

8.8 KALİTE METRİK CİVATALAR DIN 931 - DIN 933

| | M5 | M6 | M7 | M8 | M10 | M12 | M14 | M16 |
|-----|-------|-------|-------|--------|--------|--------|--------|--------|
| 10 | 4,08 | 5,83 | | 10,04 | | | | |
| 12 | 4,08 | 5,21 | 7,10 | 10,04 | | | | |
| 15 | 3,93 | 4,39 | 7,89 | 8,08 | 15,26 | | | |
| 16 | 3,93 | 4,39 | 7,89 | 8,08 | 15,26 | | | |
| 18 | 4,26 | 4,48 | 8,44 | 8,56 | 16,12 | | | |
| 20 | 4,34 | 4,48 | 8,44 | 9,03 | 15,72 | 23,46 | 43,73 | |
| 25 | 4,86 | 5,02 | 9,44 | 9,95 | 17,52 | 24,78 | 43,73 | 56,47 |
| 30 | 5,72 | 5,97 | 10,20 | 10,91 | 18,68 | 27,24 | 44,77 | 60,62 |
| 35 | 6,41 | 6,60 | 11,27 | 12,22 | 20,44 | 29,74 | 46,24 | 62,51 |
| 40 | 7,80 | 7,67 | 13,52 | 14,05 | 23,45 | 32,44 | 49,40 | 65,97 |
| 45 | 8,78 | 8,34 | 14,54 | 15,38 | 25,46 | 36,54 | 53,03 | 70,99 |
| 50 | 9,35 | 9,15 | 15,79 | 16,43 | 27,59 | 39,95 | 58,97 | 75,30 |
| 55 | 13,13 | 10,35 | 17,67 | 18,40 | 30,84 | 42,04 | 64,07 | 81,75 |
| 60 | 15,84 | 11,70 | 19,41 | 19,15 | 31,71 | 45,07 | 67,66 | 84,53 |
| 65 | 16,05 | 13,30 | 23,69 | 21,26 | 34,89 | 48,97 | 71,87 | 91,57 |
| 70 | 21,87 | 14,54 | 24,78 | 22,70 | 37,09 | 52,08 | 76,53 | 95,62 |
| 75 | 23,32 | 17,46 | 27,70 | 24,55 | 40,37 | 55,18 | 84,33 | 104,86 |
| 80 | 30,61 | 19,21 | 28,43 | 25,55 | 42,78 | 58,33 | 85,29 | 109,46 |
| 85 | 33,57 | 32,87 | 31,70 | 28,54 | 47,11 | 61,95 | 94,02 | 115,73 |
| 90 | 39,36 | 34,53 | 33,57 | 30,50 | 47,07 | 64,89 | 94,30 | 120,96 |
| 100 | 44,84 | 45,19 | 35,70 | 33,81 | 53,97 | 71,05 | 103,55 | 135,47 |
| 110 | | 54,11 | | 38,43 | 59,99 | 78,66 | 115,00 | 149,73 |
| 120 | | 65,71 | | 43,96 | 65,57 | 86,23 | 127,99 | 165,02 |
| 130 | | 71,65 | | 48,78 | 74,26 | 104,99 | 147,72 | 175,04 |
| 140 | | 76,86 | | 52,94 | 81,72 | 117,84 | 156,93 | 192,72 |
| 150 | | 82,99 | | 58,14 | 112,36 | 127,68 | 159,43 | 211,04 |
| 160 | | 89,62 | | 63,82 | 120,41 | 181,31 | 250,04 | 225,58 |
| 170 | | | | 69,46 | | 191,99 | 264,27 | 248,14 |
| 180 | | | | 75,82 | 128,86 | 202,66 | 278,49 | 273,90 |
| 190 | | | | | | 213,30 | 292,72 | 302,24 |
| 200 | | | | 121,88 | 137,93 | 223,98 | 308,11 | 332,46 |
| 210 | | | | | | | | |
| 220 | | | | | | | | 338,67 |
| 230 | | | | | | | | |
| 240 | | | | | | | | 369,10 |
| 250 | | | | | | | | |
| 260 | | | | | | | | 403,49 |

8.8 KALİTE METRİK CİVATALAR DIN 931 - DIN 933

| | M18 | M20 | M22 | M24 | M27 | M30 | M33 | M36 |
|-----|--------|--------|--------|--------|----------|----------|----------|----------|
| 40 | 104,57 | 110,36 | 193,90 | 238,35 | | | | |
| 45 | 98,48 | 113,72 | 205,28 | 253,91 | | | | |
| 50 | 104,41 | 120,16 | 217,66 | 266,18 | 325,58 | 424,69 | | |
| 55 | 109,90 | 125,12 | 226,61 | 282,20 | | | | |
| 60 | 118,03 | 131,82 | 235,28 | 291,97 | 389,05 | 507,82 | | |
| 65 | 126,39 | 143,07 | 244,82 | 302,41 | 406,82 | 529,33 | | |
| 70 | 132,74 | 158,51 | 266,39 | 314,98 | 424,58 | 551,77 | | |
| 75 | 135,45 | 168,92 | 282,14 | 334,39 | 442,36 | 574,22 | | |
| 80 | 144,75 | 179,10 | 297,34 | 371,70 | 478,82 | 595,74 | | |
| 85 | 151,86 | 185,12 | | | | | | |
| 90 | 162,38 | 196,22 | 329,90 | 401,90 | 520,92 | 665,88 | 809,94 | 1,030,66 |
| 100 | 181,02 | 217,39 | 362,74 | 421,64 | 563,93 | 717,31 | 889,39 | 1,105,41 |
| 110 | 202,79 | 237,69 | 395,55 | 462,97 | 607,89 | 769,68 | 953,92 | 1,159,66 |
| 120 | 224,54 | 255,29 | 413,37 | 501,42 | 649,97 | 822,98 | 1,019,38 | 1,234,48 |
| 130 | 242,87 | 278,27 | 439,20 | 533,22 | 673,37 | 860,39 | 1,075,50 | 1,299,94 |
| 140 | 268,08 | 301,17 | 471,71 | 577,85 | 715,43 | 911,83 | 1,140,96 | 1,374,76 |
| 150 | 297,84 | 319,76 | 499,48 | 606,99 | 757,52 | 963,26 | 1,206,42 | 1,449,57 |
| 160 | 330,44 | 342,32 | 542,89 | 640,20 | 799,60 | 1,014,70 | 1,262,53 | 1,524,39 |
| 170 | 363,60 | 378,46 | 564,14 | 692,81 | 841,69 | 1,066,14 | 1,318,64 | 1,599,20 |
| 180 | 403,44 | 414,31 | 593,82 | 727,45 | 883,78 | 1,122,24 | 1,384,11 | 1,674,03 |
| 190 | 447,85 | 455,64 | 623,51 | 762,08 | 925,86 | 1,169,01 | 1,440,22 | 1,748,84 |
| 200 | 497,10 | 501,21 | 653,76 | 796,72 | 963,26 | 1,225,12 | 1,505,70 | 1,823,66 |
| 210 | | | | 750,10 | | | | |
| 220 | 506,68 | 511,87 | 683,98 | 763,33 | 1,041,20 | 1,157,56 | 1,442,00 | 1,719,81 |
| 230 | | 555,63 | | 776,57 | | | | |
| 240 | 552,32 | 595,32 | 714,21 | 791,12 | | | | |
| 250 | | 648,24 | | 800,37 | | 1,277,30 | | 2,057,89 |
| 260 | 601,93 | | 744,45 | 814,93 | 1,224,94 | | | |
| 280 | | | | 832,13 | | | | |
| 300 | | | | 859,90 | | | | |