

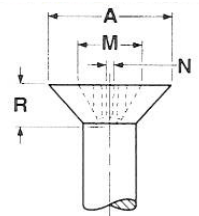
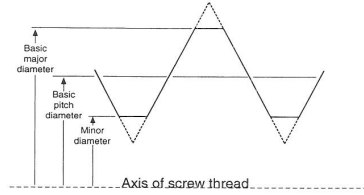
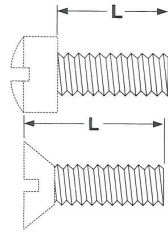
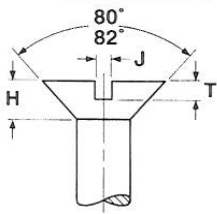


Atlanta, Georgia

Phone 800-521-7326

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### Flat Head Machine Screw 80°



| Peco<br>Catalog#                             | Size and<br>Threads Per<br>Inch | Series<br>Designation | Allowance | Major Diameter |       | Pitch Diameter |       |           | Tensile<br>Strength,<br>lb. Min.** | Stress<br>Area<br>Inches² | A            |      | H    |      | J               |      | T    |      | M             |      | R                   | N     | F                                   |      | G                  | Phillips<br>Bit Size |
|----------------------------------------------|---------------------------------|-----------------------|-----------|----------------|-------|----------------|-------|-----------|------------------------------------|---------------------------|--------------|------|------|------|-----------------|------|------|------|---------------|------|---------------------|-------|-------------------------------------|------|--------------------|----------------------|
|                                              |                                 |                       |           | Min            | Max   | Min            | Max   | Tolerance |                                    |                           | Min          | Max  | Min  | Max  | Min             | Max  | Min  | Max  | Min           | Max  | Dimension of Recess |       | Protrusion Above<br>Gaging Diameter |      | Gaging<br>Diameter |                      |
|                                              |                                 |                       |           |                |       |                |       |           |                                    |                           |              |      |      |      |                 |      |      |      |               |      | Diamet              | Depth | Width                               | Min  |                    |                      |
| See<br>Section<br>Three<br>of Our<br>Catalog | 4-40                            | 0.112                 | UNC       | .0008          | .1061 | .1112          | .0925 | .0950     | .0025                              | 360                       | 0.00604      | .191 | .212 | .055 | .067            | .031 | .039 | .020 | .030          | .105 | .072                | .019  | .019                                | .032 | .172               | 1                    |
|                                              | 5-40                            | 0.125                 | UNC       | .0008          | .1191 | .1242          | .1054 | .1080     | .0026                              | 470                       | 0.00796      | .215 | .237 | .062 | .075            | .035 | .043 | .022 | .034          | .141 | .074                | .027  | .020                                | .034 | .196               | 2                    |
|                                              | 6-32                            | 0.138                 | UNC       | .0008          | .1312 | .1372          | .1141 | .1169     | .0028                              | 550                       | 0.00909      | .238 | .262 | .069 | .083            | .039 | .048 | .024 | .038          | .149 | .084                | .027  | .021                                | .036 | .220               | 2                    |
|                                              | 8-32                            | 0.164                 | UNC       | .0009          | .1571 | .1631          | .1399 | .1428     | .0029                              | 850                       | 0.0140       | .285 | .312 | .084 | .100            | .045 | .054 | .029 | .045          | .165 | .101                | .030  | .023                                | .039 | .267               | 2                    |
|                                              | 10-24                           | 0.190                 | UNC       | .0010          | .1818 | .1890          | .1586 | .1619     | .0033                              | 1050                      | 0.0175       | .333 | .362 | .098 | .116            | .050 | .060 | .034 | .053          | .182 | .119                | .031  | .025                                | .042 | .313               | 2                    |
|                                              | 10-32                           | 0.190                 | UNF       | .0009          | .1831 | .1891          | .1658 | .1688     | .0030                              | 1200                      | 0.0200       | .333 | .362 | .098 | .116            | .050 | .060 | .034 | .053          | .182 | .119                | .031  | .025                                | .042 | .313               | 2                    |
|                                              | 12-24                           | 0.216                 | UNC       | .0010          | .2078 | .2150          | .1845 | .1879     | .0034                              | 1450                      | 0.0242       | .380 | .412 | .112 | .132            | .056 | .067 | .039 | .060          | .236 | .125                | .032  | .027                                | .045 | .362               | 3                    |
|                                              | 1/4-20                          | 0.250                 | UNC       | .0011          | .2408 | .2489          | .2127 | .2164     | .0037                              | 1900                      | 0.0318       | .442 | .477 | .131 | .153            | .064 | .075 | .046 | .070          | .255 | .147                | .034  | .029                                | .050 | .424               | 3                    |
|                                              | 1/4-28                          | 0.250                 | UNF       | .0010          | .2425 | .2490          | .2225 | .2258     | .0033                              | 2200                      | 0.0364       | .442 | .477 | .131 | .153            | .064 | .075 | .046 | .070          | .255 | .147                | .034  | .029                                | .050 | .424               | 3                    |
|                                              | 5/16-18                         | 0.312                 | UNC       | .0012          | .3026 | .3113          | .2712 | .2752     | .0040                              | 3150                      | 0.0524       | .556 | .597 | .165 | .191            | .072 | .084 | .058 | .088          | .295 | .187                | .040  | .034                                | .057 | .539               | 4                    |
|                                              | 3/8-16                          | 0.375                 | UNC       | .0013          | .3643 | .3737          | .3287 | .3331     | .0044                              | 4650                      | 0.0775       | .670 | .717 | .200 | .230            | .081 | .094 | .070 | .106          | .374 | .228                | .064  | .039                                | .065 | .653               | 4                    |
|                                              | 1/2-13                          | 0.500                 | UNC       | .0015          | .4876 | .4985          | .4435 | .4485     | .0050                              | 8500                      | 0.1419       | .765 | .815 | .186 | .223            | .091 | .106 | .065 | .103          | .403 | .256                | .068  | .049                                | .081 | .739               | 4                    |
| Tolerance on Length L                        |                                 |                       |           |                |       |                |       |           |                                    |                           | Screw Length |      |      |      |                 |      |      |      |               |      |                     |       |                                     |      |                    |                      |
|                                              |                                 |                       |           |                |       |                |       |           |                                    |                           | Up To 1/2"   |      |      |      | Over 1/2" to 1" |      |      |      | Over 1" to 2" |      |                     |       | Over 2"                             |      |                    |                      |
|                                              |                                 |                       |           |                |       |                |       |           |                                    |                           | 4 - 12       |      |      |      | -0.03           |      |      |      | -0.06         |      |                     |       | -0.09                               |      |                    |                      |
|                                              |                                 |                       |           |                |       |                |       |           |                                    |                           | 1/4 - 3/4    |      |      |      | -0.03           |      |      |      | -0.06         |      |                     |       | -0.09                               |      |                    |                      |

\*\*Tensile strength is based off of 60,000 psi. and only apply to carbon steel screws. Hex and Hex Washer Head machine screws of adequate length may be wedge tensile tested. Other head styles can be axial tensile tested.

#### ANSI B18.6.3

|                  |                                                                                                                                                    |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Material         | AISI 1006 - 1022 or equivalent Steel or Stainless SAE 18-8 Stainless Steel Passivated                                                              |
| Hardness         | Steel: Rockwell B70 - B100 - Stainless: Rockwell B85 - B95                                                                                         |
| Tensile Strength | Size 4 and 5 diameter and lengths shorter than 1/2" are not subject to tensile testing. Steel: 60,000 psi. minimum - Stainless: 80,000 psi minimum |

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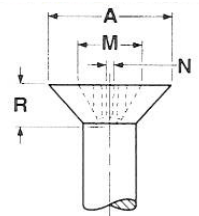
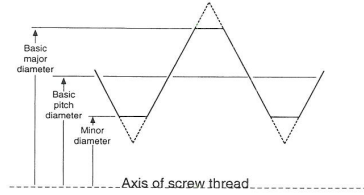
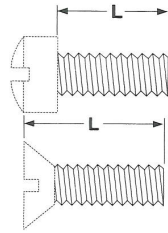
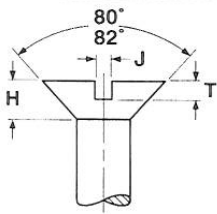


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|----------------------------------------------|---------------------------------|-----------------------|-----------|----------------|-------|----------------|-------|-----------|------------------------------------|---------------------------|--------------|------|------|------|-----------------|------|------|------|---------------|------|---------------------|-------|-------------------------------------|------|--------------------|----------------------|-----|--|--|
|                                              |                                 |                       |           | Min            | Max   | Min            | Max   | Tolerance |                                    |                           | Min          | Max  | Min  | Max  | Min             | Max  | Min  | Max  | Min           | Max  | Dimension of Recess |       | Protrusion Above<br>Gaging Diameter |      | Gaging<br>Diameter |                      |     |  |  |
|                                              |                                 |                       |           |                |       |                |       |           |                                    |                           |              |      |      |      |                 |      |      |      |               |      | Diamet              | Depth | Width                               | Min  |                    |                      | Max |  |  |
| See<br>Section<br>Three<br>of Our<br>Catalog | 4-40                            | 0.112                 | UNC       | .0008          | .1061 | .1112          | .0925 | .0950     | .0025                              | 360                       | 0.00604      | .191 | .212 | .055 | .067            | .031 | .039 | .020 | .030          | .105 | .072                | .019  | .019                                | .032 | .172               | 1                    |     |  |  |
|                                              | 5-40                            | 0.125                 | UNC       | .0008          | .1191 | .1242          | .1054 | .1080     | .0026                              | 470                       | 0.00796      | .215 | .237 | .062 | .075            | .035 | .043 | .022 | .034          | .141 | .074                | .027  | .020                                | .034 | .196               | 2                    |     |  |  |
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|                                              | 8-32                            | 0.164                 | UNC       | .0009          | .1571 | .1631          | .1399 | .1428     | .0029                              | 850                       | 0.0140       | .285 | .312 | .084 | .100            | .045 | .054 | .029 | .045          | .165 | .101                | .030  | .023                                | .039 | .267               | 2                    |     |  |  |
|                                              | 10-24                           | 0.190                 | UNC       | .0010          | .1818 | .1890          | .1586 | .1619     | .0033                              | 1050                      | 0.0175       | .333 | .362 | .098 | .116            | .050 | .060 | .034 | .053          | .182 | .119                | .031  | .025                                | .042 | .313               | 2                    |     |  |  |
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|                                              | 12-24                           | 0.216                 | UNC       | .0010          | .2078 | .2150          | .1845 | .1879     | .0034                              | 1450                      | 0.0242       | .380 | .412 | .112 | .132            | .056 | .067 | .039 | .060          | .236 | .125                | .032  | .027                                | .045 | .362               | 3                    |     |  |  |
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| Tolerance on Length L                        |                                 |                       |           |                |       |                |       |           |                                    |                           | Screw Length |      |      |      |                 |      |      |      |               |      |                     |       |                                     |      |                    |                      |     |  |  |
|                                              |                                 |                       |           |                |       |                |       |           |                                    |                           | Up To 1/2"   |      |      |      | Over 1/2" to 1" |      |      |      | Over 1" to 2" |      |                     |       | Over 2"                             |      |                    |                      |     |  |  |
|                                              |                                 |                       |           |                |       |                |       |           |                                    |                           | -0.02        |      |      |      | -0.03           |      |      |      | -0.06         |      |                     |       | -0.09                               |      |                    |                      |     |  |  |
|                                              |                                 |                       |           |                |       |                |       |           |                                    |                           | -0.03        |      |      |      | -0.03           |      |      |      | -0.06         |      |                     |       | -0.09                               |      |                    |                      |     |  |  |

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