



INCH PITCH DIAMETER



GLASTONBURY SOUTHERN GAGE

FOR INTERNAL THREADS ONLY - AMERICAN NATIONAL & UNIFIED SERIES

PHONE 800-251-4243
FAX 800-242-7142

| NOMINAL SIZE | GO BASIC ALL CLASSES ALL SERIES | NO GO | | | | NOMINAL SIZE | GO BASIC ALL CLASSES ALL SERIES | NO GO | | | |
|-------------------|---------------------------------|-------------------|-------|---------|--------|---------------------|---------------------------------|-------------------|--------|---------|--------|
| | | AMERICAN NATIONAL | | UNIFIED | | | | AMERICAN NATIONAL | | UNIFIED | |
| | | CL. 2 | CL. 3 | CL. 2B | CL. 3B | | | CL. 2 | CL. 3 | CL. 2B | CL. 3B |
| #0-80 NF, UNF | .0519 | .0536 | .0532 | .0542 | .0536 | 9/16-24 NEF, UNEF | .5354 | .5394 | .5382 | .5405 | .5392 |
| #1-64 NC, UNC | .0629 | .0648 | .0643 | .0655 | .0648 | 5/8-11 NC, UNC | .5660 | .5719 | .5702 | .5732 | .5714 |
| #1-72 NF, UNF | .0640 | .0658 | .0653 | .0665 | .0659 | 5/8-18 NF, UNF | .5889 | .5930 | .5919 | .5949 | .5934 |
| #2-56 NC, UNC | .0744 | .0764 | .0759 | .0772 | .0765 | 5/8-24 NEF, UNEF | .5979 | .6020 | .6008 | .6031 | .6018 |
| #2-64 NF, UNF | .0759 | .0778 | .0773 | .0786 | .0779 | 11/16-24 NEF, UNEF | .6604 | .6645 | .6633 | .6656 | .6643 |
| #3-48 NC, UNC | .0855 | .0877 | .0871 | .0885 | .0877 | 3/4-10 NC, UNC | .6850 | .6914 | .6895 | .6927 | .6907 |
| #3-56 NF, UNF | .0874 | .0894 | .0889 | .0902 | .0895 | 3/4-16 NF, UNF | .7094 | .7139 | .7126 | .7159 | .7143 |
| #4-40 NC, UNC | .0958 | .0982 | .0975 | .0991 | .0982 | 3/4-20 NEF, UNEF | .7175 | .7221 | .7207 | .7232 | .7218 |
| #4-48 NF, UNF | .0985 | .1007 | .1001 | .1016 | .1008 | 13/16-20 NEF, UNEF | .7800 | .7846 | .7832 | .7857 | .7843 |
| #5-40 NC, UNC | .1088 | .1112 | .1105 | .1121 | .1113 | 7/8-9 NC, UNC | .8028 | .8098 | .8077 | .8110 | .8089 |
| #5-44 NF, UNF | .1102 | .1125 | .1118 | .1134 | .1126 | 7/8-14 NF, UNF | .8286 | .8335 | .8322 | .8356 | .8339 |
| #6-32 NC, UNC | .1177 | .1204 | .1196 | .1214 | .1204 | 7/8-20 NEF, UNEF | .8425 | .8472 | .8458 | .8482 | .8468 |
| #6-40 NF, UNF | .1218 | .1242 | .1235 | .1252 | .1243 | 15/16-20 NEF, UNEF | .9050 | .9097 | .9083 | .9109 | .9094 |
| #8-32 NC, UNC | .1437 | .1464 | .1456 | .1475 | .1465 | 1"-8 NC, UNC | .9188 | .9264 | .9242 | .9276 | .9254 |
| #8-36 NF, UNF | .1460 | .1485 | .1478 | .1496 | .1487 | 1"-12 N, UNF | .9459 | .9515 | .9499 | .9535 | .9516 |
| #10-24 NC, UNC | .1629 | .1662 | .1653 | .1672 | .1661 | 1"-14 NS, UNS | .9536 | .9585 | .9572 | .9609 | .9590 |
| #10-32 NF, UNF | .1697 | .1724 | .1716 | .1736 | .1726 | 1"-20 NEF, UNEF | .9675 | .9723 | .9709 | .9734 | .9719 |
| #12-24 NC, UNC | .1889 | .1922 | .1913 | .1933 | .1922 | 1 1/16-12 N, UN | 1.0084 | 1.0140 | 1.0124 | 1.0158 | 1.0139 |
| #12-28 NF, UNF | .1928 | .1959 | .1950 | .1970 | .1959 | 1 1/16-18 NEF, UNEF | 1.0264 | 1.0315 | 1.0300 | 1.0326 | 1.0310 |
| #12-32 NEF, UNEF | .1957 | .1988 | .1979 | .1998 | .1988 | 1 1/8-7 NC, UNC | 1.0322 | 1.0407 | 1.0381 | 1.0416 | 1.0393 |
| 1/4-20 NC, UNC | .2175 | .2211 | .2201 | .2224 | .2211 | 1 1/8-12 NF, UNF | 1.0709 | 1.0765 | 1.0749 | 1.0787 | 1.0768 |
| 1/4-28 NF, UNF | .2268 | .2299 | .2290 | .2311 | .2300 | 1 1/8-18 NEF, UNEF | 1.0889 | 1.0941 | 1.0925 | 1.0951 | 1.0935 |
| 1/4-32 NEF, UNEF | .2297 | .2329 | .2319 | .2339 | .2328 | 1 3/16-12 N, UN | 1.1334 | 1.1390 | 1.1374 | 1.1409 | 1.1390 |
| 5/16-18 NC, UNC | .2764 | .2805 | .2794 | .2817 | .2803 | 1 3/16-18 NEF, UNEF | 1.1514 | 1.1566 | 1.1550 | 1.1577 | 1.1561 |
| 5/16-24 NF, UNF | .2854 | .2887 | .2878 | .2902 | .2890 | 1 1/4-7 NC, UNC | 1.1572 | 1.1657 | 1.1631 | 1.1668 | 1.1644 |
| 5/16-32 NEF, UNEF | .2922 | .2955 | .2945 | .2964 | .2953 | 1 1/4-12 NF, UNF | 1.1959 | 1.2015 | 1.1999 | 1.2039 | 1.2019 |
| 3/8-16 NC, UNC | .3344 | .3389 | .3376 | .3401 | .3387 | 1 1/4-18 NEF, UNEF | 1.2139 | 1.2192 | 1.2176 | 1.2202 | 1.2186 |
| 3/8-24 NF, UNF | .3479 | .3512 | .3503 | .3528 | .3516 | 1 5/16-12 N, UN | 1.2584 | 1.2640 | 1.2624 | 1.2659 | 1.2640 |
| 3/8-32 NEF, UNEF | .3547 | .3581 | .3571 | .3591 | .3580 | 1 5/16-18 NEF, UNEF | 1.2764 | 1.2817 | 1.2801 | 1.2827 | 1.2811 |
| 7/16-14 NC, UNC | .3911 | .3960 | .3947 | .3972 | .3957 | 1 3/8-6 NC, UNC | 1.2667 | 1.2768 | 1.2738 | 1.2771 | 1.2745 |
| 7/16-20 NF, UNF | .4050 | .4086 | .4076 | .4104 | .4091 | 1 3/8-12 NF, UNF | 1.3209 | 1.3265 | 1.3249 | 1.3291 | 1.3270 |
| 7/16-28 NEF, UNEF | .4143 | .4179 | .4168 | .4189 | .4178 | 1 3/8-18 NEF, UNEF | 1.3389 | 1.3443 | 1.3427 | 1.3452 | 1.3436 |
| 1/2-12 N, UN | .4459 | .4515 | .4499 | .4529 | .4511 | 1 7/16-12 N, UN | 1.3834 | 1.3890 | 1.3874 | 1.3910 | 1.3891 |
| 1/2-13 NC, UNC | .4500 | .4552 | .4537 | .4565 | .4548 | 1 7/16-18 NEF, UNEF | 1.4014 | 1.4068 | 1.4052 | 1.4079 | 1.4062 |
| 1/2-20 NF, UNF | .4675 | .4711 | .4701 | .4731 | .4717 | 1 1/2-6 NC, UNC | 1.3917 | 1.4018 | 1.3988 | 1.4022 | 1.3996 |
| 1/2-28 NEF, UNEF | .4768 | .4805 | .4794 | .4816 | .4804 | 1 1/2-12 NF, UNF | 1.4459 | 1.4515 | 1.4499 | 1.4542 | 1.4522 |
| 9/16-12 NC, UNC | .5084 | .5140 | .5124 | .5152 | .5135 | 1 1/2-18 NEF, UNEF | 1.4639 | 1.4694 | 1.4677 | 1.4704 | 1.4687 |
| 9/16-18 NF, UNF | .5264 | .5305 | .5294 | .5323 | .5308 | | | | | | |

Above taken from Fed. Std. H-28-1957, Part 1 / ANSI B1.1-1997



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INCH PITCH DIAMETER

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| NOMINAL SIZE | AMERICAN NATIONAL | | | UNIFIED | | | | NOMINAL SIZE | AMERICAN NATIONAL | | | UNIFIED | | | |
|-------------------|-------------------|-------|-------|---------|--------|--------|--------|---|-------------------|--------|--------|---------|--------|--------|--------|
| | GO CL. 2 & 3 | NO GO | | GO | | NO GO | | | GO CL. 2 & 3 | NO GO | | GO | | NO GO | |
| | | CL. 2 | CL. 3 | CL. 3A | CL. 2A | CL. 2A | CL. 3A | | | CL. 2 | CL. 3 | CL. 3A | CL. 2A | CL. 2A | CL. 3A |
| #0-80 NF, UNF | .0519 | .0502 | .0506 | .0519 | .0514 | .0496 | .0506 | 9/16-24 NEF, UNEF | .5354 | .5314 | .5326 | .5354 | .5342 | .5303 | .5325 |
| #1-64 NC, UNC | .0629 | .0610 | .0615 | .0629 | .0623 | .0603 | .0614 | 5/8- 11 NC, UNC | .5660 | .5601 | .5618 | .5660 | .5644 | .5589 | .5619 |
| #1-72 NF, UNF | .0640 | .0622 | .0627 | .0640 | .0634 | .0615 | .0626 | 5/8-18 NF, UNF | .5889 | .5848 | .5859 | .5889 | .5875 | .5828 | .5854 |
| #2-56 NC, UNC | .0744 | .0724 | .0729 | .0744 | .0738 | .0717 | .0728 | 5/8-24 NEF, UNEF | .5979 | .5938 | .5950 | .5979 | .5967 | .5927 | .5949 |
| #2-64 NF, UNF | .0759 | .0740 | .0745 | .0759 | .0753 | .0733 | .0744 | 11/16-24 NEF, UNEF | .6604 | .6563 | .6575 | .6604 | .6592 | .6552 | .6574 |
| #3-48 NC, UNC | .0855 | .0833 | .0839 | .0855 | .0848 | .0825 | .0838 | 3/4-10 NC, UNC | .6850 | .6786 | .6805 | .6850 | .6832 | .6773 | .6806 |
| #3-56 NF, UNF | .0874 | .0854 | .0859 | .0874 | .0867 | .0845 | .0858 | 3/4-16 NF, UNF | .7094 | .7049 | .7062 | .7094 | .7079 | .7029 | .7056 |
| #4-40 NC, UNC | .0958 | .0934 | .0941 | .0958 | .0950 | .0925 | .0939 | 3/4-20 NEF, UNEF | .7175 | .7129 | .7143 | .7175 | .7162 | .7118 | .7142 |
| #4-48 NF, UNF | .0985 | .0963 | .0969 | .0985 | .0978 | .0954 | .0967 | 13/16-20 NEF, UNEF | .7800 | .7754 | .7768 | .7800 | .7787 | .7743 | .7767 |
| #5-40 NC, UNC | .1088 | .1064 | .1071 | .1088 | .1080 | .1054 | .1069 | 7/8-9 NC, UNC | .8028 | .7958 | .7979 | .8028 | .8009 | .7946 | .7981 |
| #5-44 NF, UNF | .1102 | .1079 | .1086 | .1102 | .1095 | .1070 | .1083 | 7/8-14 NF, UNF | .8286 | .8237 | .8250 | .8286 | .8270 | .8216 | .8245 |
| #6-32 NC, UNC | .1177 | .1150 | .1158 | .1177 | .1169 | .1141 | .1156 | 7/8-20 NEF, UNEF | .8425 | .8378 | .8392 | .8425 | .8412 | .8368 | .8392 |
| #6-40 NF, UNF | .1218 | .1194 | .1201 | .1218 | .1210 | .1184 | .1198 | 15/16-20 NEF, UNEF | .9050 | .9003 | .9017 | .9050 | .9036 | .8991 | .9016 |
| #8-32 NC, UNC | .1437 | .1410 | .1418 | .1437 | .1428 | .1399 | .1415 | 1"-8 NC, UNC | .9188 | .9112 | .9134 | .9188 | .9168 | .9100 | .9137 |
| #8-36 NF, UNF | .1460 | .1435 | .1442 | .1460 | .1452 | .1424 | .1439 | 1"-12 N, UNF | .9459 | .9403 | .9419 | .9459 | .9441 | .9382 | .9415 |
| #10-24 NC, UNC | .1629 | .1596 | .1605 | .1629 | .1619 | .1586 | .1604 | 1"-14 NS, UNS | .9536 | .9487 | .9500 | .9536 | .9519 | .9463 | .9494 |
| #10-32 NF, UNF | .1697 | .1670 | .1678 | .1697 | .1688 | .1658 | .1674 | 1"-20 NEF, UNEF | .9675 | .9627 | .9641 | .9675 | .9661 | .9616 | .9641 |
| #12-24 NC, UNC | .1889 | .1856 | .1865 | .1889 | .1879 | .1845 | .1863 | 1 1/16-12 N, UN | 1.0084 | 1.0028 | 1.0044 | 1.0084 | 1.0067 | 1.0010 | 1.0042 |
| #12-28 NF, UNF | .1928 | .1897 | .1906 | .1928 | .1918 | .1886 | .1904 | 1 1/16-18 NEF, UNEF | 1.0264 | 1.0213 | 1.0228 | 1.0264 | 1.0250 | 1.0203 | 1.0228 |
| #12-32 NEF, UNEF | .1957 | .1926 | .1935 | .1957 | .1948 | .1917 | .1933 | 1 1/8-7 NC, UNC | 1.0322 | 1.0237 | 1.0263 | 1.0322 | 1.0300 | 1.0228 | 1.0268 |
| 1/4-20 NC, UNC | .2175 | .2139 | .2149 | .2175 | .2164 | .2127 | .2147 | 1 1/8-12 NF, UNF | 1.0709 | 1.0653 | 1.0669 | 1.0709 | 1.0691 | 1.0631 | 1.0664 |
| 1/4-28 NF, UNF | .2268 | .2237 | .2246 | .2268 | .2258 | .2225 | .2243 | 1 1/8-18 NEF, UNEF | 1.0889 | 1.0837 | 1.0853 | 1.0889 | 1.0875 | 1.0828 | 1.0853 |
| 1/4-32 NEF, UNEF | .2297 | .2265 | .2275 | .2297 | .2287 | .2255 | .2273 | 1 3/16-12 N, UN | 1.1334 | 1.1278 | 1.1294 | 1.1334 | 1.1317 | 1.1259 | 1.1291 |
| 5/16-18 NC, UNC | .2764 | .2723 | .2734 | .2764 | .2752 | .2712 | .2734 | 1 1/16-18 NEF, UNEF | 1.1514 | 1.1462 | 1.1478 | 1.1514 | 1.1499 | 1.1450 | 1.1478 |
| 5/16-24 NF, UNF | .2854 | .2821 | .2830 | .2854 | .2843 | .2806 | .2827 | 1 1/4-7 NC, UNC | 1.1572 | 1.1487 | 1.1513 | 1.1572 | 1.1550 | 1.1476 | 1.1517 |
| 5/16-32 NEF, UNEF | .2922 | .2889 | .2899 | .2922 | .2912 | .2880 | .2898 | 1 1/4-12 NF, UNF | 1.1959 | 1.1903 | 1.1919 | 1.1959 | 1.1941 | 1.1879 | 1.1913 |
| 3/8-16 NC, UNC | .3344 | .3299 | .3312 | .3344 | .3331 | .3287 | .3311 | 1 1/4-18 NEF, UNEF | 1.2139 | 1.2086 | 1.2102 | 1.2139 | 1.2124 | 1.2075 | 1.2103 |
| 3/8-24 NF, UNF | .3479 | .3446 | .3455 | .3479 | .3468 | .3430 | .3450 | 1 5/16-12 N, UN | 1.2584 | 1.2528 | 1.2544 | 1.2584 | 1.2567 | 1.2509 | 1.2541 |
| 3/8-32 NEF, UNEF | .3547 | .3513 | .3523 | .3547 | .3537 | .3503 | .3522 | 1 5/16-18 NEF, UNEF | 1.2764 | 1.2711 | 1.2727 | 1.2764 | 1.2749 | 1.2700 | 1.2728 |
| 7/16-14 NC, UNC | .3911 | .3862 | .3875 | .3911 | .3897 | .3850 | .3876 | 1 3/8-6 NC, UNC | 1.2667 | 1.2566 | 1.2596 | 1.2667 | 1.2643 | 1.2563 | 1.2607 |
| 7/16-20 NF, UNF | .4050 | .4014 | .4024 | .4050 | .4037 | .3995 | .4019 | 1 3/8-12 NF, UNF | 1.3209 | 1.3153 | 1.3169 | 1.3209 | 1.3190 | 1.3127 | 1.3162 |
| 7/16-28 NEF, UNEF | .4143 | .4107 | .4118 | .4143 | .4132 | .4096 | .4116 | 1 3/8-18 NEF, UNEF | 1.3389 | 1.3335 | 1.3351 | 1.3389 | 1.3374 | 1.3325 | 1.3353 |
| 1/2-12 N, UN | .4459 | .4403 | .4419 | .4459 | .4443 | .4389 | .4419 | 1 7/16-12 N, UN | 1.3834 | 1.3778 | 1.3794 | 1.3834 | 1.3816 | 1.3757 | 1.3790 |
| 1/2-13 NC, UNC | .4500 | .4448 | .4463 | .4500 | .4485 | .4435 | .4463 | 1 7/16-18 NEF, UNEF | 1.4014 | 1.3960 | 1.3976 | 1.4014 | 1.3999 | 1.3949 | 1.3977 |
| 1/2-20 NF, UNF | .4675 | .4639 | .4649 | .4675 | .4662 | .4619 | .4643 | 1 1/2-6 NC, UNC | 1.3917 | 1.3816 | 1.3846 | 1.3917 | 1.3893 | 1.3812 | 1.3856 |
| 1/2-28 NEF, UNEF | .4768 | .4731 | .4742 | .4768 | .4757 | .4720 | .4740 | 1 1/2-12 NF, UNF | 1.4459 | 1.4403 | 1.4419 | 1.4459 | 1.4440 | 1.4376 | 1.4411 |
| 9/16-12 NC, UNC | .5084 | .5028 | .5044 | .5084 | .5068 | .5016 | .5045 | 1 1/2-18 NEF, UNEF | 1.4639 | 1.4584 | 1.4601 | 1.4639 | 1.4624 | 1.4574 | 1.4602 |
| 9/16-18 NF, UNF | .5264 | .5223 | .5234 | .5264 | .5250 | .5205 | .5230 | Above taken from Fed. Std. H-28-1957, Part 1 / ANSI B1.1-1997 | | | | | | | |



METRIC PITCH DIAMETER



GLASTONBURY SOUTHERN GAGE

STANDARD SERIES METRIC THREADS — INTERNAL (Nut) THREADS ONLY (CLASS 6H)
Reference: ANSI-B1.13-1989 and/or FED-STD H28/21

PHONE 800-251-4243
FAX 800-242-7142

| BASIC THREAD DESIGNATION | DIMENSIONS IN MILLIMETERS | | | | | | | DIMENSIONS IN INCHES | | | | | | |
|--------------------------------|---------------------------|-------|-------------------------|---------------|------------|---------------|--------|----------------------|---------------------|-------------------------|---------------|------------|---------------|---------|
| | NOMINAL O.D. | PITCH | MAJOR DIA. | PITCH DIA. | | MINOR DIA. | | NOMINAL O.D. | THREADS PER INCH | MAJOR DIA. | PITCH DIA. | | MINOR DIA. | |
| | | | MIN. (MUST CLEAR) | MIN. GO | MAX. HI | MIN. | MAX. | | | MIN. (MUST CLEAR) | MIN. GO | MAX. HI | MIN. | MAX. |
| M1.6x0.35 | 1.6 | 0.35 | 1.600 | 1.373 | 1.458 | 1.221 | 1.321 | .06299 | 72.57 | .06299 | .05406 | .05740 | .04807 | .05201 |
| M2x0.4 | 2.0 | 0.40 | 2.000 | 1.740 | 1.830 | 1.567 | 1.679 | .07874 | 63.50 | .07874 | .06850 | .07205 | .06169 | .06610 |
| M2.5x0.45 | 2.5 | 0.45 | 2.500 | 2.208 | 2.303 | 2.013 | 2.138 | .09843 | 56.44 | .09843 | .08693 | .09067 | .07925 | .08417 |
| M3x0.5 | 3.0 | 0.50 | 3.000 | 2.675 | 2.775 | 2.459 | 2.599 | .11811 | 50.80 | .11811 | .10531 | .10925 | .09681 | .10232 |
| M3.5x0.6 | 3.5 | 0.60 | 3.500 | 3.110 | 3.222 | 2.850 | 3.010 | .13780 | 42.33 | .13780 | .12244 | .12685 | .11220 | .11850 |
| M4x0.7 | 4.0 | 0.70 | 4.000 | 3.545 | 3.663 | 3.242 | 3.422 | .15748 | 36.29 | .15748 | .13957 | .14421 | .12764 | .13472 |
| M5x0.8 | 5.0 | 0.80 | 5.000 | 4.480 | 4.605 | 4.134 | 4.334 | .19685 | 31.75 | .19685 | .17638 | .18130 | .16276 | .17063 |
| M6x1 | 6.0 | 1.00 | 6.000 | 5.350 | 5.500 | 4.917 | 5.153 | .23622 | 25.40 | .23622 | .21063 | .21654 | .19358 | .20287 |
| M8x1.25 | 8.0 | 1.25 | 8.000 | 7.188 | 7.348 | 6.647 | 6.912 | .31496 | 20.32 | .31496 | .28299 | .28929 | .26169 | .27213 |
| M8x1 | 8.0 | 1.00 | 8.000 | 7.350 | 7.500 | 6.917 | 7.153 | .31496 | 25.40 | .31496 | .28937 | .29528 | .27232 | .28161 |
| M10x1.5 | 10.0 | 1.50 | 10.000 | 9.026 | 9.206 | 8.376 | 8.676 | .39370 | 16.93 | .39370 | .35535 | .36244 | .32976 | .34157 |
| M10x1.25 | 10.0 | 1.25 | 10.000 | 9.188 | 9.348 | 8.647 | 8.912 | .39370 | 20.32 | .39370 | .36173 | .36803 | .34043 | .35087 |
| M10.0.75 | 10.0 | 0.75 | 10.000 | 9.513 | 9.645 | 9.188 | 9.378 | .39370 | 33.87 | .39370 | .37453 | .37972 | .36173 | .36921 |
| M12x1.75 | 12.0 | 1.75 | 12.000 | 10.863 | 11.063 | 10.106 | 10.441 | .47244 | 14.51 | .47244 | .42768 | .43555 | .39787 | .41106 |
| M12x1.5 | 12.0 | 1.50 | 12.000 | 11.026 | 11.216 | 10.376 | 10.676 | .47244 | 16.93 | .47244 | .43409 | .44157 | .40850 | .42031 |
| M12x1.25 | 12.0 | 1.25 | 12.000 | 11.188 | 11.368 | 10.647 | 10.912 | .47244 | 20.32 | .47244 | .44047 | .44756 | .41917 | .42961 |
| M12x1 | 12.0 | 1.00 | 12.000 | 11.350 | 11.510 | 10.917 | 11.153 | .47244 | 25.40 | .47244 | .44685 | .45315 | .42980 | .43909 |
| M14x2 | 14.0 | 2.00 | 14.000 | 12.701 | 12.913 | 11.835 | 12.210 | .55118 | 12.70 | .55118 | .50004 | .50839 | .46594 | .48071 |
| M14x1.5 | 14.0 | 1.50 | 14.000 | 13.026 | 13.216 | 12.376 | 12.676 | .55118 | 16.93 | .55118 | .51283 | .52031 | .48724 | .49906 |
| M15x1 | 15.0 | 1.00 | 15.000 | 14.350 | 14.510 | 13.917 | 14.153 | .59055 | 25.40 | .59055 | .56496 | .57126 | .54791 | .55720 |
| M16x2 | 16.0 | 2.00 | 16.000 | 14.701 | 14.913 | 13.835 | 14.210 | .62992 | 12.70 | .62992 | .57878 | .58713 | .54469 | .55945 |
| M16x1.5 | 16.0 | 1.50 | 16.000 | 15.026 | 15.216 | 14.376 | 14.676 | .62992 | 16.93 | .62992 | .59157 | .59906 | .56598 | .57780 |
| M17x1 | 17.0 | 1.00 | 17.000 | 16.350 | 16.510 | 15.917 | 16.153 | .66929 | 25.40 | .66929 | .64370 | .65000 | .61886 | .63594 |
| M18x1.5 | 18.0 | 1.50 | 18.000 | 17.026 | 17.216 | 16.376 | 16.676 | .70866 | 16.93 | .70866 | .67031 | .67780 | .64472 | .65654 |
| M20x2.5 | 20.0 | 2.50 | 20.000 | 18.376 | 18.600 | 17.294 | 17.744 | .78740 | 10.16 | .78740 | .72346 | .73228 | .68087 | .69858 |
| M20x1.5 | 20.0 | 1.50 | 20.000 | 19.026 | 19.216 | 18.376 | 18.676 | .78740 | 16.93 | .78740 | .74906 | .75654 | .72346 | .73528 |
| M20x1 | 20.0 | 1.00 | 20.000 | 19.350 | 19.510 | 18.917 | 19.153 | .78740 | 25.40 | .78740 | .76181 | .76811 | .74476 | .75406 |
| M22x2.5 | 22.0 | 2.50 | 22.000 | 20.376 | 20.600 | 19.294 | 19.744 | .86614 | 10.16 | .86614 | .80220 | .81102 | .75961 | .77732 |
| M22x1.5 | 22.0 | 1.50 | 22.000 | 21.026 | 21.216 | 20.376 | 20.676 | .86614 | 16.93 | .86614 | .82780 | .83528 | .80220 | .81402 |
| M24x3 | 24.0 | 3.00 | 24.000 | 22.051 | 22.316 | 20.752 | 21.252 | .94488 | 8.47 | .94488 | .86815 | .87858 | .81701 | .83669 |
| M24x2 | 24.0 | 2.00 | 24.000 | 22.701 | 22.925 | 21.835 | 22.210 | .94488 | 12.70 | .94488 | .89374 | .90256 | .85965 | .87441 |
| M25x1.5 | 25.0 | 1.50 | 25.000 | 24.026 | 24.226 | 23.376 | 23.676 | .98425 | 16.93 | .98425 | .94591 | .95378 | .92031 | .93213 |
| M27x3 | 27.0 | 3.00 | 27.000 | 25.051 | 25.316 | 23.752 | 24.252 | 1.06299 | 8.47 | 1.06299 | .98626 | .99669 | .93512 | .95480 |
| M27x2 | 27.0 | 2.00 | 27.000 | 25.701 | 25.925 | 24.835 | 25.210 | 1.06299 | 12.70 | 1.06299 | 1.01185 | 1.02067 | .97776 | .99252 |
| M30x3.5 | 30.0 | 3.50 | 30.000 | 27.727 | 28.007 | 26.211 | 26.771 | 1.18110 | 7.26 | 1.18110 | 1.09161 | 1.10264 | 1.03193 | 1.05398 |
| M30x2 | 30.0 | 2.00 | 30.000 | 28.701 | 28.925 | 27.835 | 28.210 | 1.18110 | 12.70 | 1.18110 | 1.12996 | 1.13878 | 1.09587 | 1.11063 |
| M30x1.5 | 30.0 | 1.50 | 30.000 | 29.026 | 29.226 | 28.376 | 28.676 | 1.18110 | 16.93 | 1.18110 | 1.14276 | 1.15063 | 1.11717 | 1.12898 |
| M33x2 | 33.0 | 2.00 | 33.000 | 31.701 | 31.925 | 30.835 | 31.210 | 1.29921 | 12.70 | 1.29921 | 1.24807 | 1.25689 | 1.21398 | 1.22874 |
| M35x1.5 | 35.0 | 1.50 | 35.000 | 34.026 | 34.226 | 33.376 | 33.676 | 1.37795 | 16.93 | 1.37795 | 1.33961 | 1.34748 | 1.31402 | 1.32559 |
| M36x4 | 36.0 | 4.00 | 36.000 | 33.402 | 33.702 | 31.670 | 32.270 | 1.41732 | 6.35 | 1.41732 | 1.31504 | 1.32685 | 1.24685 | 1.27047 |
| M36x2 | 36.0 | 2.00 | 36.000 | 34.701 | 34.925 | 33.835 | 34.210 | 1.41732 | 12.70 | 1.41732 | 1.36618 | 1.37500 | 1.33209 | 1.34685 |
| M39x2 | 39.0 | 2.00 | 39.000 | 37.701 | 37.925 | 36.835 | 37.210 | 1.53543 | 12.70 | 1.53543 | 1.48429 | 1.49311 | 1.45020 | 1.46496 |



METRIC PITCH DIAMETER



GLASTONBURY SOUTHERN GAGE

STANDARD SERIES METRIC THREADS — EXTERNAL THREADS ONLY (CLASS 6g)
Reference: ANSI-B1.13-1989 and/or FED-STD H28/21

PHONE 800-251-4243
FAX 800-242-7142

| BASIC THREAD DESIGNATION | DIMENSIONS IN MILLIMETERS | | | | | | | DIMENSIONS IN INCHES | | | | | | |
|--------------------------------|---------------------------|-------|---------------|--------|---------------|------------|---|----------------------|---------------------|---------------|---------|---------------|---------|---|
| | NOMINAL O.D. | PITCH | MAJOR DIA. | | PITCH DIA. | | MINOR DIA. (FLAT ROOT) MAX. | NOMINAL O.D. | THREADS PER INCH | MAJOR DIA. | | PITCH DIA. | | MINOR DIA. (FLAT ROOT) MAX. |
| | | | MAX. | MIN. | MAX. GO | MIN. LO | | | | MAX. | MIN. | MAX. GO | MIN. | |
| M1.6x0.35 | 1.6 | 0.35 | 1.581 | 1.496 | 1.354 | 1.291 | 1.202 | .06299 | 72.57 | .06224 | .05890 | .05331 | .05083 | .04732 |
| M2x0.4 | 2.0 | 0.40 | 1.981 | 1.886 | 1.721 | 1.654 | 1.548 | .07874 | 63.50 | .07799 | .07425 | .06776 | .06512 | .06094 |
| M2.5x0.45 | 2.5 | 0.45 | 2.480 | 2.380 | 2.188 | 2.117 | 1.993 | .09843 | 56.44 | .09764 | .09370 | .08614 | .08335 | .07846 |
| M3x0.5 | 3.0 | 0.50 | 2.980 | 2.874 | 2.655 | 2.580 | 2.439 | .11811 | 50.80 | .11732 | .11315 | .10453 | .10157 | .09602 |
| M3.5x0.6 | 3.5 | 0.60 | 3.479 | 3.354 | 3.089 | 3.004 | 2.829 | .13780 | 42.33 | .13697 | .13205 | .12161 | .11827 | .11138 |
| M4x0.7 | 4.0 | 0.70 | 3.978 | 3.838 | 3.523 | 3.433 | 3.220 | .15748 | 36.29 | .15661 | .15110 | .13870 | .13516 | .12677 |
| M5x0.8 | 5.0 | 0.80 | 4.976 | 4.826 | 4.456 | 4.361 | 4.110 | .19685 | 31.75 | .19591 | .19000 | .17543 | .17169 | .16181 |
| M6x1 | 6.0 | 1.00 | 5.974 | 5.794 | 5.324 | 5.212 | 4.891 | .23622 | 25.40 | .23520 | .22811 | .20961 | .20520 | .19256 |
| M8x1.25 | 8.0 | 1.25 | 7.972 | 7.760 | 7.160 | 7.042 | 6.619 | .31496 | 20.32 | .31386 | .30551 | .28189 | .27724 | .26059 |
| M8x1 | 8.0 | 1.00 | 7.974 | 7.794 | 7.324 | 7.212 | 6.891 | .31496 | 25.40 | .31394 | .30685 | .28835 | .28394 | .27130 |
| M10x1.5 | 10.0 | 1.50 | 9.968 | 9.732 | 8.994 | 8.862 | 8.344 | .39370 | 16.93 | .39244 | .38315 | .35409 | .34890 | .32850 |
| M10x1.25 | 10.0 | 1.25 | 9.972 | 9.760 | 9.160 | 9.042 | 8.619 | .39370 | 20.32 | .39260 | .38425 | .36063 | .35598 | .33933 |
| M10x0.75 | 10.0 | 0.75 | 9.978 | 9.838 | 9.491 | 9.391 | 9.166 | .39370 | 33.87 | .39283 | .38732 | .37366 | .36972 | .36087 |
| M12x1.75 | 12.0 | 1.75 | 11.966 | 11.701 | 10.829 | 10.679 | 10.072 | .47244 | 14.51 | .47110 | .46067 | .42634 | .42043 | .39654 |
| M12x1.5 | 12.0 | 1.50 | 11.968 | 11.732 | 10.994 | 10.854 | 10.344 | .47244 | 16.93 | .47118 | .46189 | .43283 | .42732 | .40724 |
| M12x1.25 | 12.0 | 1.25 | 11.972 | 11.760 | 11.160 | 11.028 | 10.619 | .47244 | 20.32 | .47134 | .46299 | .43937 | .43417 | .41807 |
| M12x1 | 12.0 | 1.00 | 11.974 | 11.794 | 11.324 | 11.206 | 10.891 | .47244 | 25.40 | .47142 | .46433 | .44583 | .44118 | .42878 |
| M14x2 | 14.0 | 2.00 | 13.962 | 13.682 | 12.663 | 12.503 | 11.797 | .55118 | 12.70 | .54969 | .53866 | .49854 | .49224 | .46445 |
| M14x1.5 | 14.0 | 1.50 | 13.968 | 13.732 | 12.994 | 12.854 | 12.344 | .55118 | 16.93 | .54992 | .54063 | .51157 | .50606 | .48598 |
| M15x1 | 15.0 | 1.00 | 14.974 | 14.794 | 14.324 | 14.206 | 13.891 | .59055 | 25.40 | .58953 | .58244 | .56394 | .55929 | .54689 |
| M16x2 | 16.0 | 2.00 | 15.962 | 15.682 | 14.663 | 14.503 | 13.797 | .62992 | 12.70 | .62843 | .61740 | .57728 | .57098 | .54319 |
| M16x1.5 | 16.0 | 1.50 | 15.968 | 15.732 | 14.994 | 14.854 | 14.344 | .62992 | 16.93 | .62866 | .61937 | .59031 | .58480 | .56472 |
| M17x1 | 17.0 | 1.00 | 16.974 | 16.794 | 16.324 | 16.206 | 15.891 | .66929 | 25.40 | .66827 | .66118 | .64268 | .63803 | .62563 |
| M18x1.5 | 18.0 | 1.50 | 17.968 | 17.732 | 16.994 | 16.854 | 16.344 | .70866 | 16.93 | .70740 | .69811 | .66906 | .66354 | .64346 |
| M20x2.5 | 20.0 | 2.50 | 19.958 | 19.623 | 18.334 | 18.164 | 17.252 | .78740 | 10.16 | .78575 | .77256 | .72181 | .71512 | .67921 |
| M20x1.5 | 20.0 | 1.50 | 19.968 | 19.732 | 18.994 | 18.854 | 18.344 | .78740 | 16.93 | .78614 | .77685 | .74780 | .74228 | .72220 |
| M20x1 | 20.0 | 1.00 | 19.974 | 19.794 | 19.324 | 19.206 | 18.891 | .78740 | 25.40 | .78638 | .77929 | .76079 | .75614 | .74374 |
| M22x2.5 | 22.0 | 2.50 | 21.958 | 21.623 | 20.334 | 20.164 | 19.252 | .86614 | 10.16 | .86449 | .85130 | .80055 | .79386 | .75795 |
| M22x1.5 | 22.0 | 1.50 | 21.968 | 21.732 | 20.994 | 20.854 | 20.344 | .86614 | 16.93 | .86488 | .85559 | .82654 | .82102 | .80094 |
| M24x3 | 24.0 | 3.00 | 23.952 | 23.577 | 22.003 | 21.803 | 20.704 | .94488 | 8.47 | .94299 | .92823 | .86626 | .85839 | .81512 |
| M24x2 | 24.0 | 2.00 | 23.962 | 23.682 | 22.663 | 22.493 | 21.797 | .94488 | 12.70 | .94339 | .93236 | .89224 | .88555 | .85815 |
| M25x1.5 | 25.0 | 1.50 | 24.968 | 24.732 | 23.994 | 23.844 | 23.344 | .98425 | 16.93 | .98299 | .97370 | .94465 | .93874 | .91906 |
| M27x3 | 27.0 | 3.00 | 26.952 | 26.577 | 25.003 | 24.803 | 23.744 | 1.06299 | 8.47 | 1.06110 | 1.04634 | .98437 | .97650 | .93480 |
| M27x2 | 27.0 | 2.00 | 26.962 | 26.682 | 25.663 | 25.493 | 24.797 | 1.06299 | 12.70 | 1.06150 | 1.05047 | 1.01035 | 1.00366 | .97626 |
| M30x3.5 | 30.0 | 3.50 | 29.947 | 29.522 | 27.674 | 27.462 | 26.158 | 1.18110 | 7.26 | 1.17902 | 1.16228 | 1.08953 | 1.08118 | 1.02984 |
| M30x2 | 30.0 | 2.00 | 29.962 | 29.682 | 28.663 | 28.493 | 27.797 | 1.18110 | 12.70 | 1.17961 | 1.16858 | 1.12846 | 1.12177 | 1.09437 |
| M30x1.5 | 30.0 | 1.50 | 29.968 | 29.732 | 28.994 | 28.844 | 28.344 | 1.18110 | 16.93 | 1.17984 | 1.17055 | 1.14150 | 1.13559 | 1.11591 |
| M33x2 | 33.0 | 2.00 | 32.962 | 32.682 | 31.663 | 31.493 | 30.797 | 1.29921 | 12.70 | 1.29772 | 1.28669 | 1.24657 | 1.23988 | 1.21248 |
| M35x1.5 | 35.0 | 1.50 | 34.968 | 34.732 | 33.994 | 33.844 | 33.344 | 1.37795 | 16.93 | 1.37669 | 1.36740 | 1.33835 | 1.33244 | 1.31276 |
| M36x4 | 36.0 | 4.00 | 35.940 | 35.465 | 33.342 | 33.118 | 31.610 | 1.41732 | 6.35 | 1.41496 | 1.39626 | 1.31268 | 1.30386 | 1.24449 |
| M36x2 | 36.0 | 2.00 | 35.962 | 35.682 | 34.663 | 34.493 | 33.797 | 1.41732 | 12.70 | 1.41583 | 1.40480 | 1.36469 | 1.35799 | 1.33059 |
| M39x2 | 39.0 | 2.00 | 38.962 | 38.682 | 37.663 | 37.493 | 36.797 | 1.53543 | 12.70 | 1.53394 | 1.52291 | 1.48280 | 1.47610 | 1.44870 |