

LIMITS OF SIZE FOR STANDARD SERIES UNIFIED THREADS : COMPONENT

| Note :All Dimensions in Bold are in INCHES & LIGHT are in MM | | EXTERNAL THREADS 2A | | | | | INTERNAL THREADS 2B | | | | |
|--|--------|------------------------|-------------------------|-------------------------|-------------------------|-------------------------|------------------------|------------------------|-------------------------|-------------------------|-------------------------|
| NORMAL SIZE | SERIES | FUND DEV (ALLOWANCE) | MAJOR Ø | | PITCH Ø | | MINOR Ø | | PITCH Ø | | MINOR Ø MIN |
| | | | MAX | MIN | MAX | MIN | MIN | MAX | MIN | MAX | |
| No.0-80 | UNF | 0.0005 0.013 | 0.0595 1.511 | 0.0563 1.430 | 0.0514 1.306 | 0.0496 1.260 | 0.0465 1.181 | 0.0514 1.306 | 0.0519 1.318 | 0.0542 1.377 | 0.0600 1.524 |
| No.1-64 | UNC | 0.0006 0.015 | 0.0724 1.839 | 0.0686 1.742 | 0.0623 1.582 | 0.0603 1.532 | 0.0561 1.425 | 0.0623 1.582 | 0.0629 1.598 | 0.0655 1.664 | 0.073 1.854 |
| No.1-72 | UNF | 0.0006 0.015 | 0.0724 1.839 | 0.0689 1.750 | 0.0634 1.610 | 0.0615 1.562 | 0.0580 1.473 | 0.0635 1.613 | 0.0640 1.626 | 0.0665 1.689 | 0.0730 1.854 |
| No.2-56 | UNC | 0.0006 0.015 | 0.0854 2.169 | 0.0813 2.065 | 0.0738 1.875 | 0.0717 1.821 | 0.0667 1.694 | 0.0737 1.872 | 0.0744 1.890 | 0.0772 1.961 | 0.0860 2.184 |
| No.2-64 | UNF | 0.0006 0.015 | 0.0854 2.169 | 0.0816 2.073 | 0.0753 1.913 | 0.0733 1.862 | 0.0691 1.755 | 0.0753 1.913 | 0.0759 1.928 | 0.0786 1.996 | 0.0860 2.184 |
| No.3-48 | UNC | 0.0007 0.018 | 0.0983 2.497 | 0.0938 2.383 | 0.0848 2.154 | 0.0825 2.096 | 0.0764 1.941 | 0.0845 2.146 | 0.0855 2.172 | 0.0885 2.248 | 0.0990 2.515 |
| No.3-56 | UNF | 0.0007 0.018 | 0.0983 2.497 | 0.0942 2.393 | 0.0867 2.202 | 0.0845 2.146 | 0.0797 2.024 | 0.0855 2.172 | 0.0874 2.220 | 0.0902 2.291 | 0.0990 2.515 |
| No.4-40 | UNC | 0.0008 0.020 | 0.1112 2.824 | 0.1061 2.695 | 0.0950 2.413 | 0.0925 2.350 | 0.0849 2.156 | 0.0939 2.385 | 0.0958 2.433 | 0.0991 2.517 | 0.1120 2.845 |
| No.4-48 | UNF | 0.0007 0.018 | 0.1113 2.827 | 0.1068 2.713 | 0.0978 2.484 | 0.0954 2.423 | 0.0894 2.271 | 0.0968 2.459 | 0.0985 2.502 | 0.1016 2.581 | 0.1120 2.845 |
| No.5-40 | UNC | 0.0008 0.020 | 0.1242 3.155 | 0.1191 3.025 | 0.1080 2.743 | 0.1054 2.677 | 0.0979 2.487 | 0.1062 2.697 | 0.1088 2.764 | 0.1121 2.847 | 0.1250 3.175 |
| No.5-44 | UNF | 0.0007 0.018 | 0.1243 3.157 | 0.1195 3.035 | 0.1095 2.781 | 0.1070 2.718 | 0.1004 2.550 | 0.1079 2.741 | 0.1102 2.799 | 0.1134 2.880 | 0.1250 3.175 |
| No.6-32 | UNC | 0.0008 0.020 | 0.1372 3.485 | 0.1312 3.332 | 0.1169 2.969 | 0.1141 2.898 | 0.1040 2.642 | 0.1140 2.896 | 0.1177 2.990 | 0.1214 3.084 | 0.1380 3.505 |
| No.6-40 | UNF | 0.0008 0.020 | 0.1372 3.485 | 0.1321 3.355 | 0.1210 3.073 | 0.1184 3.007 | 0.1110 2.819 | 0.1190 3.023 | 0.1218 3.094 | 0.1252 3.180 | 0.1380 3.505 |
| No.8-32 | UNC | 0.0009 0.023 | 0.1631 4.143 | 0.1571 3.990 | 0.1428 3.627 | 0.1399 3.553 | 0.130 3.302 | 0.1390 3.531 | 0.1437 3.650 | 0.1475 3.747 | 0.1640 4.166 |
| No.8-36 | UNF | 0.0008 0.020 | 0.1632 4.145 | 0.1577 4.006 | 0.1452 3.688 | 0.1424 3.617 | 0.1340 3.404 | 0.1420 3.607 | 0.1460 3.708 | 0.1496 3.800 | 0.1640 4.166 |
| No.10-24 | UNC | 0.0010 0.025 | 0.1890 4.801 | 0.1818 4.618 | 0.1619 4.112 | 0.1586 4.028 | 0.1450 3.683 | 0.1560 3.962 | 0.1629 4.138 | 0.1672 4.247 | 0.1900 4.826 |
| No.10-32 | UNF | 0.0009 0.023 | 0.1891 4.803 | 0.1831 4.651 | 0.1688 4.288 | 0.1658 4.211 | 0.1560 3.962 | 0.1640 4.166 | 0.1697 4.310 | 0.1736 4.409 | 0.1900 4.826 |
| No.12-24 | UNC | 0.0010 0.025 | 0.2150 5.461 | 0.2078 5.278 | 0.1879 4.773 | 0.1845 4.686 | 0.1710 4.343 | 0.1810 4.597 | 0.1889 4.798 | 0.1933 4.910 | 0.2160 5.486 |
| No.12-28 | UNF | 0.0010 0.025 | 0.2150 5.461 | 0.2085 5.296 | 0.1918 4.872 | 0.1886 4.790 | 0.1770 4.496 | 0.1860 4.724 | 0.1928 4.897 | 0.1970 5.004 | 0.2160 5.486 |
| 1/4-20 | UNC | 0.0011 0.028 | 0.2489 6.322 | 0.2408 6.116 | 0.2164 5.497 | 0.2127 5.403 | 0.1960 4.978 | 0.2070 5.258 | 0.2175 5.525 | 0.2224 5.649 | 0.2500 6.350 |
| 1/4-28 | UNF | 0.0010 0.025 | 0.2490 6.325 | 0.2425 6.160 | 0.2258 5.735 | 0.2225 5.652 | 0.2110 5.359 | 0.2200 5.588 | 0.2268 5.761 | 0.2311 5.870 | 0.2500 6.350 |
| 5/16-18 | UNC | 0.0012 0.030 | 0.3113 7.907 | 0.3026 7.686 | 0.2752 6.990 | 0.2712 6.888 | 0.2520 6.401 | 0.2650 6.731 | 0.2764 7.021 | 0.2817 7.155 | 0.3125 7.938 |
| 5/16-24 | UNF | 0.0011 0.028 | 0.3114 7.910 | 0.3042 7.727 | 0.2843 7.221 | 0.2806 7.127 | 0.2670 6.782 | 0.2770 7.036 | 0.2854 7.249 | 0.2902 7.371 | 0.3125 7.938 |
| 3/8-16 | UNC | 0.0013 0.033 | 0.3737 9.492 | 0.3643 9.253 | 0.3331 8.461 | 0.3287 8.349 | 0.3070 7.798 | 0.321 8.153 | 0.3344 8.494 | 0.3401 8.639 | 0.3750 9.525 |
| 3/8-24 | UNF | 0.0011 0.028 | 0.3739 9.497 | 0.3667 9.314 | 0.3468 8.809 | 0.3430 8.712 | 0.330 8.382 | 0.340 8.636 | 0.3479 8.837 | 0.3553 9.025 | 0.3750 9.525 |
| 7/16-14 | UNC | 0.0014 0.036 | 0.4361 11.077 | 0.4258 10.815 | 0.3897 9.898 | 0.3850 9.779 | 0.360 9.144 | 0.376 9.550 | 0.3911 9.934 | 0.3972 10.089 | 0.4375 11.113 |
| 7/16-20 | UNF | 0.0013 0.033 | 0.4362 11.079 | 0.4281 10.874 | 0.4037 10.254 | 0.3995 10.147 | 0.383 9.728 | 0.395 10.033 | 04050 10.287 | 0.4104 10.424 | 0.4375 11.113 |
| 1/2-13 | UNC | 0.0015 0.038 | 0.4985 12.662 | 0.4876 12.385 | 0.4485 11.392 | 0.4435 11.265 | 0.417 10.592 | 0.434 11.024 | 0.4500 11.430 | 0.4565 11.595 | 0.5000 12.700 |

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|--|--------|-----------------------------|-------------------------|-------------------------|-------------------------|-------------------------|------------------------|------------------------|-------------------------|-------------------------|-------------------------|
| NORMAL SIZE | SERIES | FUND DEV (ALLOWAN CE) | MAJOR Ø | | PITCH Ø | | MINOR Ø | | PITCH Ø | | MINOR Ø MIN |
| | | | MAX | MIN | MAX | MIN | MIN | MAX | MIN | MAX | |
| 1 / 2-20 | UNF | 0.0013 0.033 | 0.4987 12.667 | 0.4906 12.461 | 0.4662 11.841 | 0.4619 11.732 | 0.446 11.328 | 0.457 11.608 | 0.4675 11.875 | 0.4731 12.017 | 0.5000 12.700 |
| 9 / 16 -12 | UNC | 0.0016 0.041 | 0.5509 13.993 | 0.5495 13.957 | 0.5068 12.873 | 0.5016 12.741 | 0.472 11.989 | 0.490 12.446 | 0.5084 12.913 | 0.5152 13.086 | 0.5625 14.288 |
| 9 / 16-18 | UNF | 0.0014 0.036 | 0.5611 14.252 | 0.5524 14.031 | 0.5250 13.335 | 0.5205 13.221 | 0.502 12.751 | 0.515 13.081 | 0.5264 13.371 | 0.5323 13.520 | 0.5625 14.288 |
| 5 / 8-11 | UNC | 0.0016 0.041 | 0.6234 15.834 | 0.6113 15.527 | 0.5644 14.336 | 0.5589 14.196 | 0.527 13.386 | 0.546 13.868 | 0.5660 14.376 | 0.5732 14.559 | 0.6250 15.875 |
| 5 / 8-18 | UNF | 0.0014 0.036 | 0.6236 15.839 | 0.6149 15.618 | 0.5875 14.923 | 0.5828 14.803 | 0.565 14.351 | 0.578 14.681 | 0.5889 14.958 | 0.5949 15.110 | 0.6250 15.875 |
| 3 / 4-10 | UNC | 0.0018 0.046 | 0.7482 19.004 | 0.7353 18.677 | 0.6832 17.353 | 0.6773 17.203 | 0.642 16.307 | 0.663 16.840 | 0.6850 17.399 | 0.6927 17.595 | 0.7500 19.050 |
| 3 / 4 -16 | UNF | 0.0015 0.038 | 0.7485 19.012 | 0.7391 18.773 | 0.7079 17.981 | 0.7029 17.854 | 0.682 17.323 | 0.696 17.678 | 0.7094 18.019 | 0.7159 18.184 | 0.7500 19.050 |
| 7 / 8-9 | UNF | 0.0019 0.048 | 0.8731 22.177 | 0.8592 21.824 | 0.8009 20.343 | 0.7946 20.183 | 0.755 19.177 | 0.778 19.761 | 0.8028 20.391 | 0.8110 20.599 | 0.8750 22.225 |
| 7 / 8 -14 | UNF | 0.0016 0.041 | 0.8734 22.184 | 0.8631 21.923 | 0.8270 21.006 | 0.8216 20.869 | 0.798 20.269 | 0.814 20.676 | 0.8286 21.046 | 0.8356 21.224 | 0.8750 22.225 |
| 1- 8 | UNC | 0.0020 0.051 | 0.9980 25.349 | 0.9830 24.968 | 0.9168 23.287 | 0.9100 23.114 | 0.865 21.971 | 0.890 22.606 | 0.9188 23.338 | 0.9276 23.561 | 1.0000 25.400 |
| 1 - 12 | UNF | 0.0018 0.046 | 0.9982 25.354 | 0.9868 25.065 | 0.9441 23.980 | 0.9382 23.830 | 0.910 23.114 | 0.928 23.571 | 0.9459 24.026 | 0.9535 24.219 | 1.0000 25.400 |
| 1. 1/8 - 7 | UNC | 0.0022 0.056 | 1.1228 28.519 | 1.1064 28.103 | 1.0300 26.162 | 1.0228 25.979 | 0.970 24.638 | 0.998 25.349 | 1.0322 26.218 | 1.0416 26.457 | 1.1250 28.575 |
| 1. 1/8 - 12 | UNF | 0.0018 0.046 | 1.1232 28.529 | 1.1118 28.240 | 1.0691 27.155 | 1.0631 27.003 | 1.035 26.289 | 1.053 26.746 | 1.0709 27.201 | 1.0787 27.399 | 1.1250 28.575 |
| 1. 1/8 - 16 | UN | 0.0015 0.038 | 1.1235 28.537 | 1.1141 28.298 | 1.0829 27.506 | 1.0779 27.379 | 1.057 26.848 | 1.071 27.203 | 1.0844 27.544 | 1.0909 27.709 | 1.1250 28.575 |
| 1. 1/4 - 7 | UNC | 0.0022 0.056 | 1.2478 31.694 | 1.2314 31.278 | 1.1550 29.337 | 1.1476 29.149 | 1.096 27.838 | 1.123 28.524 | 1.1572 29.393 | 1.1668 29.637 | 1.2500 31.750 |
| 1. 1/4- 8 | UN | 0.0021 0.053 | 1.2479 31.697 | 1.2329 31.316 | 1.1667 29.634 | 1.1597 29.456 | 1.115 28.321 | 1.140 28.956 | 1.1688 29.688 | 1.1780 29.921 | 1.2500 31.750 |
| 1. 1/4 - 12 | UNF | 0.0018 0.046 | 1.2482 31.704 | 1.2368 31.415 | 1.1941 30.330 | 1.1879 30.173 | 1.160 29.464 | 1.178 29.921 | 1.1959 30.376 | 1.2039 30.579 | 1.2500 31.750 |
| 1. 1/4- 16 | UN | 0.0015 0.038 | 1.2485 31.712 | 1.2391 31.473 | 1.2079 30.681 | 1.2028 30.551 | 1.182 30.023 | 1.196 30.378 | 1.2094 30.719 | 1.2160 30.886 | 1.2500 31.750 |
| 1. 3/8 - 6 | UNC | 0.0024 0.061 | 1.3726 34.864 | 1.3544 34.402 | 1.2643 32.113 | 1.2563 31.910 | 1.195 30.353 | 1.225 31.115 | 1.2667 32.174 | 1.2771 32.438 | 1.3750 34.925 |
| 1.3/8 - 8 | UN | 0.0022 0.056 | 1.3728 34.869 | 1.3578 34.488 | 1.2916 32.807 | 1.2844 32.624 | 1.240 31.496 | 1.265 32.131 | 1.2938 32.863 | 1.3031 33.099 | 1.3750 34.925 |
| 1.3/8 - 12 | UNF | 0.0019 0.048 | 1.3731 34.877 | 1.3617 34.587 | 1.3190 33.503 | 1.3127 33.343 | 1.285 32.639 | 1.303 33.096 | 1.3209 33.551 | 1.3291 33.759 | 1.3750 34.925 |
| 1. 3/8 - 16 | UN | 0.0015 0.038 | 1.3735 34.887 | 1.3641 34.648 | 1.3329 33.856 | 1.3278 33.726 | 1.307 33.198 | 1.321 33.553 | 1.3344 33.894 | 1.3410 34.061 | 1.3750 34.925 |
| 1.1/2 - 6 | UNC | 0.0024 0.061 | 1.4976 38.039 | 1.4794 37.577 | 1.3893 35.288 | 1.3812 35.082 | 1.320 33.528 | 1.350 34.290 | 1.3917 35.349 | 1.4022 35.616 | 1.5000 38.100 |
| 1.1/2 - 8 | UN | 0.0022 0.056 | 1.4978 38.044 | 1.4828 37.663 | 1.4166 35.982 | 1.4093 35.796 | 1.365 34.671 | 1.390 35.306 | 1.4188 36.038 | 1.4283 36.279 | 1.5000 38.100 |
| 1.1/2 -12 | UNF | 0.0019 0.048 | 1.4981 38.052 | 1.4867 37.762 | 1.4440 36.678 | 1.4376 36.515 | 1.410 35.814 | 1.428 36.271 | 1.4459 36.726 | 1.4542 36.937 | 1.5000 38.100 |
| 1.1/2 -16 | UN | 0.0016 0.041 | 1.4984 38.059 | 1.4890 37.821 | 1.4578 37.028 | 1.4526 36.896 | 1.432 36.373 | 1.446 36.728 | 1.4594 37.069 | 1.4662 37.241 | 1.5000 38.100 |
| 1. 5/8 - 8 | UN | 0.0022 0.056 | 1.6228 41.219 | 1.6078 40.838 | 1.5416 39.157 | 1.5342 38.969 | 1.490 37.846 | 1.515 38.481 | 1.5438 39.213 | 1.5535 39.459 | 1.6250 41.275 |
| 1 5/8 -12 | UN | 0.0018 0.046 | 1.6232 41.229 | 1.6118 40.940 | 1.5691 39.855 | 1.5632 39.705 | 1.535 38.989 | 1.553 39.446 | 1.5709 39.901 | 1.5785 40.094 | 1.6250 41.275 |

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|--|--------|-----------------------------|-------------------------|-------------------------|-------------------------|-------------------------|------------------------|------------------------|-------------------------|-------------------------|-------------------------|
| NORMAL SIZE | SERIES | FUND DEV (ALLOWAN CE) | MAJOR Ø | | PITCH Ø | | MINOR Ø | | PITCH Ø | | MINOR Ø MIN |
| | | | MAX | MIN | MAX | MIN | MIN | MAX | MIN | MAX | |
| 1. 5/8 -16 | UN | 0.0016 0.041 | 1.6234 41.234 | 1.6140 40.996 | 1.5828 40.203 | 1.5776 40.071 | 1.557 39.548 | 1.571 39.903 | 1.5844 40.244 | 1.5912 40.416 | 1.6250 41.275 |
| 1.3/4 -5 | UNC | 0.0027 0.069 | 1.7473 44.381 | 1.7268 43.681 | 1.6174 41.082 | 1.6085 40.856 | 1.534 38.964 | 1.568 39.827 | 1.6201 41.151 | 1.6317 41.445 | 1.7500 44.450 |
| 1.3/4 -8 | UN | 0.0023 0.058 | 1.7477 44.392 | 1.7327 44.011 | 1.6665 42.329 | 1.6590 42.139 | 1.615 41.021 | 1.640 41.656 | 1.6688 42.388 | 1.6786 42.636 | 1.7500 44.450 |
| 1.3/4 -12 | UN | 0.0018 0.046 | 1.7482 44.404 | 1.7368 44.115 | 1.6941 43.030 | 1.6881 42.878 | 1.660 42.164 | 1.678 42.621 | 1.6959 43.076 | 1.7037 43.274 | 1.7500 44.450 |
| 1.3/4 -16 | UN | 0.0016 0.041 | 1.7484 44.409 | 1.7390 44.171 | 1.7078 43.378 | 1.7025 43.244 | 1.682 42.723 | 1.696 43.078 | 1.7094 43.419 | 1.7163 43.594 | 1.7500 44.450 |
| 1. 7/8-8 | UN | 0.0023 0.058 | 1.8727 47.567 | 1.8577 47.186 | 1.7915 45.504 | 1.7838 45.309 | 1.740 44.196 | 1.765 44.831 | 1.7938 45.563 | 1.8038 45.817 | 1.8750 47.625 |
| 1. 7/8-12 | UN | 0.0018 0.046 | 1.8732 47.579 | 1.8618 47.290 | 1.8191 46.205 | 1.8131 46.053 | 1.785 45.339 | 1.803 45.796 | 1.8209 46.251 | 1.8287 46.449 | 1.8750 47.625 |
| 1. 7/8-16 | UN | 0.0016 0.041 | 1.8734 47.584 | 1.8640 47.346 | 1.8328 46.553 | 1.8275 46.419 | 1.807 45.898 | 1.821 46.253 | 1.8344 46.594 | 1.8413 46.769 | 1.8750 47.625 |
| 2-4.5 | UNC | 0.0029 0.074 | 1.9971 50.726 | 1.9751 50.168 | 1.8528 47.061 | 1.8433 46.820 | 1.759 44.679 | 1.795 45.593 | 1.8557 47.135 | 1.8681 47.450 | 2.000 50.806 |
| 2-8 | UN | 0.0023 0.058 | 1.9977 50.742 | 1.9827 50.361 | 1.9165 48.679 | 1.9087 48.481 | 1.865 47.371 | 1.890 48.006 | 1.9188 48.738 | 1.9289 48.994 | 2.0000 50.806 |
| 2-12 | UN | 0.0018 0.046 | 1.9982 50.754 | 1.9868 50.465 | 1.9441 49.380 | 1.9380 49.225 | 1.910 48.514 | 1.928 48.971 | 1.9459 49.426 | 1.9538 49.627 | 2.0000 50.806 |
| 2-16 | UN | 0.0016 0.041 | 1.9984 50.759 | 1.9890 50.521 | 1.9578 49.728 | 1.9524 49.591 | 1.932 49.073 | 1.946 49.428 | 1.9594 49.769 | 1.9664 49.947 | 2.0000 50.800 |
| 2.1/4- 4.5 | UNC | 0.0029 0.074 | 2.2471 57.076 | 2.2251 56.518 | 2.1028 53.411 | 2.0931 53.165 | 2.009 51.029 | 2.045 51.943 | 2.1057 53.485 | 2.1183 53.805 | 2.2500 57.150 |
| 2.1/4 - 8 | UN | 0.0024 0.061 | 2.2476 57.089 | 2.2326 56.708 | 2.1664 55.027 | 2.1584 54.823 | 2.115 53.721 | 2.140 54.356 | 2.1688 55.088 | 2.1792 55.352 | 2.2500 57.150 |
| 2. 1/4 - 12 | UN | 0.0018 0.046 | 2.2482 57.104 | 2.2368 56.815 | 2.1941 55.730 | 2.1880 55.575 | 2.160 54.864 | 2.178 55.321 | 2.1959 55.776 | 2.2038 55.977 | 2.2500 57.150 |
| 2. 1/4 -16 | UN | 0.0016 0.041 | 2.2484 57.109 | 2.2390 56.871 | 2.2078 56.078 | 2.2024 55.941 | 2.182 55.423 | 2.196 55.778 | 2.2094 56.119 | 2.2164 56.297 | 2.2500 57.150 |
| 2. 3/8-8 | UN | 0.0024 0.061 | 2.3726 60.264 | 2.3576 59.883 | 2.2914 58.202 | 2.2833 57.996 | 2.240 56.896 | 2.265 57.531 | 2.2938 58.263 | 2.3043 58.529 | 2.3750 60.325 |
| 2. 3/8 -12 | UN | 0.0019 0.048 | 2.3731 60.277 | 2.3617 59.987 | 2.3190 58.903 | 2.3128 58.745 | 2.285 58.039 | 2.303 58.496 | 2.3209 58.951 | 2.3290 59.157 | 2.3750 60.325 |
| 2. 3/8 -16 | UN | 0.0017 0.043 | 2.3733 60.282 | 2.3639 60.043 | 2.3327 59.251 | 2.3272 59.111 | 2.307 58.598 | 2.321 58.953 | 2.3344 59.294 | 2.3416 59.477 | 2.3750 60.325 |
| 2.1/2 -4 | UNC | 0.0031 0.079 | 2.4969 63.421 | 2.4731 62.817 | 2.3345 59.296 | 2.3241 59.032 | 2.229 56.617 | 2.267 57.582 | 2.3376 59.375 | 2.3511 59.718 | 2.5000 63.500 |
| 2. 1/2 - 8 | UN | 0.0024 0.061 | 2.4976 63.439 | 2.4826 63.058 | 2.4164 61.377 | 2.4082 61.168 | 2.365 60.071 | 2.390 60.706 | 2.4188 61.438 | 2.4294 61.707 | 2.5000 63.500 |
| 2.1/2 -12 | UN | 0.0019 0.048 | 2.4981 63.452 | 2.4867 63.162 | 2.4440 62.078 | 2.4378 61.920 | 2.410 61.214 | 2.428 61.671 | 2.4459 62.126 | 2.4540 62.332 | 2.5000 63.500 |
| 2. 1/2- 16 | UN | 0.0017 0.043 | 2.4983 63.457 | 2.4889 63.218 | 2.4577 62.426 | 2.4522 62.286 | 2.432 61.773 | 2.446 62.128 | 2.4594 62.469 | 2.4666 62.652 | 2.5000 63.500 |
| 2. 5/8-8 | UN | 0.0025 0.064 | 2.6225 66.612 | 2.6075 66.231 | 2.5413 64.549 | 2.5331 64.341 | 2.490 63.246 | 2.515 63.881 | 2.5438 64.613 | 2.5545 64.884 | 2.6250 66.675 |
| 2. 5/8-12 | UN | 0.0019 0.048 | 2.6231 66.627 | 2.6117 66.337 | 2.5690 65.253 | 2.5628 65.095 | 2.535 64.389 | 2.553 64.846 | 2.5709 65.301 | 2.5790 65.507 | 2.6250 66.675 |
| 2. 5/8-16 | UN | 0.0017 0.043 | 2.6233 66.632 | 2.6139 66.393 | 2.5827 65.601 | 2.5772 65.461 | 2.557 64.948 | 2.571 65.303 | 2.5844 65.644 | 2.5916 65.827 | 2.6250 66.675 |
| 2.3/4 - 4 | UNC | 0.0032 0.081 | 2.7468 69.769 | 2.7230 69.164 | 2.5844 65.644 | 2.5739 65.377 | 2.479 62.967 | 2.517 63.932 | 2.5876 65.725 | 2.6013 66.073 | 2.7500 69.850 |

LIMITS OF SIZE FOR STANDARD SERIES UNIFIED THREADS : COMPONENT

| Note :All Dimensions in Bold are in INCHES & LIGHT are in MM | | EXTERNAL THREADS 2A | | | | | INTERNAL THREADS 2B | | | | |
|--|--------|--------------------------------|---------------|---------------|---------------|---------------|------------------------|--------------|---------------|---------------|----------------|
| NORMAL SIZE | SERIES | FUND DEV (ALLOWA NCE) | MAJOR Ø | | PITCH Ø | | MINOR Ø | | PITCH Ø | | MINOR Ø MIN |
| | | | MAX | MIN | MAX | MIN | MIN | MAX | MIN | MAX | |
| 2.3/4 - 8 | UN | 0.0025 | 2.7475 | 2.7325 | 2.6663 | 2.6580 | 2.615 | 2.640 | 2.6688 | 2.6796 | 2.7500 |
| | | 0.064 | 69.787 | 69.406 | 67.724 | 67.513 | 66.421 | 67.056 | 67.788 | 68.062 | 69.850 |
| 2.3/4- 12 | UN | 0.0019 | 2.7481 | 2.7367 | 2.6940 | 2.6878 | 2.660 | 2.678 | 2.6959 | 2.7040 | 2.7500 |
| | | 0.048 | 69.802 | 69.512 | 68.428 | 68.270 | 67.564 | 68.021 | 68.476 | 68.682 | 69.850 |
| 2.3/4- 16 | UN | 0.0017 | 2.7483 | 2.7389 | 2.7077 | 2.7022 | 2.682 | 2.696 | 2.7094 | 2.7166 | 2.7500 |
| | | 0.043 | 69.807 | 69.568 | 68.776 | 68.636 | 68.123 | 68.478 | 68.819 | 69.002 | 69.850 |
| 2. 7/8 - 8 | UN | 0.0025 | 2.8725 | 2.8575 | 2.7913 | 2.7829 | 2.740 | 2.765 | 2.7938 | 2.8048 | 2.8750 |
| | | 0.064 | 72.962 | 72.581 | 70.899 | 70.686 | 69.596 | 70.231 | 70.963 | 71.242 | 73.025 |
| 2.7/8- 12 | UN | 0.0019 | 2.8731 | 2.8617 | 2.8190 | 2.8127 | 2.785 | 2.803 | 2.8209 | 2.8291 | 2.8750 |
| | | 0.048 | 72.977 | 72.687 | 71.603 | 71.443 | 70.739 | 71.196 | 71.651 | 71.859 | 73.025 |
| 2.7/8- 16 | UN | 0.0017 | 2.8733 | 2.8639 | 2.8327 | 2.8271 | 2.807 | 2.821 | 2.8344 | 2.8417 | 2.8750 |
| | | 0.043 | 72.982 | 72.743 | 71.951 | 71.808 | 71.298 | 71.653 | 71.994 | 72.179 | 73.025 |
| 3-4 | UNC | 0.0032 | 2.9968 | 2.9730 | 2.8344 | 2.8237 | 2.729 | 2.767 | 2.8376 | 2.8515 | 3.0000 |
| | | 0.081 | 76.119 | 75.514 | 71.994 | 71.722 | 69.317 | 70.282 | 72.075 | 72.428 | 76.200 |
| 3-8 | UN | 0.0026 | 2.9974 | 2.9824 | 2.9162 | 2.9077 | 2.865 | 2.890 | 2.9188 | 2.9299 | 3.0000 |
| | | 0.066 | 76.134 | 75.753 | 74.071 | 73.856 | 72.771 | 73.406 | 74.138 | 74.419 | 76.200 |
| 3-12 | UN | 0.0019 | 2.9981 | 2.9867 | 2.9440 | 2.9377 | 2.910 | 2.928 | 2.9459 | 2.9541 | 3.0000 |
| | | 0.048 | 76.152 | 75.862 | 74.778 | 74.618 | 73.914 | 74.371 | 74.826 | 75.034 | 76.200 |
| 3-16 | UN | 0.0017 | 2.9983 | 2.9889 | 2.9577 | 2.9521 | 2.932 | 2.946 | 2.9594 | 2.9667 | 3.0000 |
| | | 0.043 | 76.157 | 75.918 | 75.126 | 74.983 | 74.473 | 74.828 | 75.169 | 75.354 | 76.200 |
| 3.1/4- 4 | UNC | 0.0033 | 3.2467 | 3.2229 | 3.0843 | 3.0734 | 2.979 | 3.017 | 3.0876 | 3.1017 | 3.2500 |
| | | 0.084 | 82.466 | 81.862 | 78.341 | 78.064 | 75.667 | 76.632 | 78.425 | 78.783 | 82.550 |
| 3.1/4- 8 | UN | 0.0026 | 3.2474 | 3.2324 | 3.1662 | 3.1575 | 3.115 | 3.140 | 3.1688 | 3.1801 | 3.2500 |
| | | 0.066 | 82.484 | 82.103 | 80.421 | 80.201 | 79.121 | 79.756 | 80.488 | 80.775 | 82.550 |
| 3.1/4- 12 | UN | 0.0019 | 3.2481 | 3.2367 | 3.1940 | 3.1877 | 3.160 | 3.178 | 3.1959 | 3.2041 | 3.2500 |
| | | 0.048 | 82.502 | 82.212 | 81.128 | 80.968 | 80.264 | 80.721 | 81.176 | 81.384 | 82.550 |
| 3.1/4- 16 | UN | 0.0017 | 3.2483 | 3.2389 | 3.2077 | 3.2021 | 3.182 | 3.196 | 3.2094 | 3.2167 | 3.2500 |
| | | 0.043 | 82.507 | 82.268 | 81.476 | 81.333 | 80.823 | 81.178 | 81.519 | 81.704 | 82.550 |
| 3.1/2 - 4 | UNC | 0.0033 | 3.4967 | 3.4729 | 3.3343 | 3.3233 | 3.229 | 3.267 | 3.3376 | 3.3519 | 3.5000 |
| | | 0.084 | 88.816 | 88.212 | 84.691 | 84.412 | 82.017 | 82.982 | 84.775 | 85.138 | 88.900 |
| 3.1/2 - 8 | UN | 0.0026 | 3.4974 | 3.4824 | 3.4162 | 3.4074 | 3.365 | 3.390 | 3.4188 | 3.4303 | 3.5000 |
| | | 0.066 | 88.834 | 88.453 | 86.771 | 86.548 | 85.471 | 86.106 | 86.838 | 87.130 | 88.900 |
| 3.1/2- 12 | UN | 0.0019 | 3.4981 | 3.4867 | 3.4440 | 3.4376 | 3.410 | 3.428 | 3.4459 | 3.4543 | 3.5000 |
| | | 0.048 | 88.852 | 88.562 | 87.478 | 87.315 | 86.614 | 87.071 | 87.526 | 87.739 | 88.900 |
| 3.1/2- 16 | UN | 0.0017 | 3.4983 | 3.4889 | 3.4577 | 3.4519 | 3.432 | 3.446 | 3.4594 | 3.4669 | 3.5000 |
| | | 0.043 | 88.857 | 88.618 | 87.826 | 87.678 | 87.173 | 87.528 | 87.869 | 88.059 | 88.900 |
| 3.3/4- 4 | UNC | 0.0034 | 3.7466 | 3.7228 | 3.5842 | 3.5730 | 3.479 | 3.517 | 3.5876 | 3.6021 | 3.7500 |
| | | 0.086 | 95.164 | 94.559 | 91.039 | 90.754 | 88.367 | 89.332 | 91.125 | 91.493 | 95.250 |
| 3.3/4- 8 | UN | 0.0027 | 3.7473 | 3.7323 | 3.6661 | 3.6571 | 3.615 | 3.640 | 3.6688 | 3.6805 | 3.7500 |
| | | 0.069 | 95.181 | 94.800 | 93.119 | 92.890 | 91.821 | 92.456 | 93.188 | 93.485 | 95.250 |
| 3.3/4- 12 | UN | 0.0019 | 3.7481 | 3.7367 | 3.6940 | 3.6876 | 3.660 | 3.678 | 3.6959 | 3.7043 | 3.7500 |
| | | 0.048 | 95.202 | 94.912 | 93.828 | 93.665 | 92.964 | 93.421 | 93.876 | 94.089 | 95.250 |
| 3.3/4- 16 | UN | 0.0017 | 3.7483 | 3.7389 | 3.7077 | 3.7019 | 3.682 | 3.696 | 3.7094 | 3.7169 | 3.7500 |
| | | 0.043 | 95.207 | 94.968 | 94.176 | 94.028 | 93.523 | 93.878 | 94.219 | 94.409 | 95.250 |
| 4-4 | UNC | 0.0034 | 3.9966 | 3.9728 | 3.8342 | 3.8229 | 3.729 | 3.767 | 3.8376 | 3.8523 | 4.0000 |
| | | 0.086 | 101.514 | 100.909 | 97.389 | 97.102 | 94.717 | 95.682 | 97.475 | 97.848 | 101.600 |
| 4-8 | UN | 0.0027 | 3.9973 | 3.9823 | 3.9161 | 3.9070 | 3.865 | 3.890 | 3.9188 | 3.9307 | 4.0000 |
| | | 0.069 | 101.531 | 101.150 | 99.469 | 99.238 | 98.171 | 98.806 | 99.538 | 99.840 | 101.600 |
| 4-12 | UN | 0.0020 | 3.9980 | 3.9866 | 3.9439 | 3.9374 | 3.910 | 3.928 | 3.9459 | 3.9544 | 4.0000 |
| | | 0.051 | 101.549 | 101.260 | 100.175 | 100.010 | 99.314 | 99.771 | 100.226 | 100.442 | 101.600 |
| 4 - 16 | UN | 0.0018 | 3.9982 | 3.9888 | 3.9576 | 3.9517 | 3.932 | 3.946 | 3.9594 | 3.9670 | 4.0000 |
| | | 0.046 | 101.554 | 101.316 | 100.523 | 100.373 | 99.873 | 100.228 | 100.569 | 100.762 | 101.600 |