



whitedriveproducts



## SERIES

800 -

801 -



**HEAVY DUTY**  
Hydraulic Motor

**D9**



## OVERVIEW

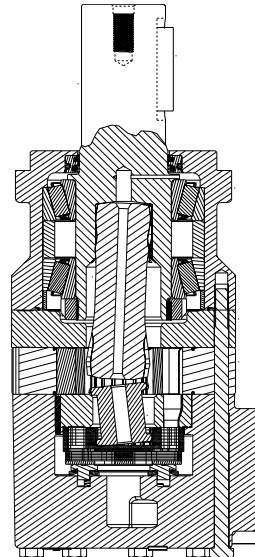
The D9 Series of motor is the largest member of the White Drive Product's family. The product is capable of producing torque values comparable to competitive motors, but with an industry leading breadth of displacements and shaft and porting options. In addition, the product incorporates dual tapered roller bearings, which improve load carrying capabilities. The motor is designed for use with a case-drain, which reduces pressure on the shaft seal and maintains lubrication to internal drive components, maximizing motor life. The series is available with industry standard mounting flanges found throughout the global market place.

## FEATURES / BENEFITS

- Industry Standard Mounting Flanges that satisfy the global market place.
- Dual Tapered Roller Bearings improve load carrying capability.
- Nine Displacement Options provide industry leading design flexibility.
- Roller Stator® Design incorporates 8 lobe rotor and 9 pocket stator technology.

## SERIES DESCRIPTIONS

800 - Hydraulic Motor  
Standard



## TYPICAL APPLICATIONS

Construction equipment, agricultural equipment, mining equipment, forestry equipment, associated attachments and more

## SPECIFICATIONS

| CODE | Displacement<br>cm <sup>3</sup> [in <sup>3</sup> /rev] | Max. Speed<br>rpm |        | Max. Flow<br>lpm [gpm] |          | Max. Torque<br>Nm [lb-in] |              | Max. Pressure<br>bar [psi] |            |            |
|------|--------------------------------------------------------|-------------------|--------|------------------------|----------|---------------------------|--------------|----------------------------|------------|------------|
|      |                                                        | cont.             | inter. | cont.                  | inter.   | cont.                     | inter.       | cont.                      | inter.     | peak       |
| 260  | 256 [15.6]                                             | 520               | 700    | 136 [36]               | 182 [48] | 763 [6750]                | 891 [7885]   | 207 [3000]                 | 241 [3500] | 259 [3750] |
| 300  | 294 [17.9]                                             | 530               | 688    | 159 [42]               | 204 [54] | 870 [7700]                | 1017 [9000]  | 207 [3000]                 | 241 [3500] | 259 [3750] |
| 375  | 367 [22.4]                                             | 550               | 613    | 204 [54]               | 227 [60] | 1099 [9725]               | 1284 [11365] | 207 [3000]                 | 241 [3500] | 259 [3750] |
| 450  | 455 [27.8]                                             | 445               | 496    | 204 [54]               | 227 [60] | 1349 [11934]              | 1571 [13907] | 207 [3000]                 | 241 [3500] | 259 [3750] |
| 525  | 525 [32.1]                                             | 385               | 430    | 204 [54]               | 227 [60] | 1569 [13888]              | 1824 [16143] | 207 [3000]                 | 241 [3500] | 259 [3750] |
| 625  | 623 [38.1]                                             | 325               | 361    | 204 [54]               | 227 [60] | 1883 [16660]              | 2183 [19317] | 207 [3000]                 | 241 [3500] | 259 [3750] |
| 735  | 734 [44.8]                                             | 276               | 308    | 204 [54]               | 227 [60] | 1815 [16063]              | 2165 [19156] | 172 [2500]                 | 207 [3000] | 241 [3500] |
| 910  | 911 [55.6]                                             | 223               | 250    | 204 [54]               | 227 [60] | 2290 [20265]              | 2713 [24008] | 172 [2500]                 | 207 [3000] | 241 [3500] |
| 1K0  | 1027 [62.7]                                            | 197               | 220    | 204 [54]               | 227 [60] | 2055 [18186]              | 2535 [22434] | 138 [2000]                 | 172 [2500] | 207 [3000] |

► Performance data is typical. Performance of production units varies slightly from one motor to another. Running at intermittent ratings should not exceed 10% of every minute of operation.

**DISPLACEMENT PERFORMANCE**

|                          |          | Pressure - bar [psi]                                                                                                       |                  |                   |                   |                   |                   |                   | Max. Cont.                              | Max. Inter. |
|--------------------------|----------|----------------------------------------------------------------------------------------------------------------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-----------------------------------------|-------------|
| 260                      |          | 17 [250]                                                                                                                   | 35 [500]         | 69 [1000]         | 104 [1500]        | 138 [2000]        | 173 [2500]        | 207 [3000]        | 241 [3500]                              |             |
| 256 cm³ [15.6 in³] / rev |          |                                                                                                                            |                  |                   |                   |                   |                   |                   | Intermittent Ratings - 10% of Operation |             |
|                          |          | Torque - Nm [lb-in], Speed rpm                                                                                             |                  |                   |                   |                   |                   |                   |                                         |             |
| Flow - lpm [gpm]         | 8 [2]    | 39 [341]<br>27                                                                                                             | 97 [858]<br>26   | 213 [1883]<br>24  | 328 [2900]<br>21  | 441 [3903]<br>19  | 552 [4886]<br>15  | 661 [5848]<br>12  |                                         | 30          |
|                          | 23 [6]   |                                                                                                                            | 108 [958]<br>84  | 233 [2058]<br>81  | 358 [3169]<br>78  | 482 [4263]<br>74  | 601 [5322]<br>70  | 718 [6351]<br>66  | 830 [7349]<br>62                        | 89          |
|                          | 45 [12]  |                                                                                                                            | 112 [992]<br>171 | 241 [2134]<br>168 | 372 [3289]<br>164 | 502 [4439]<br>159 | 630 [5572]<br>153 | 755 [6679]<br>146 | 877 [7761]<br>139                       | 178         |
|                          | 68 [18]  |                                                                                                                            | 110 [976]<br>258 | 241 [2132]<br>255 | 373 [3297]<br>250 | 506 [4477]<br>245 | 635 [5617]<br>237 | 764 [6760]<br>230 | 891 [7885]<br>222                       | 267         |
|                          | 91 [24]  |                                                                                                                            | 105 [929]<br>346 | 236 [2091]<br>342 | 370 [3270]<br>338 | 502 [4441]<br>331 | 631 [5587]<br>324 | 761 [6738]<br>315 | 890 [7878]<br>306                       | 355         |
| Max. Cont.               | 114 [30] |                                                                                                                            | 97 [855]<br>434  | 229 [2024]<br>430 | 359 [3178]<br>425 | 494 [4374]<br>419 | 627 [5544]<br>412 | 757 [6700]<br>402 | 883 [7818]<br>388                       | 444         |
|                          | 136 [36] |                                                                                                                            | 87 [768]<br>522  | 218 [1933]<br>518 | 352 [3115]<br>512 | 483 [4271]<br>505 | 617 [5463]<br>497 | 750 [6633]<br>488 | 878 [7766]<br>477                       | 533         |
| Max. Inter.              | 159 [42] |                                                                                                                            | 76 [669]<br>611  | 206 [1827]<br>607 | 340 [3009]<br>601 | 474 [4194]<br>594 | 608 [5376]<br>585 | 738 [6535]<br>576 |                                         | 622         |
|                          | 182 [48] |                                                                                                                            | 62 [546]<br>701  | 193 [1712]<br>696 | 327 [2891]<br>690 | 460 [4070]<br>683 | 594 [5257]<br>674 | 726 [6426]<br>664 |                                         | 710         |
| Rotor Width              |          | Overall Efficiency - 70 - 100% <input type="checkbox"/> 40 - 69% <input type="checkbox"/> 0 - 39% <input type="checkbox"/> |                  |                   |                   |                   |                   |                   |                                         |             |
|                          |          | Theoretical Torque - Nm [lb-in]                                                                                            |                  |                   |                   |                   |                   |                   |                                         |             |
| 22.2 [0.872]             |          | 70 [622]                                                                                                                   | 140 [1243]       | 281 [2486]        | 421 [3729]        | 562 [4972]        | 702 [6215]        | 843 [7458]        | 983 [8701]                              |             |
| mm [in]                  |          | Displacement tested at 54°C [129°F] with an oil viscosity of 46cSt [213 SUS]                                               |                  |                   |                   |                   |                   |                   |                                         |             |

|                          |              | Pressure - bar [psi]                                                                                                       |                   |                   |                   |                   |                   |                   | Max. Cont.                              | Max. Inter. |
|--------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-----------------------------------------|-------------|
| 300                      |              | 17 [250]                                                                                                                   | 35 [500]          | 69 [1000]         | 104 [1500]        | 138 [2000]        | 173 [2500]        | 207 [3000]        | 241 [3500]                              |             |
| 294 cm³ [17.9 in³] / rev |              |                                                                                                                            |                   |                   |                   |                   |                   |                   | Intermittent Ratings - 10% of Operation |             |
|                          |              | Torque - Nm [lb-in], Speed rpm                                                                                             |                   |                   |                   |                   |                   |                   |                                         |             |
| Flow - lpm [gpm]         | 8 [2]        | 52 [458]<br>23                                                                                                             | 119 [1053]<br>21  | 252 [2234]<br>19  | 382 [3379]<br>16  | 511 [4521]<br>12  | 636 [5633]<br>9   |                   |                                         | 26          |
|                          | 23 [6]       |                                                                                                                            | 127 [1124]<br>72  | 268 [2376]<br>68  | 410 [3625]<br>65  | 549 [4854]<br>60  | 686 [6069]<br>55  | 819 [7250]<br>50  | 949 [8398]<br>45                        | 78          |
|                          | 45 [12]      |                                                                                                                            | 130 [1152]<br>147 | 275 [2434]<br>143 | 422 [3731]<br>138 | 568 [5025]<br>132 | 713 [6313]<br>125 | 856 [7578]<br>119 | 996 [8815]<br>113                       | 155         |
|                          | 68 [18]      |                                                                                                                            | 129 [1141]<br>222 | 277 [2452]<br>218 | 427 [3777]<br>213 | 575 [5092]<br>206 | 722 [6392]<br>199 | 869 [7690]<br>191 | 1013 [8961]<br>183                      | 232         |
|                          | 91 [24]      |                                                                                                                            | 124 [1097]<br>298 | 274 [2422]<br>294 | 424 [3753]<br>288 | 573 [5074]<br>281 | 722 [6390]<br>272 | 871 [7707]<br>264 | 1019 [9014]<br>255                      | 310         |
|                          | 114 [30]     |                                                                                                                            | 115 [1022]<br>375 | 266 [2356]<br>371 | 418 [3700]<br>364 | 569 [5032]<br>357 | 719 [6362]<br>348 | 867 [7673]<br>339 | 1016 [8987]<br>330                      | 387         |
|                          | 136 [36]     |                                                                                                                            | 104 [924]<br>453  | 255 [2256]<br>448 | 407 [3601]<br>442 | 559 [4947]<br>434 | 710 [6279]<br>426 | 860 [7615]<br>416 | 1009 [8925]<br>405                      | 464         |
|                          | 159 [42]     |                                                                                                                            | 92 [814]<br>530   | 242 [2144]<br>525 | 395 [3498]<br>517 | 547 [4845]<br>509 | 699 [6183]<br>500 | 848 [7506]<br>490 | 999 [8837]<br>480                       | 541         |
| Max. Cont.               | 182 [48]     |                                                                                                                            | 78 [686]<br>608   | 227 [2011]<br>602 | 379 [3357]<br>595 | 533 [4715]<br>586 | 685 [6062]<br>577 | 838 [7414]<br>566 |                                         | 619         |
|                          | 204 [54]     |                                                                                                                            | 61 [543]<br>688   | 212 [1872]<br>682 | 364 [3219]<br>674 | 518 [4582]<br>665 | 670 [5932]<br>655 | 822 [7272]<br>644 |                                         | 696         |
| Max. Inter.              |              | Overall Efficiency - 70 - 100% <input type="checkbox"/> 40 - 69% <input type="checkbox"/> 0 - 39% <input type="checkbox"/> |                   |                   |                   |                   |                   |                   |                                         |             |
|                          |              | Theoretical Torque - Nm [lb-in]                                                                                            |                   |                   |                   |                   |                   |                   |                                         |             |
|                          |              | 81 [714]                                                                                                                   | 161 [1428]        | 323 [2855]        | 484 [4283]        | 645 [5710]        | 807 [7138]        | 968 [8566]        | 1129 [9993]                             |             |
|                          | 25.4 [1.002] |                                                                                                                            |                   |                   |                   |                   |                   |                   |                                         |             |
|                          | mm [in]      | Displacement tested at 54°C [129°F] with an oil viscosity of 46cSt [213 SUS]                                               |                   |                   |                   |                   |                   |                   |                                         |             |

► Performance data is typical. Performance of production units varies slightly from one motor to another.



## DISPLACEMENT PERFORMANCE

|                                                   |          | Pressure - bar [psi]                                                                                                       |                   |                   |                   |                   | Max. Cont.         | Max. Inter.        |                                         |     |
|---------------------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|-----------------------------------------|-----|
| 375                                               |          | 17 [250]                                                                                                                   | 35 [500]          | 69 [1000]         | 104 [1500]        | 138 [2000]        | 173 [2500]         | 207 [3000]         | 241 [3500]                              |     |
| 367 cm <sup>3</sup> [22.4 in <sup>3</sup> ] / rev |          |                                                                                                                            |                   |                   |                   |                   |                    |                    | Intermittent Ratings - 10% of Operation |     |
| Flow - lpm [gpm]                                  | 8 [2]    | 62 [546]<br>18                                                                                                             | 147 [1297]<br>17  | 311 [2752]<br>14  | 474 [4197]<br>11  | 634 [5609]<br>8   | 792 [7010]<br>5    |                    |                                         | 21  |
|                                                   | 23 [6]   |                                                                                                                            | 162 [1431]<br>57  | 340 [3011]<br>54  | 518 [4585]<br>50  | 691 [6118]<br>46  | 860 [7612]<br>42   | 1024 [9065]<br>38  | 1186 [10495]<br>34                      | 62  |
|                                                   | 45 [12]  |                                                                                                                            | 167 [1474]<br>117 | 350 [3100]<br>114 | 534 [4729]<br>109 | 719 [6365]<br>103 | 900 [7963]<br>98   | 1075 [9510]<br>92  | 1246 [11026]<br>86                      | 124 |
|                                                   | 68 [18]  |                                                                                                                            | 164 [1454]<br>177 | 351 [3107]<br>173 | 538 [4761]<br>168 | 727 [6432]<br>162 | 914 [8084]<br>155  | 1097 [9706]<br>147 | 1278 [11312]<br>140                     | 186 |
|                                                   | 91 [24]  |                                                                                                                            | 158 [1400]<br>238 | 347 [3075]<br>234 | 536 [4740]<br>229 | 725 [6413]<br>222 | 913 [8080]<br>214  | 1099 [9726]<br>205 | 1284 [11365]<br>196                     | 248 |
|                                                   | 114 [30] |                                                                                                                            | 148 [1308]<br>300 | 338 [2992]<br>295 | 528 [4672]<br>290 | 717 [6348]<br>282 | 906 [8018]<br>274  | 1093 [9672]<br>264 | 1280 [11331]<br>254                     | 310 |
|                                                   | 136 [36] |                                                                                                                            | 135 [1191]<br>362 | 327 [2891]<br>358 | 518 [4583]<br>353 | 708 [6264]<br>345 | 898 [7948]<br>336  | 1088 [9628]<br>326 | 1277 [11298]<br>315                     | 371 |
|                                                   | 159 [42] |                                                                                                                            | 120 [1065]<br>424 | 312 [2758]<br>420 | 504 [4463]<br>414 | 693 [6134]<br>406 | 883 [7815]<br>396  | 1074 [9500]<br>385 | 1263 [11174]<br>373                     | 433 |
|                                                   | 182 [48] |                                                                                                                            | 103 [912]<br>486  | 294 [2601]<br>481 | 487 [4308]<br>475 | 674 [5968]<br>468 | 866 [7661]<br>458  | 1057 [9354]<br>444 | 1245 [11017]<br>432                     | 495 |
|                                                   | 204 [54] |                                                                                                                            | 84 [747]<br>549   | 274 [2429]<br>544 | 466 [4127]<br>538 | 656 [5808]<br>530 | 844 [7471]<br>521  | 1039 [9194]<br>510 | 1232 [10906]<br>490                     | 557 |
| 227 [60]                                          |          | 64 [567]<br>613                                                                                                            | 253 [2241]<br>607 | 445 [3940]<br>600 | 634 [5608]<br>592 | 827 [7317]<br>582 | 1017 [8998]<br>572 |                    | 619                                     |     |
| Rotor Width                                       |          | Overall Efficiency - 70 - 100% <input type="checkbox"/> 40 - 69% <input type="checkbox"/> 0 - 39% <input type="checkbox"/> |                   |                   |                   |                   |                    |                    |                                         |     |
| 31.8 [1.252]                                      |          | Theoretical Torque - Nm [lb-in]                                                                                            |                   |                   |                   |                   |                    |                    |                                         |     |
|                                                   |          | 101 [892]                                                                                                                  | 202 [1784]        | 403 [3568]        | 605 [5352]        | 806 [7137]        | 1008 [8921]        | 1210 [10705]       | 1411 [12489]                            |     |
| mm [in]                                           |          | Displacement tested at 54°C [129°F] with an oil viscosity of 46cSt [213 SUS]                                               |                   |                   |                   |                   |                    |                    |                                         |     |

|                          |          | Pressure - bar [psi]                                                                                                                  |                   |                   |                   |                    |                     | Max. Cont.                              | Max. Inter.         |     |
|--------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|-------------------|--------------------|---------------------|-----------------------------------------|---------------------|-----|
| 450                      |          | 17 [250]                                                                                                                              | 35 [500]          | 69 [1000]         | 104 [1500]        | 138 [2000]         | 173 [2500]          | 207 [3000]                              | 241 [3500]          |     |
| 455 cm³ [27.8 in³] / rev |          |                                                                                                                                       |                   |                   |                   |                    |                     |                                         |                     |     |
|                          |          | Torque - Nm [lb-in], Speed rpm                                                                                                        |                   |                   |                   |                    |                     | Intermittent Ratings - 10% of Operation |                     |     |
| Flow - lpm [gpm]         | 8 [2]    | 82 [722]<br>15                                                                                                                        | 189 [1674]<br>14  | 400 [3538]<br>12  | 608 [5384]<br>11  | 816 [7224]<br>9    |                     |                                         |                     | 17  |
|                          | 23 [6]   | 88 [780]<br>47                                                                                                                        | 201 [1782]<br>46  | 425 [3764]<br>44  | 646 [5718]<br>40  | 863 [7639]<br>37   | 1070 [9473]<br>34   | 1276 [11292]<br>31                      |                     | 50  |
|                          | 45 [12]  | 91 [803]<br>96                                                                                                                        | 205 [1813]<br>95  | 434 [3841]<br>92  | 663 [5871]<br>87  | 891 [7883]<br>82   | 1113 [9849]<br>77   | 1327 [11747]<br>72                      | 1537 [13605]<br>69  | 100 |
|                          | 68 [18]  | 86 [757]<br>145                                                                                                                       | 200 [1770]<br>144 | 430 [3807]<br>141 | 662 [5861]<br>136 | 894 [7916]<br>130  | 1124 [9950]<br>123  | 1349 [11934]<br>117                     | 1565 [13853]<br>111 | 150 |
|                          | 91 [24]  | 77 [678]<br>194                                                                                                                       | 191 [1692]<br>193 | 423 [3747]<br>190 | 656 [5807]<br>185 | 888 [7859]<br>179  | 1120 [9910]<br>171  | 1347 [11923]<br>163                     | 1569 [13884]<br>154 | 200 |
|                          | 114 [30] | 64 [567]<br>244                                                                                                                       | 179 [1583]<br>243 | 413 [3652]<br>239 | 646 [5718]<br>234 | 879 [7779]<br>227  | 1113 [9854]<br>220  | 1344 [11896]<br>211                     | 1571 [13907]<br>202 | 250 |
|                          | 136 [36] |                                                                                                                                       | 162 [1434]<br>293 | 397 [3516]<br>289 | 631 [5583]<br>284 | 865 [7654]<br>277  | 1098 [9713]<br>269  | 1329 [11764]<br>259                     | 1559 [13799]<br>249 | 300 |
|                          | 159 [42] |                                                                                                                                       | 143 [1266]<br>343 | 378 [3347]<br>340 | 613 [5425]<br>334 | 847 [7498]<br>327  | 1080 [9558]<br>318  | 1313 [11620]<br>309                     | 1543 [13657]<br>298 | 349 |
|                          | 182 [48] |                                                                                                                                       | 122 [1081]<br>393 | 357 [3155]<br>390 | 592 [5238]<br>384 | 826 [7306]<br>377  | 1058 [9363]<br>368  | 1291 [11427]<br>357                     | 1522 [13471]<br>345 | 399 |
|                          | 204 [54] |                                                                                                                                       | 97 [859]<br>445   | 333 [2947]<br>440 | 568 [5029]<br>434 | 803 [7180]<br>426  | 1034 [9148]<br>417  | 1266 [11206]<br>406                     | 1498 [13255]<br>393 | 449 |
| 227 [60]                 |          | 73 [642]<br>496                                                                                                                       | 305 [2698]<br>491 | 540 [4781]<br>484 | 775 [6862]<br>477 | 1006 [8899]<br>467 | 1242 [10994]<br>458 |                                         | 499                 |     |
| Rotor Width              |          | Overall Efficiency - 70 - 100% <input type="checkbox"/> 40 - 69% <input type="checkbox"/> 0 - 39% <input checked="" type="checkbox"/> |                   |                   |                   |                    |                     |                                         |                     |     |
| 39.4 [4.553]             |          | Theoretical Torque - Nm [lb-in]                                                                                                       |                   |                   |                   |                    |                     |                                         |                     |     |
|                          |          | 125 [1106]                                                                                                                            | 250 [2212]        | 500 [4425]        | 750 [6637]        | 1000 [8849]        | 1250 [11061]        | 1500 [13274]                            | 1750 [15486]        |     |
| mm [in]                  |          | Displacement tested at 54°C [129°F] with an oil viscosity of 46cSt [213 SUS]                                                          |                   |                   |                   |                    |                     |                                         |                     |     |

► Performance data is typical. Performance of production units varies slightly from one motor to another.

**DISPLACEMENT PERFORMANCE**

|                          |                        | Pressure - bar [psi]                                                                                                       |                   |                   |                   |                     |                     | Max. Cont.                              | Max. Inter.         |                 |                     |     |
|--------------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|-------------------|---------------------|---------------------|-----------------------------------------|---------------------|-----------------|---------------------|-----|
| 525                      |                        | 17 [250]                                                                                                                   | 35 [500]          | 69 [1000]         | 104 [1500]        | 138 [2000]          | 173 [2500]          | 207 [3000]                              | 241 [3500]          |                 |                     |     |
| 525 cm³ [32.1 in³] / rev |                        |                                                                                                                            |                   |                   |                   |                     |                     | Intermittent Ratings - 10% of Operation |                     |                 |                     |     |
| Flow - lpm [gpm]         | Max. Max. Inter. Cont. | Torque - Nm [lb-in], Speed rpm                                                                                             |                   |                   |                   |                     |                     |                                         |                     | Theoretical rpm |                     |     |
|                          |                        | 8 [2]                                                                                                                      | 105 [929]<br>13   | 230 [2031]<br>12  | 472 [4175]<br>10  | 707 [6257]<br>8     | 940 [8317]<br>6     |                                         |                     |                 | 15                  |     |
|                          |                        | 23 [6]                                                                                                                     | 112 [995]<br>41   | 243 [2148]<br>39  | 504 [4460]<br>36  | 755 [6683]<br>33    | 1004 [8886]<br>29   | 1240 [10976]<br>25                      | 1479 [13087]<br>17  |                 | 44                  |     |
|                          |                        | 45 [12]                                                                                                                    | 112 [989]<br>83   | 245 [2165]<br>82  | 512 [4529]<br>78  | 778 [6887]<br>74    | 1041 [9212]<br>68   | 1296 [11468]<br>63                      | 1543 [13653]<br>59  |                 | 87                  |     |
|                          |                        | 68 [18]                                                                                                                    | 105 [927]<br>125  | 238 [2107]<br>124 | 508 [4497]<br>120 | 779 [6890]<br>115   | 1045 [9251]<br>109  | 1306 [11560]<br>102                     | 1560 [13804]<br>95  |                 | 1793 [15869]<br>89  | 130 |
|                          |                        | 91 [24]                                                                                                                    | 93 [824]<br>168   | 226 [2002]<br>166 | 496 [4394]<br>163 | 767 [6789]<br>158   | 1038 [9189]<br>151  | 1306 [11558]<br>144                     | 1569 [13888]<br>136 |                 | 1824 [16143]<br>128 | 173 |
|                          |                        | 114 [30]                                                                                                                   | 79 [696]<br>211   | 212 [1874]<br>209 | 484 [4283]<br>205 | 755 [6683]<br>200   | 1026 [9079]<br>193  | 1295 [11457]<br>185                     | 1560 [13809]<br>177 |                 | 1819 [16097]<br>167 | 217 |
|                          |                        | 136 [36]                                                                                                                   |                   | 193 [1710]<br>253 | 465 [4414]<br>249 | 736 [6513]<br>243   | 1007 [8912]<br>236  | 1279 [11318]<br>228                     | 1549 [13706]<br>219 |                 | 1811 [16023]<br>210 | 260 |
|                          |                        | 159 [42]                                                                                                                   |                   | 170 [1504]<br>296 | 444 [3925]<br>292 | 715 [6330]<br>287   | 986 [8726]<br>280   | 1257 [11125]<br>272                     | 1526 [13507]<br>262 |                 | 1793 [15864]<br>252 | 303 |
|                          |                        | 182 [48]                                                                                                                   |                   | 147 [1305]<br>339 | 420 [3716]<br>335 | 692 [6120]<br>328   | 961 [8509]<br>321   | 1233 [10914]<br>314                     | 1505 [13321]<br>303 |                 | 1772 [15682]<br>294 | 346 |
| 204 [54]                 |                        | 118 [1041]<br>384                                                                                                          | 390 [3450]<br>379 | 661 [5850]<br>374 | 934 [8269]<br>366 | 1205 [10660]<br>358 | 1475 [13050]<br>348 | 1741 [15411]<br>338                     | 389                 |                 |                     |     |
| 227 [60]                 |                        | 88 [778]<br>429                                                                                                            | 359 [3181]<br>423 | 631 [5582]<br>417 | 902 [7980]<br>409 | 1174 [10386]<br>400 | 1443 [12768]<br>391 |                                         | 433                 |                 |                     |     |
| Rotor Width              |                        | Overall Efficiency - 70 - 100% <input type="checkbox"/> 40 - 69% <input type="checkbox"/> 0 - 39% <input type="checkbox"/> |                   |                   |                   |                     |                     |                                         |                     |                 |                     |     |
| 45.5 [1.791]             |                        | Theoretical Torque - Nm [lb-in]                                                                                            |                   |                   |                   |                     |                     |                                         |                     |                 |                     |     |
|                          |                        | 114 [1276]                                                                                                                 | 288 [2553]        | 577 [5106]        | 865 [7659]        | 1154 [10211]        | 1442 [12764]        | 1731 [15317]                            | 2019 [17870]        |                 |                     |     |
| mm [in]                  |                        | Displacement tested at 54°C [129°F] with an oil viscosity of 46cSt [213 SUS]                                               |                   |                   |                   |                     |                     |                                         |                     |                 |                     |     |

|                                                   |                        | Pressure - bar [psi]                                                                                                       |                   |                   |                    |                     |                     | Max. Cont.                              | Max. Inter.         |                 |                     |     |
|---------------------------------------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|--------------------|---------------------|---------------------|-----------------------------------------|---------------------|-----------------|---------------------|-----|
| 625                                               |                        | 17 [250]                                                                                                                   | 35 [500]          | 69 [1000]         | 104 [1500]         | 138 [2000]          | 173 [2500]          | 207 [3000]                              | 241 [3500]          |                 |                     |     |
| 623 cm <sup>3</sup> [38.1 in <sup>3</sup> ] / rev |                        |                                                                                                                            |                   |                   |                    |                     |                     | Intermittent Ratings - 10% of Operation |                     |                 |                     |     |
| Flow - lpm [gpm]                                  | Max. Max. Inter. Cont. | Torque - Nm [lb-in], Speed rpm                                                                                             |                   |                   |                    |                     |                     |                                         |                     | Theoretical rpm |                     |     |
|                                                   |                        | 8 [2]                                                                                                                      | 132 [1169]<br>10  | 273 [2419]<br>10  | 553 [4896]<br>8    | 832 [7365]<br>7     | 1105 [9778]<br>6    |                                         |                     |                 | 13                  |     |
|                                                   |                        | 23 [6]                                                                                                                     | 144 [1273]<br>34  | 300 [2656]<br>34  | 609 [5393]<br>32   | 916 [8102]<br>31    | 1204 [10655]<br>28  | 1479 [13090]<br>21                      |                     |                 | 37                  |     |
|                                                   |                        | 45 [12]                                                                                                                    | 141 [1247]<br>70  | 303 [2682]<br>69  | 624 [5521]<br>67   | 945 [8362]<br>66    | 1249 [11049]<br>56  | 1559 [13797]<br>58                      | 1846 [16339]<br>53  |                 | 73                  |     |
|                                                   |                        | 68 [18]                                                                                                                    | 133 [1179]<br>106 | 295 [2613]<br>105 | 619 [5478]<br>104  | 942 [8340]<br>101   | 1263 [11180]<br>98  | 1576 [13949]<br>93                      | 1877 [16607]<br>86  |                 | 2166 [19168]<br>79  | 110 |
|                                                   |                        | 91 [24]                                                                                                                    | 120 [1061]<br>142 | 281 [2486]<br>141 | 607 [5368]<br>140  | 932 [8251]<br>137   | 1255 [11102]<br>133 | 1572 [13913]<br>128                     | 1882 [16659]<br>121 |                 | 2183 [19317]<br>113 | 146 |
|                                                   |                        | 114 [30]                                                                                                                   | 100 [886]<br>178  | 261 [2309]<br>177 | 586 [5183]<br>175  | 910 [8053]<br>172   | 1234 [10916]<br>167 | 1552 [13738]<br>161                     | 1860 [16456]<br>155 |                 | 2172 [19220]<br>148 | 183 |
|                                                   |                        | 136 [36]                                                                                                                   | 78 [694]<br>214   | 238 [2106]<br>213 | 562 [4971]<br>211  | 888 [7859]<br>208   | 1213 [10731]<br>203 | 1533 [13571]<br>197                     | 1839 [16274]<br>190 |                 | 2189 [19369]<br>181 | 219 |
|                                                   |                        | 159 [42]                                                                                                                   | 53 [469]<br>251   | 210 [1855]<br>250 | 532 [4711]<br>248  | 857 [7585]<br>245   | 1183 [10471]<br>240 | 1506 [13325]<br>234                     | 1827 [16171]<br>227 |                 | 2143 [18968]<br>219 | 255 |
|                                                   |                        | 182 [48]                                                                                                                   |                   | 180 [1591]<br>287 | 503 [4453]<br>285  | 827 [7315]<br>281   | 1151 [10189]<br>277 | 1475 [13050]<br>270                     | 1795 [15888]<br>262 |                 | 2114 [18706]<br>254 | 292 |
| 204 [54]                                          |                        | 146 [1295]<br>324                                                                                                          | 470 [4155]<br>322 | 793 [7021]<br>318 | 1118 [9898]<br>313 | 1440 [12742]<br>306 | 1758 [15558]<br>299 | 2078 [18392]<br>291                     | 328                 |                 |                     |     |
| 227 [60]                                          |                        | 111 [982]<br>361                                                                                                           | 433 [3829]<br>359 | 756 [6693]<br>355 | 1080 [9555]<br>349 | 1401 [12401]<br>343 | 1722 [15238]<br>335 |                                         | 365                 |                 |                     |     |
| Rotor Width                                       |                        | Overall Efficiency - 70 - 100% <input type="checkbox"/> 40 - 69% <input type="checkbox"/> 0 - 39% <input type="checkbox"/> |                   |                   |                    |                     |                     |                                         |                     |                 |                     |     |
| Theoretical Torque - Nm [lb-in]                   |                        | 171 [1514]                                                                                                                 | 342 [3029]        | 684 [6057]        | 1027 [9086]        | 1369 [12115]        | 1711 [15144]        | 2053 [18172]                            | 2396 [21201]        |                 |                     |     |
| mm [in]                                           |                        | Displacement tested at 54°C [129°F] with an oil viscosity of 46cSt [213 SUS]                                               |                   |                   |                    |                     |                     |                                         |                     |                 |                     |     |

► Performance data is typical. Performance of production units varies slightly from one motor to another.



## DISPLACEMENT PERFORMANCE

|                                                   |                  | Pressure - bar [psi]                    |                   |                   |                    |                     | Max. Cont.          | Max. Inter.     |
|---------------------------------------------------|------------------|-----------------------------------------|-------------------|-------------------|--------------------|---------------------|---------------------|-----------------|
| <b>735</b>                                        |                  | 17 [250]                                | 35 [500]          | 69 [1000]         | 104 [1500]         | 138 [2000]          | 173 [2500]          | 207 [3000]      |
| 734 cm <sup>3</sup> [44.8 in <sup>3</sup> ] / rev |                  | Intermittent Ratings - 10% of Operation |                   |                   |                    |                     |                     |                 |
| Max. Max.<br>Inter. Cont.                         | Flow - lpm [gpm] | Torque - Nm [lb-in], Speed rpm          |                   |                   |                    |                     |                     | Theoretical rpm |
|                                                   | 8 [2]            | 158 [1395]<br>9                         | 328 [2900]<br>9   | 667 [5904]<br>8   | 1006 [8902]<br>7   | 1344 [11890]<br>6   |                     | 11              |
|                                                   | 23 [6]           | 165 [1460]<br>29                        | 347 [3074]<br>29  | 710 [6282]<br>27  | 1061 [9389]<br>26  | 1401 [12397]<br>20  | 1739 [15391]<br>13  | 31              |
|                                                   | 45 [12]          | 163 [1445]<br>60                        | 350 [3095]<br>59  | 722 [6387]<br>57  | 1089 [9635]<br>54  | 1440 [12747]<br>51  | 1775 [15711]<br>37  | 62              |
|                                                   | 68 [18]          | 155 [1374]<br>90                        | 343 [3036]<br>89  | 721 [6377]<br>87  | 1093 [9675]<br>84  | 1458 [12900]<br>79  | 1813 [16045]<br>75  | 93              |
|                                                   | 91 [24]          | 141 [1245]<br>120                       | 329 [2914]<br>119 | 708 [6267]<br>117 | 1085 [9606]<br>113 | 1455 [12872]<br>108 | 1815 [16063]<br>103 | 124             |
|                                                   | 114 [30]         | 119 [1050]<br>151                       | 307 [2714]<br>150 | 685 [6065]<br>147 | 1063 [9409]<br>143 | 1435 [12699]<br>137 | 1799 [15917]<br>131 | 155             |
|                                                   | 136 [36]         | 93 [823]<br>182                         | 282 [2491]<br>181 | 660 [5841]<br>178 | 1039 [9191]<br>173 | 1413 [12504]<br>167 | 1779 [15740]<br>160 | 186             |
|                                                   | 159 [42]         |                                         | 248 [2193]<br>213 | 629 [5562]<br>209 | 1010 [8934]<br>205 | 1388 [12280]<br>198 | 1760 [15574]<br>191 | 217             |
|                                                   | 182 [48]         |                                         | 215 [1905]<br>244 | 595 [5263]<br>240 | 975 [8626]<br>235  | 1356 [11998]<br>228 | 1732 [15330]<br>221 | 248             |
| Max. Max.<br>Inter. Cont.                         | 204 [54]         |                                         | 176 [1558]<br>276 | 555 [4913]<br>272 | 936 [8286]<br>267  | 1319 [11671]<br>260 | 1694 [14992]<br>252 | 279             |
|                                                   | 227 [60]         |                                         | 132 [1171]<br>308 | 511 [4521]<br>304 | 892 [7892]<br>298  | 1273 [11267]<br>291 | 1649 [14589]<br>283 | 310             |
|                                                   |                  |                                         |                   |                   |                    |                     |                     |                 |

Overall Efficiency - 70 - 100% ☐ 40 - 69% ☐ 0 - 39% ☐

Theoretical Torque - Nm [lb-in]

|            |            |            |              |              |              |              |
|------------|------------|------------|--------------|--------------|--------------|--------------|
| 201 [1783] | 403 [3565] | 806 [7130] | 1209 [10695] | 1611 [14260] | 2014 [17825] | 2417 [21390] |
|------------|------------|------------|--------------|--------------|--------------|--------------|

Displacement tested at 54°C [129°F] with an oil viscosity of 46cSt [213 SUS]

|                                                   |                  | Pressure - bar [psi]                    |                   |                   |                     |                     | Max. Cont.          | Max. Inter.     |
|---------------------------------------------------|------------------|-----------------------------------------|-------------------|-------------------|---------------------|---------------------|---------------------|-----------------|
| <b>910</b>                                        |                  | 17 [250]                                | 35 [500]          | 69 [1000]         | 104 [1500]          | 138 [2000]          | 173 [2500]          | 207 [3000]      |
| 911 cm <sup>3</sup> [55.6 in <sup>3</sup> ] / rev |                  | Intermittent Ratings - 10% of Operation |                   |                   |                     |                     |                     |                 |
| Max. Max.<br>Inter. Cont.                         | Flow - lpm [gpm] | Torque - Nm [lb-in], Speed rpm          |                   |                   |                     |                     |                     | Theoretical rpm |
|                                                   | 8 [2]            | 210 [1860]<br>7                         | 425 [3761]<br>7   | 842 [7455]<br>6   | 1245 [11022]<br>5   |                     |                     | 9               |
|                                                   | 23 [6]           | 221 [1955]<br>24                        | 451 [3989]<br>23  | 905 [8005]<br>21  | 1334 [11807]<br>17  | 1737 [15368]<br>8   |                     | 25              |
|                                                   | 45 [12]          | 218 [1931]<br>48                        | 456 [4036]<br>47  | 929 [8223]<br>45  | 1389 [12295]<br>42  | 1826 [16161]<br>36  | 2224 [19682]<br>13  | 50              |
|                                                   | 68 [18]          | 205 [1812]<br>73                        | 445 [3937]<br>72  | 924 [8174]<br>69  | 1395 [12346]<br>66  | 1855 [16415]<br>59  | 2277 [20148]<br>53  | 75              |
|                                                   | 91 [24]          | 182 [1607]<br>97                        | 421 [3728]<br>97  | 901 [7969]<br>94  | 1376 [12174]<br>89  | 1841 [16295]<br>83  | 2290 [20265]<br>74  | 100             |
|                                                   | 114 [30]         | 145 [1282]<br>122                       | 381 [3376]<br>122 | 858 [7591]<br>119 | 1330 [11766]<br>114 | 1795 [15881]<br>107 | 2248 [19895]<br>99  | 125             |
|                                                   | 136 [36]         | 90 [797]<br>148                         | 318 [2813]<br>146 | 784 [6938]<br>142 | 1244 [11010]<br>136 | 1701 [15056]<br>128 | 2146 [18995]<br>119 | 150             |
|                                                   | 159 [42]         | 54 [478]<br>173                         | 279 [2465]<br>171 | 740 [6553]<br>167 | 1202 [10633]<br>160 | 1658 [14668]<br>152 | 2105 [18629]<br>143 | 175             |
|                                                   | 182 [48]         |                                         | 233 [2061]<br>197 | 691 [6115]<br>192 | 1150 [10173]<br>185 | 1607 [14220]<br>177 | 2060 [18230]<br>168 | 200             |
| Max. Max.<br>Inter. Cont.                         | 204 [54]         |                                         | 173 [1527]<br>223 | 629 [5569]<br>219 | 1088 [9628]<br>212  | 1546 [13682]<br>203 | 2001 [17705]<br>194 | 225             |
|                                                   | 227 [60]         |                                         | 113 [998]<br>250  | 571 [5056]<br>244 | 1028 [9095]<br>236  | 1485 [13145]<br>228 | 1946 [17223]<br>219 | 250             |
|                                                   |                  |                                         |                   |                   |                     |                     |                     |                 |

Overall Efficiency - 70 - 100% ☐ 40 - 69% ☐ 0 - 39% ☐

Theoretical Torque - Nm [lb-in]

|            |            |             |              |              |              |              |
|------------|------------|-------------|--------------|--------------|--------------|--------------|
| 250 [2213] | 500 [4426] | 1000 [8852] | 1500 [13278] | 2001 [17704] | 2501 [22130] | 3001 [26557] |
|------------|------------|-------------|--------------|--------------|--------------|--------------|

Displacement tested at 54°C [129°F] with an oil viscosity of 46cSt [213 SUS]

► Performance data is typical. Performance of production units varies slightly from one motor to another.



## DISPLACEMENT PERFORMANCE

|                                                    |          | Pressure - bar [psi]                                                                                                       |                   |                   |                     | Max. Cont.          | Max. Inter.         |
|----------------------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|---------------------|---------------------|---------------------|
| <b>1K0</b>                                         |          | 17 [250]                                                                                                                   | 35 [500]          | 69 [1000]         | 104 [1500]          | 138 [2000]          | 173 [2500]          |
| 1027 cm <sup>3</sup> [62.7 in <sup>3</sup> ] / rev |          | Intermittent Ratings - 10% of Operation                                                                                    |                   |                   |                     |                     |                     |
|                                                    |          | Torque - Nm [lb-in], Speed rpm                                                                                             |                   |                   |                     |                     |                     |
| Flow - lpm [gpm]                                   | 8 [2]    | 227 [2006]<br>7                                                                                                            | 467 [4134]<br>6   | 945 [8363]<br>6   | 1416 [12528]<br>6   | 1884 [16673]<br>5   |                     |
|                                                    | 23 [6]   | 239 [2118]<br>21                                                                                                           | 495 [4380]<br>21  | 1000 [8851]<br>20 | 1487 [13156]<br>16  | 1947 [17228]<br>9   |                     |
|                                                    | 45 [12]  | 238 [2102]<br>43                                                                                                           | 503 [4454]<br>42  | 1030 [9111]<br>41 | 1544 [13666]<br>39  | 2013 [17815]<br>19  |                     |
|                                                    | 68 [18]  | 225 [1988]<br>65                                                                                                           | 494 [4373]<br>64  | 1029 [9105]<br>63 | 1556 [13770]<br>60  | 2055 [18186]<br>55  | 2526 [22350]<br>50  |
|                                                    | 91 [24]  | 198 [1753]<br>86                                                                                                           | 467 [4135]<br>86  | 1007 [8911]<br>84 | 1539 [13615]<br>81  | 2048 [18127]<br>75  | 2531 [22399]<br>68  |
|                                                    | 114 [30] | 167 [1479]<br>108                                                                                                          | 437 [3871]<br>108 | 978 [8651]<br>106 | 1512 [13384]<br>103 | 2037 [18025]<br>97  | 2535 [22434]<br>89  |
|                                                    | 136 [36] | 129 [1139]<br>131                                                                                                          | 399 [3527]<br>130 | 940 [8319]<br>128 | 1477 [13069]<br>124 | 2004 [17733]<br>118 | 2513 [22235]<br>110 |
|                                                    | 159 [42] | 87 [773]<br>153                                                                                                            | 353 [3124]<br>152 | 894 [7910]<br>150 | 1432 [12671]<br>146 | 1964 [17381]<br>140 | 2465 [21818]<br>129 |
|                                                    | 182 [48] |                                                                                                                            | 303 [2684]<br>175 | 844 [7472]<br>172 | 1383 [12241]<br>168 | 1917 [16964]<br>162 | 2435 [21550]<br>154 |
|                                                    | 204 [54] |                                                                                                                            | 246 [2180]<br>197 | 785 [6950]<br>195 | 1324 [11718]<br>190 | 1856 [16429]<br>184 | 2360 [20883]<br>177 |
| Max. Max. Inter. Cont.                             | 227 [60] |                                                                                                                            | 183 [1617]<br>220 | 723 [6400]<br>217 | 1260 [11150]<br>213 | 1793 [15872]<br>206 | 2319 [20522]<br>198 |
|                                                    |          |                                                                                                                            |                   |                   |                     |                     |                     |
|                                                    |          | Overall Efficiency - 70 - 100% <input type="checkbox"/> 40 - 69% <input type="checkbox"/> 0 - 39% <input type="checkbox"/> |                   |                   |                     |                     |                     |
| Rotor Width                                        |          | Theoretical Torque - Nm [lb-in]                                                                                            |                   |                   |                     |                     |                     |
| 88.9 [3.502]<br>mm [in]                            |          | 282 [2495]                                                                                                                 | 564 [4990]        | 1128 [9981]       | 1692 [14971]        | 2256 [19961]        | 2820 [24952]        |
|                                                    |          | Displacement tested at 54°C [129°F] with an oil viscosity of 46cSt [213 SUS]                                               |                   |                   |                     |                     |                     |

► Performance data is typical. Performance of production units varies slightly from one motor to another.





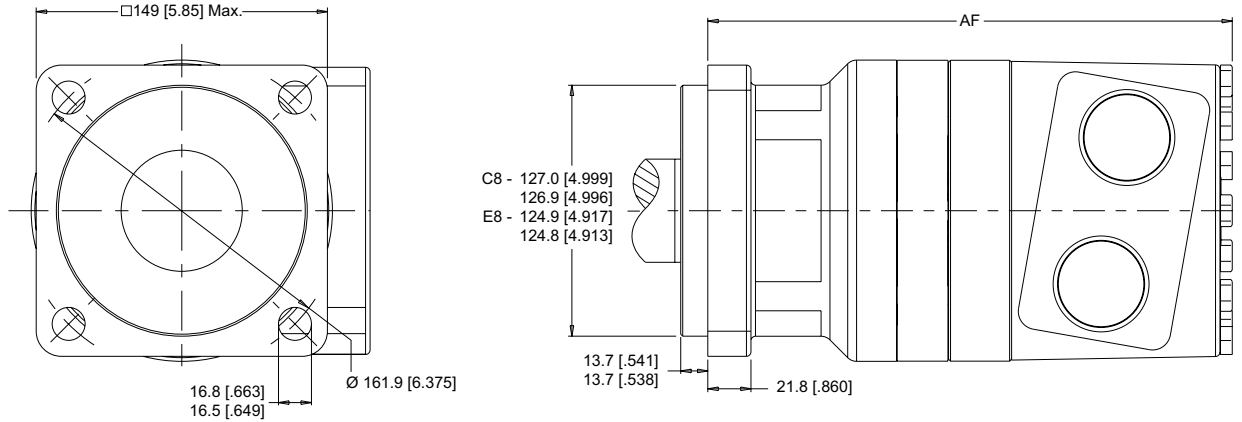
## HOUSINGS

► Dimensions shown are without paint. Paint thickness can be up to 0.13 [.005].

### 4-HOLE, SAE C MOUNT

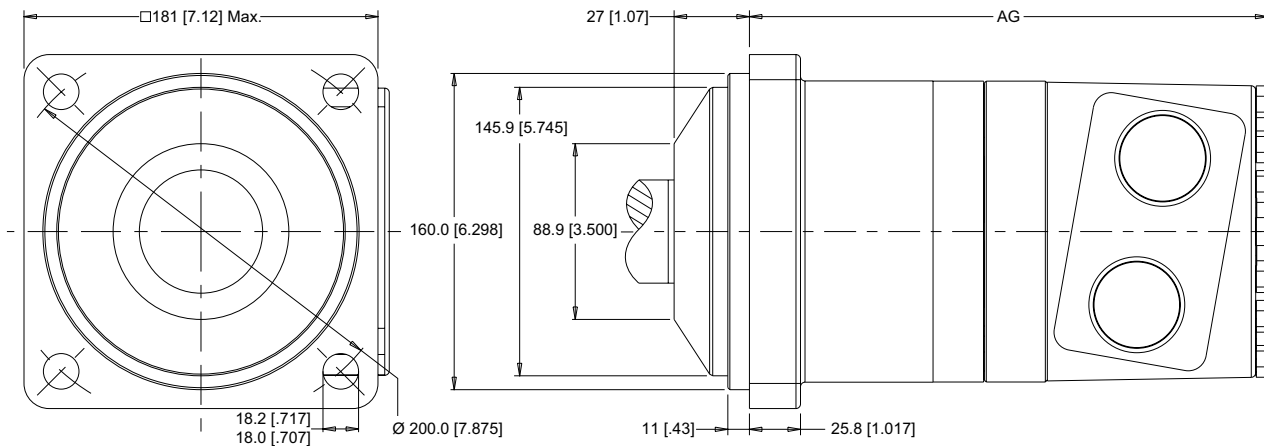
**C8** Side Ports

**E8** Side Ports



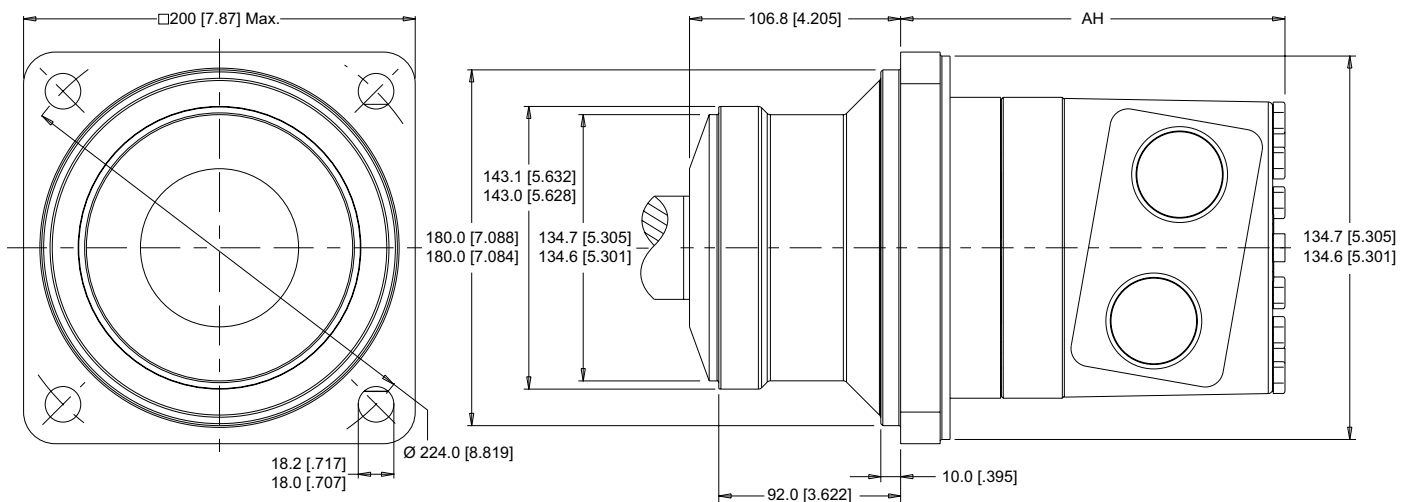
### 4-HOLE, WHEEL MOUNT WITH 160mm PILOT

**D8** Side Ports



### 4-HOLE, WHEEL MOUNT

**W8** Side Ports



► Dimensions AF, AG & AH are charted on page 9. Porting options listed on pages 10-11.



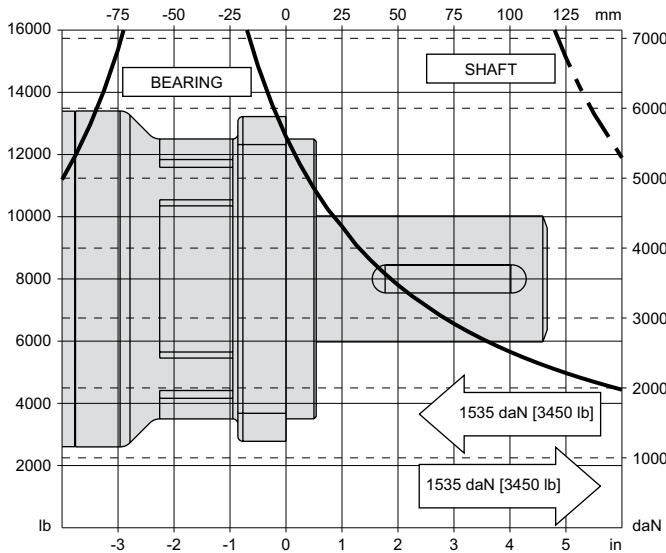


## TECHNICAL INFORMATION

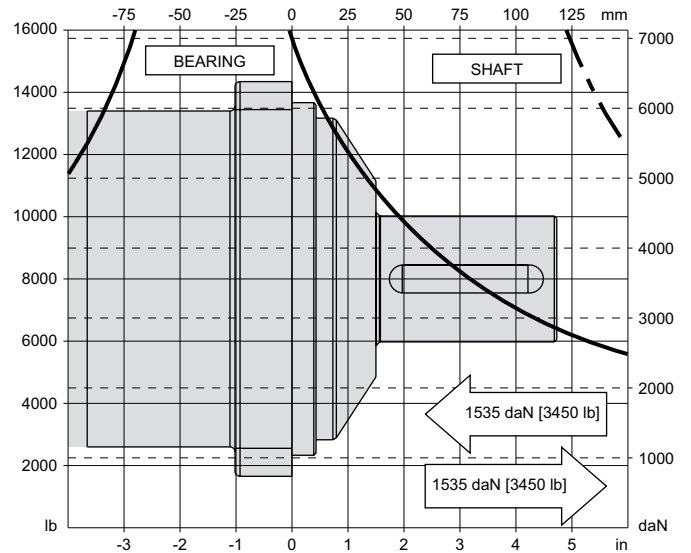
### ALLOWABLE SHAFT LOAD / BEARING CURVE

The bearing curve represents allowable bearing loads based on ISO 281 bearing capacity for an  $L_{10}$  life of 2,000 hours at 100 rpm. Radial loads for speeds other than 100 rpm may be calculated using the multiplication factor table below.

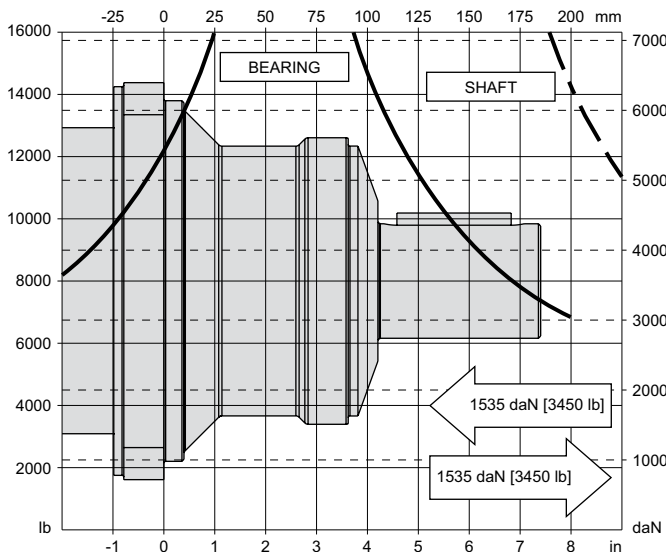
#### SAE C MOUNTS



#### 160mm PILOT WHEEL MOUNTS



#### WHEEL MOUNTS



### LENGTH & WEIGHT CHARTS

Dimensions AF, AG & AH are the overall motor lengths from the rear of the motor to the mounting surface and are referenced on detailed drawings listed on page 8.

| AF  | Length      | Weight      |
|-----|-------------|-------------|
| #   | mm [in]     | kg [lb]     |
| 260 | 255 [10.03] | 32.0 [70.5] |
| 300 | 258 [10.16] | 32.5 [71.4] |
| 375 | 264 [10.41] | 33.2 [73.1] |
| 450 | 272 [10.71] | 34.1 [75.1] |
| 525 | 278 [10.95] | 34.9 [76.8] |
| 625 | 287 [11.29] | 35.9 [78.9] |
| 735 | 296 [11.66] | 37.0 [81.4] |
| 910 | 311 [12.26] | 38.8 [85.4] |
| 1K0 | 322 [12.67] | 40.0 [88.0] |

| AH  | Length     | Weight       |
|-----|------------|--------------|
| #   | mm [in]    | kg [lb]      |
| 260 | 184 [7.26] | 37.7 [83.0]  |
| 300 | 188 [7.39] | 38.1 [83.9]  |
| 375 | 194 [7.64] | 38.9 [85.6]  |
| 450 | 202 [7.94] | 39.8 [87.6]  |
| 525 | 208 [8.18] | 40.6 [89.2]  |
| 625 | 216 [8.51] | 41.6 [91.4]  |
| 735 | 226 [8.89] | 42.7 [93.9]  |
| 910 | 241 [9.49] | 44.5 [97.9]  |
| 1K0 | 251 [9.89] | 45.7 [100.5] |

| AG  | Length      | Weight       |
|-----|-------------|--------------|
| #   | mm [in]     | kg [lb]      |
| 260 | 252 [9.93]  | 37.6 [82.8]  |
| 300 | 256 [10.06] | 38.0 [83.7]  |
| 375 | 262 [10.31] | 38.8 [85.4]  |
| 450 | 269 [10.61] | 39.7 [87.4]  |
| 525 | 276 [10.85] | 40.5 [89.0]  |
| 625 | 284 [11.19] | 41.5 [91.2]  |
| 735 | 294 [11.56] | 42.6 [93.7]  |
| 910 | 309 [12.16] | 44.4 [97.7]  |
| 1K0 | 319 [12.57] | 45.6 [100.3] |

#### BEARING LOAD MULTIPLICATION FACTOR TABLE

| RPM | FACTOR | RPM | FACTOR |
|-----|--------|-----|--------|
| 50  | 1.23   | 500 | 0.62   |
| 100 | 1.00   | 600 | 0.58   |
| 200 | 0.81   | 700 | 0.56   |
| 300 | 0.72   | 800 | 0.50   |
| 400 | 0.66   |     |        |

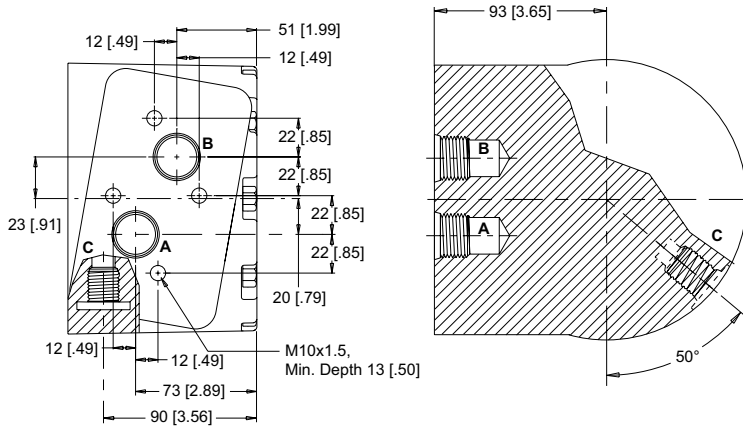
► All D9 series motor weights can vary  $\pm 2.3$  kg [5 lb] depending on model configurations such as housing, shaft, endcover, options etc.

## PORTING

► Dimensions shown are without paint. Paint thickness can be up to 0.13 [.005].

### SIDE PORTED - OFFSET MANIFOLD

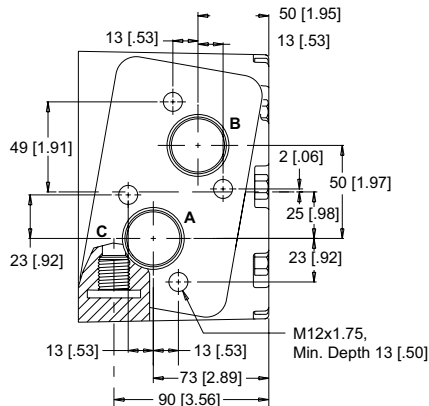
**7** Main Ports **A, B:** G 3/4  
Drain Port **C:** G 1/4



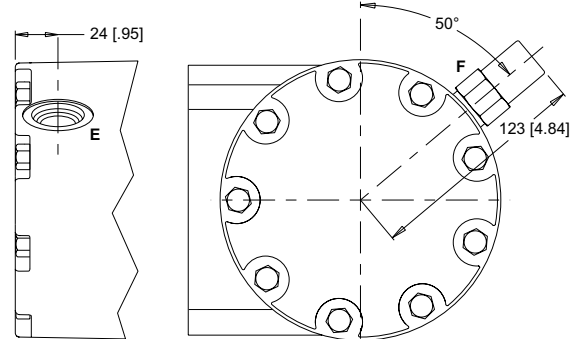
### SIDE PORTED - OFFSET MANIFOLD

**8** Main Ports **A, B:** G 1  
Drain Port **C:** G 1/4

#### STANDARD



#### OPTIONAL

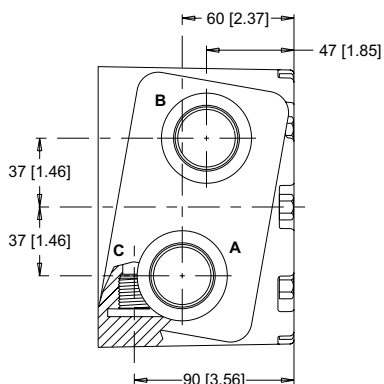


**E:** 10 Series/2-Way Valve Cavity 7/8-14 UNF **F:** Valve Cartridge Installed

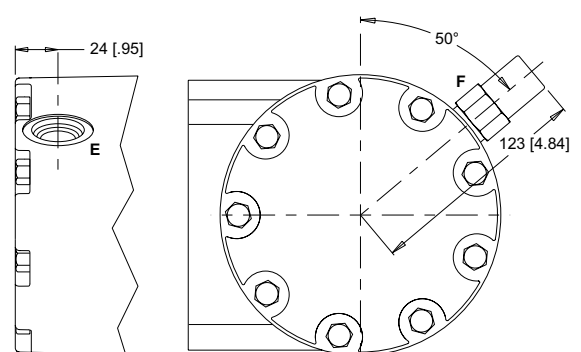
### SIDE PORTED - OFFSET

**9** Main Ports **A, B:** 1 5/16-12 UNF  
Drain Port **C:** 3/4-16 UNF

#### STANDARD



#### OPTIONAL



**E:** 10 Series/2-Way Valve Cavity 7/8-14 UNF **F:** Valve Cartridge Installed



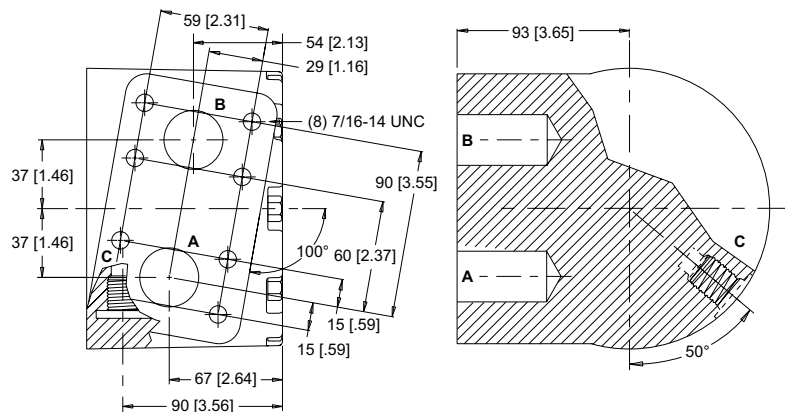
## PORTING

► Dimensions shown are without paint. Paint thickness can be up to 0.13 [.005].

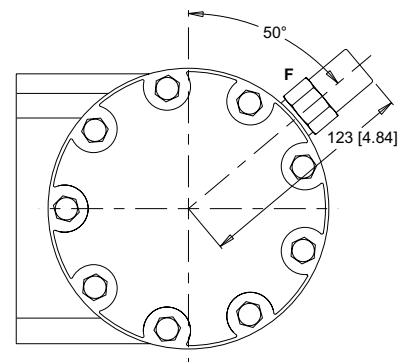
### SIDE PORTED - SPLIT FLANGE

**0** Main Ports **A, B:** 1-1/4" Drilled  
Drain Port **C:** 3/4-16 UNF

#### STANDARD



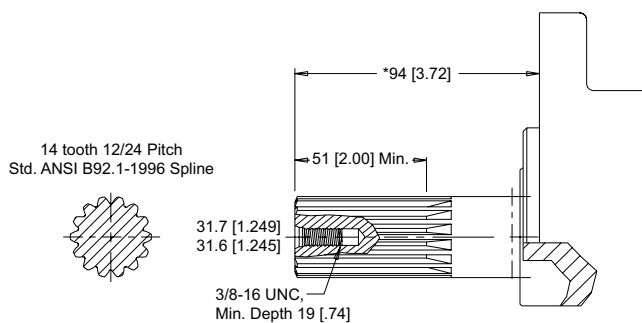
#### OPTIONAL



E: 10 Series/2-Way Valve Cavity 7/8-14 UNF F: Valve Cartridge Installed

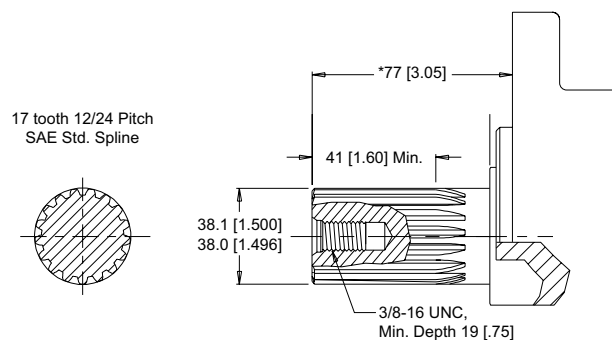
## SHAFTS

### 23 14 Tooth Spline



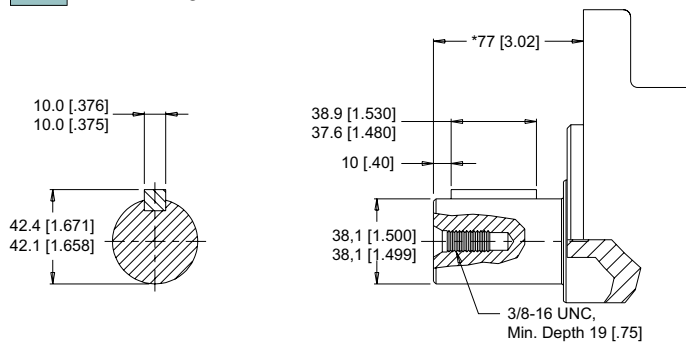
Max. Torque: 2070 Nm [18400 lb-in]

### 33 17 Tooth Spline



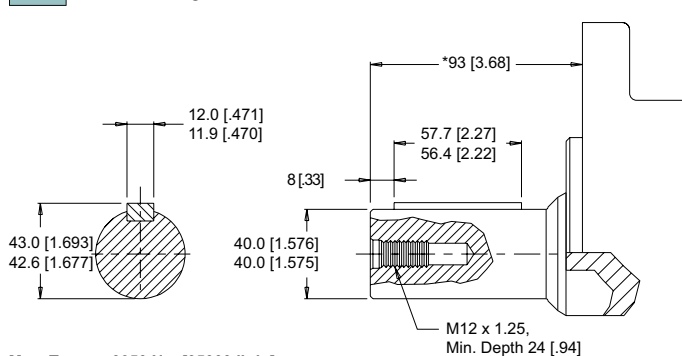
Max. Torque: 2250 Nm [19900 lb-in]

### 30 1-1/2" Straight



Max. Torque: 2230 Nm [19800 lb-in]

### 36 40mm Straight



Max. Torque: 3950 Nm [35000 lb-in]

► \*Shaft lengths may vary  $\pm 0.8$  [.030]

# D9 (800 Series)

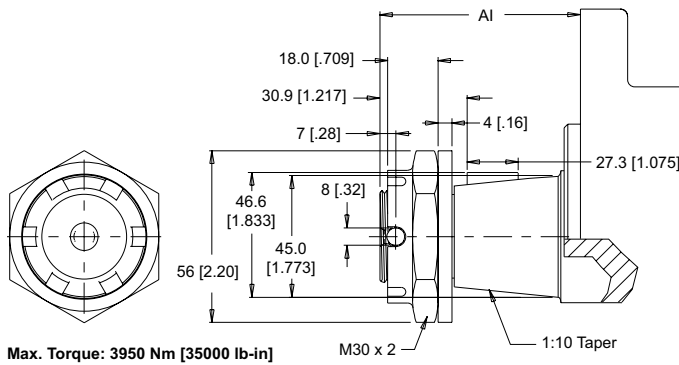
Hydraulic Motor

whitedriveproducts

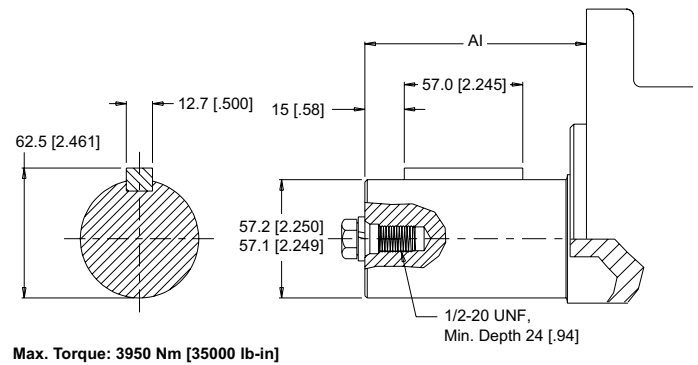


## SHAFTS

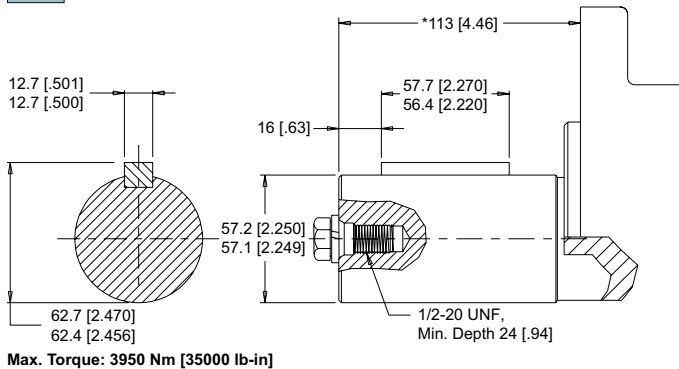
### 38 45mm Tapered



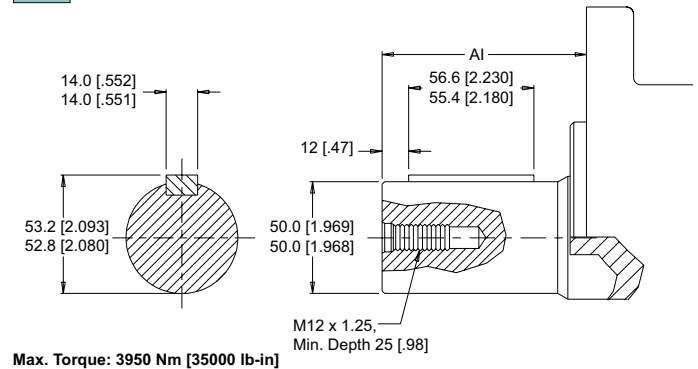
### 47 2-1/4" Straight Extended



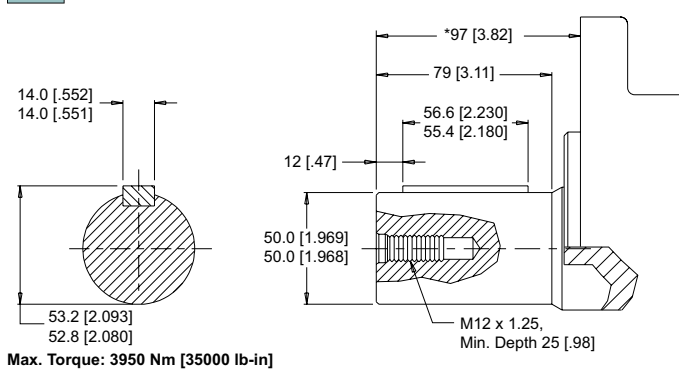
### 40 2-1/4" Straight



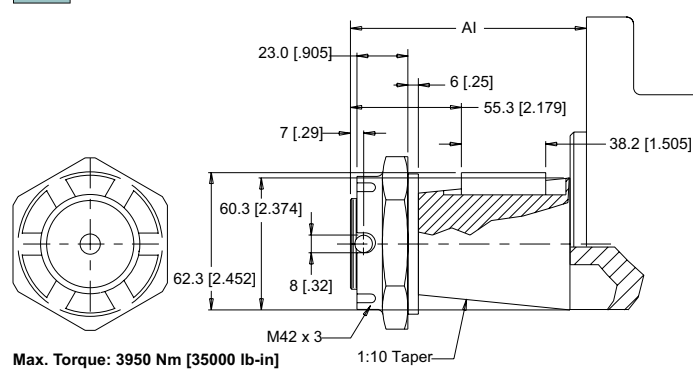
### 68 50mm Straight Extended



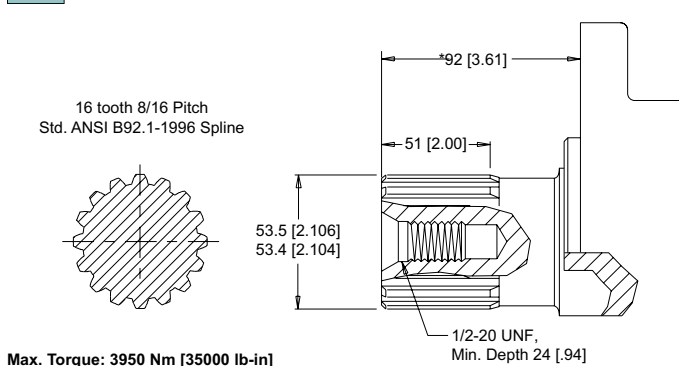
### 41 50mm Straight



### D3 60mm Tapered



### 42 16 Tooth Spline



## MOUNTING / SHAFT LENGTH CHART

Dimension AI is the overall distance from the motor mounting surface to the end of the shaft and is referenced on detailed shaft drawings above.

► Shaft lengths vary  $\pm 0.8$  [0.030]. The 38, 47, 68 & D3 shafts are only available on wheel mounts. All other shafts are only available on SAE C mounts.

| AI | D8 Wheel Mounts | W8 Wheel Mounts |
|----|-----------------|-----------------|
| #  | mm [in]         | mm [in]         |
| 38 | 121 [4.78]      | 189 [7.45]      |
| 47 | 120 [4.73]      | 188 [7.40]      |
| 68 | 120 [4.73]      | 188 [7.40]      |
| D3 | 144 [5.67]      | 212 [8.34]      |

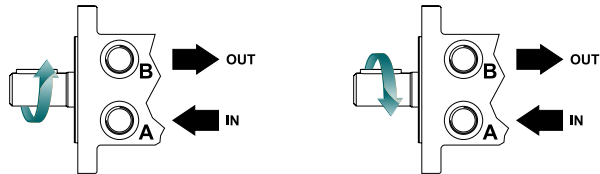


## ORDERING INFORMATION

|  |   |  |   |  |    |  |  |
|--|---|--|---|--|----|--|--|
|  |   |  |   |  |    |  |  |
|  | 1 |  | 2 |  | 3a |  |  |

### 1. CHOOSE SERIES DESIGNATION

**800** Counterclockwise Rotation    **801** Clockwise Rotation



► The 800 & 801 series are bi-directional. Reversing the inlet hose will reverse shaft rotation.

### 2. SELECT A DISPLACEMENT OPTION

|            |                                                      |            |                                                       |
|------------|------------------------------------------------------|------------|-------------------------------------------------------|
| <b>260</b> | 256 cm <sup>3</sup> /rev [15.6 in <sup>3</sup> /rev] | <b>625</b> | 623 cm <sup>3</sup> /rev [38.1 in <sup>3</sup> /rev]  |
| <b>300</b> | 294 cm <sup>3</sup> /rev [17.9 in <sup>3</sup> /rev] | <b>735</b> | 734 cm <sup>3</sup> /rev [44.8 in <sup>3</sup> /rev]  |
| <b>375</b> | 367 cm <sup>3</sup> /rev [22.4 in <sup>3</sup> /rev] | <b>910</b> | 911 cm <sup>3</sup> /rev [55.6 in <sup>3</sup> /rev]  |
| <b>450</b> | 455 cm <sup>3</sup> /rev [27.8 in <sup>3</sup> /rev] | <b>1K0</b> | 1027 cm <sup>3</sup> /rev [62.7 in <sup>3</sup> /rev] |
| <b>525</b> | 525 cm <sup>3</sup> /rev [32.1 in <sup>3</sup> /rev] |            |                                                       |

### 3a. SELECT MOUNT TYPE

#### ▼ SIDE MOUNTS

|           |                           |
|-----------|---------------------------|
| <b>C8</b> | SAE C Mount (5" Pilot)    |
| <b>D8</b> | Wheel Mount (160mm Pilot) |
| <b>E8</b> | SAE C Mount (125mm Pilot) |
| <b>W8</b> | Wheel Mount               |

### 3b. SELECT PORT SIZE

#### ▼ SIDE PORT OPTIONS

|          |                           |
|----------|---------------------------|
| <b>0</b> | 1 1/4-12 UNF Split Flange |
| <b>7</b> | G 3/4 Offset Manifold     |
| <b>8</b> | G 1 Offset Manifold       |
| <b>9</b> | 1 5/16-12 UNF, Offset     |

|    |   |   |   |   |   |  |  |
|----|---|---|---|---|---|--|--|
|    |   |   |   |   |   |  |  |
| 3b | 4 | 5 | 6 | 7 | 8 |  |  |

### 4. SELECT A SHAFT OPTION

|           |                 |           |                          |
|-----------|-----------------|-----------|--------------------------|
| <b>23</b> | 14 Tooth Spline | <b>41</b> | 50mm Straight            |
| <b>30</b> | 1-1/2" Straight | <b>42</b> | 16 Tooth Spline          |
| <b>33</b> | 17 Tooth Spline | <b>47</b> | 2-1/4" Straight Extended |
| <b>36</b> | 40mm Straight   | <b>68</b> | 50mm Straight Extended   |
| <b>38</b> | 45mm Tapered    | <b>D3</b> | 60mm Tapered             |
| <b>40</b> | 2-1/4" Straight |           |                          |

► The 38, 47, 68 & D3 shafts are available on wheel mounts only. All other shafts are available on SAE C mounts only.

### 5. SELECT A PAINT OPTION

|          |                                   |
|----------|-----------------------------------|
| <b>A</b> | Black                             |
| <b>B</b> | Black, Unpainted Mounting Surface |
| <b>Z</b> | No Paint                          |

### 6. SELECT A VALVE CAVITY / CARTRIDGE OPTION

|          |      |
|----------|------|
| <b>A</b> | None |
|----------|------|

### 7. SELECT AN ADD-ON OPTION

|          |          |
|----------|----------|
| <b>A</b> | Standard |
|----------|----------|

### 8. SELECT A MISCELLANEOUS OPTION

|           |      |
|-----------|------|
| <b>AA</b> | None |
|-----------|------|

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