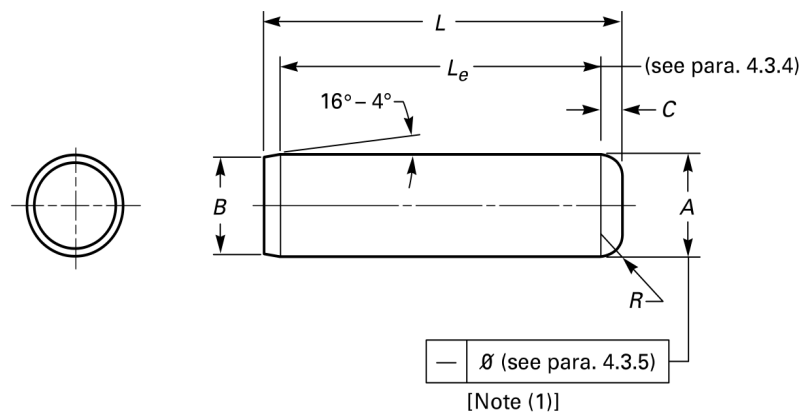


ASME B18.8.2-2020

Table 4.1.1-1 Dimensions of Hardened Ground Machine Dowel Pins



| Nominal Size or<br>Nominal Pin Diameter<br>[Note (2)] |        | Pin Diameter         |        |        |                      |        |        | Point<br>Diameter, <i>B</i> |       | Maximum<br>Crown<br>Height,<br><i>C</i> | Minimum<br>Crown<br>Radius,<br><i>R</i> |
|-------------------------------------------------------|--------|----------------------|--------|--------|----------------------|--------|--------|-----------------------------|-------|-----------------------------------------|-----------------------------------------|
|                                                       |        | Standard Series Pins |        |        | Oversize Series Pins |        |        |                             |       |                                         |                                         |
|                                                       |        | Basic                | Max.   | Min.   | Basic                | Max.   | Min.   | Max.                        | Min.  |                                         |                                         |
| $\frac{1}{16}$                                        | 0.0625 | 0.0627               | 0.0628 | 0.0626 | 0.0635               | 0.0636 | 0.0634 | 0.058                       | 0.048 | 0.020                                   | 0.008                                   |
| $\frac{5}{64}$ [Note (3)]                             | 0.0781 | 0.0783               | 0.0784 | 0.0782 | 0.0791               | 0.0792 | 0.0790 | 0.074                       | 0.064 | 0.026                                   | 0.010                                   |
| $\frac{3}{32}$                                        | 0.093  | 0.0940               | 0.0941 | 0.0939 | 0.0948               | 0.0949 | 0.0947 | 0.089                       | 0.079 | 0.031                                   | 0.012                                   |
| $\frac{1}{8}$                                         | 0.1250 | 0.1252               | 0.1253 | 0.1251 | 0.1260               | 0.1261 | 0.1259 | 0.120                       | 0.110 | 0.041                                   | 0.016                                   |
| $\frac{5}{32}$ [Note (3)]                             | 0.1562 | 0.1564               | 0.1565 | 0.1563 | 0.1572               | 0.1573 | 0.1571 | 0.150                       | 0.140 | 0.052                                   | 0.020                                   |
| $\frac{3}{16}$                                        | 0.1875 | 0.1877               | 0.1878 | 0.1876 | 0.1885               | 0.1886 | 0.1884 | 0.180                       | 0.170 | 0.062                                   | 0.023                                   |
| $\frac{1}{4}$                                         | 0.2500 | 0.2502               | 0.2503 | 0.2501 | 0.2510               | 0.2511 | 0.2509 | 0.240                       | 0.230 | 0.083                                   | 0.031                                   |
| $\frac{5}{16}$                                        | 0.3125 | 0.3127               | 0.3128 | 0.3126 | 0.3135               | 0.3136 | 0.3134 | 0.302                       | 0.290 | 0.104                                   | 0.039                                   |
| $\frac{3}{8}$                                         | 0.3750 | 0.3752               | 0.3753 | 0.3751 | 0.3760               | 0.3761 | 0.3759 | 0.365                       | 0.350 | 0.125                                   | 0.047                                   |
| $\frac{7}{16}$                                        | 0.4375 | 0.4377               | 0.4378 | 0.4376 | 0.4385               | 0.4386 | 0.4384 | 0.424                       | 0.409 | 0.146                                   | 0.055                                   |
| $\frac{1}{2}$                                         | 0.5000 | 0.5002               | 0.5003 | 0.5001 | 0.5010               | 0.5011 | 0.5009 | 0.486                       | 0.471 | 0.167                                   | 0.063                                   |
| $\frac{5}{8}$                                         | 0.6250 | 0.6252               | 0.6253 | 0.6251 | 0.6260               | 0.6261 | 0.6259 | 0.611                       | 0.595 | 0.208                                   | 0.078                                   |
| $\frac{3}{4}$                                         | 0.7500 | 0.7502               | 0.7503 | 0.7501 | 0.7510               | 0.7511 | 0.7509 | 0.735                       | 0.715 | 0.250                                   | 0.094                                   |
| $\frac{7}{8}$                                         | 0.8750 | 0.8752               | 0.8753 | 0.8751 | 0.8760               | 0.8761 | 0.8759 | 0.860                       | 0.840 | 0.293                                   | 0.109                                   |
| 1                                                     | 1.0000 | 1.0002               | 1.0003 | 1.0001 | 1.0010               | 1.0011 | 1.0009 | 0.980                       | 0.960 | 0.333                                   | 0.125                                   |

GENERAL NOTES:

- (a) For additional requirements, refer to [section 4](#).  
(b) Reference ASME Y14.5.

NOTES:

- (1) — = straightness;  $\varnothing$  = diameter  
(2) Where specifying nominal size as basic diameter, zeros preceding decimal and in the fourth decimal place shall be omitted.  
(3) Nonpreferred sizes, not recommended for use in new designs.

