



# メートルねじ (JIS B1176)

単位: mm

| ねじの呼び(d)  | M3             | M4           | M5               | M6   | M8               | M10  | M12              | (M14) | M16              | (M18) | M20              | (M22) | M24              | (M27) | M30              | (M33) | M36              | (M39) | M42              | (M45) | M48              | (M52) |      |
|-----------|----------------|--------------|------------------|------|------------------|------|------------------|-------|------------------|-------|------------------|-------|------------------|-------|------------------|-------|------------------|-------|------------------|-------|------------------|-------|------|
| ねじのピッチ(P) | 0.5            | 0.7          | 0.8              | 1    | 25               | 1.5  | 1.75             | 2     | 2                | 2.5   | 2.5              | 2.5   | 3                | 3     | 3.5              | 3.5   | 4                | 4     | 4.5              | 4.5   | 5                | 5     |      |
| b 参考      | 18             | 20           | 22               | 24   | 28               | 32   | 36               | 40    | 44               | 48    | 52               | 56    | 60               | 66    | 72               | 78    | 84               | 90    | 96               | 102   | 108              | 116   |      |
| dk 標準寸法   | 5.5            | 7            | 8.5              | 10   | 13               | 16   | 18               | 21    | 24               | 27    | 30               | 33    | 36               | 40    | 45               | 50    | 54               | 58    | 63               | 68    | 72               | 78    |      |
| dk 許容差    | ±0.18          |              | ±0.22            |      | ±0.27            |      | ±0.33            |       | ±0.39            |       | ±0.46            |       | ±0.52            |       | ±0.62            |       | ±0.74            |       | ±0.86            |       | ±1.0             |       |      |
| da 最大     | 3.6            | 4.7          | 5.7              | 6.8  | 9.2              | 11.2 | 13.7             | 15.7  | 17.7             | 20.2  | 22.4             | 24.4  | 26.4             | 30.4  | 33.4             | 36.4  | 39.4             | 42.4  | 45.6             | 48.6  | 52.6             | 56.6  |      |
| da 標準寸法   | 3              | 4            | 5                | 6    | 8                | 10   | 12               | 14    | 16               | 18    | 20               | 22    | 24               | 27    | 30               | 33    | 36               | 39    | 42               | 45    | 48               | 52    |      |
| da 許容差    | -0.14          |              | -0.18            |      | -0.22            |      | -0.27            |       | -0.33            |       | -0.39            |       | -0.46            |       | -0.52            |       | -0.62            |       | -0.74            |       | -0.86            |       |      |
| e 最小      | 2.87           | 3.44         | 4.58             | 5.72 | 6.86             | 9.15 | 11.43            | 13.72 | 16.00            | 16.00 | 19.44            | 19.44 | 21.73            | 21.73 | 25.15            | 27.43 | 30.85            | 30.85 | 36.57            | 36.57 | 41.13            | 41.13 |      |
| e 標準寸法    | 3              | 4            | 5                | 6    | 8                | 10   | 12               | 14    | 16               | 18    | 20               | 22    | 24               | 27    | 30               | 33    | 36               | 39    | 42               | 45    | 48               | 52    |      |
| e 許容差     | -0.4           |              | -0.18            |      | -0.30            |      | -0.36            |       | -0.43            |       | -0.52            |       | -0.62            |       | -0.74            |       | -0.86            |       | -1.0             |       | -1.16            |       |      |
| k 最小      | 0.1            | 0.2          | 0.2              | 0.25 | 0.4              | 0.4  | 0.6              | 0.6   | 0.6              | 0.6   | 0.8              | 0.8   | 0.8              | 1     | 1                | 1     | 1                | 1     | 1.2              | 1.2   | 1.6              | 1.6   |      |
| k 標準寸法    | 25             | 3            | 4                | 5    | 6                | 8    | 10               | 12    | 14               | 14    | 17               | 17    | 19               | 19    | 22               | 24    | 27               | 27    | 32               | 32    | 36               | 36    |      |
| k 許容差     | +0.08<br>+0.02 |              | +0.095<br>+0.020 |      | +0.140<br>+0.020 |      | +0.175<br>+0.025 |       | +0.212<br>+0.032 |       | +0.230<br>+0.050 |       | +0.230<br>+0.050 |       | +0.275<br>+0.065 |       | +0.275<br>+0.065 |       | +0.330<br>+0.080 |       | +0.330<br>+0.080 |       |      |
| t 最小      | 1.3            | 2            | 2.5              | 3    | 4                | 5    | 6                | 7     | 8                | 9     | 10               | 11    | 12               | 13.5  | 15.5             | 16.5  | 19               | 20    | 21               | 23    | 24               | 26    |      |
| w 最小      | 1.15           | 1.4          | 1.9              | 2.3  | 3.3              | 4    | 4.8              | 5.8   | 6.8              | 7.7   | 8.6              | 9.5   | 10.4             | 12.1  | 13.1             | 15.0  | 15.3             | 17.2  | 19.2             | 20.0  | 21.8             | 23.5  |      |
| 機能公差      | 頭部の真直度 最大      | 0.36         | 0.44             | 0.44 | 0.44             | 0.54 | 0.54             | 0.54  | 0.66             | 0.66  | 0.66             | 0.66  | 0.78             | 0.78  | 0.78             | 0.78  | 0.78             | 0.92  | 0.92             | 0.92  | 0.92             | 0.92  | 0.92 |
|           | 六角部の真直度 最大     | 0.28         | 0.36             | 0.36 | 0.36             | 0.44 | 0.44             | 0.54  | 0.54             | 0.54  | 0.54             | 0.54  | 0.66             | 0.66  | 0.66             | 0.66  | 0.78             | 0.78  | 0.78             | 0.78  | 0.78             | 0.78  | 0.92 |
|           | 六角部の全周の真直度 最大  | 0.08         | 0.08             | 0.15 | 0.15             | 0.17 | 0.21             | 0.25  | 0.29             | 0.34  | 0.38             | 0.42  | 0.46             | 0.50  | 0.57             | 0.63  | 0.69             | 0.76  | 0.82             | 0.44  | 0.47             | 0.50  | 0.55 |
|           | 軸部の真直度 最大      | 0.002×ℓ+0.05 |                  |      |                  |      | 0.0025×ℓ+0.05    |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |      |
| 呼び長さ 許容差  | ±0.24          |              |                  |      |                  |      |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |      |
| 5         | ±0.24          |              |                  |      |                  |      |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |      |
| 6         | ±0.24          |              |                  |      |                  |      |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |      |
| 8         | ±0.24          |              |                  |      |                  |      |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |      |
| 10        | ±0.29          |              |                  |      |                  |      |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |      |
| 12        | ±0.35          |              |                  |      |                  |      |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |      |
| 16        | ±0.35          |              |                  |      |                  |      |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |      |
| 20        | ±0.42          |              |                  |      |                  |      |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |      |
| 25        | ±0.42          |              |                  |      |                  |      |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |      |
| 30        | ±0.50          |              |                  |      |                  |      |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |      |
| 35        | ±0.50          |              |                  |      |                  |      |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |      |
| 40        | ±0.50          |              |                  |      |                  |      |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |      |
| 45        | ±0.50          |              |                  |      |                  |      |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |      |
| 50        | ±0.50          |              |                  |      |                  |      |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |      |
| 55        | ±0.50          |              |                  |      |                  |      |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |      |
| 60        | ±0.60          |              |                  |      |                  |      |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |      |
| 65        | ±0.60          |              |                  |      |                  |      |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |      |
| 70        | ±0.60          |              |                  |      |                  |      |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |      |
| 75        | ±0.60          |              |                  |      |                  |      |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |      |
| 80        | ±0.60          |              |                  |      |                  |      |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |      |
| 85        | ±0.60          |              |                  |      |                  |      |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |      |
| 90        | ±0.60          |              |                  |      |                  |      |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |      |
| 95        | ±0.70          |              |                  |      |                  |      |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |      |
| 100       | ±0.70          |              |                  |      |                  |      |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |      |
| 110       | ±0.70          |              |                  |      |                  |      |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |      |
| 120       | ±0.70          |              |                  |      |                  |      |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |      |
| 130       | ±0.80          |              |                  |      |                  |      |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |      |
| 140       | ±0.80          |              |                  |      |                  |      |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |      |
| 150       | ±0.80          |              |                  |      |                  |      |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |      |
| 160       | ±0.80          |              |                  |      |                  |      |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |      |
| 170       | ±0.80          |              |                  |      |                  |      |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |      |
| 180       | ±0.80          |              |                  |      |                  |      |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |      |
| 190       | ±0.80          |              |                  |      |                  |      |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |      |
| 200       | ±0.80          |              |                  |      |                  |      |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |      |
| 210       | ±0.90          |              |                  |      |                  |      |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |      |
| 220       | ±0.90          |              |                  |      |                  |      |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |      |
| 230       | ±0.90          |              |                  |      |                  |      |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |      |
| 240       | ±0.90          |              |                  |      |                  |      |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |      |
| 250       | ±0.90          |              |                  |      |                  |      |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |      |
| 260       | ±1.00          |              |                  |      |                  |      |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |                  |       |      |

※ 有効ねじ部長さ b(参考)は次式による  $b=2d+12$   
 ※ 線内は標準品として在庫しております。他は別註にて製作いたします。

ℓ=300まで