

ГОСТ 24706—81

МЕЖГОСУДАРСТВЕННЫЙ СТАНДАРТ

ОСНОВНЫЕ НОРМЫ ВЗАИМОЗАМЕЯЕМОСТИ

**РЕЗЬБА МЕТРИЧЕСКАЯ
ДЛЯ ПРИБОРОСТРОЕНИЯ**

ОСНОВНЫЕ РАЗМЕРЫ

Издание официальное

ИПК ИЗДАТЕЛЬСТВО СТАНДАРТОВ
Москва

Основные нормы взаимозаменяемости

ГОСТ
24706—81

РЕЗЬБА МЕТРИЧЕСКАЯ ДЛЯ ПРИБОРОСТРОЕНИЯ

Основные размеры

Взамен
ГОСТ 16967—71
(в части основных размеров)Basic norms of interchangeability. Metric thread for
instrument — making industry. Basic dimensions

МКС 21.040.10

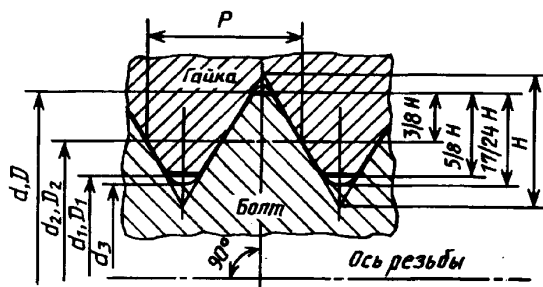
Постановлением Государственного комитета СССР по стандартам от 23 апреля 1981 г. № 2085 дата введения установлена

01.01.82

1. Настоящий стандарт распространяется на метрические резьбы для приборостроения с профилем по ГОСТ 9150—81, диаметрами и шагами по ГОСТ 16967—81.

Стандарт полностью соответствует СТ СЭВ 184—75.

2. Номинальные значения наружного, среднего и внутреннего диаметров резьбы должны соответствовать указанным на чертеже и в таблице.



d — наружный диаметр наружной резьбы (болта); D — наружный диаметр внутренней резьбы (гайки); d_2 — средний диаметр болта; D_2 — средний диаметр гайки; d_1 — внутренний диаметр болта; D_1 — внутренний диаметр гайки; d_3 — внутренний диаметр болта по дну впадины; P — шаг резьбы; H — высота исходного треугольника

Значения диаметров вычислены по следующим формулам:

$$D_2 = D - 2 \cdot \frac{3}{8} H = D - 0,649519053 P;$$

$$d_2 = d - 2 \cdot \frac{3}{8} H = d - 0,649519053 P;$$

$$D_1 = D - 2 \cdot \frac{5}{8} H = D - 1,082531755 P;$$

$$d_1 = d - 2 \cdot \frac{5}{8} H = d - 1,082531755 P;$$

$$d_3 = d - 2 \cdot \frac{17}{24} H = d - 1,226869322 P.$$

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| Номиналь- ный диаметр резьбы d | Шаг P | Диаметры резьбы | | | | Номиналь- ный диаметр резьбы d | Шаг P | Диаметры резьбы | | | |
|---|---------|-----------------|-------------|-------------|--------|---|---------|-----------------|-------------|-------------|--------|
| | | $d = D$ | $d_2 = D_2$ | $d_1 = D_1$ | d_3 | | | $d = D$ | $d_2 = D_2$ | $d_1 = D_1$ | d_3 |
| 3,5 | 0,5 | 3,500 | 3,175 | 2,959 | 2,887 | 13,5 | 1,5 | 13,500 | 12,526 | 11,876 | 11,660 |
| 4 | 0,35 | 4,000 | 3,773 | 3,621 | 3,571 | | 1 | 13,500 | 12,850 | 12,417 | 12,273 |
| | 0,25 | 4,000 | 3,838 | 3,729 | 3,693 | | 0,75 | 13,500 | 13,013 | 12,688 | 12,580 |
| 4,5 | 0,35 | 4,500 | 4,273 | 4,121 | 4,071 | 14,5 | 0,5 | 13,500 | 13,175 | 12,959 | 12,887 |
| | 0,25 | 4,500 | 4,338 | 4,229 | 4,193 | | 1,5 | 14,500 | 13,526 | 12,876 | 12,660 |
| 5 | 0,35 | 5,000 | 4,773 | 4,621 | 4,571 | | 1 | 14,500 | 13,850 | 13,417 | 13,273 |
| | 0,25 | 5,000 | 4,838 | 4,729 | 4,693 | 0,75 | 14,500 | 14,013 | 13,688 | 13,580 | |
| 5,5 | 0,35 | 5,500 | 5,273 | 5,121 | 5,071 | 15 | 0,5 | 14,500 | 14,175 | 13,959 | 13,887 |
| | 0,25 | 5,500 | 5,338 | 5,229 | 5,193 | | 0,75 | 15,000 | 14,513 | 14,188 | 14,080 |
| 6 | 0,35 | 6,000 | 5,773 | 5,621 | 5,571 | | 0,5 | 15,000 | 14,675 | 14,459 | 14,387 |
| | 0,25 | 6,000 | 5,838 | 5,729 | 5,693 | 15,5 | 0,5 | 15,500 | 15,175 | 14,959 | 14,887 |
| 6,5 | 0,75 | 6,500 | 6,013 | 5,688 | 5,580 | 16,5 | 0,5 | 16,500 | 16,175 | 15,959 | 15,887 |
| | 0,5 | 6,500 | 6,175 | 5,959 | 5,887 | 17 | 0,75 | 17,000 | 16,513 | 16,188 | 16,080 |
| | 0,35 | 6,500 | 6,273 | 6,121 | 6,071 | | 0,5 | 17,000 | 16,675 | 16,459 | 16,387 |
| | 0,25 | 6,500 | 6,338 | 6,229 | 6,193 | 17,5 | 0,75 | 17,500 | 17,013 | 16,688 | 16,580 |
| 7 | 0,35 | 7,000 | 6,773 | 6,621 | 6,571 | | 0,5 | 17,500 | 17,175 | 16,959 | 16,887 |
| | 0,25 | 7,000 | 6,838 | 6,729 | 6,693 | 18,5 | 0,5 | 18,500 | 18,175 | 17,959 | 17,887 |
| 7,5 | 0,75 | 7,500 | 7,013 | 6,688 | 6,580 | 19 | 1,5 | 19,000 | 18,026 | 17,376 | 17,160 |
| | 0,5 | 7,500 | 7,175 | 6,959 | 6,887 | | 1 | 19,000 | 18,350 | 17,917 | 17,773 |
| | 0,35 | 7,500 | 7,273 | 7,121 | 7,071 | | 0,75 | 19,000 | 18,513 | 18,188 | 18,080 |
| | 0,25 | 7,500 | 7,338 | 7,229 | 7,193 | | 0,5 | 19,000 | 18,675 | 18,459 | 18,387 |
| 8 | 0,35 | 8,000 | 7,773 | 7,621 | 7,571 | 19,5 | 0,5 | 19,500 | 19,175 | 18,959 | 18,887 |
| | 0,25 | 8,000 | 7,838 | 7,729 | 7,693 | 20,5 | 1 | 20,500 | 19,850 | 19,417 | 19,273 |
| 8,5 | 1 | 8,500 | 7,850 | 7,417 | 7,273 | | 0,5 | 20,500 | 20,175 | 19,959 | 19,887 |
| | 0,75 | 8,500 | 8,013 | 7,688 | 7,580 | 21 | 1,5 | 21,000 | 20,026 | 19,376 | 19,160 |
| | 0,5 | 8,500 | 8,175 | 7,959 | 7,887 | | 1 | 21,000 | 20,350 | 19,917 | 19,773 |
| 9 | 0,35 | 9,000 | 8,773 | 8,621 | 8,571 | 21,5 | 0,75 | 21,000 | 20,513 | 20,188 | 20,080 |
| | 9,5 | 1 | 9,500 | 8,850 | 8,417 | | 8,273 | 0,5 | 21,000 | 20,675 | 20,459 |
| 0,75 | | 9,500 | 9,013 | 8,688 | 8,580 | 21,5 | 0,5 | 21,500 | 21,175 | 20,959 | 20,887 |
| 0,5 | | 9,500 | 9,175 | 8,959 | 8,887 | 22,5 | 0,5 | 22,500 | 22,175 | 21,959 | 21,887 |
| 10 | 0,35 | 9,500 | 9,273 | 9,121 | 9,071 | | 1,5 | 23,000 | 22,026 | 21,376 | 21,160 |
| | 10,5 | 0,35 | 10,000 | 9,773 | 9,621 | 9,571 | 23 | 1 | 23,000 | 22,350 | 21,917 |
| 1 | | 10,500 | 9,850 | 9,417 | 9,273 | 0,75 | | 23,000 | 22,513 | 22,188 | 22,080 |
| 0,75 | | 10,500 | 10,013 | 9,688 | 9,580 | 0,5 | 23,000 | 22,675 | 22,459 | 22,387 | |
| 11 | 0,5 | 10,500 | 10,175 | 9,959 | 9,887 | 23,5 | 0,5 | 23,500 | 23,175 | 22,959 | 22,887 |
| | 0,35 | 11,000 | 10,773 | 10,621 | 10,571 | 24 | 0,5 | 24,000 | 23,675 | 23,459 | 23,387 |
| | 11,5 | 1 | 11,500 | 10,850 | 10,417 | 10,273 | 24,5 | 0,5 | 24,500 | 24,175 | 23,959 |
| 0,75 | | 11,500 | 11,013 | 10,688 | 10,580 | 25 | 0,75 | 25,000 | 24,513 | 24,188 | 24,080 |
| 0,5 | | 11,500 | 11,175 | 10,959 | 10,887 | | 0,5 | 25,000 | 24,675 | 24,459 | 24,387 |
| 12 | 0,35 | 12,000 | 11,773 | 11,621 | 11,571 | 25,5 | 0,5 | 25,500 | 25,175 | 24,959 | 24,887 |
| | 1,5 | 12,500 | 11,526 | 10,876 | 10,660 | 26 | 1 | 26,000 | 25,350 | 24,917 | 24,773 |
| | 1 | 12,500 | 11,850 | 11,417 | 11,273 | | 0,75 | 26,000 | 25,513 | 25,188 | 25,080 |
| | 0,75 | 12,500 | 12,013 | 11,688 | 11,580 | | 0,5 | 26,000 | 25,675 | 25,459 | 25,387 |
| 0,5 | 12,500 | 12,175 | 11,959 | 11,887 | 26,5 | | 0,5 | 26,500 | 26,175 | 25,959 | 25,887 |
| 13 | 1,5 | 13,000 | 12,026 | 11,376 | 11,160 | 27 | 0,5 | 27,000 | 26,675 | 26,459 | 26,387 |
| | 1 | 13,000 | 12,350 | 11,917 | 11,773 | 27,5 | 0,5 | 27,500 | 27,175 | 26,959 | 26,887 |
| | 0,75 | 13,000 | 12,513 | 12,188 | 12,080 | | 28 | 0,75 | 28,000 | 27,513 | 27,188 |
| | 0,5 | 13,000 | 12,675 | 12,459 | 12,387 | 0,5 | | 28,000 | 27,675 | 27,459 | 27,387 |

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| Номинальный диаметр резьбы d | Шаг P | Диаметры резьбы | | | | Номинальный диаметр резьбы d | Шаг P | Диаметры резьбы | | | | |
|--------------------------------|---------|-----------------|-------------|-------------|--------|--------------------------------|---------|-----------------|-------------|-------------|--------|--------|
| | | $d = D$ | $d_2 = D_2$ | $d_1 = D_1$ | d_3 | | | $d = D$ | $d_2 = D_2$ | $d_1 = D_1$ | d_3 | |
| 28,5 | 0,5 | 28,500 | 28,175 | 27,959 | 27,887 | 42 | 0,75 | 42,000 | 41,513 | 41,188 | 41,080 | |
| 29 | 0,75 | 29,000 | 28,513 | 28,188 | 28,080 | | 0,5 | 42,000 | 41,675 | 41,459 | 41,387 | |
| | 0,5 | 29,000 | 28,675 | 28,459 | 28,387 | 42,5 | 0,5 | 42,500 | 42,175 | 41,959 | 41,887 | |
| 29,5 | 0,5 | 29,500 | 29,175 | 28,959 | 28,887 | 43 | 1,5 | 43,000 | 42,026 | 41,376 | 41,160 | |
| 30 | 0,5 | 30,000 | 29,675 | 29,459 | 29,387 | | 0,75 | 43,000 | 42,513 | 42,188 | 42,080 | |
| 30,5 | 0,5 | 30,500 | 30,175 | 29,959 | 29,887 | | 0,5 | 43,000 | 42,675 | 42,459 | 42,387 | |
| 31 | 1,5 | 31,000 | 30,026 | 29,376 | 29,160 | 43,5 | 0,5 | 43,500 | 43,175 | 42,959 | 42,887 | |
| | 0,75 | 31,000 | 30,513 | 30,188 | 30,080 | 44 | 1,5 | 44,000 | 43,026 | 42,376 | 42,160 | |
| | 0,5 | 31,000 | 30,675 | 30,459 | 30,387 | | 1 | 44,000 | 43,350 | 42,917 | 42,773 | |
| 31,5 | 0,5 | 31,500 | 31,175 | 30,959 | 30,887 | 44,5 | 0,75 | 44,000 | 43,513 | 43,188 | 43,080 | |
| | | | | | | | 0,5 | 44,000 | 43,675 | 43,459 | 43,387 | |
| | | | | | | | 0,5 | 44,000 | 43,675 | 43,459 | 43,387 | |
| 32 | 1 | 32,000 | 31,350 | 30,917 | 30,773 | 45 | 0,5 | 44,500 | 44,175 | 43,959 | 43,887 | |
| | 0,75 | 32,000 | 31,513 | 31,188 | 31,080 | | 0,75 | 45,000 | 44,513 | 44,188 | 44,080 | |
| | 0,5 | 32,000 | 31,675 | 31,459 | 31,387 | 0,5 | 45,000 | 44,675 | 44,459 | 44,387 | | |
| 32,5 | 0,5 | 32,500 | 32,175 | 31,959 | 31,887 | 45,5 | 0,5 | 45,500 | 45,175 | 44,959 | 44,887 | |
| 33 | 0,5 | 33,000 | 32,675 | 32,459 | 32,387 | 46 | 1,5 | 46,000 | 45,026 | 44,376 | 44,160 | |
| 33,5 | 0,5 | 33,500 | 33,175 | 32,959 | 32,887 | | 1 | 46,000 | 45,350 | 44,917 | 44,773 | |
| | | | | | | | 0,75 | 46,000 | 45,513 | 45,188 | 45,080 | |
| | | | | | | | 0,5 | 46,000 | 45,675 | 45,459 | 45,387 | |
| | | | | | | | 0,5 | 46,000 | 45,675 | 45,459 | 45,387 | |
| 34 | 0,5 | 34,000 | 33,675 | 33,459 | 33,387 | 46,5 | 0,5 | 46,500 | 46,175 | 45,959 | 45,887 | |
| 34,5 | 0,5 | 34,500 | 34,175 | 33,959 | 33,887 | 47 | 1,5 | 47,000 | 46,026 | 45,376 | 45,160 | |
| | | | | | | | 0,75 | 47,000 | 46,513 | 46,188 | 46,080 | |
| | | | | | | | 0,5 | 47,000 | 46,675 | 46,459 | 46,387 | |
| | | | | | | | 0,5 | 47,000 | 46,675 | 46,459 | 46,387 | |
| | | | | | | | 0,5 | 47,000 | 46,675 | 46,459 | 46,387 | |
| 35 | 1 | 35,000 | 34,350 | 33,917 | 33,773 | 47,5 | 0,5 | 47,500 | 47,175 | 46,959 | 46,887 | |
| | 0,75 | 35,000 | 34,513 | 34,188 | 34,080 | | 0,75 | 48,000 | 47,513 | 47,188 | 47,080 | |
| | 0,5 | 35,000 | 34,675 | 34,459 | 34,387 | 0,5 | 48,000 | 47,675 | 47,459 | 47,387 | | |
| 35,5 | 0,5 | 35,500 | 35,175 | 34,959 | 34,887 | 48 | 0,5 | 48,500 | 48,175 | 47,959 | 47,887 | |
| 36 | 0,75 | 36,000 | 35,513 | 35,188 | 35,080 | | 48,5 | 0,5 | 48,500 | 48,175 | 47,959 | 47,887 |
| | 0,5 | 36,000 | 35,675 | 35,459 | 35,387 | 49 | | 1,5 | 49,000 | 48,026 | 47,376 | 47,160 |
| 36,5 | 0,5 | 36,500 | 36,175 | 35,959 | 35,887 | | 0,75 | 49,000 | 48,513 | 48,188 | 48,080 | |
| | | | | | | | 0,5 | 49,000 | 48,675 | 48,459 | 48,387 | |
| | | | | | | | 0,5 | 49,000 | 48,675 | 48,459 | 48,387 | |
| | | | | | | | 0,5 | 49,000 | 48,675 | 48,459 | 48,387 | |
| 37 | 1,5 | 37,000 | 36,026 | 35,376 | 35,160 | 49,5 | 0,75 | 49,500 | 49,013 | 48,688 | 48,580 | |
| 0,75 | 37,000 | 36,513 | 36,188 | 36,080 | 0,5 | | 49,500 | 49,175 | 48,959 | 48,887 | | |
| 37,5 | 1,5 | 37,000 | 36,675 | 36,459 | 36,387 | 50 | 1 | 50,000 | 49,350 | 48,917 | 48,773 | |
| | 0,5 | 37,500 | 37,175 | 36,959 | 36,887 | | 0,75 | 50,000 | 49,513 | 49,188 | 49,080 | |
| 38 | 0,75 | 38,000 | 37,513 | 37,188 | 37,080 | | 0,5 | 50,000 | 49,675 | 49,459 | 49,387 | |
| | | | | | | | 0,5 | 50,000 | 49,675 | 49,459 | 49,387 | |
| | | | | | | | 0,5 | 50,000 | 49,675 | 49,459 | 49,387 | |
| 38,5 | 0,5 | 38,500 | 38,175 | 37,959 | 37,887 | 50,5 | 0,5 | 50,500 | 50,175 | 49,959 | 49,887 | |
| 39 | 0,75 | 39,000 | 38,513 | 38,188 | 38,080 | 51 | 1,5 | 51,000 | 50,026 | 49,376 | 49,160 | |
| | 0,5 | 39,000 | 38,675 | 38,459 | 38,387 | | 1 | 51,000 | 50,350 | 49,917 | 49,773 | |
| | | | | | | | 0,75 | 51,000 | 50,513 | 50,188 | 50,080 | |
| 39,5 | 0,5 | 39,500 | 39,175 | 38,959 | 38,887 | | 0,5 | 51,000 | 50,675 | 50,459 | 50,387 | |
| | | | | | | | 0,5 | 51,000 | 50,675 | 50,459 | 50,387 | |
| 40 | 1 | 40,000 | 39,350 | 38,917 | 38,773 | 51,5 | 0,75 | 51,500 | 51,013 | 50,688 | 50,580 | |
| | 0,75 | 40,000 | 39,513 | 39,188 | 39,080 | | 0,5 | 51,500 | 51,175 | 50,959 | 50,887 | |
| | 0,5 | 40,000 | 39,675 | 39,459 | 39,387 | 52 | 0,75 | 52,000 | 51,513 | 51,188 | 51,080 | |
| 40,5 | 0,5 | 40,500 | 40,175 | 39,959 | 39,887 | | 0,5 | 52,000 | 51,675 | 51,459 | 51,387 | |
| 41 | 1,5 | 41,000 | 40,026 | 39,375 | 39,160 | | 52,5 | 0,75 | 52,500 | 52,013 | 51,688 | 51,580 |
| | | | | | | | | 0,5 | 52,500 | 52,175 | 51,959 | 51,887 |
| | | | | | | | 0,75 | 41,000 | 40,513 | 40,188 | 40,080 | 0,5 |
| 0,5 | 41,000 | 40,675 | 40,459 | 40,387 | | | | | | | | |
| 41,5 | 0,5 | 41,500 | 41,175 | 40,959 | 40,887 | | | | | | | |

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| Номинальный диаметр резьбы d | Шаг P | Диаметры резьбы | | | | Номинальный диаметр резьбы d | Шаг P | Диаметры резьбы | | | |
|--------------------------------|---------|-----------------|-------------|-------------|--------|--------------------------------|---------|-----------------|-------------|-------------|--------|
| | | $d = D$ | $d_2 = D_2$ | $d_1 = D_1$ | d_3 | | | $d = D$ | $d_2 = D_2$ | $d_1 = D_1$ | d_3 |
| 53 | 1 | 53,000 | 52,350 | 51,917 | 51,773 | 74 | 1 | 74,000 | 73,350 | 72,917 | 72,773 |
| | 0,75 | 53,000 | 52,513 | 52,188 | 52,080 | | 0,75 | 74,000 | 73,513 | 73,188 | 73,080 |
| | 0,5 | 53,000 | 52,675 | 52,459 | 52,387 | 75 | 1 | 75,000 | 74,350 | 73,917 | 73,773 |
| 53,5 | 0,5 | 53,500 | 53,175 | 52,959 | 52,887 | | 0,75 | 75,000 | 74,513 | 74,188 | 74,080 |
| 54 | 1 | 54,000 | 53,350 | 52,917 | 52,773 | 76 | 0,75 | 76,000 | 75,513 | 75,188 | 75,080 |
| | 0,75 | 54,000 | 53,513 | 53,188 | 53,080 | | 77 | 1 | 77,000 | 76,350 | 75,917 |
| | 0,5 | 54,000 | 53,675 | 53,459 | 53,387 | 0,75 | | 77,000 | 76,513 | 76,188 | 76,080 |
| 54,5 | 0,75 | 54,500 | 54,013 | 53,688 | 53,580 | 78 | 1,5 | 78,000 | 77,026 | 76,376 | 76,160 |
| | 0,5 | 54,500 | 54,175 | 53,959 | 53,887 | | 1 | 78,000 | 77,350 | 76,917 | 76,773 |
| 55 | 1 | 55,000 | 54,350 | 53,917 | 53,773 | | 79 | 0,75 | 78,000 | 77,513 | 77,188 |
| | 0,75 | 55,000 | 54,513 | 54,188 | 54,080 | 1 | | 79,000 | 78,350 | 77,917 | 77,773 |
| | 0,5 | 55,000 | 54,675 | 54,459 | 54,387 | 0,75 | 79,000 | 78,513 | 78,188 | 78,080 | |
| 56 | 0,75 | 56,000 | 55,513 | 55,188 | 55,080 | 80 | 0,75 | 80,000 | 79,513 | 79,188 | 79,080 |
| | 0,5 | 56,000 | 55,675 | 55,459 | 55,387 | | 81 | 1 | 81,000 | 80,350 | 79,917 |
| 57 | 1 | 57,000 | 56,350 | 55,917 | 55,773 | 0,75 | | 81,000 | 80,513 | 80,188 | 80,080 |
| | 0,75 | 57,000 | 56,513 | 56,188 | 56,080 | 82 | 1,5 | 82,000 | 81,026 | 80,376 | 80,160 |
| | 0,5 | 57,000 | 56,675 | 56,459 | 56,387 | | 1 | 82,000 | 81,350 | 80,917 | 80,773 |
| 58 | 1 | 58,000 | 57,350 | 56,917 | 56,773 | 83 | 0,75 | 82,000 | 81,513 | 81,188 | 81,080 |
| | 0,75 | 58,000 | 57,513 | 57,188 | 57,080 | | 1 | 83,000 | 82,350 | 81,917 | 81,773 |
| | 0,5 | 58,000 | 57,675 | 57,459 | 57,387 | 0,75 | 83,000 | 82,513 | 82,188 | 82,080 | |
| 59 | 1 | 59,000 | 58,350 | 57,917 | 57,773 | 84 | 1 | 84,000 | 83,350 | 82,917 | 82,773 |
| | 0,75 | 59,000 | 58,513 | 58,188 | 58,080 | | 0,75 | 84,000 | 83,513 | 83,188 | 83,080 |
| | 0,5 | 59,000 | 58,675 | 58,459 | 58,387 | 85 | 1 | 85,000 | 84,350 | 83,917 | 83,773 |
| 60 | 0,75 | 60,000 | 59,513 | 59,188 | 59,080 | | 0,75 | 85,000 | 84,513 | 84,188 | 84,080 |
| | 0,5 | 60,000 | 59,675 | 59,459 | 59,387 | 86 | 1 | 86,000 | 85,350 | 84,917 | 84,773 |
| 61 | 1 | 61,000 | 60,350 | 59,917 | 59,773 | | 0,75 | 86,000 | 85,513 | 85,188 | 85,080 |
| | 0,75 | 61,000 | 60,513 | 60,188 | 60,080 | 87 | 1 | 87,000 | 86,350 | 85,917 | 85,773 |
| 62 | 1 | 62,000 | 61,350 | 60,917 | 60,773 | | 0,75 | 87,000 | 86,513 | 86,188 | 86,080 |
| | 0,75 | 62,000 | 61,513 | 61,188 | 61,080 | 88 | 1,5 | 88,000 | 87,026 | 86,376 | 86,160 |
| 63 | 1,5 | 63,000 | 62,026 | 61,376 | 61,160 | | 1 | 88,000 | 87,350 | 86,917 | 86,773 |
| | 1 | 63,000 | 62,350 | 61,917 | 61,773 | | 0,75 | 88,000 | 87,513 | 87,188 | 87,080 |
| 64 | 0,75 | 63,000 | 62,513 | 62,188 | 62,080 | 89 | 1 | 89,000 | 88,350 | 87,917 | 87,773 |
| | 0,5 | 64,000 | 63,513 | 63,188 | 63,080 | | 0,75 | 89,000 | 88,513 | 88,188 | 88,080 |
| 65 | 1 | 65,000 | 64,350 | 63,917 | 63,773 | 90 | 1 | 90,000 | 89,350 | 88,917 | 88,773 |
| | 0,75 | 65,000 | 64,513 | 64,188 | 64,080 | | 0,75 | 90,000 | 89,513 | 89,188 | 89,080 |
| 66 | 1 | 66,000 | 65,350 | 64,917 | 64,773 | 91 | 1 | 91,000 | 90,350 | 89,917 | 89,773 |
| | 0,75 | 66,000 | 65,513 | 65,188 | 65,080 | | 0,75 | 91,000 | 90,513 | 90,188 | 90,080 |
| 67 | 1 | 67,000 | 66,350 | 65,917 | 65,773 | 92 | 1,5 | 92,000 | 91,026 | 90,376 | 90,160 |
| | 0,75 | 67,000 | 66,513 | 66,188 | 66,080 | | 1 | 92,000 | 91,350 | 90,917 | 90,773 |
| 68 | 0,75 | 68,000 | 67,513 | 67,188 | 67,080 | | 0,75 | 92,000 | 91,513 | 91,188 | 91,080 |
| | 69 | 1 | 69,000 | 68,350 | 67,917 | 67,773 | 93 | 1 | 93,000 | 92,350 | 91,917 |
| 0,75 | | 69,000 | 68,513 | 68,188 | 68,080 | 0,75 | | 93,000 | 92,513 | 92,188 | 92,080 |
| 70 | 1 | 70,000 | 69,350 | 68,917 | 68,773 | 94 | 1 | 94,000 | 93,350 | 92,917 | 92,773 |
| | 0,75 | 70,000 | 69,513 | 69,188 | 69,080 | | 0,75 | 94,000 | 93,513 | 93,188 | 93,080 |
| 71 | 1 | 71,000 | 70,350 | 69,917 | 69,773 | 95 | 1 | 95,000 | 94,350 | 93,917 | 93,773 |
| | 0,75 | 71,000 | 70,513 | 70,188 | 70,080 | | 0,75 | 95,000 | 94,513 | 94,188 | 94,080 |
| 72 | 0,75 | 72,000 | 71,513 | 71,188 | 71,080 | 96 | 1 | 96,000 | 95,350 | 94,917 | 94,773 |
| | 73 | 1 | 73,000 | 72,350 | 71,917 | | 71,773 | 0,75 | 96,000 | 95,513 | 95,188 |
| 0,75 | | 73,000 | 72,513 | 72,188 | 72,080 | | | | | | |

мм

| Номинальный диаметр резьбы d | Шаг P | Диаметры резьбы | | | | Номинальный диаметр резьбы d | Шаг P | Диаметры резьбы | | | |
|--------------------------------|---------|-----------------|-------------|-------------|---------|--------------------------------|---------|-----------------|-------------|-------------|---------|
| | | $d = D$ | $d_2 = D_2$ | $d_1 = D_1$ | d_3 | | | $d = D$ | $d_2 = D_2$ | $d_1 = D_1$ | d_3 |
| 97 | 1 | 97,000 | 96,350 | 95,917 | 95,773 | 145 | 1 | 145,000 | 144,350 | 143,917 | 143,773 |
| | 0,75 | 97,000 | 96,513 | 96,188 | 96,080 | | 1 | 148,000 | 147,026 | 146,376 | 146,160 |
| 98 | 1,5 | 98,000 | 97,026 | 96,376 | 96,160 | 148 | 1 | 148,000 | 147,350 | 146,917 | 146,773 |
| | 1 | 98,000 | 97,350 | 96,917 | 96,773 | | 1 | 150,000 | 149,350 | 148,917 | 148,773 |
| 99 | 0,75 | 98,000 | 97,513 | 97,188 | 97,080 | 150 | 1,5 | 150,000 | 151,026 | 150,376 | 150,160 |
| | 1 | 99,000 | 98,350 | 97,917 | 97,773 | 152 | 1,5 | 152,000 | 151,026 | 150,376 | 150,160 |
| 100 | 0,75 | 99,000 | 98,513 | 98,188 | 98,080 | 155 | 1,5 | 155,000 | 154,026 | 153,376 | 153,160 |
| | 1 | 100,000 | 99,350 | 98,917 | 98,773 | 158 | 1,5 | 158,000 | 157,026 | 156,376 | 156,160 |
| 101 | 0,75 | 100,000 | 99,513 | 99,188 | 99,080 | 160 | 1,5 | 160,000 | 159,026 | 158,376 | 158,160 |
| | 1 | 100,000 | 99,513 | 99,188 | 99,080 | 162 | 1,5 | 162,000 | 161,026 | 160,376 | 160,160 |
| 102 | 1 | 101,000 | 100,350 | 99,917 | 99,773 | 165 | 1,5 | 165,000 | 164,026 | 163,376 | 163,160 |
| | 0,75 | 101,000 | 100,513 | 100,188 | 100,080 | 168 | 1,5 | 168,000 | 167,026 | 166,376 | 166,160 |
| 103 | 1,5 | 102,000 | 101,026 | 100,376 | 100,160 | 170 | 1,5 | 170,000 | 169,026 | 168,376 | 168,160 |
| | 1 | 102,000 | 101,350 | 100,917 | 100,773 | 172 | 1,5 | 172,000 | 171,026 | 170,376 | 170,160 |
| 104 | 0,75 | 102,000 | 101,513 | 101,188 | 101,080 | 175 | 1,5 | 175,000 | 174,026 | 173,376 | 173,160 |
| | 1 | 103,000 | 102,350 | 101,917 | 101,773 | 178 | 1,5 | 178,000 | 177,026 | 176,376 | 176,160 |
| 105 | 0,75 | 103,000 | 102,513 | 102,188 | 102,080 | 180 | 1,5 | 180,000 | 179,026 | 178,376 | 178,160 |
| | 1 | 104,000 | 103,350 | 102,917 | 102,773 | 182 | 1,5 | 182,000 | 181,026 | 180,376 | 180,160 |
| 106 | 0,75 | 104,000 | 103,513 | 103,188 | 103,080 | 185 | 1,5 | 185,000 | 184,026 | 183,376 | 183,160 |
| | 1 | 105,000 | 104,350 | 103,917 | 103,773 | 188 | 1,5 | 188,000 | 187,026 | 186,376 | 186,160 |
| 108 | 0,75 | 105,000 | 104,513 | 104,188 | 104,080 | 190 | 1,5 | 190,000 | 189,026 | 188,376 | 188,160 |
| | 1 | 106,000 | 105,350 | 104,917 | 104,773 | 192 | 1,5 | 192,000 | 191,026 | 190,376 | 190,160 |
| 110 | 0,75 | 106,000 | 105,513 | 105,188 | 105,080 | 195 | 1,5 | 195,000 | 194,026 | 193,376 | 193,160 |
| | 1,5 | 108,000 | 107,026 | 106,376 | 106,160 | 198 | 1,5 | 198,000 | 197,026 | 196,376 | 196,160 |
| 112 | 1 | 108,000 | 107,350 | 106,917 | 106,773 | 200 | 1,5 | 200,000 | 199,026 | 198,376 | 198,160 |
| | 0,75 | 108,000 | 107,513 | 107,188 | 107,080 | 202 | 2 | 202,000 | 200,701 | 199,835 | 199,546 |
| 114 | 1 | 110,000 | 109,350 | 108,917 | 108,773 | 205 | 2 | 205,000 | 203,701 | 202,835 | 202,546 |
| | 0,75 | 110,000 | 109,513 | 109,188 | 109,080 | 208 | 2 | 208,000 | 206,701 | 205,835 | 205,546 |
| 116 | 1,5 | 112,000 | 111,026 | 110,376 | 110,160 | 210 | 2 | 210,000 | 208,701 | 207,835 | 207,546 |
| | 1 | 112,000 | 111,350 | 110,917 | 110,773 | 212 | 2 | 212,000 | 210,701 | 209,835 | 209,546 |
| 118 | 1 | 114,000 | 113,350 | 112,917 | 112,773 | 215 | 2 | 215,000 | 213,701 | 212,835 | 212,546 |
| | 1 | 115,000 | 114,350 | 113,917 | 113,773 | 218 | 2 | 218,000 | 216,701 | 215,835 | 215,546 |
| 120 | 1 | 116,000 | 115,350 | 114,917 | 114,773 | 220 | 2 | 220,000 | 218,701 | 217,835 | 217,546 |
| | 1,5 | 118,000 | 117,026 | 116,376 | 116,160 | 222 | 2 | 222,000 | 220,701 | 219,835 | 219,546 |
| 122 | 1 | 118,000 | 117,350 | 116,917 | 116,773 | 225 | 2 | 225,000 | 223,701 | 222,835 | 222,546 |
| | 1 | 120,000 | 119,350 | 118,917 | 118,773 | 228 | 2 | 228,000 | 226,701 | 225,835 | 225,546 |
| 125 | 1,5 | 122,000 | 121,026 | 120,376 | 120,160 | 230 | 2 | 230,000 | 228,701 | 227,835 | 227,546 |
| | 1 | 122,000 | 121,350 | 120,917 | 120,773 | 232 | 2 | 232,000 | 230,701 | 229,835 | 229,546 |
| 128 | 1 | 125,000 | 124,350 | 123,917 | 123,773 | 235 | 2 | 235,000 | 233,701 | 232,835 | 232,546 |
| | 1,5 | 128,000 | 127,026 | 126,376 | 126,160 | 238 | 2 | 238,000 | 236,701 | 235,835 | 235,546 |
| 130 | 1 | 128,000 | 127,350 | 126,917 | 126,773 | 240 | 2 | 240,000 | 238,701 | 237,835 | 237,546 |
| | 1 | 130,000 | 129,350 | 128,917 | 128,773 | 242 | 2 | 242,000 | 240,701 | 239,835 | 239,546 |
| 132 | 1,5 | 132,000 | 131,026 | 130,376 | 130,160 | 245 | 2 | 245,000 | 243,701 | 242,835 | 242,546 |
| | 1 | 132,000 | 131,350 | 130,917 | 130,773 | 248 | 2 | 248,000 | 246,701 | 245,835 | 245,546 |
| 135 | 1 | 135,000 | 134,350 | 133,917 | 133,773 | 250 | 2 | 250,000 | 248,701 | 247,835 | 247,546 |
| | 1,5 | 138,000 | 137,026 | 136,376 | 136,160 | 252 | 2 | 252,000 | 250,701 | 249,835 | 249,546 |
| 138 | 1 | 138,000 | 137,350 | 136,917 | 136,773 | 255 | 2 | 255,000 | 253,701 | 252,835 | 252,546 |
| | 1 | 140,000 | 139,350 | 138,917 | 138,773 | 258 | 2 | 258,000 | 256,701 | 255,835 | 255,546 |
| 142 | 1,5 | 142,000 | 141,026 | 140,376 | 140,160 | 260 | 2 | 260,000 | 258,701 | 257,835 | 257,546 |
| | 1 | 142,000 | 141,350 | 140,917 | 140,773 | 262 | 2 | 262,000 | 260,701 | 259,835 | 259,546 |

мм

| Номиналь- ный диаметр резьбы d | Шаг P | Диаметры резьбы | | | | Номиналь- ный диаметр резьбы d | Шаг P | Диаметры резьбы | | | |
|---|---------|-----------------|-------------|-------------|---------|---|---------|-----------------|-------------|-------------|---------|
| | | $d = D$ | $d_2 = D_2$ | $d_1 = D_1$ | d_3 | | | $d = D$ | $d_2 = D_2$ | $d_1 = D_1$ | d_3 |
| 265 | 2 | 265,000 | 263,701 | 262,835 | 262,546 | 335 | 2 | 335,000 | 333,701 | 332,835 | 332,546 |
| 268 | 2 | 268,000 | 266,701 | 265,835 | 265,546 | 338 | 2 | 338,000 | 336,701 | 335,835 | 335,546 |
| 270 | 2 | 270,000 | 268,701 | 267,835 | 267,546 | 340 | 2 | 340,000 | 338,701 | 337,835 | 337,546 |
| 272 | 2 | 272,000 | 270,701 | 269,835 | 269,546 | 342 | 2 | 342,000 | 340,701 | 339,835 | 339,546 |
| 275 | 2 | 275,000 | 273,701 | 272,835 | 272,546 | 345 | 2 | 345,000 | 343,701 | 342,835 | 342,546 |
| 278 | 2 | 278,000 | 276,701 | 275,835 | 275,546 | 348 | 2 | 348,000 | 346,701 | 345,835 | 345,546 |
| 280 | 2 | 280,000 | 278,701 | 277,835 | 277,546 | 350 | 2 | 350,000 | 348,701 | 347,835 | 347,546 |
| 282 | 2 | 282,000 | 280,701 | 279,835 | 279,546 | 352 | 2 | 352,000 | 350,701 | 349,835 | 349,546 |
| 285 | 2 | 285,000 | 283,701 | 282,835 | 282,546 | 355 | 2 | 355,000 | 353,701 | 352,835 | 352,546 |
| 288 | 2 | 288,000 | 286,701 | 285,835 | 285,546 | 358 | 2 | 358,000 | 356,701 | 355,835 | 355,546 |
| 290 | 2 | 290,000 | 288,701 | 287,835 | 287,546 | 360 | 2 | 360,000 | 358,701 | 357,835 | 357,546 |
| 292 | 2 | 292,000 | 290,701 | 289,835 | 289,546 | 362 | 2 | 362,000 | 360,701 | 359,835 | 359,546 |
| 295 | 2 | 295,000 | 293,701 | 292,835 | 292,546 | 365 | 2 | 365,000 | 363,701 | 362,835 | 362,546 |
| 298 | 2 | 298,000 | 296,701 | 295,835 | 295,546 | 368 | 2 | 368,000 | 366,701 | 365,835 | 365,546 |
| 300 | 2 | 300,000 | 298,701 | 297,835 | 297,546 | 370 | 2 | 370,000 | 368,701 | 367,835 | 367,546 |
| 302 | 2 | 302,000 | 300,701 | 299,835 | 299,546 | 372 | 2 | 372,000 | 370,701 | 369,835 | 369,546 |
| 305 | 2 | 305,000 | 303,701 | 302,835 | 302,546 | 375 | 2 | 375,000 | 373,701 | 372,835 | 372,546 |
| 308 | 2 | 308,000 | 306,701 | 305,835 | 305,546 | 378 | 2 | 378,000 | 376,701 | 375,835 | 375,546 |
| 310 | 2 | 310,000 | 308,701 | 307,835 | 307,546 | 380 | 2 | 380,000 | 378,701 | 377,835 | 377,546 |
| 312 | 2 | 312,000 | 310,701 | 309,835 | 309,546 | 382 | 2 | 382,000 | 380,701 | 379,835 | 379,546 |
| 315 | 2 | 315,000 | 313,701 | 312,835 | 312,546 | 385 | 2 | 385,000 | 383,701 | 382,835 | 382,546 |
| 318 | 2 | 318,000 | 316,701 | 315,835 | 315,546 | 388 | 2 | 388,000 | 386,701 | 385,835 | 385,546 |
| 320 | 2 | 320,000 | 318,701 | 317,835 | 317,546 | 390 | 2 | 390,000 | 388,701 | 387,835 | 387,546 |
| 322 | 2 | 322,000 | 320,701 | 319,835 | 319,546 | 392 | 2 | 392,000 | 390,701 | 389,835 | 389,546 |
| 325 | 2 | 325,000 | 323,701 | 322,835 | 322,546 | 395 | 2 | 395,000 | 393,701 | 392,835 | 392,546 |
| 328 | 2 | 328,000 | 326,701 | 325,835 | 325,546 | 398 | 2 | 398,000 | 396,701 | 395,835 | 395,546 |
| 330 | 2 | 330,000 | 328,701 | 327,835 | 327,546 | 400 | 2 | 400,000 | 398,701 | 397,835 | 397,546 |
| 332 | 2 | 332,000 | 330,701 | 329,835 | 329,546 | | | | | | |

Редактор *Л.В. Коретникова*
Технический редактор *Н.С. Гришанова*
Корректор *С.И. Фирсова*
Компьютерная верстка *С.В. Рябовой*

Изд. лиц. № 02354 от 14.07.2000. Подписано в печать 19.02.2003. Усл.печ.л. 0,93. Уч.-изд.л. 0,80.
Тираж 119 экз. С 9809. Зак. 149.

ИПК Издательство стандартов, 107076 Москва, Колодезный пер., 14.
<http://www.standards.ru> e-mail: info@standards.ru
Набрано в Калужской типографии стандартов на ПЭВМ
Филиал ИПК Издательство стандартов — тип. “Московский печатник”, 105062 Москва, Лялин пер., 6.
Плр № 080102