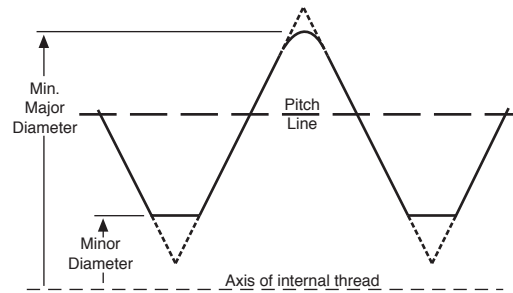


## Class 2B

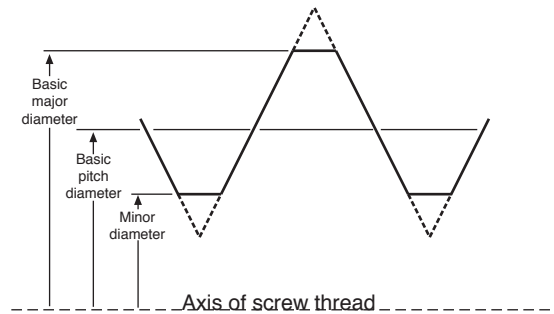
## INTERNAL THREADS



| INTERNAL THREADS - CLASS 2B     |                    |                |        |                |        |           | ASME B1.1--2008 |
|---------------------------------|--------------------|----------------|--------|----------------|--------|-----------|-----------------|
| Nominal Size & Threads per Inch | Series Designation | Minor Diameter |        | Pitch Diameter |        |           | Major Diameter  |
|                                 |                    | Min            | Max    | Min            | Max    | Tolerance | Min             |
| 0-80                            | UNF                | 0.0465         | 0.0514 | 0.0519         | 0.0542 | 0.0023    | 0.0600          |
| 1-64                            | UNC                | 0.0561         | 0.0623 | 0.0629         | 0.0655 | 0.0026    | 0.0730          |
| 1-72                            | UNF                | 0.0580         | 0.0635 | 0.0640         | 0.0665 | 0.0025    | 0.0730          |
| 2-56                            | UNC                | 0.0667         | 0.0737 | 0.0744         | 0.0772 | 0.0028    | 0.0860          |
| 2-64                            | UNF                | 0.0691         | 0.0752 | 0.0759         | 0.0786 | 0.0027    | 0.0860          |
| 3-48                            | UNC                | 0.0764         | 0.0845 | 0.0855         | 0.0885 | 0.0030    | 0.0990          |
| 3-56                            | UNF                | 0.0797         | 0.0865 | 0.0874         | 0.0902 | 0.0028    | 0.0990          |
| 4-40                            | UNC                | 0.0849         | 0.0939 | 0.0958         | 0.0991 | 0.0033    | 0.1120          |
| 4-48                            | UNF                | 0.0894         | 0.0968 | 0.0985         | 0.1016 | 0.0031    | 0.1120          |
| 5-40                            | UNC                | 0.0979         | 0.1062 | 0.1088         | 0.1121 | 0.0033    | 0.1250          |
| 6-32                            | UNC                | 0.104          | 0.114  | 0.1177         | 0.1214 | 0.0037    | 0.1380          |
| 6-40                            | UNF                | 0.1110         | 0.1190 | 0.1218         | 0.1252 | 0.0034    | 0.1380          |
| 8-32                            | UNC                | 0.130          | 0.139  | 0.1437         | 0.1475 | 0.0038    | 0.1640          |
| 8-36                            | UNF                | 0.1340         | 0.1420 | 0.1460         | 0.1496 | 0.0036    | 0.1640          |
| 10-24                           | UNC                | 0.145          | 0.156  | 0.1629         | 0.1672 | 0.0043    | 0.1900          |
| 10-32                           | UNF                | 0.156          | 0.164  | 0.1697         | 0.1736 | 0.0039    | 0.1900          |
| 12-24                           | UNC                | 0.171          | 0.181  | 0.1889         | 0.1933 | 0.0044    | 0.2160          |
| 1/4-20                          | UNC                | 0.196          | 0.207  | 0.2175         | 0.2224 | 0.0049    | 0.2500          |
| 1/4-28                          | UNF                | 0.211          | 0.220  | 0.2268         | 0.2311 | 0.0043    | 0.2500          |
| 5/16-18                         | UNC                | 0.252          | 0.265  | 0.2764         | 0.2817 | 0.0053    | 0.3125          |
| 5/16-24                         | UNF                | 0.267          | 0.277  | 0.2854         | 0.2902 | 0.0048    | 0.3125          |
| 3/8-16                          | UNC                | 0.307          | 0.321  | 0.3344         | 0.3401 | 0.0057    | 0.3750          |
| 3/8-24                          | UNF                | 0.330          | 0.340  | 0.3479         | 0.3528 | 0.0049    | 0.3750          |
| 7/16-14                         | UNC                | 0.360          | 0.376  | 0.3911         | 0.3972 | 0.0061    | 0.4375          |
| 7/16-20                         | UNF                | 0.383          | 0.395  | 0.4050         | 0.4104 | 0.0054    | 0.4375          |
| 1/2-13                          | UNC                | 0.417          | 0.434  | 0.4500         | 0.4565 | 0.0065    | 0.5000          |
| 1/2-20                          | UNF                | 0.446          | 0.457  | 0.4675         | 0.4731 | 0.0056    | 0.5000          |
| 9/16-12                         | UNC                | 0.472          | 0.490  | 0.5084         | 0.5152 | 0.0068    | 0.5625          |
| 9/16-18                         | UNF                | 0.502          | 0.515  | 0.5264         | 0.5323 | 0.0059    | 0.5625          |
| 5/8-11                          | UNC                | 0.527          | 0.546  | 0.5660         | 0.5732 | 0.0072    | 0.6250          |
| 5/8-18                          | UNF                | 0.565          | 0.578  | 0.5889         | 0.5949 | 0.0060    | 0.6250          |
| 3/4-10                          | UNC                | 0.642          | 0.663  | 0.6850         | 0.6927 | 0.0077    | 0.7500          |
| 3/4-16                          | UNF                | 0.682          | 0.696  | 0.7094         | 0.7159 | 0.0065    | 0.7500          |
| 7/8-9                           | UNC                | 0.755          | 0.778  | 0.8028         | 0.8110 | 0.0082    | 0.8750          |
| 7/8-14                          | UNF                | 0.798          | 0.814  | 0.8286         | 0.8356 | 0.0070    | 0.8750          |

## INTERNAL THREADS

Class 2B



## INTERNAL THREADS - CLASS 2B (CONTINUED)

ASME B1.1--  
2008

| Nominal Size<br>& Threads<br>per Inch | Series<br>Designation | Allowance | Minor Diameter |       | Pitch Diameter |        |           | Major Diameter |
|---------------------------------------|-----------------------|-----------|----------------|-------|----------------|--------|-----------|----------------|
|                                       |                       |           | Min            | Max   | Min            | Max    | Tolerance | Min            |
| 1-8                                   | UNC                   | 0.0020    | 0.865          | 0.890 | 0.9188         | 0.9276 | 0.0088    | 1.0000         |
| 1-14                                  | UNS                   | 0.0017    | 0.923          | 0.938 | 0.9536         | 0.9609 | 0.0073    | 1.0000         |
| 1 1/8-7                               | UNC                   | 0.0022    | 0.970          | 0.998 | 1.0322         | 1.0416 | 0.0094    | 1.1250         |
| 1 1/8-12                              | UNF                   | 0.0018    | 1.035          | 1.053 | 1.0709         | 1.0787 | 0.0078    | 1.1250         |
| 1 1/4-7                               | UNC                   | 0.0022    | 1.095          | 1.123 | 1.1572         | 1.1668 | 0.0096    | 1.2500         |
| 1 1/4-12                              | UNF                   | 0.0018    | 1.160          | 1.178 | 1.1959         | 1.2039 | 0.0080    | 1.2500         |
| 1 3/8-6                               | UNC                   | 0.0024    | 1.195          | 1.225 | 1.2667         | 1.2771 | 0.0104    | 1.3750         |
| 1 3/8-12                              | UNF                   | 0.0019    | 1.285          | 1.303 | 1.3209         | 1.3291 | 0.0082    | 1.3750         |
| 1 1/2-6                               | UNC                   | 0.0024    | 1.320          | 1.350 | 1.3917         | 1.4022 | 0.0105    | 1.5000         |
| 1 1/2-12                              | UNF                   | 0.0019    | 1.410          | 1.428 | 1.4459         | 1.4542 | 0.0083    | 1.5000         |
| 1 5/8-6                               | UN                    | 0.0025    | 1.445          | 1.475 | 1.5167         | 1.5274 | 0.0107    | 1.6250         |
| 1 5/8-8                               | UN                    | 0.0022    | 1.490          | 1.515 | 1.5438         | 1.5535 | 0.0097    | 1.6250         |
| 1 3/4-5                               | UNC                   | 0.0027    | 1.534          | 1.568 | 1.6201         | 1.6317 | 0.0116    | 1.7500         |
| 1 3/4-12                              | UN                    | 0.0018    | 1.660          | 1.678 | 1.6959         | 1.7037 | 0.0078    | 1.7500         |
| 2-4.5                                 | UNC                   | 0.0029    | 1.759          | 1.795 | 1.8557         | 1.8681 | 0.0124    | 2.0000         |
| 2-12                                  | UN                    | 0.0018    | 1.910          | 1.928 | 1.9459         | 1.9538 | 0.0079    | 2.0000         |
| 2 1/4-4.5                             | UNC                   | 0.0029    | 2.009          | 2.045 | 2.1057         | 2.1183 | 0.0126    | 2.2500         |
| 2 1/4-12                              | UN                    | 0.0018    | 2.160          | 2.178 | 2.1959         | 2.2038 | 0.0079    | 2.2500         |
| 2 1/2-4                               | UNC                   | 0.0031    | 2.229          | 2.267 | 2.3376         | 2.3511 | 0.0135    | 2.5000         |
| 2 1/2-12                              | UN                    | 0.0019    | 2.410          | 2.428 | 2.4459         | 2.4540 | 0.0081    | 2.5000         |
| 2 3/4-4                               | UNC                   | 0.0032    | 2.479          | 2.517 | 2.5876         | 2.6013 | 0.0137    | 2.7500         |
| 2 3/4-12                              | UN                    | 0.0019    | 2.660          | 2.678 | 2.6959         | 2.7040 | 0.0081    | 2.7500         |
| 3-4                                   | UNC                   | 0.0032    | 2.729          | 2.767 | 2.8376         | 2.8515 | 0.0139    | 3.0000         |
| 3-12                                  | UN                    | 0.0019    | 2.910          | 2.928 | 2.9459         | 2.9541 | 0.0082    | 3.0000         |
| 3 1/4-4                               | UNC                   | 0.0033    | 2.979          | 3.017 | 3.0876         | 3.1017 | 0.0141    | 3.2500         |
| 3 1/2-4                               | UNC                   | 0.0033    | 3.229          | 3.267 | 3.3376         | 3.3519 | 0.0143    | 3.5000         |
| 3 3/4-4                               | UNC                   | 0.0034    | 3.479          | 3.517 | 3.5876         | 3.6021 | 0.0145    | 3.7500         |
| 4-4                                   | UNC                   | 0.0034    | 3.729          | 3.767 | 3.8376         | 3.8523 | 0.0147    | 4.0000         |