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--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ГОСТ 10299-80 : ЗАКЛЕПКИ С ПОЛУКРУГЛОЙ ГОЛОВКОЙ КЛАССОВ ТОЧНОСТИ В И С**http://www.metiz.net/files/catalog_images/10299.png?0 Длина заклепок должна выбираться из следующего ряда: 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 45, 48, 50, 52, 55, 58, 60, 65, 70, 75, 80, 85, 90, 95, 100, 110, 120, 130, 140, 150, 160, 170, 180 мм. **мм**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Диаметр стержня *d* | 1 | 1,2 | (1,4) | 1,6 | 2 | 2,5 | 3 | (3,5) | 4 | 5 | 6 | 8 | 10 |
| Диаметр головки *D* | 1,8 | 2,1 | 2,5 | 2,9 | 3,5 | 4,4 | 5,3 | 6,3 | 7,1 | 8,8 | 11 | 14 | 16 |
| Высота головки *Н* | 0,6 | 0,7 | 0,8 | 1,0 | 1,2 | 1,5 | 1,8 | 2,1 | 2,4 | 3,0 | 3,6 | 4,8 | 6,0 |
| Радиус под головкой *r*, не более | 0,2 | 0,4 | 0,5 | 0,6 |
| Радиус сферы головки *R* | 1 | 1,2 | 1,4 | 1,6 | 1,9 | 2,4 | 2,9 | 3,4 | 3,8 | 4,7 | 6 | 7,5 | 8,3 |
| Расстояние от основания головки до места замера диаметра *l* | 1,5 | 3 | 4 | 6 |

  **мм**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Диаметр стержня *d* | 12 | (14) | 16 | (18) | 20 | (22) | 24 | 30 | 36 |
| Диаметр головки *D* | 19 | 22 | 25 | 27 | 30 | 35 | 37 | 45 | 55 |
| Высота головки *Н* | 7,2 | 8,4 | 9,5 | 11 | 12 | 13 | 16 | 20 | 24 |
| Радиус под головкой *r*, не более | 0,8 | 1,0 | 1,2 | 1,6 |
| Радиус сферы головки *R* | 9,8 | 11,4 | 13 | 13,8 | 15,4 | 18,3 | 18,7 | 22,7 | 27,8 |
| Расстояние от основания головки до места замера диаметра *l* | 6 | 8 | 10 |

 Примечание. *Размеры, указанные в скобках, применять не рекомендуется.*

|  |  |  |  |
| --- | --- | --- | --- |
| Диаметр стержня *d* | Длина *L* | Диаметр стержня *d* | Длина *L* |
| 1,0 | 2-8 | 10 | 14-100 |
| 1,2 | 2-10 | 12 | 18-110 |
| (1,4) | 3-12 | (14) | 20-140 |
| 1,6 | 3-12 | 16 | 20-140 |
| 2,0 | 3-16 | (18) | 28-140 |
| 2,5 | 3-20 | 20 | 34-160 |
| 3,0 | 4-40 | (22) | 38-170 |
| (3,5) | 5-40 | 24 | 40-180 |
| 4,0 | 5-50 | 30 | 55-180 |
| 5,0 | 7-60 | 36 | 55-180 |
| 6,0 | 7-60 |
| 8,0 | 9-70 |

 Пример условного обозначения заклепки с полукруглой головкой класса точности В диаметром стержня d = 8 мм, длиной L = 20 мм, из материала группы 00, без покрытия: *Заклепка 8х20.00 ГОСТ 10299-80* **Масса стальных заклепок**

|  |  |
| --- | --- |
| Длина *L*, мм | Теоретическая масса 1000 шт. заклепок, кг, при номинальном диаметре стержня *d*, мм |
| 1 | 1,2 | (1,4) | 1,6 | 2 | 2,5 | 3 | (3,5) | 4 | 5 | 6 | 8 | 10 | 12 | (14) | 16 | (18) | 20 | (22) | 21 | 30 | 36 |
| 2 | 0,019 | 0,029 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 3 | 0,025 | 0,038 | 0,054 | 0,077 | 0,127 | 0,218 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 4 | 0,031 | 0,047 | 0,066 | 0,093 | 0,151 | 0,257 | 0,401 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 5 | 0,038 | 0,056 | 0,078 | 0,109 | 0,176 | 0,295 | 0,457 | 0,670 | 0,924 |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 6 | 0,044 | 0,064 | 0,090 | 0,125 | 0,201 | 0,334 | 0,512 | 0,746 | 1,023 |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 7 | 0,050 | 0,073 | 0,102 | 0,140 | 0,225 | 0,372 | 0,568 | 0,821 | 1,121 | 1,906 | 3,084 |   |   |   |   |   |   |   |   |   |   |   |
| 8 | 0,056 | 0,082 | 0,114 | 0,156 | 0,251 | 0,411 | 0,623 | 0,896 | 1,220 | 2,060 | 3,306 |   |   |   |   |   |   |   |   |   |   |   |
| 9 |   | 0,091 | 0,126 | 0,172 | 0,275 | 0,449 | 0,679 | 0,972 | 1,319 | 2,214 | 3,528 | 6,902 |   |   |   |   |   |   |   |   |   |   |
| 10 |   | 0,100 | 0,138 | 0,188 | 0,299 | 0,488 | 0,734 | 1,048 | 1,417 | 2,368 | 3,751 | 7,296 |   |   |   |   |   |   |   |   |   |   |
| 12 |   |   | 0,163 | 0,219 | 0,349 | 0,565 | 0,845 | 1,199 | 1,615 | 2,676 | 4,194 | 8,085 |   |   |   |   |   |   |   |   |   |   |
| 14 |   |   |   |   | 0,398 | 0,642 | 0,956 | 1,350 | 1,812 | 2,985 | 4,638 | 8,874 | 14,23 |   |   |   |   |   |   |   |   |   |
| 16 |   |   |   |   | 0,447 | 0,737 | 1,067 | 1,501 | 2,009 | 3,293 | 5,082 | 9,663 | 15,47 |   |   |   |   |   |   |   |   |   |
| 18 |   |   |   |   |   | 0,796 | 1,178 | 1,652 | 2,207 | 3,601 | 5,526 | 10,452 | 16,70 | 25,50 |   |   |   |   |   |   |   |   |
| 20 |   |   |   |   |   | 0,873 | 1,289 | 1,803 | 2,404 | 3,909 | 5,970 | 11,242 | 17,93 | 27,28 | 39,11 | 53,33 |   |   |   |   |   |   |
| 22 |   |   |   |   |   |   | 1,400 | 1,954 | 2,601 | 4,218 | 6,414 | 12,203 | 19,17 | 29,05 | 41,53 | 56,49 |   |   |   |   |   |   |
| 24 |   |   |   |   |   |   | 1,511 | 2,105 | 2,798 | 4,526 | 6,858 | 12,820 | 20,40 | 30,83 | 43,94 | 59,65 |   |   |   |   |   |   |
| 26 |   |   |   |   |   |   | 1,622 | 2,256 | 2,996 | 4,834 | 7,302 | 13,609 | 21,63 | 32,61 | 46,36 | 62,80 |   |   |   |   |   |   |
| 28 |   |   |   |   |   |   | 1,733 | 2,407 | 3,193 | 5,142 | 7,746 | 14,398 | 22,87 | 34,38 | 48,78 | 65,96 | 86,07 |   |   |   |   |   |
| 30 |   |   |   |   |   |   | 1,844 | 2,558 | 3,390 | 5,451 | 8,190 | 15,187 | 24,10 | 36,16 | 51,19 | 69,12 | 90,07 |   |   |   |   |   |
| 32 |   |   |   |   |   |   | 1,955 | 2,709 | 3,588 | 5,759 | 8,633 | 15,977 | 25,33 | 37,93 | 53,61 | 72,27 | 94,06 |   |   |   |   |   |
| 34 |   |   |   |   |   |   | 2,065 | 2,860 | 3,785 | 6,067 | 9,077 | 16,766 | 26,56 | 39,71 | 56,03 | 75,43 | 98,06 | 124,2 |   |   |   |   |
| 36 |   |   |   |   |   |   | 2,177 | 3,011 | 3,982 | 6,375 | 9,521 | 17,555 | 27,80 | 41,48 | 58,44 | 78,59 | 102,10 | 129,1 |   |   |   |   |
| 38 |   |   |   |   |   |   | 2,288 | 3,162 | 4,179 | 6,684 | 9,965 | 18,344 | 29,03 | 43,26 | 60,86 | 81,74 | 106,04 | 134,0 | 171,4 |   |   |   |
| 40 |   |   |   |   |   |   | 2,399 | 3,313 | 4,377 | 6,992 | 10,40 | 19,13 | 30,26 | 45,03 | 63,28 | 84,90 | 110 | 139,0 | 177,3 | 226,2 |   |   |
| 42 |   |   |   |   |   |   |   |   | 4,574 | 7,300 | 10,85 | 19,92 | 31,50 | 46,81 | 65,69 | 88,06 | 114 | 143,9 | 192,3 | 233,3 |   |   |
| 45 |   |   |   |   |   |   |   |   | 4,870 | 7,763 | 11,52 | 21,11 | 33,35 | 49,47 | 69,32 | 92,80 | 120 | 151,3 | 201,2 | 244,0 |   |   |
| 48 |   |   |   |   |   |   |   |   | 5,166 | 8,225 | 12,19 | 22,29 | 35,20 | 52,14 | 72,95 | 97,53 | 126 | 158,7 | 207,2 | 254,6 |   |   |
| 50 |   |   |   |   |   |   |   |   | 5,363 | 8,533 | 12,63 | 23,08 | 36,43 | 53,91 | 75,36 | 100,70 | 130 | 163,6 | 213,1 | 261,8 |   |   |
| 52 |   |   |   |   |   |   |   |   |   | 8,842 | 13,07 | 23,87 | 37,66 | 55,69 | 77,78 | 103,80 | 134 | 168,6 | 222,1 | 268,9 |   |   |
| *55* |   |   |   |   |   |   |   |   |   | 9,304 | 13,74 | 25,05 | 39,51 | 58,35 | 81,40 | 108,60 | 140 | 176,0 | 231,1 | 279,5 | 462,7 | 719,7 |
| 58 |   |   |   |   |   |   |   |   |   | 9,766 | 14,40 | 26,24 | 41,36 | 61,02 | 85,03 | 113,30 | 146 | 183,3 | 237,0 | 290,6 | 481,5 | 743,7 |
| 60 |   |   |   |   |   |   |   |   |   | 10,075 | 14,85 | 27,03 | 42,59 | 62,79 | 87,45 | 116,50 | 150 | 188,3 | 251,9 | 297,3 | 490,5 | 759,7 |
| 65 |   |   |   |   |   |   |   |   |   |   |   | 29,00 | 45,68 | 67,23 | 93,49 | 124,40 | 160 | 200,6 | 266,9 | 315,0 | 518,2 | 799,6 |
| 70 |   |   |   |   |   |   |   |   |   |   |   | 30,97 | 48,76 | 71,67 | 99,53 | 132,20 | 170 | 213,0 | 281,8 | 332,8 | 546,0 | 839,6 |
| 75 |   |   |   |   |   |   |   |   |   |   |   |   | 51,84 | 76,11 | 105,60 | 140,10 | 180 | 225,3 | 296,7 | 350,5 | 573,7 | 879,5 |
| 80 |   |   |   |   |   |   |   |   |   |   |   |   | 54,93 | 80,55 | 111,60 | 148,00 | 190 | 237,6 | 311,6 | 368,3 | 601,5 | 919,6 |
| 85 |   |   |   |   |   |   |   |   |   |   |   |   | 58,01 | 84,99 | 117,70 | 155,90 | 200 | 250,0 | 326,5 | 386,0 | 629,2 | 959,4 |
| 90 |   |   |   |   |   |   |   |   |   |   |   |   | 61,09 | 89,43 | 123,70 | 163,80 | 210 | 262,3 | 341,5 | 403,8 | 657,0 | 999,4 |
| 95 |   |   |   |   |   |   |   |   |   |   |   |   | 64,17 | 93,86 | 129,70 | 171,70 | 220 | 274,6 | 356,4 | 421,6 | 684,7 | 1039,3 |
| 100 |   |   |   |   |   |   |   |   |   |   |   |   | 67,25 | 98,30 | 135,80 | 179,60 | 230 | 287,0 | 386,2 | 439,3 | 712,4 | 1079,3 |
| 110 |   |   |   |   |   |   |   |   |   |   |   |   |   | 107,20 | 147,90 | 195,40 | 250 | 311,6 | 416,1 | 474,8 | 769,9 | 1159,2 |
| 120 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 160,00 | 211,20 | 270 | 336,3 | 445,9 | 510,3 | 823,4 | 1239,1 |
| 130 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 172,00 | 226,90 | 290 | 360,9 | 475,7 | 545,8 | 878,9 | 1319,0 |
| 140 |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 184,10 | 242,74 | 310 | 385,6 | 505,6 | 581,4 | 934,4 | 1398,9 |
| 150 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 410,2 | 535,6 | 616,9 | 989,9 | 1478,8 |
| 160 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 434,9 | 565,3 | 652,4 | 1045,4 | 1558,7 |
| 170 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 595,1 | 687,9 | 1100,9 | 1638,6 |
| 180 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 723,4 | 1156,3 | 1718,5 |

 Примечание. *Для определения массы других заклепок, изготовляемых из других материалов, значения массы, указанные в таблице, должны быть умножены на коэффициенты: 0,356-для алюминиевого сплава; 1,080 - для латуни; 1,134-для меди,*   |