

УДК 621.882.6

Группа Г31

# ОТРАСЛЕВОЙ СТАНДАРТ

БОЛТЫ С ШЕСТИГРАННОЙ  
ГОЛОВКОЙ

ОСТ 1 31102-80    ОСТ 1 31106-80  
ОСТ 1 31103-80    ОСТ 1 31107-80  
ОСТ 1 31104-80    ОСТ 1 31108-80  
ОСТ 1 31105-80

Конструкция и размеры

На 38 страницах

Взамен 3001А, 3003А, 3005А,  
3006А, 3007А, 3008А,  
3009А

ОКП 75 9111  
75 9112  
75 9113

Проверен в 1986 г.  
Срок действия продлен до 01.01.88

Распоряжением Министерства от 30 октября 1980 года № 087-16

срок действия установлен с 1 января 1982 года

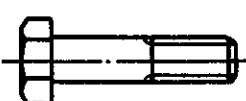
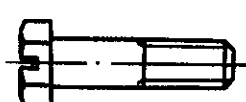
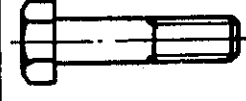
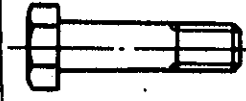
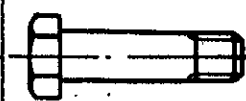
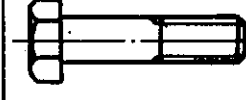
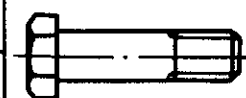
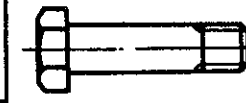
до 1 января 1987 года

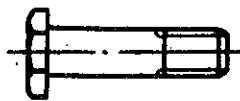
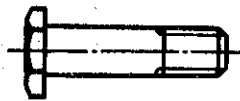
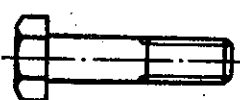
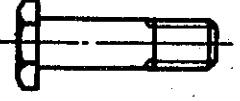
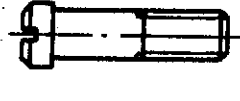
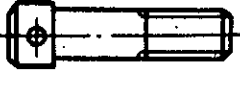
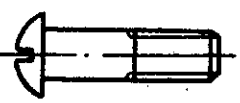
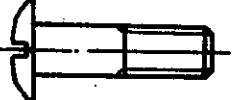
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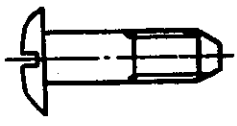
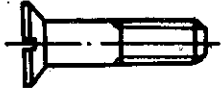
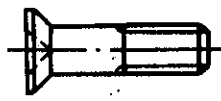
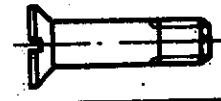
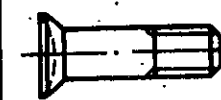
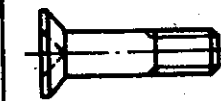
БОЛТЫ ПО ОСТ 1 31102-80, ОСТ 1 31103-80, ОСТ 1 31104-80, ОСТ 1 31105-80,  
ОСТ 1 31106-80, ОСТ 1 31107-80 И ОСТ 1 31108-80 ВЗАИМОЗАМЕНЯЕМЫ С БОЛТАМИ  
ПО НОРМАЛЯМ 3001А, 3003А, 3007А, 3008А, 3009А, 3005А И 3006А СООТВЕТСТВЕННО

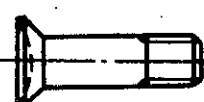
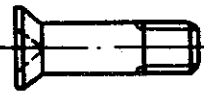
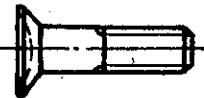
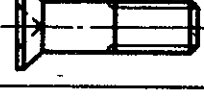
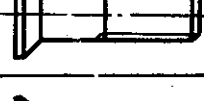
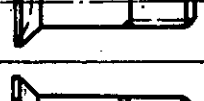
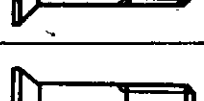
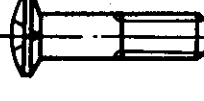
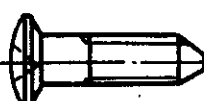
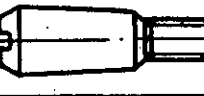
1. Конструкция и размеры болтов должны соответствовать указанным на чертеже  
и в табл. 1, 2 и 3.

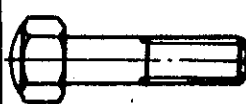
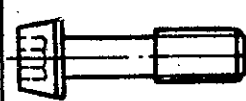
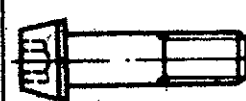
# СОДЕРЖАНИЕ

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|                |              | Продолжение           |                                                                                                                                          |              |                      |                                                                                       |      |
|----------------|--------------|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------|---------------------------------------------------------------------------------------|------|
|                |              | Обозначение стандарта | Наименование стандарта                                                                                                                   | Поле допуска | Марка материала      | Рисунок                                                                               | Стр. |
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|             |              | Обозначение стандарта                                                                                                      | Наименование стандарта                                                                                          | Поле допуска | Марка материала                                                               | Рисунок                                                                               | Стр. |
|-------------|--------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------|
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|             |              | ОСТ 1 31178-80                                                                                                             | Конструкция и размеры                                                                                           |              |                                                                               |                                                                                       |      |
|             |              | ОСТ 1 31179-80                                                                                                             | Болты с потайной головкой $\angle 90^\circ$ с полем допуска диаметра стержня h 8 и короткой резьбовой частью    | h 8          | 30ХГСА                                                                        |  | 331  |
|             |              | ОСТ 1 31180-80                                                                                                             | Конструкция и размеры                                                                                           |              |                                                                               |  |      |
|             |              | ОСТ 1 31181-80                                                                                                             | Болты с потайной головкой $\angle 90^\circ$ с полем допуска диаметра стержня h 8 и укороченной резьбовой частью |              | 14Х17Н2                                                                       |  | 349  |
|             |              | ОСТ 1 31182-80                                                                                                             | Конструкция и размеры                                                                                           |              | 07Х16Н6-Ш                                                                     |                                                                                       |      |

|                  |                   |                       |                                                                                                                                            |              |                                                                                     |                                                                                       |      |
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|                  |                   | Продолжение           |                                                                                                                                            |              |                                                                                     |                                                                                       |      |
|                  |                   | Обозначение стандарта | Наименование стандарта                                                                                                                     | Поле допуска | Марка материала                                                                     | Рисунок                                                                               | Стр. |
|                  |                   | ОСТ 1 31183-80        | Болты с потайной головкой $\angle 90^\circ$ с полем допуска диаметра стержня $f 9$<br>Конструкция и размеры                                | $f 9$        | 30ХГСА                                                                              |    | 357  |
|                  |                   | ОСТ 1 31184-80        |                                                                                                                                            |              |                                                                                     |    |      |
|                  |                   | ОСТ 1 31185-80        | Болты с потайной головкой $\angle 90^\circ$ с полем допуска диаметра стержня $f 9$ и укороченной резьбовой частью<br>Конструкция и размеры |              | 30ХГСА                                                                              |    | 375  |
|                  |                   | ОСТ 1 31186-80        |                                                                                                                                            |              | 14Х17Н2                                                                             |                                                                                       |      |
|                  |                   | ОСТ 1 31187-80        |                                                                                                                                            |              | 07Х16Н6-Ш                                                                           |                                                                                       |      |
|                  |                   | ОСТ 1 31188-80        | 30ХГСА                                                                                                                                     |              |  |                                                                                       |      |
|                  |                   | ОСТ 1 31189-80        | Болты с потайной головкой $\angle 90^\circ$ с полем допуска диаметра стержня $p 6$<br>Конструкция и размеры                                | $p 6$        | 30ХГСА                                                                              |    | 387  |
|                  |                   | ОСТ 1 31190-80        |                                                                                                                                            |              |                                                                                     |  |      |
|                  |                   | ОСТ 1 31191-80        |                                                                                                                                            |              |                                                                                     |  |      |
| № изм.           | № изв.            | ОСТ 1 31192-80        | Болты с потайной головкой $\angle 90^\circ$ с полем допуска диаметра стержня $p 6$ и короткой резьбовой частью<br>Конструкция и размеры    |              | 30ХГСА                                                                              |  | 398  |
|                  |                   | ОСТ 1 31193-80        |                                                                                                                                            |              |                                                                                     |  |      |
|                  |                   | ОСТ 1 31194-80        |                                                                                                                                            |              |                                                                                     |  |      |
| Инв. № дубликата | Инв. № подлинника | ОСТ 1 31195-80        | Болты с полупотайной головкой $\angle 120^\circ$<br>Конструкция и размеры                                                                  | $h 11$       | 30ХГСА                                                                              |  | 412  |
|                  |                   | ОСТ 1 31196-80        |                                                                                                                                            |              | 14Х17Н2                                                                             |                                                                                       |      |
|                  |                   | ОСТ 1 31197-80        |                                                                                                                                            |              | 07Х16Н6-Ш                                                                           |                                                                                       |      |
|                  |                   | ОСТ 1 31198-80        |                                                                                                                                            |              | 30ХГСА                                                                              |                                                                                       |      |
|                  |                   | ОСТ 1 31199-80        |                                                                                                                                            |              | 07Х16Н6-Ш                                                                           |                                                                                       |      |
|                  |                   | ОСТ 1 31200-80        |                                                                                                                                            |              | 30ХГСА                                                                              |                                                                                       |      |
|                  |                   | ОСТ 1 31201-80        |                                                                                                                                            |              | 07Х16Н6-Ш                                                                           |                                                                                       |      |
|                  |                   | ОСТ 1 31202-80        | Болты с полупотайной головкой $\angle 120^\circ$ и направляющим конусом<br>Конструкция и размеры                                           |              | 30ХГСА                                                                              |  | 422  |
|                  |                   | ОСТ 1 31203-80        | Болты конические<br>Конструкция и размеры                                                                                                  | -            | 30ХГСА                                                                              |  | 431  |

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|  |  | Продолжение           |                                                                                                 |              |           |                                                                                     |      |
|  |  | Обозначение стандарта | Наименование стандарта                                                                          | Поле допуска | Марка     | Рисунок                                                                             | Стр. |
|  |  | ОСТ 1 31204-80        | Болты стяжные<br>Конструкция и размеры                                                          | -            | Сборочный |  | 452  |
|  |  | ОСТ 1 31205-80        | Стержни<br>Конструкция и размеры                                                                | -            | 45        |  | 459  |
|  |  | ОСТ 1 31206-80        | Болты с внутренним шестигранником<br>Конструкция и размеры                                      | -            | 30ХГСА    |  | 468  |
|  |  | ОСТ 1 31207-80        | Болты с внутренним шестигранником с полем допуска диаметра стержня f 9<br>Конструкция и размеры | f 9          | 30ХГСА    |  | 485  |
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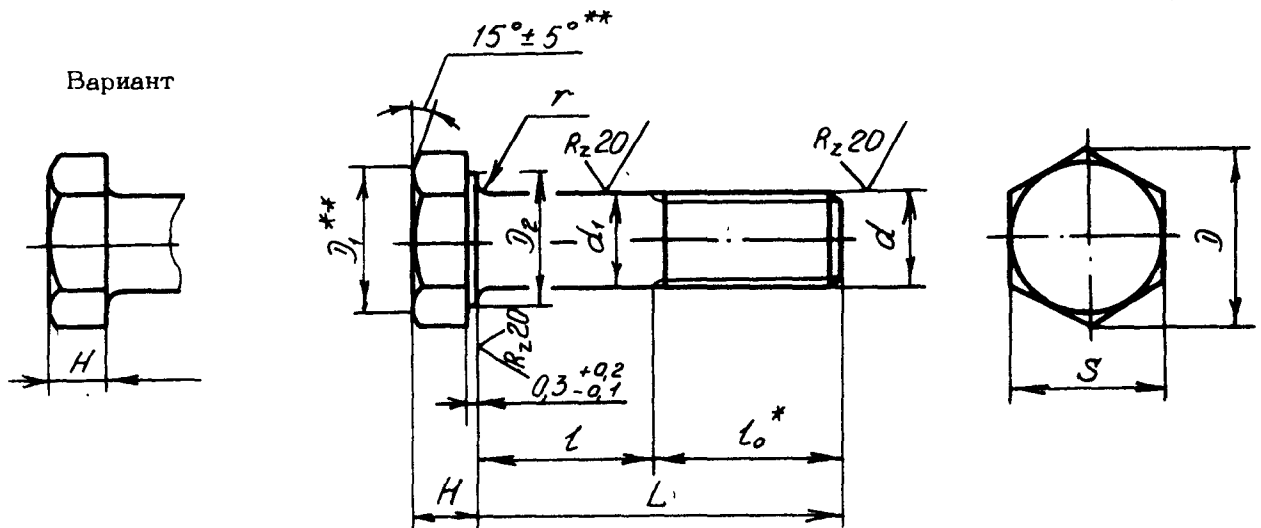
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Таблица 1

| Обозначение стандарта | Диаметры резьбы, мм | Марка материала |
|-----------------------|---------------------|-----------------|
| ОСТ 1 31102-80        | От 2,5 до 18        | 45              |
| ОСТ 1 31103-80        | От 3 до 24          | 30ХГСА          |
| ОСТ 1 31104-80        | От 2,5 до 18        | 14Х17Н2         |
| ОСТ 1 31105-80        | От 5 до 18          | 13Х11Н2В2МФ-Ш   |
| ОСТ 1 31106-80        | От 5 до 24          | 07Х16Н6-Ш       |
| ОСТ 1 31107-80        | От 5 до 12          | Д1П             |
| ОСТ 1 31108-80        | От 4 до 12          | ЛС59-1          |

Таблица 2

мм

| d       | d <sub>1</sub><br>Пред.<br>откл.<br>по h 12 | D<br>min | D <sub>1</sub><br>Пред.<br>откл.<br>по h 14 | D <sub>2</sub><br>min | S           | H       | r    | l <sub>0</sub> |
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|         |                                             |          |                                             |                       | Пред. откл. |         |      |                |
|         |                                             |          |                                             |                       | по h 12     | по h 14 | ±0,2 |                |
| M2,5    | 2,5                                         | 5,5      | 5,0                                         | 4,3                   | 5,0         | 1,8     | 0,4  | 8              |
| M3      | 3,0                                         | 6,0      | 5,5                                         | 4,8                   | 5,5         | 2,0     |      |                |
| M4      | 4,0                                         | 7,8      | 7,0                                         | 6,3                   | 7,0         | 2,8     | 0,5  | 9              |
| M5      | 5,0                                         | 8,8      | 8,0                                         | 7,3                   | 8,0         | 3,0     |      | 10             |
| M6      | 6,0                                         | 11,0     | 10,0                                        | 9,2                   | 10,0        | 4,0     |      | 12             |
| M8      | 8,0                                         | 15,5     | 14,0***                                     | 13,0***               | 14,0***     | 5,0     | 0,8  | 14             |
| M10     | 10,0                                        | 18,8     | 17,0***                                     | 16,0***               | 17,0***     | 6,0     |      | 18             |
| M12x1,5 | 12,0                                        | 21,1     | 19,0***                                     | 18,0***               | 19,0***     | 7,0     | 1,0  | 20             |
| M14x1,5 | 14,0                                        | 24,5     | 22,0                                        | 21,0                  | 22,0        | 8,0     |      | 22             |
| M16x1,5 | 16,0                                        | 26,8     | 24,0                                        | 23,0                  | 24,0        | 10,0    | 1,5  | 24             |
| M18x1,5 | 18,0                                        | 30,2     | 27,0                                        | 26,0                  | 27,0        | 11,0    |      | 26             |
| M20x1,5 | 20,0                                        | 33,6     | 30,0                                        | 29,0                  | 30,0        | 12,0    |      | 28             |
| M22x1,5 | 22,0                                        | 35,8     | 32,0                                        | 31,0                  | 32,0        | 13,0    | 2,0  | 30             |
| M24x1,5 | 24,0                                        | 40,3     | 36,0                                        | 35,0                  | 36,0        | 14,0    |      | 32             |

\* Размер для справок.

\*\* Размеры обеспеч. инстр.

\*\*\* Болты из латуни с резьбой М8 изготавливать с размерами  $S = D_1 = 12$  мм и  $D_2 = 11$  мм, с резьбой М10 -  $S = D_1 = 14$  мм и  $D_2 = 13$  мм с резьбой М12 -  $S = D_1 = 17$  мм и  $D_2 = 16$  мм

Иив. № дубликата

Иив. № подлинника

273

№ изм.

№ изв.

Т а б л и ц а 3

мм

| L       |                | d             |                              |               |                              |               |                              |               |                             |               |                             |               |                              |               |                              |               |                              |               |                              |               |                              |               |                              |               |                              |               |                              |               |                              |
|---------|----------------|---------------|------------------------------|---------------|------------------------------|---------------|------------------------------|---------------|-----------------------------|---------------|-----------------------------|---------------|------------------------------|---------------|------------------------------|---------------|------------------------------|---------------|------------------------------|---------------|------------------------------|---------------|------------------------------|---------------|------------------------------|---------------|------------------------------|---------------|------------------------------|
| Номинал | Пред.<br>откл. | M2,5          |                              | M3            |                              | M4            |                              | M5            |                             | M6            |                             | M8            |                              | M10           |                              | M12x1,5       |                              | M14x1,5       |                              | M16x1,5       |                              | M18x1,5       |                              | M20x1,5       |                              | M22x1,5       |                              | M24x1,5       |                              |
|         |                | Применяемость | l<br>Пред.<br>откл.<br>-0,25 | Применяемость | l<br>Пред.<br>откл.<br>-0,25 | Применяемость | l<br>Пред.<br>откл.<br>-0,35 | Применяемость | l<br>Пред.<br>откл.<br>-0,4 | Применяемость | l<br>Пред.<br>откл.<br>-0,5 | Применяемость | l<br>Пред.<br>откл.<br>-0,62 | Применяемость | l<br>Пред.<br>откл.<br>-0,75 | Применяемость | l<br>Пред.<br>откл.<br>-0,75 | Применяемость | l<br>Пред.<br>откл.<br>-0,75 | Применяемость | l<br>Пред.<br>откл.<br>-0,75 | Применяемость | l<br>Пред.<br>откл.<br>-0,75 | Применяемость | l<br>Пред.<br>откл.<br>-0,75 | Применяемость | l<br>Пред.<br>откл.<br>-0,75 | Применяемость | l<br>Пред.<br>откл.<br>-0,75 |
| 11      | ±0,2           |               | 3                            |               | 3                            |               | -                            |               | -                           |               | -                           |               | -                            |               | -                            |               | -                            |               | -                            |               | -                            |               | -                            |               | -                            |               | -                            |               | -                            |
| 12      |                |               | 4                            |               | 4                            |               | 3                            |               | -                           |               | -                           |               | -                            |               | -                            |               | -                            |               | -                            |               | -                            |               | -                            |               | -                            |               | -                            |               | -                            |
| 14      |                |               | 6                            |               | 6                            |               | 5                            |               | 4                           |               | -                           |               | -                            |               | -                            |               | -                            |               | -                            |               | -                            |               | -                            |               | -                            |               | -                            |               | -                            |
| 16      |                |               | 8                            |               | 8                            |               | 7                            |               | 6                           |               | 4                           |               | -                            |               | -                            |               | -                            |               | -                            |               | -                            |               | -                            |               | -                            |               | -                            |               | -                            |
| 18      |                |               | 10                           |               | 10                           |               | 9                            |               | 8                           |               | 6                           |               | 4                            |               | -                            |               | -                            |               | -                            |               | -                            |               | -                            |               | -                            |               | -                            |               | -                            |
| 20      |                |               | 12                           |               | 12                           |               | 11                           |               | 10                          |               | 8                           |               | 6                            |               | -                            |               | -                            |               | -                            |               | -                            |               | -                            |               | -                            |               | -                            |               | -                            |
| 22      |                |               | 14                           |               | 14                           |               | 13                           |               | 12                          |               | 10                          |               | 8                            |               | 4                            |               | 2                            |               | -                            |               | -                            |               | -                            |               | -                            |               | -                            |               | -                            |
| 24      |                |               | 16                           |               | 16                           |               | 15                           |               | 14                          |               | 12                          |               | 10                           |               | 6                            |               | 4                            |               | 2                            |               | -                            |               | -                            |               | -                            |               | -                            |               | -                            |
| 26      |                |               | -                            |               | 18                           |               | 17                           |               | 16                          |               | 14                          |               | 12                           |               | 8                            |               | 6                            |               | 4                            |               | 2                            |               | -                            |               | -                            |               | -                            |               | -                            |
| 28      |                |               | -                            |               | 20                           |               | 19                           |               | 18                          |               | 16                          |               | 14                           |               | 10                           |               | 8                            |               | 6                            |               | 4                            |               | 2                            |               | -                            |               | -                            |               | -                            |
| 30      |                |               | -                            |               | 22                           |               | 21                           |               | 20                          |               | 18                          |               | 16                           |               | 12                           |               | 10                           |               | 8                            |               | 6                            |               | 4                            |               | 2                            |               | -                            |               | -                            |
| 32      | ±0,3           |               | -                            |               | -                            |               | 23                           |               | 22                          |               | 20                          |               | 18                           |               | 14                           |               | 12                           |               | 10                           |               | 8                            |               | 6                            |               | 4                            |               | 2                            |               | -                            |
| 34      |                |               | -                            |               | -                            |               | 25                           |               | 24                          |               | 22                          |               | 20                           |               | 16                           |               | 14                           |               | 12                           |               | 10                           |               | 8                            |               | 6                            |               | 4                            |               | 2                            |
| 36      |                |               | -                            |               | -                            |               | 27                           |               | 26                          |               | 24                          |               | 22                           |               | 18                           |               | 16                           |               | 14                           |               | 12                           |               | 10                           |               | 8                            |               | 6                            |               | 4                            |
| 38      |                |               | -                            |               | -                            |               | 29                           |               | 28                          |               | 26                          |               | 24                           |               | 20                           |               | 18                           |               | 16                           |               | 14                           |               | 12                           |               | 10                           |               | 8                            |               | 6                            |
| 40      |                |               | -                            |               | -                            |               | 31                           |               | 30                          |               | 28                          |               | 26                           |               | 22                           |               | 20                           |               | 18                           |               | 16                           |               | 14                           |               | 12                           |               | 10                           |               | 8                            |
| 42      |                |               | -                            |               | -                            |               | -                            |               | 32                          |               | 30                          |               | 28                           |               | 24                           |               | 22                           |               | 20                           |               | 18                           |               | 16                           |               | 14                           |               | 12                           |               | 10                           |
| 44      |                |               | -                            |               | -                            |               | -                            |               | 34                          |               | 32                          |               | 30                           |               | 26                           |               | 24                           |               | 22                           |               | 20                           |               | 18                           |               | 16                           |               | 14                           |               | 12                           |
| 46      |                |               | -                            |               | -                            |               | -                            |               | 36                          |               | 34                          |               | 32                           |               | 28                           |               | 26                           |               | 24                           |               | 22                           |               | 20                           |               | 18                           |               | 16                           |               | 14                           |
| 48      |                |               | -                            |               | -                            |               | -                            |               | 38                          |               | 36                          |               | 34                           |               | 30                           |               | 28                           |               | 26                           |               | 24                           |               | 22                           |               | 20                           |               | 18                           |               | 16                           |
| 50      |                |               | -                            |               | -                            |               | -                            |               | 40                          |               | 38                          |               | 36                           |               | 32                           |               | 30                           |               | 28                           |               | 26                           |               | 24                           |               | 22                           |               | 20                           |               | 18                           |





Продолжение табл. 3

MM

| L      |                | d                       |                         |                         |                        |                        |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |   |
|--------|----------------|-------------------------|-------------------------|-------------------------|------------------------|------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|---|
| Номин. | Пред.<br>откл. | M2,5                    |                         | M3                      |                        | M4                     |                         | M5                      |                         | M6                      |                         | M8                      |                         | M10                     |                         | M12x1,5                 |                         | M14x1,5                 |                         | M16x1,5                 |                         | M18x1,5                 |                         | M20x1,5                 |                         | M22x1,5                 |                         | M24x1,5                 |   |
|        |                | Применяемость           | l                       | Применяемость           | l                      | Применяемость          | l                       | Применяемость           | l                       | Применяемость           | l                       | Применяемость           | l                       | Применяемость           | l                       | Применяемость           | l                       | Применяемость           | l                       | Применяемость           | l                       | Применяемость           | l                       | Применяемость           | l                       | Применяемость           | l                       | Применяемость           | l |
|        |                | Пред.<br>откл.<br>-0,25 | Пред.<br>откл.<br>-0,25 | Пред.<br>откл.<br>-0,35 | Пред.<br>откл.<br>-0,4 | Пред.<br>откл.<br>-0,5 | Пред.<br>откл.<br>-0,62 | Пред.<br>откл.<br>-0,75 | Пред.<br>откл.<br>-0,75 | Пред.<br>откл.<br>-0,75 | Пред.<br>откл.<br>-0,75 | Пред.<br>откл.<br>-0,75 | Пред.<br>откл.<br>-0,75 | Пред.<br>откл.<br>-0,75 | Пред.<br>откл.<br>-0,75 | Пред.<br>откл.<br>-0,75 | Пред.<br>откл.<br>-0,75 | Пред.<br>откл.<br>-0,75 | Пред.<br>откл.<br>-0,75 | Пред.<br>откл.<br>-0,75 | Пред.<br>откл.<br>-0,75 | Пред.<br>откл.<br>-0,75 | Пред.<br>откл.<br>-0,75 | Пред.<br>откл.<br>-0,75 | Пред.<br>откл.<br>-0,75 | Пред.<br>откл.<br>-0,75 | Пред.<br>откл.<br>-0,75 | Пред.<br>откл.<br>-0,75 |   |
| 94     | ±0,5           | -                       | -                       | -                       | -                      | -                      | -                       | -                       | -                       | 76                      | 74                      | 72                      | 70                      | 68                      | 66                      | 64                      | 62                      |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |   |
| 96     |                | -                       | -                       | -                       | -                      | -                      | -                       | -                       | 78                      | 76                      | 74                      | 72                      | 70                      | 68                      | 66                      | 64                      |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |   |
| 98     |                | -                       | -                       | -                       | -                      | -                      | -                       | -                       | 80                      | 78                      | 76                      | 74                      | 72                      | 70                      | 68                      | 66                      |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |   |
| 100    |                | -                       | -                       | -                       | -                      | -                      | -                       | -                       | 82                      | 80                      | 78                      | 76                      | 74                      | 72                      | 70                      | 68                      |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |   |
| 104    |                | -                       | -                       | -                       | -                      | -                      | -                       | -                       | 86                      | 84                      | 82                      | 80                      | 78                      | 76                      | 74                      | 72                      |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |   |
| 108    |                | -                       | -                       | -                       | -                      | -                      | -                       | -                       | -                       | 88                      | 86                      | 84                      | 82                      | 80                      | 78                      | 76                      |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |   |
| 112    |                | -                       | -                       | -                       | -                      | -                      | -                       | -                       | -                       | 92                      | 90                      | 88                      | 86                      | 84                      | 82                      | 80                      |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |   |
| 116    |                | -                       | -                       | -                       | -                      | -                      | -                       | -                       | -                       | 96                      | 94                      | 92                      | 90                      | 88                      | 86                      | 84                      |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |   |
| 120    |                | -                       | -                       | -                       | -                      | -                      | -                       | -                       | -                       | 100                     | 98                      | 96                      | 94                      | 92                      | 90                      | 88                      |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |   |
| 124    |                | -                       | -                       | -                       | -                      | -                      | -                       | -                       | -                       | 104                     | 102                     | 100                     | 98                      | 96                      | 94                      | 92                      |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |   |
| 128    |                | -                       | -                       | -                       | -                      | -                      | -                       | -                       | -                       | -                       | 106                     | 104                     | 102                     | 100                     | 98                      | 96                      |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |   |
| 132    |                | -                       | -                       | -                       | -                      | -                      | -                       | -                       | -                       | -                       | 110                     | 108                     | 106                     | 104                     | 102                     | 100                     |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |   |
| 136    |                | -                       | -                       | -                       | -                      | -                      | -                       | -                       | -                       | -                       | 114                     | 112                     | 110                     | 108                     | 106                     | 104                     |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |   |
| 140    |                | -                       | -                       | -                       | -                      | -                      | -                       | -                       | -                       | -                       | 118                     | 116                     | 114                     | 112                     | 110                     | 108                     |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |   |
| 144    |                | -                       | -                       | -                       | -                      | -                      | -                       | -                       | -                       | -                       | -                       | 120                     | 118                     | 116                     | 114                     | 112                     |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |   |
| 148    | -              | -                       | -                       | -                       | -                      | -                      | -                       | -                       | -                       | -                       | 124                     | 122                     | 120                     | 118                     | 116                     |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |                         |   |

Примечание. Допускается применение болтов большей длины с интервалом: 2 мм для болтов длиной до 100 мм, 4 мм для болтов длиной свыше 100 мм. Применение таких болтов должно быть согласовано с головной организацией по стандартизации.

2. Материал: сталь 45, 30ХГСА, 14Х17Н2, 13Х11Н2В2МФ-Ш и 07Х16Н6-Ш; алюми-  
ниевый сплав Д1П; латунь ЛС59-1.

3. Термическая обработка болтов\*:

- из стали 30ХГСА -  $\sigma_s = 1079 \dots 1275$  МПа ( $110 \dots 130$  кгс/мм<sup>2</sup>). При изотерми-  
ческой закалке  $\sigma_s = 1079 \dots 1422$  МПа ( $110 \dots 145$  кгс/мм<sup>2</sup>);
- из стали 14Х17Н2 с резьбой М4 и более -  $\sigma_s = 834 \dots 1030$  МПа ( $85 \dots 105$  кгс/мм<sup>2</sup>),  
с резьбой менее М4 - без термической обработки;
- из стали 13Х11Н2В2МФ-Ш -  $\sigma_s = 883 \dots 1030$  МПа ( $90 \dots 105$  кгс/мм<sup>2</sup>);
- из стали 07Х16Н6-Ш -  $\sigma_s = 1079 \dots 1373$  МПа ( $110 \dots 140$  кгс/мм<sup>2</sup>);
- из алюминиевого сплава -  $\sigma_s \geq 373$  МПа (38 кгс/мм<sup>2</sup>).

4. Поля допусков резьбы:

- $6_g$  для  $d = M2,5$  и  $6_e$  для  $d \geq M3$  для болтов из стали 45, 30ХГСА и латуни  
под металлическое покрытие и из коррозионностойкой и жаропрочной стали под металличе-  
ское и неметаллическое покрытие;
- $6_h$  для винтов из стали 45, 30ХГСА, алюминиевого сплава и латуни под неметалли-  
ческое покрытие.

5. Отверстия для контровки и обозначение болтов с контровочными отверстиями -  
по ОСТ 1 03815-76.

6. Покрытие болтов\*:

- из стали 45 с резьбой М2,5 - Ц3-6.хр ; с резьбой М3 и М4 - Ц6-8.хр ;  
с резьбой более М4 - Ц9.хр ;
- из стали 30ХГСА с резьбой М3 и М4 - Ц6-8.хр , Кд6-8.хр ; с резьбой более М4 -  
Ц9.хр , Кд9.хр ;
- из стали 14Х17Н2, 13Х11Н2В2МФ-Ш, 07Х16Н6-Ш и латуни - Хим.Пас ;
- из алюминиевого сплава - Ан.Окс.хр .

Другие виды покрытия - по ОСТ 1 31101-80.

7. Расчетные разрушающие нагрузки на разрыв болтов из стали и алюминиевого сплава  
с резьбой М4 и более - по ОСТ 1 31100-80.

8. Масса болтов из стали должна соответствовать указанной в табл.4.

\* По действующим в отрасли документам.

Т а б л и ц а 4

| L, мм | d                                 |       |      |      |      |      |      |         |         |         |         |         |         |         |
|-------|-----------------------------------|-------|------|------|------|------|------|---------|---------|---------|---------|---------|---------|---------|
|       | M2,5                              | M3    | M4   | M5   | M6   | M8   | M10  | M12x1,5 | M14x1,5 | M16x1,5 | M18x1,5 | M20x1,5 | M22x1,5 | M24x1,5 |
|       | Масса 100 шт. болтов из стали, кг |       |      |      |      |      |      |         |         |         |         |         |         |         |
| 11    | 0,068                             | 0,083 | -    | -    | -    | -    | -    | -       | -       | -       | -       | -       | -       | -       |
| 12    | 0,072                             | 0,098 | 0,19 | -    | -    | -    | -    | -       | -       | -       | -       | -       | -       | -       |
| 14    | 0,080                             | 0,110 | 0,21 | 0,35 | -    | -    | -    | -       | -       | -       | -       | -       | -       | -       |
| 16    | 0,089                             | 0,121 | 0,23 | 0,38 | 0,57 | -    | -    | -       | -       | -       | -       | -       | -       | -       |
| 18    | 0,097                             | 0,132 | 0,25 | 0,41 | 0,62 | 1,27 | -    | -       | -       | -       | -       | -       | -       | -       |
| 20    | 0,105                             | 0,143 | 0,27 | 0,44 | 0,66 | 1,35 | -    | -       | -       | -       | -       | -       | -       | -       |
| 22    | 0,114                             | 0,154 | 0,29 | 0,47 | 0,70 | 1,43 | 2,33 | 3,36    | -       | -       | -       | -       | -       | -       |
| 24    | 0,122                             | 0,165 | 0,31 | 0,50 | 0,75 | 1,51 | 2,45 | 3,54    | 5,47    | -       | -       | -       | -       | -       |
| 26    | -                                 | 0,176 | 0,33 | 0,53 | 0,79 | 1,58 | 2,57 | 3,72    | 5,71    | 7,53    | -       | -       | -       | -       |
| 28    | -                                 | 0,185 | 0,35 | 0,56 | 0,84 | 1,66 | 2,70 | 3,90    | 5,95    | 7,85    | 10,45   | -       | -       | -       |
| 30    | -                                 | 0,196 | 0,37 | 0,60 | 0,88 | 1,74 | 2,82 | 4,07    | 6,19    | 8,16    | 10,85   | 14,03   | -       | -       |
| 32    | -                                 | -     | 0,39 | 0,63 | 0,93 | 1,82 | 2,94 | 4,25    | 6,44    | 8,48    | 11,25   | 14,53   | 17,82   | -       |
| 34    | -                                 | -     | 0,41 | 0,66 | 0,97 | 1,90 | 3,07 | 4,43    | 6,68    | 8,79    | 11,65   | 15,02   | 18,41   | 23,50   |
| 36    | -                                 | -     | 0,43 | 0,69 | 1,01 | 1,98 | 3,19 | 4,61    | 6,92    | 9,11    | 12,05   | 15,51   | 19,01   | 24,21   |
| 38    | -                                 | -     | 0,45 | 0,72 | 1,06 | 2,06 | 3,31 | 4,78    | 7,16    | 9,42    | 12,45   | 16,00   | 19,61   | 24,92   |
| 40    | -                                 | -     | 0,47 | 0,75 | 1,10 | 2,14 | 3,44 | 4,96    | 7,40    | 9,74    | 12,85   | 16,50   | 20,20   | 25,63   |
| 42    | -                                 | -     | -    | 0,78 | 1,15 | 2,22 | 3,56 | 5,14    | 7,64    | 10,06   | 13,25   | 16,99   | 20,80   | 26,34   |
| 44    | -                                 | -     | -    | 0,81 | 1,19 | 2,29 | 3,68 | 5,32    | 7,89    | 10,37   | 13,65   | 17,48   | 21,40   | 27,05   |
| 46    | -                                 | -     | -    | 0,84 | 1,24 | 2,37 | 3,81 | 5,49    | 8,13    | 10,69   | 14,05   | 17,98   | 21,99   | 27,76   |
| 48    | -                                 | -     | -    | 0,87 | 1,28 | 2,45 | 3,93 | 5,67    | 8,37    | 11,00   | 14,44   | 18,47   | 22,59   | 28,47   |
| 50    | -                                 | -     | -    | 0,90 | 1,33 | 2,53 | 4,05 | 5,85    | 8,61    | 11,32   | 14,84   | 18,96   | 23,19   | 29,19   |
| 52    | -                                 | -     | -    | -    | 1,37 | 2,61 | 4,18 | 6,03    | 8,85    | 11,63   | 15,24   | 19,46   | 23,78   | 29,89   |
| 54    | -                                 | -     | -    | -    | 1,41 | 2,69 | 4,30 | 6,20    | 9,09    | 11,95   | 15,64   | 19,95   | 24,38   | 30,60   |



Продолжение табл. 4

| L, мм | d                                 |    |    |    |    |    |      |         |         |         |         |         |         |         |
|-------|-----------------------------------|----|----|----|----|----|------|---------|---------|---------|---------|---------|---------|---------|
|       | M2,5                              | M3 | M4 | M5 | M6 | M8 | M10  | M12x1,5 | M14x1,5 | M16x1,5 | M18x1,5 | M20x1,5 | M22x1,5 | M24x1,5 |
|       | Масса 100 шт. болтов из стали, кг |    |    |    |    |    |      |         |         |         |         |         |         |         |
| 104   | -                                 | -  | -  | -  | -  | -  | 7,38 | 10,64   | 15,13   | 19,84   | 25,63   | 32,27   | 39,29   | 48,34   |
| 108   | -                                 | -  | -  | -  | -  | -  | -    | 11,00   | 15,64   | 20,47   | 26,42   | 33,26   | 40,48   | 49,76   |
| 112   | -                                 | -  | -  | -  | -  | -  | -    | 11,35   | 16,10   | 21,10   | 27,22   | 34,24   | 41,68   | 51,18   |
| 116   | -                                 | -  | -  | -  | -  | -  | -    | 11,71   | 16,58   | 21,73   | 28,02   | 35,23   | 42,87   | 52,60   |
| 120   | -                                 | -  | -  | -  | -  | -  | -    | 12,06   | 17,06   | 22,36   | 28,82   | 36,22   | 44,06   | 54,02   |
| 124   | -                                 | -  | -  | -  | -  | -  | -    | 12,42   | 17,55   | 22,99   | 29,62   | 37,20   | 45,26   | 55,44   |
| 128   | -                                 | -  | -  | -  | -  | -  | -    | -       | 18,03   | 23,62   | 30,42   | 38,19   | 46,45   | 56,86   |
| 132   | -                                 | -  | -  | -  | -  | -  | -    | -       | 18,51   | 24,25   | 31,22   | 39,17   | 47,64   | 58,28   |
| 136   | -                                 | -  | -  | -  | -  | -  | -    | -       | 19,00   | 24,88   | 32,01   | 40,16   | 48,83   | 59,70   |
| 140   | -                                 | -  | -  | -  | -  | -  | -    | -       | 19,48   | 25,52   | 32,81   | 41,15   | 50,03   | 61,12   |
| 144   | -                                 | -  | -  | -  | -  | -  | -    | -       | -       | 26,15   | 33,61   | 42,13   | 51,22   | 62,54   |
| 148   | -                                 | -  | -  | -  | -  | -  | -    | -       | -       | 26,78   | 34,41   | 43,12   | 52,41   | 63,96   |

П р и м е ч а н и е. Для определения массы болтов, изготавливаемых из других материалов, значения массы, указанные в табл. 4, должны быть умножены на коэффициент: 0,356 - для алюминиевого сплава; 1,1 - для латуни.

8. Коды ОКП болтов должны соответствовать указанным в обязательном приложении.

9. Технические условия - по ОСТ 1 31101-80.

Пример наименования и обозначения болта с шестигранной головкой, с резьбой М6 и длиной  $L = 24$  мм, из стали 45, цинкованного:

Болт 6-24-Ц-ОСТ 1 31102-80

То же, из стали 30ХГСА, цинкованного:

Болт 6-24-Ц-ОСТ 1 31103-80

То же, из стали 30ХГСА, кадмированного:

Болт 6-24-Кд - ОСТ 1 31103-80

То же, из стали 14Х17Н2, пассивированного:

Болт 6-24-Хим.Пас-ОСТ 1 31104-80

То же, из стали 13Х11Н2В2МФ-Ш, пассивированного:

Болт 6-24-Хим.Пас-ОСТ 1 31105-80

То же, из стали 07Х16Н6-Ш, пассивированного:

Болт 6-24-Хим.Пас-ОСТ 1 31106-80

То же, из алюминиевого сплава, анодированного:

Болт 6-24-Ан.Окс-ОСТ 1 31107-80

То же, из латуни, пассивированного:

Болт 6-24-Хим.Пас-ОСТ 1 31108-80

изм.

№ изв.

273

в. № дубликата

в. № подлинника

## КОДЫ ОКП БОЛТОВ

Т а б л и ц а 1

| Обозначение<br>стандарта | Отверстия для<br>контровки по<br>ОСТ 1 03815-76* | Покр <sup>ы</sup> тие* | Код ОКП |      |   |                     | КЧ        |           |
|--------------------------|--------------------------------------------------|------------------------|---------|------|---|---------------------|-----------|-----------|
|                          |                                                  |                        | XX      | XXXX | X | XXX                 |           |           |
| ОСТ 1 31102-80           | Отсутствуют                                      | Ц.хр.                  | 75      | 9111 | 7 | По табл. 2          |           | Колонка 1 |
|                          | Исполнение 2                                     |                        | 75      | 9111 | 8 |                     |           | Колонка 2 |
|                          | Исполнение 3                                     |                        | 75      | 9111 | 9 | По табл.2           | По табл.3 | Колонка 1 |
| ОСТ 1 31103-80           | Отсутствуют                                      | Ц.хр.                  | 75      | 9112 | 1 | По табл. 4          |           |           |
|                          |                                                  | Кд.хр.                 | 75      | 9111 | 4 | По табл.4           | По табл.6 |           |
|                          | Исполнение 2                                     | Ц.хр.                  | 75      | 9112 | 2 |                     | По табл.5 | Колонка 1 |
|                          |                                                  | Кд.хр.                 | 75      | 9111 | 5 | По табл. 4          |           |           |
|                          | Исполнение 3                                     | Ц.хр.                  | 75      | 9112 | 3 | По табл.4           | По табл.5 | Колонка 2 |
|                          |                                                  | Кд.хр.                 | 75      | 9111 | 6 |                     |           | Колонка 1 |
| ОСТ 1 31104-80           | Отсутствуют                                      | Хим.Пас                | 75      | 9112 | 4 | По табл.2           |           | Колонка 2 |
|                          | Исполнение 2                                     |                        | 75      | 9112 | 5 | По табл.2           | По табл.3 | Колонка 1 |
|                          | Исполнение 3                                     |                        | 75      | 9112 | 6 |                     |           | Колонка 2 |
| ОСТ 1 31105-80           | Отсутствуют                                      |                        | 75      | 9112 | 7 | По табл.7           |           | Колонка 1 |
|                          | Исполнение 2                                     |                        | 75      | 9112 | 8 |                     |           | Колонка 2 |
|                          | Исполнение 3                                     |                        | 75      | 9112 | 9 |                     |           | Колонка 3 |
| ОСТ 1 31106-80           | Отсутствуют                                      |                        | 75      | 9113 | 1 | По табл.8           |           | Колонка 1 |
|                          | Исполнение 2                                     |                        | 75      | 9113 | 2 |                     |           | Колонка 2 |
|                          | Исполнение 3                                     |                        | 75      | 9113 | 3 | По табл.8           | По табл.9 | Колонка 1 |
| ОСТ 1 31107-80           | Отсутствуют                                      | Ан.Окс.хр              | 75      | 9113 | 4 | По табл.8 По табл.9 |           | Колонка 2 |
|                          | Исполнение 2                                     |                        | 75      | 9113 | 5 |                     |           | Колонка 3 |
|                          | Исполнение 3                                     |                        | 75      | 9113 | 6 |                     |           | Колонка 4 |
| ОСТ 1 31108-80           | Отсутствуют                                      | Хим.Пас                | 75      | 9113 | 7 | По табл.10          |           | Колонка 1 |
|                          | Исполнение 2                                     |                        | 75      | 9113 | 8 |                     |           | Колонка 2 |
|                          | Исполнение 3                                     |                        | 75      | 9113 | 9 |                     |           | Колонка 3 |

\* Коды ОКП болтов с отверстиями для контровки исполнений 4, 5, 6 и с другими покрытиями выдаются головной организацией по стандартизации по запросам предприятий.



### Т а б л и ц а 2

| L  | d    |    |    |     |    |    |     |    |    |     |    |    |     |    |    |     |    |    |     |    |    |         |    |    |         |    |    |         |    |    |         |    |    |
|----|------|----|----|-----|----|----|-----|----|----|-----|----|----|-----|----|----|-----|----|----|-----|----|----|---------|----|----|---------|----|----|---------|----|----|---------|----|----|
|    | M2,5 |    |    | M3  |    |    | M4  |    |    | M5  |    |    | M6  |    |    | M8  |    |    | M10 |    |    | M12x1,5 |    |    | M14x1,5 |    |    | M16x1,5 |    |    | M18x1,5 |    |    |
|    | XXX  | KЧ |    | XXX | KЧ |    | XXX | KЧ |    | XXX | KЧ |    | XXX | KЧ |    | XXX | KЧ |    | XXX | KЧ |    | XXX     | KЧ |    | XXX     | KЧ |    | XXX     | KЧ |    | XXX     | KЧ |    |
|    |      | 1  | 2  |     | 1  | 2  |     | 1  | 2  |     | 1  | 2  |     | 1  | 2  |     | 1  | 2  |     | 1  | 2  |         | 1  | 2  |         | 1  | 2  |         | 1  | 2  |         | 1  | 2  |
| 11 | 001  | 08 | 04 | 011 | 06 | 02 |     |    |    |     |    |    |     |    |    |     |    |    |     |    |    |         |    |    |         |    |    |         |    |    |         |    |    |
| 12 | 002  | 07 | 03 | 012 | 05 | 01 | 024 | 01 | 08 |     |    |    |     |    |    |     |    |    |     |    |    |         |    |    |         |    |    |         |    |    |         |    |    |
| 14 | 003  | 06 | 02 | 013 | 04 | 00 | 025 | 00 | 07 | 041 | 00 | 07 |     |    |    |     |    |    |     |    |    |         |    |    |         |    |    |         |    |    |         |    |    |
| 16 | 004  | 05 | 01 | 014 | 03 | 10 | 026 | 10 | 06 | 042 | 10 | 06 | 062 | 06 | 02 |     |    |    |     |    |    |         |    |    |         |    |    |         |    |    |         |    |    |
| 18 | 005  | 04 | 00 | 015 | 02 | 09 | 027 | 09 | 05 | 043 | 09 | 05 | 063 | 05 | 01 | 088 | 07 | 03 |     |    |    |         |    |    |         |    |    |         |    |    |         |    |    |
| 20 | 006  | 03 | 10 | 016 | 01 | 08 | 028 | 08 | 04 | 044 | 08 | 04 | 064 | 04 | 00 | 089 | 06 | 02 |     |    |    |         |    |    |         |    |    |         |    |    |         |    |    |
| 22 | 007  | 02 | 09 | 017 | 00 | 07 | 029 | 07 | 03 | 045 | 07 | 03 | 065 | 03 | 10 | 090 | 02 | 09 | 123 | 10 | 06 | 166     | 10 | 06 |         |    |    |         |    |    |         |    |    |
| 24 | 008  | 01 | 08 | 018 | 10 | 06 | 030 | 03 | 10 | 046 | 06 | 02 | 066 | 02 | 09 | 091 | 01 | 08 | 124 | 09 | 05 | 167     | 09 | 05 | 214     | 08 | 04 |         |    |    |         |    |    |
| 26 |      |    |    | 019 | 09 | 05 | 031 | 02 | 09 | 047 | 05 | 01 | 067 | 01 | 08 | 092 | 00 | 07 | 125 | 08 | 04 | 168     | 08 | 04 | 215     | 07 | 03 | 265     | 08 | 04 |         |    |    |
| 28 |      |    |    | 020 | 05 | 01 | 032 | 01 | 08 | 048 | 04 | 00 | 068 | 00 | 07 | 093 | 10 | 06 | 126 | 07 | 03 | 169     | 07 | 03 | 216     | 06 | 02 | 266     | 07 | 03 | 317     | 02 | 09 |
| 30 |      |    |    | 021 | 04 | 00 | 033 | 00 | 07 | 049 | 03 | 10 | 069 | 10 | 06 | 094 | 09 | 05 | 127 | 06 | 02 | 170     | 03 | 10 | 217     | 05 | 01 | 267     | 06 | 02 | 318     | 01 | 08 |
| 32 |      |    |    |     |    |    | 034 | 10 | 06 | 050 | 10 | 06 | 070 | 06 | 02 | 095 | 08 | 04 | 128 | 05 | 01 | 171     | 02 | 09 | 218     | 04 | 00 | 268     | 05 | 01 | 319     | 00 | 07 |
| 34 |      |    |    |     |    |    | 035 | 09 | 05 | 051 | 09 | 05 | 071 | 05 | 01 | 096 | 07 | 03 | 129 | 04 | 00 | 172     | 01 | 08 | 219     | 03 | 10 | 269     | 04 | 00 | 320     | 07 | 03 |
| 36 |      |    |    |     |    |    | 036 | 08 | 04 | 052 | 08 | 04 | 072 | 04 | 00 | 097 | 06 | 02 | 130 | 00 | 07 | 173     | 00 | 07 | 220     | 10 | 06 | 270     | 00 | 07 | 321     | 06 | 02 |
| 38 |      |    |    |     |    |    | 037 | 07 | 03 | 053 | 07 | 03 | 073 | 03 | 10 | 098 | 05 | 01 | 131 | 10 | 06 | 174     | 10 | 06 | 221     | 09 | 05 | 271     | 10 | 06 | 322     | 05 | 01 |
| 40 |      |    |    |     |    |    | 038 | 06 | 02 | 054 | 06 | 02 | 074 | 02 | 09 | 099 | 04 | 00 | 132 | 09 | 05 | 175     | 09 | 05 | 222     | 08 | 04 | 272     | 09 | 05 | 323     | 04 | 00 |
| 42 |      |    |    |     |    |    |     |    |    | 055 | 05 | 01 | 075 | 01 | 08 | 100 | 06 | 02 | 133 | 08 | 04 | 176     | 08 | 04 | 223     | 07 | 03 | 273     | 08 | 04 | 324     | 03 | 10 |
| 44 |      |    |    |     |    |    |     |    |    | 056 | 04 | 00 | 076 | 00 | 07 | 101 | 05 | 01 | 134 | 07 | 03 | 177     | 07 | 03 | 224     | 06 | 02 | 274     | 07 | 03 | 325     | 02 | 09 |
| 46 |      |    |    |     |    |    |     |    |    | 057 | 03 | 10 | 077 | 10 | 06 | 102 | 04 | 00 | 135 | 06 | 02 | 178     | 06 | 02 | 225     | 05 | 01 | 275     | 06 | 02 | 326     | 01 | 08 |
| 48 |      |    |    |     |    |    |     |    |    | 058 | 02 | 09 | 078 | 09 | 05 | 103 | 03 | 10 | 136 | 05 | 01 | 179     | 05 | 01 | 226     | 04 | 00 | 276     | 05 | 01 | 327     | 00 | 07 |
| 50 |      |    |    |     |    |    |     |    |    | 059 | 01 | 08 | 079 | 08 | 04 | 104 | 02 | 09 | 137 | 04 | 00 | 180     | 01 | 08 | 227     | 03 | 10 | 277     | 04 | 00 | 328     | 10 | 06 |
| 52 |      |    |    |     |    |    |     |    |    |     |    |    | 080 | 04 | 00 | 105 | 01 | 08 | 138 | 03 | 10 | 181     | 00 | 07 | 228     | 02 | 09 | 278     | 03 | 10 | 329     | 09 | 05 |

[illegible]

d

ОCT 1 31102-80 ÷ OCT 1 31108-80 **Срп13**

Продолжение табл. 2

| L   | d    |    |   |     |    |   |     |    |   |     |    |   |     |    |   |     |    |    |     |    |    |         |    |    |         |    |    |         |    |    |         |    |   |
|-----|------|----|---|-----|----|---|-----|----|---|-----|----|---|-----|----|---|-----|----|----|-----|----|----|---------|----|----|---------|----|----|---------|----|----|---------|----|---|
|     | M2,5 |    |   | M3  |    |   | M4  |    |   | M5  |    |   | M6  |    |   | M8  |    |    | M10 |    |    | M12x1,5 |    |    | M14x1,5 |    |    | M16x1,5 |    |    | M18x1,5 |    |   |
|     | XXX  | KЧ |   | XXX | KЧ |   | XXX | KЧ |   | XXX | KЧ |   | XXX | KЧ |   | XXX | KЧ |    | XXX | KЧ |    | XXX     | KЧ |    | XXX     | KЧ |    | XXX     | KЧ |    | XXX     | KЧ |   |
|     |      | 1  | 2 |     | 1  | 2 |     | 1  | 2 |     | 1  | 2 |     | 1  | 2 |     | 1  | 2  |     | 1  | 2  |         | 1  | 2  |         | 1  | 2  |         | 1  | 2  |         | 1  | 2 |
| 98  |      |    |   |     |    |   |     |    |   |     |    |   |     |    |   | 161 | 04 | 00 | 204 | 10 | 06 | 251     | 03 | 10 | 301     | 10 | 06 | 352     | 10 | 06 |         |    |   |
| 100 |      |    |   |     |    |   |     |    |   |     |    |   |     |    |   | 162 | 03 | 10 | 205 | 09 | 05 | 252     | 02 | 09 | 302     | 09 | 05 | 353     | 09 | 05 |         |    |   |
| 104 |      |    |   |     |    |   |     |    |   |     |    |   |     |    |   | 163 | 02 | 09 | 206 | 08 | 04 | 253     | 01 | 08 | 303     | 08 | 04 | 354     | 08 | 04 |         |    |   |
| 108 |      |    |   |     |    |   |     |    |   |     |    |   |     |    |   |     |    |    | 207 | 07 | 03 | 254     | 00 | 07 | 304     | 07 | 03 | 355     | 07 | 03 |         |    |   |
| 112 |      |    |   |     |    |   |     |    |   |     |    |   |     |    |   |     |    |    | 208 | 06 | 02 | 255     | 10 | 06 | 305     | 06 | 02 | 356     | 06 | 02 |         |    |   |
| 116 |      |    |   |     |    |   |     |    |   |     |    |   |     |    |   |     |    |    | 209 | 05 | 01 | 256     | 09 | 05 | 306     | 05 | 01 | 357     | 05 | 01 |         |    |   |
| 120 |      |    |   |     |    |   |     |    |   |     |    |   |     |    |   |     |    |    | 210 | 01 | 08 | 257     | 08 | 04 | 307     | 04 | 00 | 358     | 04 | 00 |         |    |   |
| 124 |      |    |   |     |    |   |     |    |   |     |    |   |     |    |   |     |    |    | 211 | 00 | 07 | 258     | 07 | 03 | 308     | 03 | 10 | 359     | 03 | 10 |         |    |   |
| 128 |      |    |   |     |    |   |     |    |   |     |    |   |     |    |   |     |    |    |     |    |    | 259     | 06 | 02 | 309     | 02 | 09 | 360     | 10 | 06 |         |    |   |
| 132 |      |    |   |     |    |   |     |    |   |     |    |   |     |    |   |     |    |    |     |    |    | 260     | 02 | 09 | 310     | 09 | 05 | 361     | 09 | 05 |         |    |   |
| 136 |      |    |   |     |    |   |     |    |   |     |    |   |     |    |   |     |    |    |     |    |    | 261     | 01 | 08 | 311     | 08 | 04 | 362     | 08 | 04 |         |    |   |
| 140 |      |    |   |     |    |   |     |    |   |     |    |   |     |    |   |     |    |    |     |    |    | 262     | 00 | 07 | 312     | 07 | 03 | 363     | 07 | 03 |         |    |   |
| 144 |      |    |   |     |    |   |     |    |   |     |    |   |     |    |   |     |    |    |     |    |    |         |    |    | 313     | 06 | 02 | 364     | 06 | 02 |         |    |   |
| 148 |      |    |   |     |    |   |     |    |   |     |    |   |     |    |   |     |    |    |     |    |    |         |    |    | 314     | 05 | 01 | 365     | 05 | 01 |         |    |   |

Т а б л и ц а 3

| L  | d                      |    |    |    |    |    |    |    |    |    |    |    |     |    |         |    |         |    |         |    |         |    |
|----|------------------------|----|----|----|----|----|----|----|----|----|----|----|-----|----|---------|----|---------|----|---------|----|---------|----|
|    | M2,5                   |    | M3 |    | M4 |    | M5 |    | M6 |    | M8 |    | M10 |    | M12x1,5 |    | M14x1,5 |    | M16x1,5 |    | M18x1,5 |    |
|    | Контрольные числа (КЧ) |    |    |    |    |    |    |    |    |    |    |    |     |    |         |    |         |    |         |    |         |    |
|    | 1                      | 2  | 1  | 2  | 1  | 2  | 1  | 2  | 1  | 2  | 1  | 2  | 1   | 2  | 1       | 2  | 1       | 2  | 1       | 2  | 1       | 2  |
| 11 | 00                     | 07 | 09 | 05 |    |    |    |    |    |    |    |    |     |    |         |    |         |    |         |    |         |    |
| 12 | 10                     | 06 | 08 | 04 | 04 | 00 |    |    |    |    |    |    |     |    |         |    |         |    |         |    |         |    |
| 14 | 09                     | 05 | 07 | 03 | 03 | 10 | 03 | 10 |    |    |    |    |     |    |         |    |         |    |         |    |         |    |
| 16 | 08                     | 04 | 06 | 02 | 02 | 09 | 02 | 09 | 09 | 05 |    |    |     |    |         |    |         |    |         |    |         |    |
| 18 | 07                     | 03 | 05 | 01 | 01 | 08 | 01 | 08 | 08 | 04 | 10 | 06 |     |    |         |    |         |    |         |    |         |    |
| 20 | 06                     | 02 | 04 | 00 | 00 | 07 | 00 | 07 | 07 | 03 | 09 | 05 |     |    |         |    |         |    |         |    |         |    |
| 22 | 05                     | 01 | 03 | 10 | 10 | 06 | 10 | 06 | 06 | 02 | 05 | 01 | 02  | 09 | 02      | 09 |         |    |         |    |         |    |
| 24 | 04                     | 00 | 02 | 09 | 06 | 02 | 09 | 05 | 05 | 01 | 04 | 00 | 01  | 08 | 01      | 08 | 00      | 07 |         |    |         |    |
| 26 |                        |    | 01 | 08 | 05 | 01 | 08 | 04 | 04 | 00 | 03 | 10 | 00  | 07 | 00      | 07 | 10      | 06 | 00      | 07 |         |    |
| 28 |                        |    | 08 | 04 | 04 | 00 | 07 | 03 | 03 | 10 | 02 | 09 | 10  | 06 | 10      | 06 | 09      | 05 | 10      | 06 | 05      | 01 |
| 30 |                        |    | 07 | 03 | 03 | 10 | 06 | 02 | 02 | 09 | 01 | 08 | 09  | 05 | 06      | 02 | 08      | 04 | 09      | 05 | 04      | 00 |
| 32 |                        |    |    |    | 02 | 09 | 02 | 09 | 09 | 05 | 00 | 07 | 08  | 04 | 05      | 01 | 07      | 03 | 08      | 04 | 03      | 10 |
| 34 |                        |    |    |    | 01 | 08 | 01 | 08 | 08 | 04 | 10 | 06 | 07  | 03 | 04      | 00 | 06      | 02 | 07      | 03 | 10      | 06 |
| 36 |                        |    |    |    | 00 | 07 | 00 | 07 | 07 | 03 | 09 | 05 | 03  | 10 | 03      | 10 | 02      | 09 | 03      | 10 | 09      | 05 |
| 38 |                        |    |    |    | 10 | 06 | 10 | 06 | 06 | 02 | 08 | 04 | 02  | 09 | 02      | 09 | 01      | 08 | 02      | 09 | 08      | 04 |
| 40 |                        |    |    |    | 09 | 05 | 09 | 05 | 05 | 01 | 07 | 03 | 01  | 08 | 01      | 08 | 00      | 07 | 01      | 08 | 07      | 03 |
| 42 |                        |    |    |    |    |    | 08 | 04 | 04 | 00 | 09 | 05 | 00  | 07 | 00      | 07 | 10      | 06 | 00      | 07 | 06      | 02 |
| 44 |                        |    |    |    |    |    | 07 | 03 | 03 | 10 | 08 | 04 | 10  | 06 | 10      | 06 | 09      | 05 | 10      | 06 | 05      | 01 |
| 46 |                        |    |    |    |    |    | 06 | 02 | 02 | 09 | 07 | 03 | 09  | 05 | 09      | 05 | 08      | 04 | 09      | 05 | 04      | 00 |
| 48 |                        |    |    |    |    |    | 05 | 01 | 01 | 08 | 06 | 02 | 08  | 04 | 08      | 04 | 07      | 03 | 08      | 04 | 03      | 10 |
| 50 |                        |    |    |    |    |    | 04 | 00 | 00 | 07 | 05 | 01 | 07  | 03 | 04      | 00 | 06      | 02 | 07      | 03 | 02      | 09 |
| 52 |                        |    |    |    |    |    |    |    | 07 | 03 | 04 | 00 | 06  | 02 | 03      | 10 | 05      | 01 | 06      | 02 | 01      | 08 |

Продолжение табл.3

| L  | d                      |   |    |   |    |   |    |   |    |    |    |    |     |    |         |    |         |    |         |    |         |    |
|----|------------------------|---|----|---|----|---|----|---|----|----|----|----|-----|----|---------|----|---------|----|---------|----|---------|----|
|    | M2,5                   |   | M3 |   | M4 |   | M5 |   | M6 |    | M8 |    | M10 |    | M12x1,5 |    | M14x1,5 |    | M16x1,5 |    | M18x1,5 |    |
|    | Контрольные числа (КЧ) |   |    |   |    |   |    |   |    |    |    |    |     |    |         |    |         |    |         |    |         |    |
|    | 1                      | 2 | 1  | 2 | 1  | 2 | 1  | 2 | 1  | 2  | 1  | 2  | 1   | 2  | 1       | 2  | 1       | 2  | 1       | 2  | 1       | 2  |
| 54 |                        |   |    |   |    |   |    |   | 06 | 02 | 03 | 10 | 05  | 01 | 02      | 09 | 04      | 00 | 05      | 01 | 08      | 04 |
| 56 |                        |   |    |   |    |   |    |   | 05 | 01 | 02 | 09 | 01  | 08 | 01      | 08 | 00      | 07 | 01      | 08 | 07      | 03 |
| 58 |                        |   |    |   |    |   |    |   | 04 | 00 | 01 | 08 | 00  | 07 | 00      | 07 | 10      | 06 | 00      | 07 | 06      | 02 |
| 60 |                        |   |    |   |    |   |    |   | 03 | 10 | 00 | 07 | 10  | 06 | 10      | 06 | 09      | 05 | 10      | 06 | 05      | 01 |
| 62 |                        |   |    |   |    |   |    |   | 02 | 09 | 07 | 03 | 09  | 05 | 09      | 05 | 08      | 04 | 09      | 05 | 04      | 00 |
| 64 |                        |   |    |   |    |   |    |   |    |    | 06 | 02 | 08  | 04 | 08      | 04 | 07      | 03 | 08      | 04 | 03      | 10 |
| 66 |                        |   |    |   |    |   |    |   |    |    | 05 | 01 | 07  | 03 | 07      | 03 | 06      | 02 | 07      | 03 | 02      | 09 |
| 68 |                        |   |    |   |    |   |    |   |    |    | 04 | 00 | 06  | 02 | 06      | 02 | 05      | 01 | 06      | 02 | 01      | 08 |
| 70 |                        |   |    |   |    |   |    |   |    |    | 03 | 10 | 05  | 01 | 02      | 09 | 04      | 00 | 05      | 01 | 00      | 07 |
| 72 |                        |   |    |   |    |   |    |   |    |    | 02 | 09 | 04  | 00 | 01      | 08 | 03      | 10 | 04      | 00 | 10      | 06 |
| 74 |                        |   |    |   |    |   |    |   |    |    | 01 | 08 | 03  | 10 | 00      | 07 | 02      | 09 | 03      | 10 | 06      | 02 |
| 76 |                        |   |    |   |    |   |    |   |    |    | 00 | 07 | 10  | 06 | 10      | 06 | 09      | 05 | 10      | 06 | 05      | 01 |
| 78 |                        |   |    |   |    |   |    |   |    |    | 10 | 06 | 09  | 05 | 09      | 05 | 08      | 04 | 09      | 05 | 04      | 00 |
| 80 |                        |   |    |   |    |   |    |   |    |    | 09 | 05 | 08  | 04 | 08      | 04 | 07      | 03 | 08      | 04 | 03      | 10 |
| 82 |                        |   |    |   |    |   |    |   |    |    | 05 | 01 | 07  | 03 | 07      | 03 | 06      | 02 | 07      | 03 | 02      | 09 |
| 84 |                        |   |    |   |    |   |    |   |    |    |    |    | 06  | 02 | 06      | 02 | 05      | 01 | 06      | 02 | 01      | 08 |
| 86 |                        |   |    |   |    |   |    |   |    |    |    |    | 05  | 01 | 05      | 01 | 04      | 00 | 05      | 01 | 00      | 07 |
| 88 |                        |   |    |   |    |   |    |   |    |    |    |    | 04  | 00 | 04      | 00 | 03      | 10 | 04      | 00 | 10      | 06 |
| 90 |                        |   |    |   |    |   |    |   |    |    |    |    | 03  | 10 | 06      | 02 | 02      | 09 | 03      | 10 | 09      | 05 |
| 92 |                        |   |    |   |    |   |    |   |    |    |    |    | 02  | 09 | 05      | 01 | 01      | 08 | 02      | 09 | 08      | 04 |
| 94 |                        |   |    |   |    |   |    |   |    |    |    |    | 01  | 08 | 04      | 00 | 00      | 07 | 01      | 08 | 04      | 00 |
| 96 |                        |   |    |   |    |   |    |   |    |    |    |    | 08  | 04 | 03      | 10 | 07      | 03 | 03      | 10 | 03      | 10 |

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Продолжение табл. 3

| L   | d                      |   |    |   |    |   |    |   |    |   |    |   |     |    |         |    |         |    |         |    |         |    |
|-----|------------------------|---|----|---|----|---|----|---|----|---|----|---|-----|----|---------|----|---------|----|---------|----|---------|----|
|     | M2,5                   |   | M3 |   | M4 |   | M5 |   | M6 |   | M8 |   | M10 |    | M12x1,5 |    | M14x1,5 |    | M16x1,5 |    | M18x1,5 |    |
|     | Контрольные числа (КЧ) |   |    |   |    |   |    |   |    |   |    |   |     |    |         |    |         |    |         |    |         |    |
|     | 1                      | 2 | 1  | 2 | 1  | 2 | 1  | 2 | 1  | 2 | 1  | 2 | 1   | 2  | 1       | 2  | 1       | 2  | 1       | 2  | 1       | 2  |
| 98  |                        |   |    |   |    |   |    |   |    |   |    |   | 07  | 03 | 02      | 09 | 06      | 02 | 02      | 09 | 02      | 09 |
| 100 |                        |   |    |   |    |   |    |   |    |   |    |   | 06  | 02 | 01      | 08 | 05      | 01 | 01      | 08 | 01      | 08 |
| 104 |                        |   |    |   |    |   |    |   |    |   |    |   | 05  | 01 | 00      | 07 | 04      | 00 | 00      | 07 | 00      | 07 |
| 108 |                        |   |    |   |    |   |    |   |    |   |    |   |     |    | 10      | 06 | 03      | 10 | 10      | 06 | 10      | 06 |
| 112 |                        |   |    |   |    |   |    |   |    |   |    |   |     |    | 09      | 05 | 02      | 09 | 09      | 05 | 09      | 05 |
| 116 |                        |   |    |   |    |   |    |   |    |   |    |   |     |    | 08      | 04 | 01      | 08 | 08      | 04 | 08      | 04 |
| 120 |                        |   |    |   |    |   |    |   |    |   |    |   |     |    | 04      | 00 | 00      | 07 | 07      | 03 | 07      | 03 |
| 124 |                        |   |    |   |    |   |    |   |    |   |    |   |     |    | 03      | 10 | 10      | 06 | 06      | 02 | 06      | 02 |
| 128 |                        |   |    |   |    |   |    |   |    |   |    |   |     |    |         |    | 09      | 05 | 05      | 01 | 02      | 09 |
| 132 |                        |   |    |   |    |   |    |   |    |   |    |   |     |    |         |    | 05      | 01 | 01      | 08 | 01      | 08 |
| 136 |                        |   |    |   |    |   |    |   |    |   |    |   |     |    |         |    | 04      | 00 | 00      | 07 | 00      | 07 |
| 140 |                        |   |    |   |    |   |    |   |    |   |    |   |     |    |         |    | 03      | 10 | 10      | 06 | 10      | 06 |
| 144 |                        |   |    |   |    |   |    |   |    |   |    |   |     |    |         |    |         |    | 09      | 05 | 09      | 05 |
| 148 |                        |   |    |   |    |   |    |   |    |   |    |   |     |    |         |    |         |    | 08      | 04 | 08      | 04 |

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| L  | d   |    |     |    |     |    |     |    |     |    |     |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |
|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|---------|----|---------|----|---------|----|---------|----|---------|----|---------|----|---------|----|
|    | M3  |    | M4  |    | M5  |    | M6  |    | M8  |    | M10 |    | M12x1,5 |    | M14x1,5 |    | M16x1,5 |    | M18x1,5 |    | M20x1,5 |    | M22x1,5 |    | M24x1,5 |    |
|    | XXX | KЧ | XXX | KЧ | XXX | KЧ | XXX | KЧ | XXX | KЧ | XXX | KЧ | XXX     | KЧ | XXX     | KЧ | XXX     | KЧ | XXX     | KЧ | XXX     | KЧ | XXX     | KЧ | XXX     | KЧ |
| 11 | 011 | 03 |     |    |     |    |     |    |     |    |     |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |
| 12 | 012 | 02 | 024 | 09 |     |    |     |    |     |    |     |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |
| 14 | 013 | 01 | 025 | 08 | 041 | 08 |     |    |     |    |     |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |
| 16 | 014 | 00 | 026 | 07 | 042 | 07 | 062 | 03 |     |    |     |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |
| 18 | 015 | 10 | 027 | 06 | 043 | 06 | 063 | 02 | 088 | 04 |     |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |
| 20 | 016 | 09 | 028 | 05 | 044 | 05 | 064 | 01 | 089 | 03 |     |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |
| 22 | 017 | 08 | 029 | 04 | 045 | 04 | 065 | 00 | 090 | 10 | 123 | 07 | 186     | 07 |         |    |         |    |         |    |         |    |         |    |         |    |
| 24 | 018 | 07 | 030 | 00 | 046 | 03 | 066 | 10 | 091 | 09 | 124 | 06 | 167     | 06 | 214     | 05 |         |    |         |    |         |    |         |    |         |    |
| 26 | 019 | 06 | 031 | 10 | 047 | 02 | 067 | 09 | 092 | 08 | 125 | 05 | 168     | 05 | 215     | 04 | 265     | 05 |         |    |         |    |         |    |         |    |
| 28 | 020 | 02 | 032 | 09 | 048 | 01 | 068 | 08 | 093 | 07 | 126 | 04 | 169     | 04 | 216     | 03 | 266     | 04 | 317     | 10 |         |    |         |    |         |    |
| 30 | 021 | 01 | 033 | 08 | 049 | 00 | 069 | 07 | 094 | 06 | 127 | 03 | 170     | 00 | 217     | 02 | 267     | 03 | 318     | 09 | 368     | 10 |         |    |         |    |
| 32 |     |    | 034 | 07 | 050 | 07 | 070 | 03 | 095 | 05 | 128 | 02 | 171     | 10 | 218     | 01 | 268     | 02 | 319     | 08 | 369     | 09 | 418     | 06 |         |    |
| 34 |     |    | 035 | 06 | 051 | 06 | 071 | 02 | 096 | 04 | 129 | 01 | 172     | 09 | 219     | 00 | 269     | 01 | 320     | 04 | 370     | 05 | 419     | 05 | 467     | 08 |
| 36 |     |    | 036 | 05 | 052 | 05 | 072 | 01 | 097 | 03 | 130 | 08 | 173     | 08 | 220     | 07 | 270     | 08 | 321     | 03 | 371     | 04 | 420     | 01 | 468     | 07 |
| 38 |     |    | 037 | 04 | 053 | 04 | 073 | 00 | 098 | 02 | 131 | 07 | 174     | 07 | 221     | 06 | 271     | 07 | 322     | 02 | 372     | 03 | 421     | 00 | 469     | 06 |
| 40 |     |    | 038 | 03 | 054 | 03 | 074 | 10 | 099 | 01 | 132 | 06 | 175     | 06 | 222     | 05 | 272     | 06 | 323     | 01 | 373     | 02 | 422     | 10 | 470     | 02 |
| 42 |     |    |     |    | 055 | 02 | 075 | 09 | 100 | 03 | 133 | 05 | 176     | 05 | 223     | 04 | 273     | 05 | 324     | 00 | 374     | 01 | 423     | 09 | 471     | 01 |
| 44 |     |    |     |    | 056 | 01 | 076 | 08 | 101 | 02 | 134 | 04 | 177     | 04 | 224     | 03 | 274     | 04 | 325     | 10 | 375     | 00 | 424     | 08 | 472     | 00 |
| 46 |     |    |     |    | 057 | 00 | 077 | 07 | 102 | 01 | 135 | 03 | 178     | 03 | 225     | 02 | 275     | 03 | 326     | 09 | 376     | 10 | 425     | 07 | 473     | 10 |
| 48 |     |    |     |    | 058 | 10 | 078 | 06 | 103 | 00 | 136 | 02 | 179     | 02 | 226     | 01 | 276     | 02 | 327     | 08 | 377     | 09 | 426     | 06 | 474     | 09 |
| 50 |     |    |     |    | 059 | 09 | 079 | 05 | 104 | 10 | 137 | 01 | 180     | 09 | 227     | 00 | 277     | 01 | 328     | 07 | 378     | 08 | 427     | 05 | 475     | 08 |
| 52 |     |    |     |    |     |    | 080 | 01 | 105 | 09 | 138 | 00 | 181     | 08 | 228     | 10 | 278     | 00 | 329     | 06 | 379     | 07 | 428     | 04 | 476     | 07 |
| 54 |     |    |     |    |     |    | 081 | 00 | 106 | 08 | 139 | 10 | 182     | 07 | 229     | 09 | 279     | 10 | 330     | 02 | 380     | 03 | 429     | 03 | 477     | 06 |

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| L   | d   |    |     |    |     |    |     |    |     |    |     |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |
|-----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|---------|----|---------|----|---------|----|---------|----|---------|----|---------|----|---------|----|
|     | M3  |    | M4  |    | M5  |    | M6  |    | M8  |    | M10 |    | M12x1,5 |    | M14x1,5 |    | M16x1,5 |    | M18x1,5 |    | M20x1,5 |    | M22x1,5 |    | M24x1,5 |    |
|     | XXX | KЧ | XXX | KЧ | XXX | KЧ | XXX | KЧ | XXX | KЧ | XXX | KЧ | XXX     | KЧ | XXX     | KЧ | XXX     | KЧ | XXX     | KЧ | XXX     | KЧ | XXX     | KЧ | XXX     | KЧ |
| 56  |     |    |     |    |     |    | 082 | 10 | 107 | 07 | 140 | 06 | 183     | 06 | 230     | 05 | 280     | 06 | 331     | 01 | 381     | 02 | 430     | 10 | 478     | 05 |
| 58  |     |    |     |    |     |    | 083 | 09 | 108 | 06 | 141 | 05 | 184     | 05 | 231     | 04 | 281     | 05 | 332     | 00 | 382     | 01 | 431     | 09 | 479     | 04 |
| 60  |     |    |     |    |     |    | 084 | 08 | 109 | 05 | 142 | 04 | 185     | 04 | 232     | 03 | 282     | 04 | 333     | 10 | 383     | 00 | 432     | 08 | 480     | 00 |
| 62  |     |    |     |    |     |    | 085 | 07 | 110 | 01 | 143 | 03 | 186     | 03 | 233     | 02 | 283     | 03 | 334     | 09 | 384     | 10 | 433     | 07 | 481     | 10 |
| 64  |     |    |     |    |     |    |     |    | 111 | 00 | 144 | 02 | 187     | 02 | 234     | 01 | 284     | 02 | 335     | 08 | 385     | 09 | 434     | 06 | 482     | 09 |
| 66  |     |    |     |    |     |    |     |    | 112 | 10 | 145 | 01 | 188     | 01 | 235     | 00 | 285     | 01 | 336     | 07 | 386     | 08 | 435     | 05 | 483     | 08 |
| 68  |     |    |     |    |     |    |     |    | 113 | 09 | 146 | 00 | 189     | 00 | 236     | 10 | 286     | 00 | 337     | 06 | 387     | 07 | 436     | 04 | 484     | 07 |
| 70  |     |    |     |    |     |    |     |    | 114 | 08 | 147 | 10 | 190     | 07 | 237     | 09 | 287     | 10 | 338     | 05 | 388     | 06 | 437     | 03 | 485     | 06 |
| 72  |     |    |     |    |     |    |     |    | 115 | 07 | 148 | 09 | 191     | 06 | 238     | 08 | 288     | 09 | 339     | 04 | 389     | 05 | 438     | 02 | 486     | 05 |
| 74  |     |    |     |    |     |    |     |    | 116 | 06 | 149 | 08 | 192     | 05 | 239     | 07 | 289     | 08 | 340     | 00 | 390     | 01 | 439     | 01 | 487     | 04 |
| 76  |     |    |     |    |     |    |     |    | 117 | 05 | 150 | 04 | 193     | 04 | 240     | 03 | 290     | 04 | 341     | 10 | 391     | 00 | 440     | 08 | 488     | 03 |
| 78  |     |    |     |    |     |    |     |    | 118 | 04 | 151 | 03 | 194     | 03 | 241     | 02 | 291     | 03 | 342     | 09 | 392     | 10 | 441     | 07 | 489     | 02 |
| 80  |     |    |     |    |     |    |     |    | 119 | 03 | 152 | 02 | 195     | 02 | 242     | 01 | 292     | 02 | 343     | 08 | 393     | 09 | 442     | 06 | 490     | 09 |
| 82  |     |    |     |    |     |    |     |    | 120 | 10 | 153 | 01 | 196     | 01 | 243     | 00 | 293     | 01 | 344     | 07 | 394     | 08 | 443     | 05 | 491     | 08 |
| 84  |     |    |     |    |     |    |     |    |     |    | 154 | 00 | 197     | 00 | 244     | 10 | 294     | 00 | 345     | 06 | 395     | 07 | 444     | 04 | 492     | 07 |
| 86  |     |    |     |    |     |    |     |    |     |    | 155 | 10 | 198     | 10 | 245     | 09 | 295     | 10 | 346     | 05 | 396     | 06 | 445     | 03 | 493     | 06 |
| 88  |     |    |     |    |     |    |     |    |     |    | 156 | 09 | 199     | 09 | 246     | 08 | 296     | 09 | 347     | 04 | 397     | 05 | 446     | 02 | 494     | 05 |
| 90  |     |    |     |    |     |    |     |    |     |    | 157 | 08 | 200     | 00 | 247     | 07 | 297     | 08 | 348     | 03 | 398     | 04 | 447     | 01 | 495     | 04 |
| 92  |     |    |     |    |     |    |     |    |     |    | 158 | 07 | 201     | 10 | 248     | 06 | 298     | 07 | 349     | 02 | 399     | 03 | 448     | 00 | 496     | 03 |
| 94  |     |    |     |    |     |    |     |    |     |    | 159 | 06 | 202     | 09 | 249     | 05 | 299     | 06 | 350     | 09 | 400     | 05 | 449     | 10 | 497     | 02 |
| 96  |     |    |     |    |     |    |     |    |     |    | 160 | 02 | 203     | 08 | 250     | 01 | 300     | 08 | 351     | 08 | 401     | 04 | 450     | 06 | 498     | 01 |
| 98  |     |    |     |    |     |    |     |    |     |    | 161 | 01 | 204     | 07 | 251     | 00 | 301     | 07 | 352     | 07 | 402     | 03 | 451     | 05 | 499     | 00 |
| 100 |     |    |     |    |     |    |     |    |     |    | 162 | 00 | 205     | 06 | 252     | 10 | 302     | 06 | 353     | 06 | 403     | 02 | 452     | 04 | 500     | 02 |



| L   | d   |    |     |    |     |    |     |    |     |    |     |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |
|-----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|---------|----|---------|----|---------|----|---------|----|---------|----|---------|----|---------|----|
|     | M3  |    | M4  |    | M5  |    | M6  |    | M8  |    | M10 |    | M12x1,5 |    | M14x1,5 |    | M16x1,5 |    | M18x1,5 |    | M20x1,5 |    | M22x1,5 |    | M24x1,5 |    |
|     | XXX | KЧ | XXX | KЧ | XXX | KЧ | XXX | KЧ | XXX | KЧ | XXX | KЧ | XXX     | KЧ | XXX     | KЧ | XXX     | KЧ | XXX     | KЧ | XXX     | KЧ | XXX     | KЧ | XXX     | KЧ |
| 104 |     |    |     |    |     |    |     |    |     |    | 163 | 10 | 206     | 05 | 253     | 09 | 303     | 05 | 354     | 05 | 404     | 01 | 453     | 03 | 501     | 01 |
| 108 |     |    |     |    |     |    |     |    |     |    |     |    | 207     | 04 | 254     | 08 | 304     | 04 | 355     | 04 | 405     | 00 | 454     | 02 | 502     | 00 |
| 112 |     |    |     |    |     |    |     |    |     |    |     |    | 208     | 03 | 255     | 07 | 305     | 03 | 356     | 03 | 406     | 10 | 455     | 01 | 503     | 10 |
| 116 |     |    |     |    |     |    |     |    |     |    |     |    | 209     | 02 | 256     | 06 | 306     | 02 | 357     | 02 | 407     | 09 | 456     | 00 | 504     | 09 |
| 120 |     |    |     |    |     |    |     |    |     |    |     |    | 210     | 09 | 257     | 05 | 307     | 01 | 358     | 01 | 408     | 08 | 457     | 10 | 505     | 08 |
| 124 |     |    |     |    |     |    |     |    |     |    |     |    | 211     | 08 | 258     | 04 | 308     | 00 | 359     | 00 | 409     | 07 | 458     | 09 | 506     | 07 |
| 128 |     |    |     |    |     |    |     |    |     |    |     |    |         |    | 259     | 03 | 309     | 10 | 360     | 07 | 410     | 03 | 459     | 08 | 507     | 06 |
| 132 |     |    |     |    |     |    |     |    |     |    |     |    |         |    | 260     | 10 | 310     | 06 | 361     | 06 | 411     | 02 | 460     | 04 | 508     | 05 |
| 136 |     |    |     |    |     |    |     |    |     |    |     |    |         |    | 261     | 09 | 311     | 05 | 362     | 05 | 412     | 01 | 461     | 03 | 509     | 04 |
| 140 |     |    |     |    |     |    |     |    |     |    |     |    |         |    | 262     | 08 | 312     | 04 | 363     | 04 | 413     | 00 | 462     | 02 | 510     | 00 |
| 144 |     |    |     |    |     |    |     |    |     |    |     |    |         |    |         |    | 313     | 03 | 364     | 03 | 414     | 10 | 463     | 01 | 511     | 10 |
| 148 |     |    |     |    |     |    |     |    |     |    |     |    |         |    |         |    | 314     | 02 | 365     | 02 | 415     | 09 | 464     | 00 | 512     | 09 |

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| L  | d                      |    |    |    |    |    |    |    |    |    |     |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |
|----|------------------------|----|----|----|----|----|----|----|----|----|-----|----|---------|----|---------|----|---------|----|---------|----|---------|----|---------|----|---------|----|
|    | M3                     |    | M4 |    | M5 |    | M6 |    | M8 |    | M10 |    | M12x1,5 |    | M14x1,5 |    | M16x1,5 |    | M18x1,5 |    | M20x1,5 |    | M22x1,5 |    | M24x1,5 |    |
|    | Контрольные числа (КЧ) |    |    |    |    |    |    |    |    |    |     |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |
|    | 1                      | 2  | 1  | 2  | 1  | 2  | 1  | 2  | 1  | 2  | 1   | 2  | 1       | 2  | 1       | 2  | 1       | 2  | 1       | 2  | 1       | 2  | 1       | 2  | 1       | 2  |
| 11 | 10                     | 06 |    |    |    |    |    |    |    |    |     |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |
| 12 | 09                     | 05 | 05 | 01 |    |    |    |    |    |    |     |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |
| 14 | 08                     | 04 | 04 | 00 | 04 | 00 |    |    |    |    |     |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |
| 16 | 07                     | 03 | 03 | 10 | 03 | 10 | 10 | 06 |    |    |     |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |
| 18 | 06                     | 02 | 02 | 09 | 02 | 09 | 09 | 05 | 00 | 07 |     |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |
| 20 | 05                     | 01 | 01 | 08 | 01 | 08 | 08 | 04 | 10 | 06 |     |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |
| 22 | 04                     | 00 | 00 | 07 | 00 | 07 | 07 | 03 | 06 | 02 | 03  | 10 | 03      | 10 |         |    |         |    |         |    |         |    |         |    |         |    |
| 24 | 03                     | 10 | 07 | 03 | 10 | 06 | 06 | 02 | 05 | 01 | 02  | 09 | 02      | 09 | 01      | 08 |         |    |         |    |         |    |         |    |         |    |
| 26 | 02                     | 09 | 06 | 02 | 09 | 05 | 05 | 01 | 04 | 00 | 01  | 08 | 01      | 08 | 00      | 07 | 01      | 08 |         |    |         |    |         |    |         |    |
| 28 | 09                     | 05 | 05 | 01 | 08 | 04 | 04 | 00 | 03 | 10 | 00  | 07 | 00      | 07 | 10      | 06 | 00      | 07 | 06      | 02 |         |    |         |    |         |    |
| 30 | 08                     | 04 | 04 | 00 | 07 | 03 | 03 | 10 | 02 | 09 | 10  | 06 | 07      | 03 | 09      | 05 | 10      | 06 | 05      | 01 | 06      | 02 |         |    |         |    |
| 32 |                        |    | 03 | 10 | 03 | 10 | 10 | 06 | 01 | 08 | 09  | 05 | 06      | 02 | 08      | 04 | 09      | 05 | 04      | 00 | 05      | 01 | 02      | 09 |         |    |
| 34 |                        |    | 02 | 09 | 02 | 09 | 09 | 05 | 00 | 07 | 08  | 04 | 05      | 01 | 07      | 03 | 08      | 04 | 00      | 07 | 01      | 08 | 01      | 08 | 04      | 00 |
| 36 |                        |    | 01 | 08 | 01 | 08 | 08 | 04 | 10 | 06 | 04  | 00 | 04      | 00 | 03      | 10 | 04      | 00 | 10      | 06 | 00      | 07 | 08      | 04 | 03      | 10 |
| 38 |                        |    | 00 | 07 | 00 | 07 | 07 | 03 | 09 | 05 | 03  | 10 | 03      | 10 | 02      | 09 | 03      | 10 | 09      | 05 | 10      | 06 | 07      | 03 | 02      | 09 |
| 40 |                        |    | 10 | 06 | 10 | 06 | 06 | 02 | 08 | 04 | 02  | 09 | 02      | 09 | 01      | 08 | 02      | 09 | 08      | 04 | 09      | 05 | 06      | 02 | 09      | 05 |
| 42 |                        |    |    |    | 09 | 05 | 05 | 01 | 10 | 06 | 01  | 08 | 01      | 08 | 00      | 07 | 01      | 08 | 07      | 03 | 08      | 04 | 05      | 01 | 08      | 04 |
| 44 |                        |    |    |    | 08 | 04 | 04 | 00 | 09 | 05 | 00  | 07 | 00      | 07 | 10      | 06 | 00      | 07 | 06      | 02 | 07      | 03 | 04      | 00 | 07      | 03 |
| 46 |                        |    |    |    | 07 | 03 | 03 | 10 | 08 | 04 | 10  | 06 | 10      | 06 | 09      | 05 | 10      | 06 | 05      | 01 | 06      | 02 | 03      | 10 | 06      | 02 |
| 48 |                        |    |    |    | 06 | 02 | 02 | 09 | 07 | 03 | 09  | 05 | 09      | 05 | 08      | 04 | 09      | 05 | 04      | 00 | 05      | 01 | 02      | 09 | 05      | 01 |
| 50 |                        |    |    |    | 05 | 01 | 01 | 08 | 06 | 02 | 08  | 04 | 05      | 01 | 07      | 03 | 08      | 04 | 03      | 10 | 04      | 00 | 01      | 08 | 04      | 00 |
| 52 |                        |    |    |    |    |    | 08 | 04 | 05 | 01 | 07  | 03 | 04      | 00 | 06      | 02 | 07      | 03 | 02      | 09 | 03      | 10 | 00      | 07 | 03      | 10 |

Продолжение табл. 5

| L  | d                      |   |    |   |    |   |    |    |    |    |     |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |    |    |    |
|----|------------------------|---|----|---|----|---|----|----|----|----|-----|----|---------|----|---------|----|---------|----|---------|----|---------|----|---------|----|---------|----|----|----|----|
|    | M3                     |   | M4 |   | M5 |   | M6 |    | M8 |    | M10 |    | M12x1,5 |    | M14x1,5 |    | M16x1,5 |    | M18x1,5 |    | M20x1,5 |    | M22x1,5 |    | M24x1,5 |    |    |    |    |
|    | Контрольные числа (КЧ) |   |    |   |    |   |    |    |    |    |     |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |    |    |    |
|    | 1                      | 2 | 1  | 2 | 1  | 2 | 1  | 2  | 1  | 2  | 1   | 2  | 1       | 2  | 1       | 2  | 1       | 2  | 1       | 2  | 1       | 2  | 1       | 2  | 1       | 2  | 1  | 2  |    |
| 54 |                        |   |    |   |    |   | 07 | 03 | 04 | 00 | 06  | 02 | 03      | 10 | 05      | 01 | 06      | 02 | 09      | 05 | 10      | 06 | 10      | 06 | 02      | 09 | 05 | 01 | 08 |
| 56 |                        |   |    |   |    |   | 06 | 02 | 03 | 10 | 02  | 09 | 02      | 09 | 01      | 08 | 02      | 09 | 08      | 04 | 09      | 05 | 06      | 02 | 01      | 08 |    |    |    |
| 58 |                        |   |    |   |    |   | 05 | 01 | 02 | 09 | 01  | 08 | 01      | 08 | 00      | 07 | 01      | 08 | 07      | 03 | 08      | 04 | 05      | 01 | 00      | 07 |    |    |    |
| 60 |                        |   |    |   |    |   | 04 | 00 | 01 | 08 | 00  | 07 | 00      | 07 | 10      | 06 | 00      | 07 | 06      | 02 | 07      | 03 | 04      | 00 | 07      | 03 |    |    |    |
| 62 |                        |   |    |   |    |   | 03 | 10 | 08 | 04 | 10  | 06 | 10      | 06 | 09      | 05 | 10      | 06 | 05      | 01 | 06      | 02 | 03      | 10 | 06      | 02 |    |    |    |
| 64 |                        |   |    |   |    |   |    |    | 07 | 03 | 09  | 05 | 09      | 05 | 08      | 04 | 09      | 05 | 04      | 00 | 05      | 01 | 02      | 09 | 05      | 01 |    |    |    |
| 66 |                        |   |    |   |    |   |    |    | 06 | 02 | 08  | 04 | 08      | 04 | 07      | 03 | 08      | 04 | 03      | 10 | 04      | 00 | 01      | 08 | 04      | 00 |    |    |    |
| 68 |                        |   |    |   |    |   |    |    | 05 | 01 | 07  | 03 | 07      | 03 | 06      | 02 | 07      | 03 | 02      | 09 | 03      | 10 | 00      | 07 | 03      | 10 |    |    |    |
| 70 |                        |   |    |   |    |   |    |    | 04 | 00 | 06  | 02 | 03      | 10 | 05      | 01 | 06      | 02 | 01      | 08 | 02      | 09 | 10      | 06 | 02      | 09 |    |    |    |
| 72 |                        |   |    |   |    |   |    |    | 03 | 10 | 05  | 01 | 02      | 09 | 04      | 00 | 05      | 01 | 00      | 07 | 01      | 08 | 09      | 05 | 01      | 08 |    |    |    |
| 74 |                        |   |    |   |    |   |    |    | 02 | 09 | 04  | 00 | 01      | 08 | 03      | 10 | 04      | 00 | 07      | 03 | 08      | 04 | 08      | 04 | 00      | 07 |    |    |    |
| 76 |                        |   |    |   |    |   |    |    | 01 | 08 | 00  | 07 | 00      | 07 | 10      | 06 | 00      | 07 | 06      | 02 | 07      | 03 | 04      | 00 | 10      | 06 |    |    |    |
| 78 |                        |   |    |   |    |   |    |    | 00 | 07 | 10  | 06 | 10      | 06 | 09      | 05 | 10      | 06 | 05      | 01 | 06      | 02 | 03      | 10 | 09      | 05 |    |    |    |
| 80 |                        |   |    |   |    |   |    |    | 10 | 06 | 09  | 05 | 09      | 05 | 08      | 04 | 09      | 05 | 04      | 00 | 03      | 01 | 02      | 09 | 05      | 01 |    |    |    |
| 82 |                        |   |    |   |    |   |    |    | 06 | 02 | 08  | 04 | 06      | 04 | 07      | 03 | 06      | 04 | 03      | 10 | 04      | 00 | 01      | 08 | 04      | 00 |    |    |    |
| 84 |                        |   |    |   |    |   |    |    |    |    | 07  | 03 | 07      | 03 | 06      | 02 | 07      | 03 | 02      | 09 | 03      | 10 | 00      | 07 | 03      | 10 |    |    |    |
| 86 |                        |   |    |   |    |   |    |    |    |    | 06  | 02 | 06      | 02 | 05      | 01 | 06      | 02 | 01      | 08 | 02      | 09 | 10      | 06 | 02      | 09 |    |    |    |
| 88 |                        |   |    |   |    |   |    |    |    |    | 05  | 01 | 05      | 01 | 04      | 00 | 05      | 01 | 00      | 07 | 01      | 08 | 09      | 05 | 01      | 08 |    |    |    |
| 90 |                        |   |    |   |    |   |    |    |    |    | 04  | 00 | 07      | 03 | 03      | 10 | 04      | 00 | 10      | 06 | 00      | 07 | 08      | 04 | 00      | 07 |    |    |    |
| 92 |                        |   |    |   |    |   |    |    |    |    | 03  | 10 | 06      | 02 | 02      | 09 | 03      | 10 | 09      | 05 | 10      | 06 | 07      | 03 | 10      | 06 |    |    |    |
| 94 |                        |   |    |   |    |   |    |    |    |    | 02  | 09 | 05      | 01 | 01      | 08 | 02      | 09 | 05      | 01 | 01      | 08 | 06      | 02 | 09      | 05 |    |    |    |
| 96 |                        |   |    |   |    |   |    |    |    |    | 09  | 05 | 04      | 00 | 08      | 04 | 04      | 00 | 04      | 00 | 00      | 07 | 02      | 09 | 08      | 04 |    |    |    |



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|-----|------------------------|----|----|----|----|-----|---------|---------|---------|---------|---------|---------|---------|
|     | M3                     | M4 | M5 | M6 | M8 | M10 | M12x1,5 | M14x1,5 | M16x1,5 | M18x1,5 | M20x1,5 | M22x1,5 | M24x1,5 |
|     | Контрольные числа (КЧ) |    |    |    |    |     |         |         |         |         |         |         |         |
| 56  |                        |    |    | 03 | 00 | 10  | 10      | 09      | 10      | 05      | 06      | 03      | 09      |
| 58  |                        |    |    | 02 | 10 | 09  | 09      | 08      | 09      | 04      | 05      | 02      | 08      |
| 60  |                        |    |    | 01 | 09 | 08  | 08      | 07      | 08      | 03      | 04      | 01      | 04      |
| 62  |                        |    |    | 00 | 05 | 07  | 07      | 06      | 07      | 02      | 03      | 00      | 03      |
| 64  |                        |    |    |    | 04 | 06  | 06      | 05      | 06      | 01      | 02      | 10      | 02      |
| 66  |                        |    |    |    | 03 | 05  | 05      | 04      | 05      | 00      | 01      | 09      | 01      |
| 68  |                        |    |    |    | 02 | 04  | 04      | 03      | 04      | 10      | 00      | 08      | 00      |
| 70  |                        |    |    |    | 01 | 03  | 00      | 02      | 03      | 09      | 10      | 07      | 10      |
| 72  |                        |    |    |    | 00 | 02  | 10      | 01      | 02      | 08      | 09      | 06      | 09      |
| 74  |                        |    |    |    | 10 | 01  | 09      | 00      | 01      | 04      | 05      | 05      | 08      |
| 76  |                        |    |    |    | 09 | 08  | 08      | 07      | 08      | 03      | 04      | 01      | 07      |
| 78  |                        |    |    |    | 08 | 07  | 07      | 06      | 07      | 02      | 03      | 00      | 06      |
| 80  |                        |    |    |    | 07 | 06  | 06      | 05      | 06      | 01      | 02      | 10      | 02      |
| 82  |                        |    |    |    | 03 | 05  | 05      | 04      | 05      | 00      | 01      | 09      | 01      |
| 84  |                        |    |    |    |    | 04  | 04      | 03      | 04      | 10      | 00      | 08      | 00      |
| 86  |                        |    |    |    |    | 03  | 03      | 02      | 03      | 09      | 10      | 07      | 10      |
| 88  |                        |    |    |    |    | 02  | 02      | 01      | 02      | 08      | 09      | 06      | 09      |
| 90  |                        |    |    |    |    | 01  | 04      | 00      | 01      | 07      | 08      | 05      | 08      |
| 92  |                        |    |    |    |    | 00  | 03      | 10      | 00      | 06      | 07      | 04      | 07      |
| 94  |                        |    |    |    |    | 10  | 02      | 09      | 10      | 02      | 09      | 03      | 06      |
| 96  |                        |    |    |    |    | 06  | 01      | 05      | 01      | 01      | 08      | 10      | 05      |
| 98  |                        |    |    |    |    | 05  | 00      | 04      | 00      | 00      | 07      | 09      | 04      |
| 100 |                        |    |    |    |    | 04  | 10      | 03      | 10      | 10      | 06      | 08      | 06      |



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|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|---------|----|----|----|---------|----|----|----|---------|----|----|----|---------|----|----|----|
|    | M5  |    |    |    | M6  |    |    |    | M8  |    |    |    | M10 |    |    |    | M12x1,5 |    |    |    | M14x1,5 |    |    |    | M16x1,5 |    |    |    | M18x1,5 |    |    |    |
|    | XXX | KЧ |    |    | XXX | KЧ |    |    | XXX | KЧ |    |    | XXX | KЧ |    |    | XXX     | KЧ |    |    | XXX     | KЧ |    |    | XXX     | KЧ |    |    | XXX     | KЧ |    |    |
|    |     | 1  | 2  | 3  |     | 1  | 2  | 3  |     | 1  | 2  | 3  |     | 1  | 2  | 3  |         | 1  | 2  | 3  |         | 1  | 2  | 3  |         | 1  | 2  | 3  |         | 1  | 2  | 3  |
| 14 | 041 | 06 | 02 | 09 |     |    |    |    |     |    |    |    |     |    |    |    |         |    |    |    |         |    |    |    |         |    |    |    |         |    |    |    |
| 16 | 042 | 05 | 01 | 08 | 062 | 01 | 08 | 04 |     |    |    |    |     |    |    |    |         |    |    |    |         |    |    |    |         |    |    |    |         |    |    |    |
| 18 | 043 | 04 | 00 | 07 | 063 | 00 | 07 | 03 | 088 | 02 | 09 | 05 |     |    |    |    |         |    |    |    |         |    |    |    |         |    |    |    |         |    |    |    |
| 20 | 044 | 03 | 10 | 06 | 064 | 10 | 06 | 02 | 089 | 01 | 08 | 04 |     |    |    |    |         |    |    |    |         |    |    |    |         |    |    |    |         |    |    |    |
| 22 | 045 | 02 | 09 | 05 | 065 | 09 | 05 | 01 | 090 | 08 | 04 | 00 | 123 | 05 | 01 | 08 | 166     | 05 | 01 | 08 |         |    |    |    |         |    |    |    |         |    |    |    |
| 24 | 046 | 01 | 08 | 04 | 066 | 08 | 04 | 00 | 091 | 07 | 03 | 10 | 124 | 04 | 00 | 07 | 167     | 04 | 00 | 07 | 214     | 03 | 10 | 06 |         |    |    |    |         |    |    |    |
| 26 | 047 | 00 | 07 | 03 | 067 | 07 | 03 | 10 | 092 | 06 | 02 | 09 | 125 | 03 | 10 | 06 | 168     | 03 | 10 | 06 | 215     | 02 | 09 | 05 | 265     | 03 | 10 | 06 |         |    |    |    |
| 28 | 048 | 10 | 06 | 02 | 068 | 06 | 02 | 09 | 083 | 05 | 01 | 08 | 126 | 02 | 09 | 05 | 169     | 02 | 09 | 05 | 216     | 01 | 08 | 04 | 266     | 02 | 08 | 05 | 317     | 08 | 04 | 00 |
| 30 | 049 | 09 | 05 | 01 | 069 | 05 | 01 | 08 | 094 | 04 | 00 | 07 | 127 | 01 | 08 | 04 | 170     | 09 | 05 | 01 | 217     | 00 | 07 | 03 | 267     | 01 | 08 | 04 | 318     | 07 | 03 | 10 |
| 32 | 050 | 05 | 01 | 08 | 070 | 01 | 08 | 04 | 095 | 03 | 10 | 06 | 128 | 00 | 07 | 03 | 171     | 08 | 04 | 00 | 218     | 10 | 06 | 02 | 268     | 00 | 07 | 03 | 319     | 06 | 02 | 09 |
| 34 | 051 | 04 | 00 | 07 | 071 | 00 | 07 | 03 | 096 | 02 | 09 | 05 | 129 | 10 | 06 | 02 | 172     | 07 | 03 | 10 | 219     | 09 | 05 | 01 | 269     | 10 | 06 | 02 | 320     | 02 | 09 | 05 |
| 36 | 052 | 03 | 10 | 06 | 072 | 10 | 06 | 02 | 097 | 01 | 08 | 04 | 130 | 06 | 02 | 09 | 173     | 06 | 02 | 09 | 220     | 05 | 01 | 08 | 270     | 06 | 02 | 09 | 321     | 01 | 08 | 04 |
| 38 | 053 | 02 | 09 | 05 | 073 | 09 | 05 | 01 | 098 | 00 | 07 | 03 | 131 | 05 | 01 | 08 | 174     | 05 | 01 | 08 | 221     | 04 | 00 | 07 | 271     | 05 | 01 | 08 | 322     | 00 | 07 | 03 |
| 40 | 054 | 01 | 08 | 04 | 074 | 08 | 04 | 00 | 099 | 10 | 06 | 02 | 132 | 04 | 00 | 07 | 175     | 04 | 00 | 07 | 222     | 03 | 10 | 06 | 272     | 04 | 00 | 07 | 323     | 10 | 06 | 02 |
| 42 | 055 | 00 | 07 | 03 | 075 | 07 | 03 | 10 | 100 | 01 | 08 | 04 | 133 | 03 | 10 | 06 | 176     | 03 | 10 | 06 | 223     | 02 | 09 | 05 | 273     | 03 | 10 | 06 | 324     | 09 | 05 | 01 |
| 44 | 056 | 10 | 06 | 02 | 076 | 06 | 02 | 09 | 101 | 00 | 07 | 03 | 134 | 02 | 09 | 05 | 177     | 02 | 09 | 05 | 224     | 01 | 08 | 04 | 274     | 02 | 09 | 05 | 325     | 08 | 04 | 00 |
| 46 | 057 | 09 | 05 | 01 | 077 | 05 | 01 | 08 | 102 | 10 | 06 | 02 | 135 | 01 | 08 | 04 | 178     | 01 | 08 | 04 | 225     | 00 | 07 | 03 | 275     | 01 | 08 | 04 | 326     | 07 | 03 | 10 |
| 48 | 058 | 08 | 04 | 00 | 078 | 04 | 00 | 07 | 103 | 09 | 05 | 01 | 136 | 00 | 07 | 03 | 179     | 00 | 07 | 03 | 226     | 10 | 06 | 02 | 276     | 00 | 07 | 03 | 327     | 06 | 02 | 09 |
| 50 | 059 | 07 | 03 | 10 | 079 | 03 | 10 | 06 | 104 | 08 | 04 | 00 | 137 | 10 | 06 | 02 | 180     | 07 | 03 | 10 | 227     | 09 | 05 | 01 | 277     | 10 | 08 | 02 | 328     | 05 | 01 | 08 |
| 52 |     |    |    |    | 080 | 10 | 06 | 02 | 105 | 07 | 03 | 10 | 138 | 09 | 05 | 01 | 181     | 06 | 02 | 09 | 228     | 08 | 04 | 00 | 278     | 09 | 05 | 01 | 329     | 04 | 00 | 07 |
| 54 |     |    |    |    | 081 | 09 | 05 | 01 | 106 | 06 | 02 | 09 | 139 | 08 | 04 | 00 | 182     | 05 | 01 | 08 | 229     | 07 | 03 | 10 | 279     | 08 | 04 | 00 | 330     | 00 | 07 | 03 |
| 56 |     |    |    |    | 082 | 08 | 04 | 00 | 107 | 05 | 01 | 08 | 140 | 04 | 00 | 07 | 183     | 04 | 00 | 07 | 230     | 03 | 10 | 06 | 280     | 04 | 00 | 07 | 331     | 10 | 06 | 02 |





Продолжение табл. 7

| L   | d   |    |   |   |     |    |   |   |     |    |   |     |     |    |    |     |         |    |    |     |         |    |    |     |         |    |    |     |         |    |    |   |
|-----|-----|----|---|---|-----|----|---|---|-----|----|---|-----|-----|----|----|-----|---------|----|----|-----|---------|----|----|-----|---------|----|----|-----|---------|----|----|---|
|     | M5  |    |   |   | M6  |    |   |   | M8  |    |   |     | M10 |    |    |     | M12x1,5 |    |    |     | M14x1,5 |    |    |     | M16x1,5 |    |    |     | M18x1,5 |    |    |   |
|     | XXX | KЧ |   |   | XXX | KЧ |   |   | XXX | KЧ |   |     | XXX | KЧ |    |     | XXX     | KЧ |    |     | XXX     | KЧ |    |     | XXX     | KЧ |    |     | XXX     | KЧ |    |   |
|     |     | 1  | 2 | 3 |     | 1  | 2 | 3 |     | 1  | 2 | 3   |     | 1  | 2  | 3   |         | 1  | 2  | 3   |         | 1  | 2  | 3   |         | 1  | 2  | 3   |         | 1  | 2  | 3 |
| 104 |     |    |   |   |     |    |   |   |     |    |   | 163 | 08  | 04 | 00 | 206 | 03      | 10 | 06 | 253 | 07      | 03 | 10 | 303 | 03      | 10 | 06 | 354 | 03      | 10 | 06 |   |
| 108 |     |    |   |   |     |    |   |   |     |    |   |     |     |    |    | 207 | 02      | 09 | 05 | 254 | 06      | 02 | 09 | 304 | 02      | 09 | 05 | 355 | 02      | 09 | 05 |   |
| 112 |     |    |   |   |     |    |   |   |     |    |   |     |     |    |    | 208 | 01      | 08 | 04 | 255 | 05      | 01 | 08 | 305 | 01      | 08 | 04 | 356 | 01      | 08 | 04 |   |
| 116 |     |    |   |   |     |    |   |   |     |    |   |     |     |    |    | 209 | 00      | 07 | 03 | 256 | 04      | 00 | 07 | 306 | 00      | 07 | 03 | 357 | 00      | 07 | 03 |   |
| 120 |     |    |   |   |     |    |   |   |     |    |   |     |     |    |    | 210 | 07      | 03 | 10 | 257 | 03      | 10 | 06 | 307 | 10      | 06 | 02 | 358 | 10      | 06 | 02 |   |
| 124 |     |    |   |   |     |    |   |   |     |    |   |     |     |    |    | 211 | 06      | 02 | 09 | 258 | 02      | 09 | 05 | 308 | 09      | 05 | 01 | 359 | 09      | 05 | 01 |   |
| 128 |     |    |   |   |     |    |   |   |     |    |   |     |     |    |    |     |         |    |    | 259 | 01      | 08 | 04 | 309 | 08      | 04 | 00 | 360 | 05      | 01 | 08 |   |
| 132 |     |    |   |   |     |    |   |   |     |    |   |     |     |    |    |     |         |    |    | 260 | 08      | 04 | 00 | 310 | 04      | 00 | 07 | 361 | 04      | 00 | 07 |   |
| 136 |     |    |   |   |     |    |   |   |     |    |   |     |     |    |    |     |         |    |    | 261 | 07      | 03 | 10 | 311 | 03      | 10 | 06 | 362 | 03      | 10 | 06 |   |
| 140 |     |    |   |   |     |    |   |   |     |    |   |     |     |    |    |     |         |    |    | 262 | 06      | 02 | 09 | 312 | 02      | 09 | 05 | 363 | 02      | 09 | 05 |   |
| 144 |     |    |   |   |     |    |   |   |     |    |   |     |     |    |    |     |         |    |    |     |         |    |    | 313 | 01      | 08 | 04 | 364 | 01      | 08 | 04 |   |
| 148 |     |    |   |   |     |    |   |   |     |    |   |     |     |    |    |     |         |    |    |     |         |    |    | 314 | 00      | 07 | 03 | 365 | 00      | 07 | 03 |   |

Т а б л и ц а 8

| L  | d   |    |    |     |    |    |     |    |    |     |    |    |         |    |    |         |    |    |         |    |    |         |    |    |         |    |    |         |    |    |         |    |    |
|----|-----|----|----|-----|----|----|-----|----|----|-----|----|----|---------|----|----|---------|----|----|---------|----|----|---------|----|----|---------|----|----|---------|----|----|---------|----|----|
|    | M5  |    |    | M6  |    |    | M8  |    |    | M10 |    |    | M12x1,5 |    |    | M14x1,5 |    |    | M16x1,5 |    |    | M18x1,5 |    |    | M20x1,5 |    |    | M22x1,5 |    |    | M24x1,5 |    |    |
|    | XXX | KЧ |    | XXX | KЧ |    | XXX | KЧ |    | XXX | KЧ |    | XXX     | KЧ |    | XXX     | KЧ |    | XXX     | KЧ |    | XXX     | KЧ |    | XXX     | KЧ |    | XXX     | KЧ |    | XXX     | KЧ |    |
|    |     | 1  | 2  |     | 1  | 2  |     | 1  | 2  |     | 1  | 2  |         | 1  | 2  |         | 1  | 2  |         | 1  | 2  |         | 1  | 2  |         | 1  | 2  |         | 1  | 2  |         | 1  | 2  |
| 14 | 041 | 03 | 10 |     |    |    |     |    |    |     |    |    |         |    |    |         |    |    |         |    |    |         |    |    |         |    |    |         |    |    |         |    |    |
| 16 | 042 | 02 | 09 | 062 | 09 | 05 |     |    |    |     |    |    |         |    |    |         |    |    |         |    |    |         |    |    |         |    |    |         |    |    |         |    |    |
| 18 | 043 | 01 | 08 | 063 | 08 | 04 | 088 | 10 | 06 |     |    |    |         |    |    |         |    |    |         |    |    |         |    |    |         |    |    |         |    |    |         |    |    |
| 20 | 044 | 00 | 07 | 064 | 07 | 03 | 089 | 09 | 05 |     |    |    |         |    |    |         |    |    |         |    |    |         |    |    |         |    |    |         |    |    |         |    |    |
| 22 | 045 | 10 | 06 | 065 | 06 | 02 | 090 | 05 | 01 | 123 | 02 | 09 | 166     | 02 | 09 |         |    |    |         |    |    |         |    |    |         |    |    |         |    |    |         |    |    |
| 24 | 046 | 09 | 05 | 066 | 05 | 01 | 091 | 04 | 00 | 124 | 01 | 08 | 167     | 01 | 08 | 214     | 00 | 07 |         |    |    |         |    |    |         |    |    |         |    |    |         |    |    |
| 26 | 047 | 08 | 04 | 067 | 04 | 00 | 092 | 03 | 10 | 125 | 00 | 07 | 168     | 00 | 07 | 215     | 10 | 06 | 265     | 00 | 07 |         |    |    |         |    |    |         |    |    |         |    |    |
| 28 | 048 | 07 | 03 | 068 | 03 | 10 | 093 | 02 | 09 | 126 | 10 | 06 | 169     | 10 | 06 | 216     | 09 | 05 | 266     | 10 | 06 | 317     | 05 | 01 |         |    |    |         |    |    |         |    |    |
| 30 | 049 | 06 | 02 | 069 | 02 | 09 | 094 | 01 | 08 | 127 | 09 | 05 | 170     | 06 | 02 | 217     | 08 | 04 | 267     | 09 | 05 | 318     | 04 | 00 | 368     | 05 | 01 |         |    |    |         |    |    |
| 32 | 050 | 02 | 09 | 070 | 09 | 05 | 095 | 00 | 07 | 128 | 08 | 04 | 171     | 05 | 01 | 218     | 07 | 03 | 268     | 08 | 04 | 319     | 03 | 10 | 369     | 04 | 00 | 418     | 01 | 08 |         |    |    |
| 34 | 051 | 01 | 08 | 071 | 08 | 04 | 096 | 10 | 06 | 129 | 07 | 03 | 172     | 04 | 00 | 219     | 06 | 02 | 269     | 07 | 03 | 320     | 10 | 06 | 370     | 00 | 07 | 419     | 00 | 07 | 467     | 03 | 10 |
| 36 | 052 | 00 | 07 | 072 | 07 | 03 | 097 | 09 | 05 | 130 | 03 | 10 | 173     | 03 | 10 | 220     | 02 | 09 | 270     | 03 | 10 | 321     | 09 | 05 | 371     | 10 | 06 | 420     | 07 | 03 | 468     | 02 | 09 |
| 38 | 053 | 10 | 06 | 073 | 06 | 02 | 098 | 08 | 04 | 131 | 02 | 09 | 174     | 02 | 09 | 221     | 01 | 08 | 271     | 02 | 09 | 322     | 08 | 04 | 372     | 09 | 05 | 421     | 06 | 02 | 469     | 01 | 08 |
| 40 | 054 | 09 | 05 | 074 | 05 | 01 | 099 | 07 | 03 | 132 | 01 | 08 | 175     | 01 | 08 | 222     | 00 | 07 | 272     | 01 | 08 | 323     | 07 | 03 | 373     | 08 | 04 | 422     | 05 | 01 | 470     | 08 | 04 |
| 42 | 055 | 08 | 04 | 075 | 04 | 00 | 100 | 09 | 05 | 133 | 00 | 07 | 176     | 00 | 07 | 223     | 10 | 06 | 273     | 00 | 07 | 324     | 06 | 02 | 374     | 07 | 03 | 423     | 04 | 00 | 471     | 07 | 03 |
| 44 | 056 | 07 | 03 | 076 | 03 | 10 | 101 | 08 | 04 | 134 | 10 | 06 | 177     | 10 | 06 | 224     | 09 | 05 | 274     | 10 | 06 | 325     | 05 | 01 | 375     | 06 | 02 | 424     | 03 | 10 | 472     | 06 | 02 |
| 46 | 057 | 06 | 02 | 077 | 02 | 09 | 102 | 07 | 03 | 135 | 09 | 05 | 178     | 09 | 05 | 225     | 08 | 04 | 275     | 09 | 05 | 326     | 04 | 00 | 376     | 05 | 01 | 425     | 02 | 09 | 473     | 05 | 01 |
| 48 | 058 | 05 | 01 | 078 | 01 | 08 | 103 | 06 | 02 | 136 | 08 | 04 | 179     | 08 | 04 | 226     | 07 | 03 | 276     | 08 | 04 | 327     | 03 | 10 | 377     | 04 | 00 | 426     | 01 | 08 | 474     | 04 | 00 |
| 50 | 059 | 04 | 00 | 079 | 00 | 07 | 104 | 05 | 01 | 137 | 07 | 03 | 180     | 04 | 00 | 227     | 06 | 02 | 277     | 07 | 03 | 328     | 02 | 09 | 378     | 03 | 10 | 427     | 00 | 07 | 475     | 03 | 10 |
| 52 |     |    |    | 080 | 07 | 03 | 105 | 04 | 00 | 138 | 06 | 02 | 181     | 03 | 10 | 228     | 05 | 01 | 278     | 06 | 02 | 329     | 01 | 08 | 379     | 02 | 09 | 428     | 10 | 06 | 476     | 02 | 09 |
| 54 |     |    |    | 081 | 06 | 02 | 106 | 03 | 10 | 139 | 05 | 01 | 182     | 02 | 09 | 229     | 04 | 00 | 279     | 05 | 01 | 330     | 08 | 04 | 380     | 09 | 05 | 429     | 09 | 05 | 477     | 01 | 08 |
| 56 |     |    |    | 082 | 05 | 01 | 107 | 02 | 09 | 140 | 01 | 08 | 183     | 01 | 08 | 230     | 00 | 07 | 280     | 01 | 08 | 331     | 07 | 03 | 381     | 08 | 04 | 430     | 05 | 01 | 478     | 00 | 07 |

Продолжение табл.8

| L   | d   |    |   |     |    |    |     |    |    |     |    |    |         |    |    |         |    |    |         |    |    |         |    |    |         |    |    |         |    |    |         |    |    |
|-----|-----|----|---|-----|----|----|-----|----|----|-----|----|----|---------|----|----|---------|----|----|---------|----|----|---------|----|----|---------|----|----|---------|----|----|---------|----|----|
|     | M5  |    |   | M6  |    |    | M8  |    |    | M10 |    |    | M12x1,5 |    |    | M14x1,5 |    |    | M16x1,5 |    |    | M18x1,5 |    |    | M20x1,5 |    |    | M22x1,5 |    |    | M24x1,5 |    |    |
|     | XXX | KЧ |   | XXX | KЧ |    | XXX | KЧ |    | XXX | KЧ |    | XXX     | KЧ |    | XXX     | KЧ |    | XXX     | KЧ |    | XXX     | KЧ |    | XXX     | KЧ |    | XXX     | KЧ |    | XXX     | KЧ |    |
|     |     | 1  | 2 |     | 1  | 2  |     | 1  | 2  |     | 1  | 2  |         | 1  | 2  |         | 1  | 2  |         | 1  | 2  |         | 1  | 2  |         | 1  | 2  |         | 1  | 2  |         | 1  | 2  |
| 58  |     |    |   | 083 | 04 | 00 | 108 | 01 | 08 | 141 | 00 | 07 | 184     | 00 | 07 | 231     | 10 | 06 | 281     | 00 | 07 | 332     | 06 | 02 | 382     | 07 | 03 | 431     | 04 | 00 | 479     | 10 | 06 |
| 60  |     |    |   | 084 | 03 | 10 | 109 | 00 | 07 | 142 | 10 | 06 | 185     | 10 | 06 | 232     | 09 | 05 | 282     | 10 | 06 | 333     | 05 | 01 | 383     | 06 | 02 | 432     | 03 | 10 | 480     | 06 | 02 |
| 62  |     |    |   | 085 | 02 | 09 | 110 | 07 | 03 | 143 | 09 | 05 | 186     | 09 | 05 | 233     | 08 | 04 | 283     | 09 | 05 | 334     | 04 | 00 | 384     | 05 | 01 | 433     | 02 | 09 | 481     | 05 | 01 |
| 64  |     |    |   |     |    |    | 111 | 06 | 02 | 144 | 08 | 04 | 187     | 08 | 04 | 234     | 07 | 03 | 284     | 08 | 04 | 335     | 03 | 10 | 385     | 04 | 00 | 434     | 01 | 08 | 482     | 04 | 00 |
| 66  |     |    |   |     |    |    | 112 | 05 | 01 | 145 | 07 | 03 | 188     | 07 | 03 | 235     | 06 | 02 | 285     | 07 | 03 | 336     | 02 | 09 | 386     | 03 | 10 | 435     | 00 | 07 | 483     | 03 | 10 |
| 68  |     |    |   |     |    |    | 113 | 04 | 00 | 146 | 06 | 02 | 189     | 06 | 02 | 236     | 05 | 01 | 286     | 06 | 02 | 337     | 01 | 08 | 387     | 02 | 09 | 436     | 10 | 06 | 484     | 02 | 09 |
| 70  |     |    |   |     |    |    | 114 | 03 | 10 | 147 | 05 | 01 | 190     | 02 | 09 | 237     | 04 | 00 | 287     | 05 | 01 | 338     | 00 | 07 | 388     | 01 | 08 | 437     | 09 | 05 | 485     | 01 | 08 |
| 72  |     |    |   |     |    |    | 115 | 02 | 09 | 148 | 04 | 00 | 191     | 01 | 08 | 238     | 03 | 10 | 288     | 04 | 00 | 339     | 10 | 06 | 389     | 00 | 07 | 438     | 08 | 04 | 486     | 00 | 07 |
| 74  |     |    |   |     |    |    | 116 | 01 | 08 | 149 | 03 | 10 | 192     | 00 | 07 | 239     | 02 | 09 | 289     | 03 | 10 | 340     | 06 | 02 | 390     | 07 | 03 | 439     | 07 | 03 | 487     | 10 | 06 |
| 76  |     |    |   |     |    |    | 117 | 00 | 07 | 150 | 10 | 06 | 193     | 10 | 06 | 240     | 09 | 05 | 290     | 10 | 06 | 341     | 05 | 01 | 391     | 06 | 02 | 440     | 03 | 10 | 488     | 09 | 05 |
| 78  |     |    |   |     |    |    | 118 | 10 | 06 | 151 | 09 | 05 | 194     | 09 | 05 | 241     | 08 | 04 | 291     | 09 | 05 | 342     | 04 | 00 | 392     | 05 | 01 | 441     | 02 | 09 | 489     | 08 | 04 |
| 80  |     |    |   |     |    |    | 119 | 09 | 05 | 152 | 08 | 04 | 195     | 08 | 04 | 242     | 07 | 03 | 292     | 08 | 04 | 343     | 03 | 10 | 393     | 04 | 00 | 442     | 01 | 08 | 490     | 04 | 00 |
| 82  |     |    |   |     |    |    | 120 | 05 | 01 | 153 | 07 | 03 | 196     | 07 | 03 | 243     | 06 | 02 | 293     | 07 | 03 | 344     | 02 | 09 | 394     | 03 | 10 | 443     | 00 | 07 | 491     | 03 | 10 |
| 84  |     |    |   |     |    |    |     |    |    | 154 | 06 | 02 | 197     | 06 | 02 | 244     | 05 | 01 | 294     | 06 | 02 | 345     | 01 | 08 | 395     | 02 | 09 | 444     | 10 | 06 | 492     | 02 | 09 |
| 86  |     |    |   |     |    |    |     |    |    | 155 | 05 | 01 | 198     | 05 | 01 | 245     | 04 | 00 | 295     | 05 | 01 | 346     | 00 | 07 | 396     | 01 | 08 | 445     | 09 | 05 | 493     | 01 | 08 |
| 88  |     |    |   |     |    |    |     |    |    | 156 | 04 | 00 | 199     | 04 | 00 | 246     | 03 | 10 | 296     | 04 | 00 | 347     | 10 | 06 | 397     | 00 | 07 | 446     | 08 | 04 | 494     | 00 | 07 |
| 90  |     |    |   |     |    |    |     |    |    | 157 | 03 | 10 | 200     | 06 | 02 | 247     | 02 | 09 | 297     | 03 | 10 | 348     | 09 | 05 | 398     | 10 | 06 | 447     | 07 | 03 | 495     | 10 | 06 |
| 92  |     |    |   |     |    |    |     |    |    | 158 | 02 | 09 | 201     | 05 | 01 | 248     | 01 | 08 | 298     | 02 | 09 | 349     | 08 | 04 | 399     | 09 | 05 | 448     | 06 | 02 | 496     | 09 | 05 |
| 94  |     |    |   |     |    |    |     |    |    | 159 | 01 | 08 | 202     | 04 | 00 | 249     | 00 | 07 | 299     | 01 | 08 | 350     | 04 | 00 | 400     | 00 | 07 | 449     | 05 | 01 | 497     | 08 | 04 |
| 96  |     |    |   |     |    |    |     |    |    | 160 | 08 | 04 | 203     | 03 | 10 | 250     | 07 | 03 | 300     | 03 | 10 | 351     | 03 | 10 | 401     | 10 | 06 | 450     | 01 | 08 | 498     | 07 | 03 |
| 98  |     |    |   |     |    |    |     |    |    | 161 | 07 | 03 | 204     | 02 | 09 | 251     | 06 | 02 | 301     | 02 | 09 | 352     | 02 | 09 | 402     | 09 | 05 | 451     | 00 | 07 | 499     | 06 | 02 |
| 100 |     |    |   |     |    |    |     |    |    | 162 | 06 | 02 | 205     | 01 | 08 | 252     | 05 | 01 | 302     | 01 | 08 | 353     | 01 | 08 | 403     | 08 | 04 | 452     | 10 | 06 | 500     | 08 | 04 |



Т а б л и ц а 9

| L  | d                      |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |         |    |    |    |         |         |         |         |         |         |
|----|------------------------|----|----|----|----|----|----|----|----|----|----|----|-----|----|----|----|---------|----|----|----|---------|---------|---------|---------|---------|---------|
|    | M5                     |    |    |    | M6 |    |    |    | M8 |    |    |    | M10 |    |    |    | M12x1,5 |    |    |    | M14x1,5 | M16x1,5 | M18x1,5 | M20x1,5 | M22x1,5 | M24x1,5 |
|    | Контрольные числа (КЧ) |    |    |    |    |    |    |    |    |    |    |    |     |    |    |    |         |    |    |    |         |         |         |         |         |         |
|    | 1                      | 2  | 3  | 4  | 1  | 2  | 3  | 4  | 1  | 2  | 3  | 4  | 1   | 2  | 3  | 4  | 1       | 2  | 3  | 4  | 1       | 1       | 1       | 1       | 1       | 1       |
| 14 | 06                     | 02 | 09 | 05 |    |    |    |    |    |    |    |    |     |    |    |    |         |    |    |    |         |         |         |         |         |         |
| 16 | 05                     | 01 | 08 | 04 | 01 | 08 | 04 | 00 |    |    |    |    |     |    |    |    |         |    |    |    |         |         |         |         |         |         |
| 18 | 04                     | 00 | 07 | 03 | 00 | 07 | 03 | 10 | 02 | 09 | 05 | 01 |     |    |    |    |         |    |    |    |         |         |         |         |         |         |
| 20 | 03                     | 10 | 06 | 02 | 10 | 06 | 02 | 09 | 01 | 08 | 04 | 00 |     |    |    |    |         |    |    |    |         |         |         |         |         |         |
| 22 | 02                     | 09 | 05 | 01 | 09 | 05 | 01 | 08 | 08 | 04 | 00 | 07 | 05  | 01 | 08 | 04 | 05      | 01 | 08 | 04 |         |         |         |         |         |         |
| 24 | 01                     | 08 | 04 | 00 | 08 | 04 | 00 | 07 | 07 | 03 | 10 | 06 | 04  | 00 | 07 | 03 | 04      | 00 | 07 | 03 | 03      |         |         |         |         |         |
| 26 | 00                     | 07 | 03 | 10 | 07 | 03 | 10 | 06 | 06 | 02 | 09 | 05 | 03  | 10 | 06 | 02 | 03      | 10 | 06 | 02 | 02      | 03      |         |         |         |         |
| 28 | 10                     | 06 | 02 | 09 | 06 | 02 | 09 | 05 | 05 | 01 | 08 | 04 | 02  | 09 | 05 | 01 | 02      | 09 | 05 | 01 | 01      | 02      | 08      |         |         |         |
| 30 | 09                     | 05 | 01 | 08 | 05 | 01 | 08 | 04 | 04 | 00 | 07 | 03 | 01  | 08 | 04 | 00 | 09      | 05 | 01 | 08 | 00      | 01      | 07      | 08      |         |         |
| 32 | 05                     | 01 | 08 | 04 | 01 | 08 | 04 | 00 | 03 | 10 | 06 | 02 | 00  | 07 | 03 | 10 | 08      | 04 | 00 | 07 | 10      | 00      | 06      | 07      | 04      |         |
| 34 | 04                     | 00 | 07 | 03 | 00 | 07 | 03 | 10 | 02 | 09 | 05 | 01 | 10  | 06 | 02 | 09 | 07      | 03 | 10 | 06 | 09      | 10      | 02      | 03      | 03      | 06      |
| 36 | 03                     | 10 | 06 | 02 | 10 | 06 | 02 | 09 | 01 | 08 | 04 | 00 | 06  | 02 | 09 | 05 | 06      | 02 | 09 | 05 | 05      | 06      | 01      | 02      | 10      | 05      |
| 38 | 02                     | 09 | 05 | 01 | 09 | 05 | 01 | 08 | 00 | 07 | 03 | 10 | 05  | 01 | 08 | 04 | 05      | 01 | 08 | 04 | 04      | 05      | 00      | 01      | 09      | 04      |
| 40 | 01                     | 08 | 04 | 00 | 08 | 04 | 00 | 07 | 10 | 06 | 02 | 09 | 04  | 00 | 07 | 03 | 04      | 00 | 07 | 03 | 03      | 04      | 10      | 00      | 08      | 00      |
| 42 | 00                     | 07 | 03 | 10 | 07 | 03 | 10 | 06 | 01 | 08 | 04 | 00 | 03  | 10 | 06 | 02 | 03      | 10 | 06 | 02 | 02      | 03      | 09      | 10      | 07      | 10      |
| 44 | 10                     | 06 | 02 | 09 | 06 | 02 | 09 | 05 | 00 | 07 | 03 | 10 | 02  | 09 | 05 | 01 | 02      | 09 | 05 | 01 | 01      | 02      | 08      | 09      | 06      | 09      |
| 46 | 09                     | 05 | 01 | 08 | 05 | 01 | 08 | 04 | 10 | 06 | 02 | 09 | 01  | 08 | 04 | 00 | 01      | 08 | 04 | 00 | 00      | 01      | 07      | 08      | 05      | 08      |
| 48 | 08                     | 04 | 00 | 07 | 04 | 00 | 07 | 03 | 09 | 05 | 01 | 08 | 00  | 07 | 03 | 10 | 00      | 07 | 03 | 10 | 10      | 00      | 06      | 07      | 04      | 07      |
| 50 | 07                     | 03 | 10 | 06 | 03 | 10 | 06 | 02 | 08 | 04 | 00 | 07 | 10  | 06 | 02 | 09 | 07      | 03 | 10 | 06 | 09      | 10      | 05      | 06      | 03      | 06      |
| 52 |                        |    |    |    | 10 | 06 | 02 | 09 | 07 | 03 | 10 | 06 | 09  | 05 | 01 | 08 | 06      | 02 | 09 | 05 | 08      | 09      | 04      | 05      | 02      | 05      |
| 54 |                        |    |    |    | 09 | 05 | 01 | 08 | 06 | 02 | 09 | 05 | 08  | 04 | 00 | 07 | 05      | 01 | 08 | 04 | 07      | 08      | 00      | 01      | 01      | 04      |
| 56 |                        |    |    |    | 08 | 04 | 00 | 07 | 05 | 01 | 08 | 04 | 04  | 00 | 07 | 03 | 04      | 00 | 07 | 03 | 03      | 04      | 10      | 00      | 08      | 03      |

| L   | d                      |   |   |   |    |    |    |    |    |    |    |    |     |    |    |    |         |    |    |    |         |   |         |   |         |    |         |    |         |    |         |  |
|-----|------------------------|---|---|---|----|----|----|----|----|----|----|----|-----|----|----|----|---------|----|----|----|---------|---|---------|---|---------|----|---------|----|---------|----|---------|--|
|     | M5                     |   |   |   | M6 |    |    |    | M8 |    |    |    | M10 |    |    |    | M12x1,5 |    |    |    | M14x1,5 |   | M16x1,5 |   | M18x1,5 |    | M20x1,5 |    | M22x1,5 |    | M24x1,5 |  |
|     | Контрольные числа (КЧ) |   |   |   |    |    |    |    |    |    |    |    |     |    |    |    |         |    |    |    |         |   |         |   |         |    |         |    |         |    |         |  |
|     | 1                      | 2 | 3 | 4 | 1  | 2  | 3  | 4  | 1  | 2  | 3  | 4  | 1   | 2  | 3  | 4  | 1       | 2  | 3  | 4  | 1       | 2 | 3       | 4 | 1       | 2  | 3       | 4  | 1       | 2  |         |  |
| 58  |                        |   |   |   | 07 | 03 | 10 | 06 | 04 | 00 | 07 | 03 | 03  | 10 | 06 | 02 | 03      | 10 | 06 | 02 |         |   |         |   | 02      | 03 | 09      | 10 | 07      | 02 |         |  |
| 60  |                        |   |   |   | 06 | 02 | 09 | 05 | 03 | 10 | 06 | 02 | 02  | 09 | 05 | 01 | 02      | 09 | 05 | 01 |         |   |         |   | 01      | 02 | 08      | 09 | 06      | 09 |         |  |
| 62  |                        |   |   |   | 05 | 01 | 08 | 04 | 10 | 06 | 02 | 09 | 01  | 08 | 04 | 00 | 01      | 08 | 04 | 00 |         |   |         |   | 00      | 01 | 07      | 08 | 05      | 08 |         |  |
| 64  |                        |   |   |   |    |    |    |    | 09 | 05 | 01 | 08 | 00  | 07 | 03 | 10 | 00      | 07 | 03 | 10 |         |   |         |   | 10      | 00 | 06      | 07 | 04      | 07 |         |  |
| 66  |                        |   |   |   |    |    |    |    | 08 | 04 | 00 | 07 | 10  | 06 | 02 | 09 | 10      | 06 | 02 | 09 |         |   |         |   | 09      | 10 | 05      | 06 | 03      | 06 |         |  |
| 68  |                        |   |   |   |    |    |    |    | 07 | 03 | 10 | 06 | 09  | 05 | 01 | 08 | 09      | 05 | 01 | 08 |         |   |         |   | 08      | 09 | 04      | 05 | 02      | 05 |         |  |
| 70  |                        |   |   |   |    |    |    |    | 06 | 02 | 09 | 05 | 08  | 04 | 00 | 07 | 05      | 01 | 08 | 04 |         |   |         |   | 07      | 08 | 03      | 04 | 01      | 04 |         |  |
| 72  |                        |   |   |   |    |    |    |    | 05 | 01 | 08 | 04 | 07  | 03 | 10 | 06 | 04      | 00 | 07 | 03 |         |   |         |   | 06      | 07 | 02      | 03 | 00      | 03 |         |  |
| 74  |                        |   |   |   |    |    |    |    | 04 | 00 | 07 | 03 | 06  | 02 | 09 | 05 | 03      | 10 | 06 | 02 |         |   |         |   | 05      | 06 | 09      | 10 | 10      | 02 |         |  |
| 76  |                        |   |   |   |    |    |    |    | 03 | 10 | 06 | 02 | 02  | 09 | 05 | 01 | 02      | 09 | 05 | 01 |         |   |         |   | 01      | 02 | 08      | 09 | 06      | 01 |         |  |
| 78  |                        |   |   |   |    |    |    |    | 02 | 09 | 05 | 01 | 01  | 08 | 04 | 00 | 01      | 08 | 04 | 00 |         |   |         |   | 00      | 01 | 07      | 08 | 05      | 00 |         |  |
| 80  |                        |   |   |   |    |    |    |    | 01 | 08 | 04 | 00 | 00  | 07 | 03 | 10 | 00      | 07 | 03 | 10 |         |   |         |   | 10      | 00 | 06      | 07 | 04      | 07 |         |  |
| 82  |                        |   |   |   |    |    |    |    | 08 | 04 | 00 | 07 | 10  | 06 | 02 | 09 | 10      | 06 | 02 | 09 |         |   |         |   | 09      | 10 | 05      | 06 | 03      | 06 |         |  |
| 84  |                        |   |   |   |    |    |    |    |    |    |    |    | 09  | 05 | 01 | 08 | 09      | 05 | 01 | 08 |         |   |         |   | 08      | 09 | 04      | 05 | 02      | 05 |         |  |
| 86  |                        |   |   |   |    |    |    |    |    |    |    |    | 08  | 04 | 00 | 07 | 08      | 04 | 00 | 07 |         |   |         |   | 07      | 08 | 03      | 04 | 01      | 04 |         |  |
| 88  |                        |   |   |   |    |    |    |    |    |    |    |    | 07  | 03 | 10 | 06 | 07      | 03 | 10 | 06 |         |   |         |   | 06      | 07 | 02      | 03 | 00      | 03 |         |  |
| 90  |                        |   |   |   |    |    |    |    |    |    |    |    | 06  | 02 | 09 | 05 | 09      | 05 | 01 | 08 |         |   |         |   | 05      | 06 | 01      | 02 | 10      | 02 |         |  |
| 92  |                        |   |   |   |    |    |    |    |    |    |    |    | 05  | 01 | 08 | 04 | 08      | 04 | 00 | 07 |         |   |         |   | 04      | 05 | 00      | 01 | 09      | 01 |         |  |
| 94  |                        |   |   |   |    |    |    |    |    |    |    |    | 04  | 00 | 07 | 03 | 07      | 03 | 10 | 06 |         |   |         |   | 03      | 04 | 07      | 03 | 08      | 00 |         |  |
| 96  |                        |   |   |   |    |    |    |    |    |    |    |    | 00  | 07 | 03 | 10 | 06      | 02 | 09 | 05 |         |   |         |   | 10      | 06 | 06      | 02 | 04      | 10 |         |  |
| 98  |                        |   |   |   |    |    |    |    |    |    |    |    | 10  | 06 | 02 | 09 | 05      | 01 | 08 | 04 |         |   |         |   | 09      | 05 | 05      | 01 | 03      | 09 |         |  |
| 100 |                        |   |   |   |    |    |    |    |    |    |    |    | 09  | 05 | 01 | 08 | 04      | 00 | 07 | 03 |         |   |         |   | 08      | 04 | 04      | 00 | 02      | 00 |         |  |

Продолжение табл. 9

| L   | d                      |   |   |   |    |   |   |   |    |   |   |   |     |    |    |    |         |    |    |    |         |  |         |  |         |  |         |  |         |  |         |  |
|-----|------------------------|---|---|---|----|---|---|---|----|---|---|---|-----|----|----|----|---------|----|----|----|---------|--|---------|--|---------|--|---------|--|---------|--|---------|--|
|     | M5                     |   |   |   | M6 |   |   |   | M8 |   |   |   | M10 |    |    |    | M12x1,5 |    |    |    | M14x1,5 |  | M16x1,5 |  | M18x1,5 |  | M20x1,5 |  | M22x1,5 |  | M24x1,5 |  |
|     | Контрольные числа (КЧ) |   |   |   |    |   |   |   |    |   |   |   |     |    |    |    |         |    |    |    |         |  |         |  |         |  |         |  |         |  |         |  |
|     | 1                      | 2 | 3 | 4 | 1  | 2 | 3 | 4 | 1  | 2 | 3 | 4 | 1   | 2  | 3  | 4  | 1       | 2  | 3  | 4  | 1       |  | 1       |  | 1       |  | 1       |  | 1       |  | 1       |  |
| 104 |                        |   |   |   |    |   |   |   |    |   |   |   | 08  | 04 | 00 | 07 | 03      | 10 | 06 | 02 | 07      |  | 03      |  | 03      |  | 10      |  | 01      |  | 10      |  |
| 108 |                        |   |   |   |    |   |   |   |    |   |   |   |     |    |    |    | 02      | 09 | 05 | 01 | 06      |  | 02      |  | 02      |  | 09      |  | 00      |  | 09      |  |
| 112 |                        |   |   |   |    |   |   |   |    |   |   |   |     |    |    |    | 01      | 08 | 04 | 00 | 05      |  | 01      |  | 01      |  | 08      |  | 10      |  | 08      |  |
| 116 |                        |   |   |   |    |   |   |   |    |   |   |   |     |    |    |    | 00      | 07 | 03 | 10 | 04      |  | 00      |  | 00      |  | 07      |  | 09      |  | 07      |  |
| 120 |                        |   |   |   |    |   |   |   |    |   |   |   |     |    |    |    | 07      | 03 | 10 | 06 | 03      |  | 10      |  | 10      |  | 06      |  | 08      |  | 06      |  |
| 124 |                        |   |   |   |    |   |   |   |    |   |   |   |     |    |    |    | 06      | 02 | 09 | 05 | 02      |  | 09      |  | 09      |  | 05      |  | 07      |  | 05      |  |
| 128 |                        |   |   |   |    |   |   |   |    |   |   |   |     |    |    |    |         |    |    |    | 01      |  | 08      |  | 05      |  | 01      |  | 06      |  | 04      |  |
| 132 |                        |   |   |   |    |   |   |   |    |   |   |   |     |    |    |    |         |    |    |    | 08      |  | 04      |  | 04      |  | 00      |  | 02      |  | 03      |  |
| 136 |                        |   |   |   |    |   |   |   |    |   |   |   |     |    |    |    |         |    |    |    | 07      |  | 03      |  | 03      |  | 10      |  | 01      |  | 02      |  |
| 140 |                        |   |   |   |    |   |   |   |    |   |   |   |     |    |    |    |         |    |    |    | 06      |  | 02      |  | 02      |  | 09      |  | 00      |  | 09      |  |
| 144 |                        |   |   |   |    |   |   |   |    |   |   |   |     |    |    |    |         |    |    |    |         |  | 01      |  | 01      |  | 08      |  | 10      |  | 08      |  |
| 148 |                        |   |   |   |    |   |   |   |    |   |   |   |     |    |    |    |         |    |    |    |         |  | 00      |  | 00      |  | 07      |  | 09      |  | 07      |  |



| L  | d   |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |         |    |    |    |
|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|---------|----|----|----|
|    | M4  |    |    |    | M5  |    |    |    | M6  |    |    |    | M8  |    |    |    | M10 |    |    |    | M12x1,5 |    |    |    |
|    | XXX | KЧ |    |    | XXX | KЧ |    |    | XXX | KЧ |    |    | XXX | KЧ |    |    | XXX | KЧ |    |    | XXX     | KЧ |    |    |
|    |     | 1  | 2  | 3  |     | 1  | 2  | 3  |     | 1  | 2  | 3  |     | 1  | 2  | 3  |     | 1  | 2  | 3  |         | 1  | 2  | 3  |
| 12 | 024 | 02 | 09 | 05 |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |         |    |    |    |
| 14 | 025 | 01 | 08 | 04 | 041 | 01 | 08 | 04 |     |    |    |    |     |    |    |    |     |    |    |    |         |    |    |    |
| 16 | 026 | 00 | 07 | 03 | 042 | 00 | 07 | 03 | 062 | 07 | 03 | 10 |     |    |    |    |     |    |    |    |         |    |    |    |
| 18 | 027 | 10 | 06 | 02 | 043 | 10 | 06 | 02 | 063 | 06 | 02 | 09 | 088 | 08 | 04 | 00 |     |    |    |    |         |    |    |    |
| 20 | 028 | 09 | 05 | 01 | 044 | 09 | 05 | 01 | 064 | 05 | 01 | 08 | 089 | 07 | 03 | 10 |     |    |    |    |         |    |    |    |
| 22 | 029 | 08 | 04 | 00 | 045 | 08 | 04 | 00 | 065 | 04 | 00 | 07 | 090 | 03 | 10 | 06 | 123 | 00 | 07 | 03 | 166     | 00 | 07 | 03 |
| 24 | 030 | 04 | 00 | 07 | 046 | 07 | 03 | 10 | 066 | 03 | 10 | 06 | 091 | 02 | 09 | 05 | 124 | 10 | 06 | 02 | 167     | 10 | 06 | 02 |
| 26 | 031 | 03 | 10 | 06 | 047 | 06 | 02 | 09 | 067 | 02 | 09 | 05 | 092 | 01 | 08 | 04 | 125 | 09 | 05 | 01 | 168     | 09 | 05 | 01 |
| 28 | 032 | 02 | 09 | 05 | 048 | 05 | 01 | 08 | 068 | 01 | 08 | 04 | 093 | 00 | 07 | 03 | 126 | 08 | 04 | 00 | 169     | 08 | 04 | 00 |
| 30 | 033 | 01 | 08 | 04 | 049 | 04 | 00 | 07 | 069 | 00 | 07 | 03 | 094 | 10 | 06 | 02 | 127 | 07 | 03 | 10 | 170     | 04 | 00 | 07 |
| 32 | 034 | 00 | 07 | 03 | 050 | 00 | 07 | 03 | 070 | 07 | 03 | 10 | 095 | 09 | 05 | 01 | 128 | 06 | 02 | 09 | 171     | 03 | 10 | 06 |
| 34 | 035 | 10 | 06 | 02 | 051 | 10 | 06 | 02 | 071 | 06 | 02 | 09 | 096 | 08 | 04 | 00 | 129 | 05 | 01 | 08 | 172     | 02 | 09 | 05 |
| 36 | 036 | 09 | 05 | 01 | 052 | 09 | 05 | 01 | 072 | 05 | 01 | 08 | 097 | 07 | 03 | 10 | 130 | 01 | 08 | 04 | 173     | 01 | 08 | 04 |
| 38 | 037 | 08 | 04 | 00 | 053 | 08 | 04 | 00 | 073 | 04 | 00 | 07 | 098 | 06 | 02 | 09 | 131 | 00 | 07 | 03 | 174     | 00 | 07 | 03 |
| 40 | 038 | 07 | 03 | 10 | 054 | 07 | 03 | 10 | 074 | 03 | 10 | 06 | 099 | 05 | 01 | 08 | 132 | 10 | 06 | 02 | 175     | 10 | 06 | 02 |
| 42 |     |    |    |    | 055 | 06 | 02 | 09 | 075 | 02 | 09 | 05 | 100 | 07 | 03 | 10 | 133 | 09 | 05 | 01 | 176     | 09 | 05 | 01 |
| 44 |     |    |    |    | 056 | 05 | 01 | 08 | 076 | 01 | 08 | 04 | 101 | 06 | 02 | 09 | 134 | 08 | 04 | 00 | 177     | 08 | 04 | 00 |
| 46 |     |    |    |    | 057 | 04 | 00 | 07 | 077 | 00 | 07 | 03 | 102 | 05 | 01 | 08 | 135 | 07 | 03 | 10 | 178     | 07 | 03 | 10 |
| 48 |     |    |    |    | 058 | 03 | 10 | 06 | 078 | 10 | 06 | 02 | 103 | 04 | 00 | 07 | 136 | 06 | 02 | 09 | 179     | 06 | 02 | 09 |
| 50 |     |    |    |    | 059 | 02 | 09 | 05 | 079 | 09 | 05 | 01 | 104 | 03 | 10 | 06 | 137 | 05 | 01 | 08 | 180     | 02 | 09 | 05 |
| 52 |     |    |    |    |     |    |    |    | 080 | 05 | 01 | 08 | 105 | 02 | 09 | 05 | 138 | 04 | 00 | 07 | 181     | 01 | 08 | 04 |
| 54 |     |    |    |    |     |    |    |    | 081 | 04 | 00 | 07 | 106 | 01 | 08 | 04 | 139 | 03 | 10 | 06 | 182     | 00 | 07 | 03 |
| 56 |     |    |    |    |     |    |    |    | 082 | 03 | 10 | 06 | 107 | 00 | 07 | 03 | 140 | 10 | 06 | 02 | 183     | 10 | 06 | 02 |
| 58 |     |    |    |    |     |    |    |    | 083 | 02 | 09 | 05 | 108 | 10 | 06 | 02 | 141 | 09 | 05 | 01 | 184     | 09 | 05 | 01 |
| 60 |     |    |    |    |     |    |    |    | 084 | 01 | 08 | 04 | 109 | 09 | 05 | 01 | 142 | 08 | 04 | 00 | 185     | 08 | 04 | 00 |
| 62 |     |    |    |    |     |    |    |    | 085 | 00 | 07 | 03 | 110 | 05 | 01 | 08 | 143 | 07 | 03 | 10 | 186     | 07 | 03 | 10 |
| 64 |     |    |    |    |     |    |    |    |     |    |    |    | 111 | 04 | 00 | 07 | 144 | 06 | 02 | 09 | 187     | 06 | 02 | 09 |
| 66 |     |    |    |    |     |    |    |    |     |    |    |    | 112 | 03 | 10 | 06 | 145 | 05 | 01 | 08 | 188     | 05 | 01 | 08 |
| 68 |     |    |    |    |     |    |    |    |     |    |    |    | 113 | 02 | 09 | 05 | 146 | 04 | 00 | 07 | 189     | 04 | 00 | 07 |
| 70 |     |    |    |    |     |    |    |    |     |    |    |    | 114 | 01 | 08 | 04 | 147 | 03 | 10 | 06 | 190     | 00 | 07 | 03 |
| 72 |     |    |    |    |     |    |    |    |     |    |    |    | 115 | 00 | 07 | 03 | 148 | 02 | 09 | 05 | 191     | 10 | 06 | 02 |
| 74 |     |    |    |    |     |    |    |    |     |    |    |    | 116 | 10 | 06 | 02 | 149 | 01 | 08 | 04 | 192     | 09 | 05 | 01 |
| 76 |     |    |    |    |     |    |    |    |     |    |    |    | 117 | 09 | 05 | 01 | 150 | 08 | 04 | 00 | 193     | 08 | 04 | 00 |

| L   | d   |    |   |   |     |    |   |   |     |    |   |     |     |    |    |     |     |    |    |     |         |     |    |   |
|-----|-----|----|---|---|-----|----|---|---|-----|----|---|-----|-----|----|----|-----|-----|----|----|-----|---------|-----|----|---|
|     | M4  |    |   |   | M5  |    |   |   | M6  |    |   |     | M8  |    |    |     | M10 |    |    |     | M12x1,5 |     |    |   |
|     | XXX | KЧ |   |   | XXX | KЧ |   |   | XXX | KЧ |   |     | XXX | KЧ |    |     | XXX | KЧ |    |     | XXX     | KЧ. |    |   |
|     |     | 1  | 2 | 3 |     | 1  | 2 | 3 |     | 1  | 2 | 3   |     | 1  | 2  | 3   |     | 1  | 2  | 3   |         | 1   | 2  | 3 |
| 78  |     |    |   |   |     |    |   |   |     |    |   | 118 | 08  | 04 | 00 | 151 | 07  | 03 | 10 | 194 | 07      | 03  | 10 |   |
| 80  |     |    |   |   |     |    |   |   |     |    |   | 119 | 07  | 03 | 10 | 152 | 06  | 02 | 09 | 195 | 06      | 02  | 09 |   |
| 82  |     |    |   |   |     |    |   |   |     |    |   | 120 | 03  | 10 | 06 | 153 | 05  | 01 | 08 | 196 | 05      | 01  | 08 |   |
| 84  |     |    |   |   |     |    |   |   |     |    |   |     |     |    |    | 154 | 04  | 00 | 07 | 197 | 04      | 00  | 07 |   |
| 86  |     |    |   |   |     |    |   |   |     |    |   |     |     |    |    | 155 | 03  | 10 | 06 | 198 | 03      | 10  | 06 |   |
| 88  |     |    |   |   |     |    |   |   |     |    |   |     |     |    |    | 156 | 02  | 09 | 05 | 199 | 02      | 09  | 05 |   |
| 90  |     |    |   |   |     |    |   |   |     |    |   |     |     |    |    | 157 | 01  | 08 | 04 | 200 | 04      | 00  | 07 |   |
| 92  |     |    |   |   |     |    |   |   |     |    |   |     |     |    |    | 158 | 00  | 07 | 03 | 201 | 03      | 10  | 06 |   |
| 94  |     |    |   |   |     |    |   |   |     |    |   |     |     |    |    | 159 | 10  | 06 | 02 | 202 | 02      | 09  | 05 |   |
| 96  |     |    |   |   |     |    |   |   |     |    |   |     |     |    |    | 160 | 06  | 02 | 09 | 203 | 01      | 08  | 04 |   |
| 98  |     |    |   |   |     |    |   |   |     |    |   |     |     |    |    | 161 | 05  | 01 | 08 | 204 | 00      | 07  | 03 |   |
| 100 |     |    |   |   |     |    |   |   |     |    |   |     |     |    |    | 162 | 04  | 00 | 07 | 205 | 10      | 06  | 02 |   |
| 104 |     |    |   |   |     |    |   |   |     |    |   |     |     |    |    | 163 | 03  | 10 | 06 | 206 | 09      | 05  | 01 |   |
| 108 |     |    |   |   |     |    |   |   |     |    |   |     |     |    |    |     |     |    |    | 207 | 08      | 04  | 00 |   |
| 112 |     |    |   |   |     |    |   |   |     |    |   |     |     |    |    |     |     |    |    | 208 | 07      | 03  | 10 |   |
| 116 |     |    |   |   |     |    |   |   |     |    |   |     |     |    |    |     |     |    |    | 209 | 06      | 02  | 09 |   |
| 120 |     |    |   |   |     |    |   |   |     |    |   |     |     |    |    |     |     |    |    | 210 | 02      | 09  | 05 |   |
| 124 |     |    |   |   |     |    |   |   |     |    |   |     |     |    |    |     |     |    |    | 211 | 01      | 08  | 04 |   |

## ЛИСТ РЕГИСТРАЦИИ ИЗМЕНЕНИЙ

| №<br>изм. | Номера страниц  |                 |       |                          | Номер<br>"Изв.<br>об<br>изм." | Подпись    | Дата     | Срок<br>введения<br>изменения |
|-----------|-----------------|-----------------|-------|--------------------------|-------------------------------|------------|----------|-------------------------------|
|           | Изме-<br>ненных | Заме-<br>ненных | Новых | Анну-<br>лиро-<br>ванных |                               |            |          |                               |
| 1         | 1               | -               | -     | -                        | 9663                          | <i>Угу</i> | 14.05.86 | 01.01.87                      |
| 2         | 2,7,8,9         | -               | -     | -                        | 9869                          | <i>Угу</i> | 03.03.90 | 01.07.90                      |
| 3         | 1               | -               | -     | -                        | 11819                         | <i>Угу</i> | 24.11.95 | 1996-01-01                    |