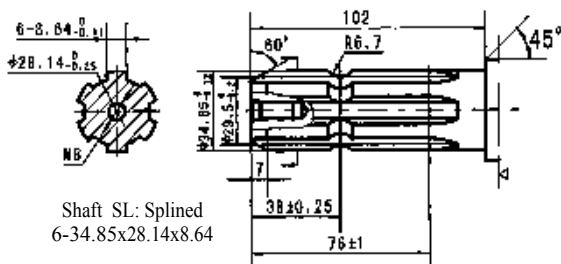
Shaft T1: Cone-shaft  $\phi 45$   
Parallel key 11.13x11.13x31.75  
Tightening torque:  $500 \pm 10\text{Nm}$



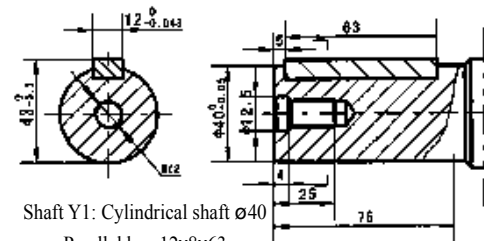
Shaft FD: Splined 17-DP12/24



Shaft F: Splined 17-DP12/24



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

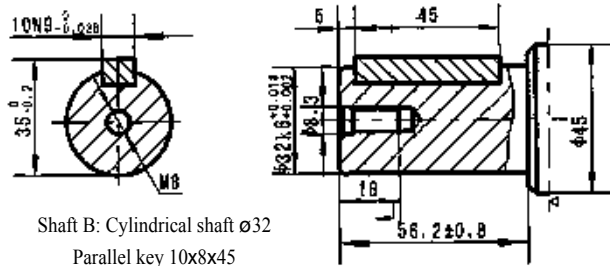


Shaft Y1: Cylindrical shaft  $\phi 40$   
Parallel key 12x8x63

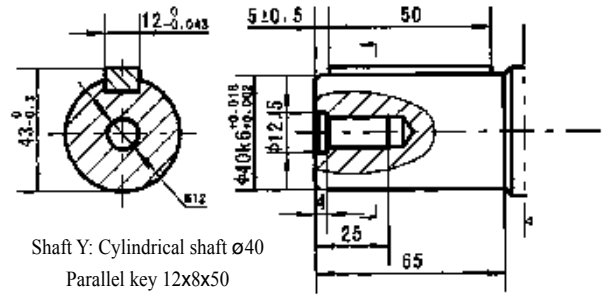
▷ Motor Mounting Surface



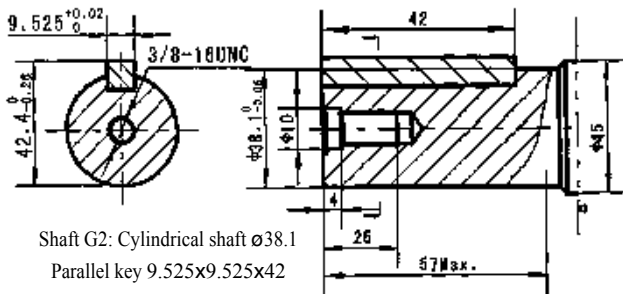
SHAFT EXTENSIONS FOR OMT(E) MOTORS



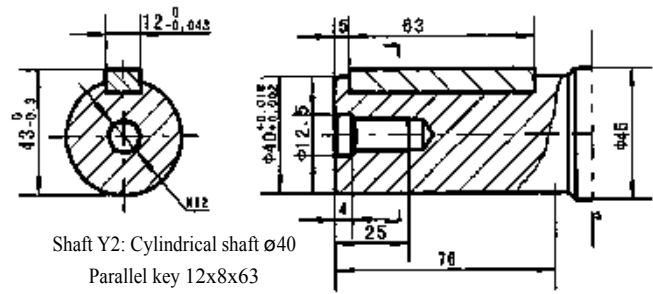
Shaft B: Cylindrical shaft  $\phi 32$   
Parallel key 10x8x45



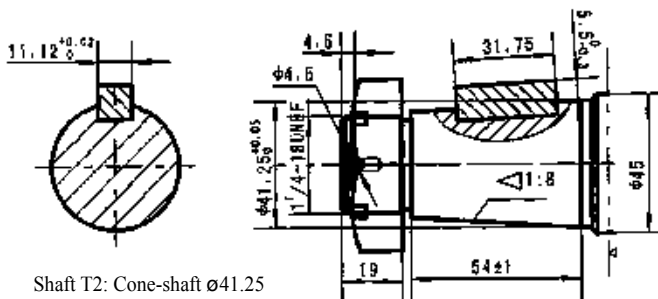
Shaft Y: Cylindrical shaft  $\phi 40$   
Parallel key 12x8x50



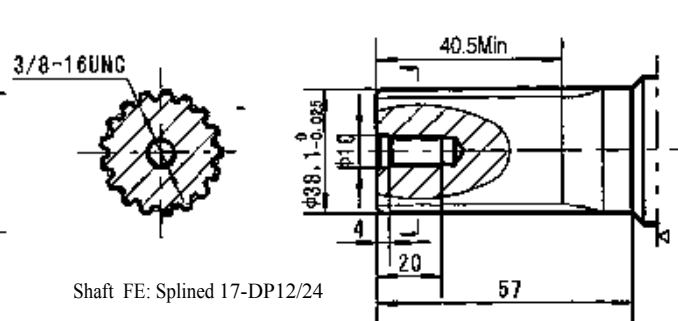
Shaft G2: Cylindrical shaft  $\phi 38.1$   
Parallel key 9.525x9.525x42



Shaft Y2: Cylindrical shaft  $\phi 40$   
Parallel key 12x8x63



Shaft T2: Cone-shaft  $\phi 41.25$   
Parallel key 11.13x11.13x31.75  
Tightening torque: 500 ± 10Nm



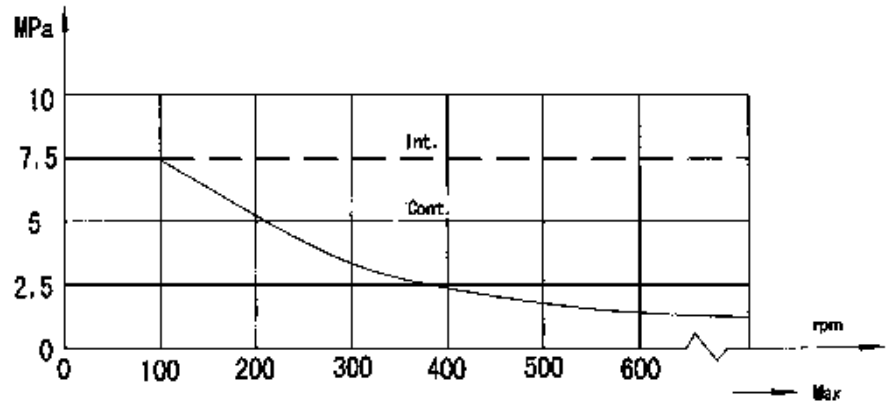
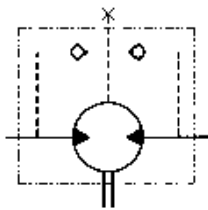
Shaft FE: Splined 17-DP12/24

▷ Motor Mounting Surface



OMT Series Hydraulic Motor

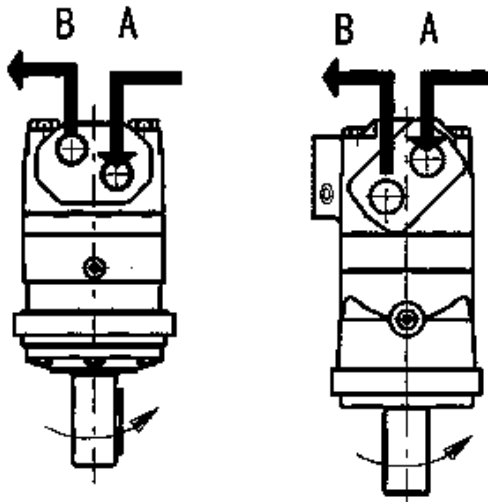
Permissible shaft seal pressure



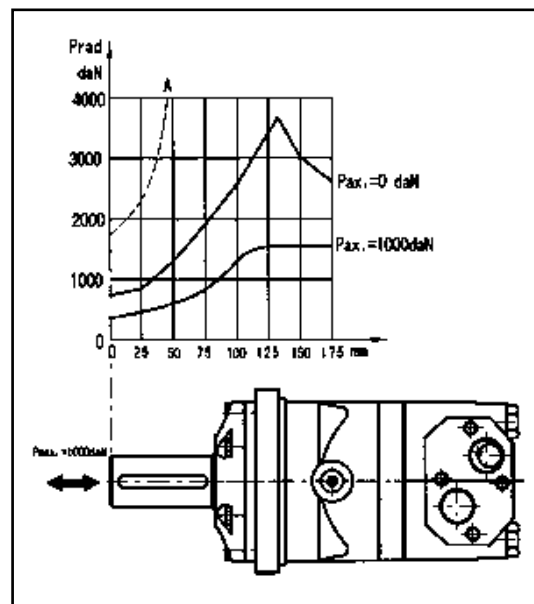
In applications without drain line, output shaft seal exceeds a bit of the pressure in the return line. When applications use the drain line, the pressure of output shaft seal equals the pressure in drain line.

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.