| Zoll |  | $1 "$ | $2^{\prime \prime}$ | $3^{\prime \prime}$ | $4^{\prime \prime}$ | $5 \prime$ | 6 ' | 7 | 8" | , | $10^{\prime \prime}$ | $11^{\prime \prime}$ | $12^{\prime \prime}$ | $13^{\prime \prime}$ | 14" | 15" | Zoll |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | mm | 25,3995 | 50,7990 | 76,1986 | 101,598 | 126,998 | 152,397 | 177,797 | 203,196 | 228,596 | 253,995 | 279,395 | 304,794 | 330,194 | 355,594 | 380,994 |  |
| 1/64 | 0,3968 | 25,7964 | 51,1959 | 76,5954 | 101,995 | 127,394 | 152,794 | 178,193 | 203,593 | 228,992 | 254,392 | 279,792 | 305,191 | 330,591 | 355,991 | 381,391 | 1/64 |
| $1 / 32$ | 0,7937 | 26,1932 | 51,5928 | 76,9923 | 102,391 | 127,791 | 153,190 | 178,590 | 203,990 | 229,389 | 254,789 | 280,189 | 305,588 | 330,988 | 356,388 | 381,788 | 1/32 |
| $3 / 64$ | 1,1906 | 26,5901 | 51,9896 | 77,3892 | 102,788 | 128,188 | 153,588 | 178,987 | 204,386 | 229,786 | 255,186 | 280,586 | 305,985 | 331,385 | 356,785 | 382,185 | 3/64 |
| 1/16 | 1,5874 | 26,9870 | 52,3865 | 77,7860 | 103,185 | 128,585 | 153,984 | 179,384 | 204,783 | 230,183 | 255,582 | 280,982 | 306,381 | 331,781 | 357,181 | 382,581 | 1/16 |
| 5/64 | 1,9843 | 27,3838 | 52,7834 | 78,1829 | 103,582 | 128,982 | 154,381 | 179,781 | 205,180 | 230,580 | 255,979 | 281,379 | 306,778 | 332,178 | 357,578 | 382,978 | 5/64 |
| 3/32 | 2,3812 | 27,7807 | 53,1802 | 78,5798 | 103,979 | 129,378 | 154,778 | 180,177 | 205,577 | 230,971 | 256,376 | 281,776 | 307,175 | 332,575 | 357,975 | 383,375 | 3/32 |
| 7/64 | 2,7780 | 28,1776 | 53,5771 | 78,9766 | 104,376 | 129,775 | 155,175 | 180,574 | 205,974 | 231,373 | 256,773 | 282,173 | 307,572 | 332,972 | 358,372 | 383,772 | 164 |
| 1/8 | 3,1749 | 28,5744 | 53,9740 | 79,3735 | 104,773 | 130,172 | 155,572 | 180,971 | 206,370 | 231,770 | 257,170 | 282,570 | 307,969 | 333,369 | 358,769 | 384,169 | 1/8 |
| \% 64 | 3,5718 | 28,9713 | 54,3708 | 79,7704 | 105,169 | 130,569 | 155,969 | 181,368 | 206,768 | 232,167 | 257,567 | 282,967 | 308,366 | 333,766 | 359,166 | 384,566 | 9/64 |
| 5/32 | 3,9686 | 29,3682 | 54,7677 | 80,1672 | 105,566 | 130,966 | 156,365 | 181,765 | 207,164 | 232,564 | 257,964 | 283,364 | 308,763 | 334,163 | 359,563 | 384,963 | 5/32 |
| 11/64 | 4,3655 | 29,7650 | 55,1646 | 80,5641 | 105,963 | 131,363 | 156,762 | 182,162 | 207,561 | 232,961 | 258,360 | 283,760 | 309,160 | 334,560 | 359,960 | 385,360 | 11/64 |
| 3/16 | 4,7624 | 30,1619 | 55,5614 | 80,9610 | 106,360 | 131,760 | 157,159 | 182,559 | 207,958 | 233,358 | 258,757 | 284,157 | 309,556 | 334,956 | 360,356 | 385,756 | 3/16 |
| 13/64 | 5,1592 | 30,5588 | 55,9583 | 81,3579 | 106,757 | 132,156 | 157,556 | 182,956 | 208,355 | 233,755 | 259,154 | 284,554 | 309,953 | 335,353 | 360,753 | 386,153 | ${ }^{13 / 64}$ |
| 7/32 | 5,5561 | 30,9556 | 56,3552 | 81,7547 | 107,154 | 132,553 | 157,953 | 183,352 | 208,752 | 234,152 | 259,551 | 284,951 | 310,350 | 335,750 | 361,150 | 386,550 | 7/32 |
| 15/64 | 5,9530 | 31,3525 | 56,7520 | 82,1516 | 107,551 | 132,950 | 158,350 | 183,749 | 209,149 | 234,548 | 259,948 | 285,348 | 310,747 | 336,147 | 361,547 | 386,947 | 15/64 |
| $1 / 4$ | 6,3498 | 31,7494 | 57,1489 | 82,5485 | 107,948 | 133,347 | 158,747 | 184,146 | 209,546 | 234,945 | 260,345 | 285,745 | 311,144 | 336,544 | 361,944 | 387,344 | 1/4 |
| 17/64 | 6,7467 | 32,1462 | 57,5458 | 82,9453 | 108,344 | 133,744 | 159,143 | 184,543 | 209,943 | 235,342 | 260,742 | 286,142 | 311,541 | 336,941 | 362,341 | 387,741 | 17/64 |
| 9/32 | 7,1436 | 32,5431 | 57,9426 | 83,3422 | 108,741 | 134,141 | 159,540 | 184,940 | 210,339 | 235,739 | 261,139 | 286,539 | 311,938 | 337,338 | 362,738 | 388,138 | 9/32 |
| 1964 | 7,5404 | 32,9400 | 58,3395 | 83,7291 | 109,138 | 134,538 | 159,937 | 185,337 | 210,736 | 236,136 | 261,535 | 286,935 | 312,334 | 337,734 | 363,134 | 388,534 | 19/64 |
| 5/16 | 7,9373 | 33,3368 | 58,7364 | 84,1359 | 109,535 | 134,935 | 160,334 | 185,734 | 211,133 | 236,532 | 261,932 | 287,332 | 312,731 | 338,131 | 363,531 | 388,931 | 5/16 |
| 21/64 | 8,3342 | 33,7337 | 59,1333 | 84,5328 | 109,932 | 135,331 | 160,731 | 186,131 | 211,530 | 236,930 | 262,329 | 287,729 | 313,128 | 338,528 | 363,928 | 389,328 | 21/64 |
| 11/32 | 8,7310 | 34,1306 | 59,5301 | 84,9297 | 110,329 | 135,728 | 161,128 | 186,527 | 211,927 | 237,326 | 262,726 | 288,126 | 313,525 | 338,925 | 364,325 | 389,725 | 1/32 |
| 23/64 | 9,1279 | 34,5274 | 59,9270 | 85,3265 | 110,726 | 136,125 | 161,525 | 186,924 | 212,324 | 237,723 | 263,123 | 288,523 | 313,922 | 339,322 | 364,722 | 390,122 | 23/64 |
| 3/8 | 9,5248 | 34,9243 | 60,3239 | 85,7234 | 111,122 | 136,522 | 161,925 | 187,321 | 212,721 | 238,120 | 263,520 | 288,920 | 314,319 | 339,719 | 365,119 | 390,519 | 3/8 |
| 25/64 | 9,9217 | 35,3212 | 60,7207 | 86,1203 | 111,529 | 136,919 | 162,318 | 187,718 | 213,118 | 238,517 | 263,917 | 289,317 | 314,716 | 340,116 | 365,516 | 390,916 | 25/64 |
| 13/32 | 10,3185 | 35,7180 | 61,1176 | 86,5171 | 111,916 | 137,316 | 162,715 | 188,115 | 213,514 | 238,914 | 264,313 | 289,712 | 315,113 | 340,513 | 365,913 | 391,313 | 13/32 |
| 27/64 | 10,7154 | 36,1149 | 61,5145 | 86,9140 | 112,313 | 137,713 | 163,112 | 188,512 | 213,911 | 239,311 | 264,710 | 290,110 | 315,509 | 340,909 | 366,309 | 391,709 | 27/64 |
| 7/16 | 11,1122 | 36,5118 | 61,9113 | 87,3109 | 112,710 | 138,109 | 163,509 | 188,909 | 214,308 | 239,708 | 265,107 | 290,507 | 315,906 | 341,306 | 366,706 | 392,106 | 3/16 |
| 29\%4 | 11,5091 | 36,9087 | 62,3082 | 87,7077 | 113,107 | 138,506 | 163,906 | 189,305 | 214,705 | 240,105 | 265,504 | 290,904 | 316,303 | 341,703 | 367,103 | 392,503 | 29/64 |
| 15/32 | 11,9060 | 37,3055 | 62,7051 | 88,1046 | 113,504 | 138,903 | 164,303 | 189,702 | 215,102 | 240,501 | 265,901 | 291,301 | 316,700 | 342,100 | 367,500 | 392,900 | 15/32 |
| ${ }^{31 / 64}$ | 12,3029 | 37,7024 | 63,1019 | 88,5015 | 113,901 | 139,300 | 164,700 | 190,099 | 215,499 | 240,898 | 266,298 | 291,698 | 317,097 | 342,497 | 367,897 | 393,297 | 31/64 |
| 1/2 | 12,6997 | 38,0993 | 63,4988 | 88,8983 | 114,297 | 139,697 | 165,097 | 190,496 | 215,896 | 241,295 | 266,695 | 292,095 | 317,494 | 342,894 | 368,294 | 393,694 | 1/2 |
| ${ }^{33 / 64}$ | 13,0966 | 38,4951 | 63,9957 | 89,2952 | 114,694 | 140,094 | 165,493 | 190,893 | 216,292 | 241,692 | 267,092 | 292,492 | 317,891 | 343,291 | 368,691 | 394,091 | 33/64 |
| 17/32 | 13,4934 | 38,8930 | 64,2925 | 89,6921 | 115,091 | 140,491 | 165,890 | 191,290 | 216,689 | 242,089 | 267,488 | 292,888 | 318,287 | 343,687 | 369,087 | 394,487 | 17/32 |
| ${ }^{35 / 64}$ | 13,8903 | 39,2899 | 64,6894 | 90,0989 | 115,489 | 140,888 | 166,287 | 191,687 | 217,086 | 242,486 | 267,885 | 293,285 | 318,684 | 344,084 | 369,484 | 394,884 | 35/64 |
| 9/6 | 14,2872 | 39,6867 | 65,0863 | 90,4858 | 115,885 | 141,284 | 166,684 | 192,084 | 217,483 | 242,883 | 268,282 | 293,682 | 319,081 | 344,481 | 369,881 | 395,281 | 9/16 |
| 37/64 | 14,6841 | 40,0836 | 65,4831 | 90,8827 | 116,282 | 141,681 | 167,081 | 192,480 | 217,880 | 243,279 | 268,679 | 294,079 | 319,478 | 344,878 | 370,278 | 395,678 | ${ }^{37} / 64$ |
| 19/32 | 15,0809 | 40,4805 | 65,8800 | 91,2795 | 116,679 | 142,078 | 167,478 | 192,877 | 218,277 | 243,676 | 269,076 | 294,476 | 319,875 | 345,275 | 370,675 | 396,075 | 19/32 |
| ${ }^{39 / 64}$ | 15,4778 | 40,8773 | 66,2769 | 91,6764 | 117,075 | 142,475 | 167,875 | 193,274 | 218,674 | 244,073 | 269,473 | 294,873 | 320,272 | 345,672 | 371,072 | 396,472 | \% 64 |
| 5/8 | 15,8747 | 41,2742 | 66,6739 | 92,0733 | 117,472 | 142,872 | 168,271 | 193,671 | 219,071 | 244,470 | 269,870 | 295,270 | 320,669 | 346,069 | 371,469 | 396,869 | 5/8 |
| ${ }^{41 / 64}$ | 16,2715 | 41,6711 | 67,0706 | 92,4701 | 117,869 | 143,269 | 168,608 | 194,068 | 219,467 | 244,867 | 270,266 | 295,666 | 321,066 | 346,466 | 371,866 | 397,266 | 41/64 |
| 21/32 | 16,6684 | 42,0679 | 67,4675 | 92,8670 | 118,266 | 143,666 | 169,065 | 194,464 | 219,864 | 245,263 | 270,663 | 296,063 | 321,462 | 346,862 | 372,262 | 397,662 | 21/32 |
| 43/64 | 17,0653 | 42,4648 | 67,8643 | 93,2689 | 118,663 | 144,063 | 169,462 | 194,862 | 220,261 | 245,661 | 271,060 | 296,460 | 321,859 | 347,259 | 372,659 | 398,059 | 43/64 |
| 11/16 | 17,4621 | 42,8617 | 68,2612 | 93,6608 | 119,060 | 144,459 | 169,859 | 195,258 | 220,658 | 246,058 | 271,457 | 296,857 | 322,256 | 347,656 | 373,056 | 398,456 | 11/16 |
| 45/64 | 17,8590 | 43,2585 | 68,6581 | 94,0576 | 119,457 | 144,856 | 170,256 | 195,655 | 221,055 | 246,454 | 271,854 | 297,254 | 322,653 | 348,053 | 373,453 | 398,853 | 45/64 |
| 23/32 | 18,2559 | 43,6554 | 69,0549 | 94,4545 | 119,854 | 145,253 | 170,653 | 196,052 | 221,452 | 246,851 | 272,251 | 297,651 | 323,050 | 348,450 | 373,850 | 399,250 | 23/32 |
| 47/64 | 18,6527 | 44,0523 | 69,4518 | 94,8513 | 120,250 | 145,650 | 171,050 | 196,449 | 221,849 | 247,284 | 272,648 | 298,048 | 323,447 | 348,847 | 374,247 | 399,647 | 47/64 |
| $3 / 4$ | 19,0496 | 44,4491 | 69,8487 | 95,2482 | 120,647 | 146,047 | 171,446 | 196,846 | 222,245 | 247,645 | 273,045 | 298,445 | 323,844 | 349,244 | 374,644 | 400,044 | $3 / 4$ |
| 49/64 | 19,4465 | 44,8460 | 70,2455 | 95,6451 | 121,044 | 146,444 | 171,843 | 197,243 | 222,642 | 248,042 | 273,441 | 298,841 | 324,241 | 349,641 | 375,041 | 400,441 | 49/64 |
| 25/32 | 19,8433 | 45,2429 | 70,6424 | 96,0419 | 121,441 | 146,841 | 172,240 | 197,640 | 223,039 | 248,439 | 273,838 | 299,238 | 324,637 | 350,037 | 375,437 | 400,837 | 25/3/ |
| $51 / 64$ | 20,2402 | 45,6397 | 71,0393 | 96,4398 | 121,838 | 147,237 | 172,637 | 198,037 | 223,436 | 248,836 | 274,235 | 299,635 | 325,034 | 350,434 | 375,834 | 401,234 | 51/64 |
| 13/16 | 20,6371 | 46,0366 | 71,4362 | 96,8357 | 122,235 | 147,634 | 173,034 | 198,433 | 223,883 | 249,232 | 274,632 | 300,032 | 325,431 | 350,831 | 376,231 | 401,631 | 13/16 |
| 53/64 | 21,0339 | 46,4335 | 71,8330 | 97,2326 | 122,632 | 148,031 | 173,431 | 198,830 | 224,230 | 249,629 | 275,029 | 300,429 | 325,828 | 351,228 | 376,628 | 402,028 | 53/64 |
| 27/32 | 21,4308 | 46,8303 | 72,2299 | 97,6294 | 123,029 | 148,428 | 173,828 | 199,227 | 224,627 | 250,026 | 275,426 | 300,826 | 326,225 | 351,625 | 377,025 | 402,425 | 27/32 |
| 55/64 | 21,8277 | 47,2272 | 72,6267 | 98,0263 | 123,425 | 148,825 | 174,224 | 199,624 | 225,024 | 250,423 | 275,823 | 301,223 | 326,622 | 352,022 | 377,422 | 402,822 | 55/64 |
| 7/8 | 22,2245 | 47,6241 | 73,0236 | 98,4232 | 123,822 | 149,222 | 174,621 | 200,021 | 225,420 | 250,820 | 276,220 | 301,620 | 327,019 | 352,419 | 377,819 | 403,219 | 7/8 |
| 57/64 | 22,6214 | 48,0209 | 73,4205 | 98,8200 | 124,219 | 149,619 | 175,018 | 200,418 | 225,817 | 251,217 | 276,616 | 302,016 | 327,415 | 352,815 | 378,215 | 403,615 | 57/64 |
| 29/32 | 23,0183 | 48,4178 | 73,8173 | 99,2169 | 124,616 | 150,016 | 175,415 | 200,815 | 226,214 | 251,614 | 277,013 | 302,413 | 327,812 | 353,212 | 378,612 | 404,012 | 29/32 |
| 59/64 | 23,4151 | 48,8137 | 74,2142 | 99,6137 | 125,013 | 150,413 | 175,812 | 201,211 | 226,611 | 252,011 | 277,410 | 302,810 | 328,209 | 353,609 | 379,009 | 404,409 | 59/64 |
| 15/16 | 23,8120 | 49,2116 | 74,6111 | 100,011 | 125,410 | 150,810 | 176,209 | 201,608 | 227,008 | 252,407 | 277,807 | 303,207 | 328,606 | 354,006 | 379,406 | 404,806 | 15/16 |
| ${ }^{61 / 64}$ | 24,2039 | 49,6084 | 75,0080 | 100,402 | 125,801 | 151,201 | 176,600 | 202,005 | 227,405 | 252,804 | 278,204 | 303,599 | 328,998 | 354,398 | 379,798 | 405,198 | ${ }^{61 / 64}$ |
| ${ }^{31} 32$ | 24,6057 | 50,0052 | 75,4048 | 100,804 | 126,203 | 151,603 | 177,002 | 202,402 | 227,802 | 253,201 | 278,601 | 304,001 | 329,400 | 354,800 | 380,200 | 405,600 | ${ }^{31 / 3}$ |
| ${ }^{63 / 64}$ | 25,0026 | 50,4021 | 75,8017 | 101,201 | 126,600 | 152,000 | 177,399 | 202,799 | 228,198 | 253,598 | 278,998 | 304,398 | 329,797 | 355,197 | 380,597 | 405,997 | 63/64 |

