

Abmessung

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| d | | | | M5 | | M6 | | M8 | | M10 | | M12 | |
| b | | | 2) | 16 | | 18 | | 22 | | 26 | | 30 | |
| 3) | - | | - | | - | | - | | - | |
| 4) | - | | - | | - | | - | | - | |
| emin. | | | | 8,63 | | 10,89 | | 14,2 | | 17,59 | | 19,85 | |
| kNennm. | | | | 3,5 | | 4 | | 5,3 | | 6,4 | | 7,5 | |
| kmin. | | | | 3,125 | | 3,625 | | 4,925 | | 5,95 | | 7,05 | |
| kmax. | | | | 3,875 | | 4,375 | | 5,675 | | 6,85 | | 7,95 | |
| k'5) | | | | 2,19 | | 2,54 | | 3,45 | | 4,17 | | 4,94 | |
| rmin. | | | | 0,2 | | 0,25 | | 0,4 | | 0,4 | | 0,6 | |
| sNennm. | | | | 8 | | 10 | | 13 | | 16 | | 18 | |
| smin. | | | | 7,64 | | 9,64 | | 12,57 | | 15,57 | | 17,57 | |
| l | | | | ls und lg 6), 7) | | | | | | | | | |
| Nennm. | min. | max. | | ls min. | lg max. | ls min. | lg max. | ls min. | lg max. | ls min. | lg max. | ls min. | lg max. |
| 25 | 23,95 | 26,05 | | 5 | 9 |  |  |  |  |  |  |  |  |
| 30 | 28,95 | 31,05 | | 10 | 14 | 7 | 12 |  |  |  |  |  |  |
| 35 | 33,75 | 36,25 | | 15 | 19 | 12 | 17 |  |  |  |  |  |  |
| 40 | 38,75 | 41,25 | | 20 | 24 | 17 | 22 | 11,75 | 18 |  |  |  |  |
| 45 | 43,75 | 46,25 | | 25 | 29 | 22 | 27 | 16,75 | 23 | 11,5 | 19 |  |  |
| 50 | 48,75 | 51,25 | | 30 | 34 | 27 | 32 | 21,75 | 28 | 16,5 | 24 |  |  |
| 55 | 53,5 | 56,5 | |  |  | 32 | 37 | 26,75 | 33 | 21,5 | 29 | 16,25 | 25 |
| 60 | 58,5 | 61,5 | |  |  | 37 | 42 | 31,75 | 38 | 26,5 | 34 | 21,25 | 30 |
| 65 | 63,5 | 66,5 | |  |  |  |  | 36,75 | 43 | 31,5 | 39 | 26,25 | 35 |
| 70 | 68,5 | 71,5 | |  |  |  |  | 41,75 | 48 | 36,5 | 44 | 31,25 | 40 |
| 80 | 78,5 | 81,5 | |  |  |  |  | 51,75 | 58 | 46,5 | 54 | 41,25 | 50 |
| 90 | 88,25 | 91,75 | |  |  |  |  |  |  | 56,5 | 64 | 51,25 | 60 |
| 100 | 98,25 | 101,75 | |  |  |  |  |  |  | 66,5 | 74 | 61,25 | 70 |
| 110 | 108,25 | 111,75 | |  |  |  |  |  |  |  |  | 71,25 | 80 |
| 120 | 118,25 | 121,75 | |  |  |  |  |  |  |  |  | 81,25 | 90 |

Stück

Abmessung

Stück

2) Für Längen l 125mm

3) Für Längen 125mm l 200mm

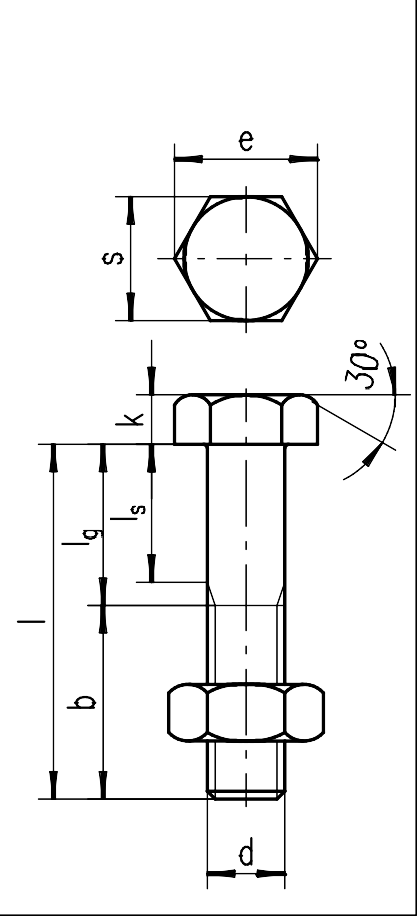
4) Für Längen l 200mm

1. k'min=0,7 kmin
2. lg max = lNennmaß -b ls min = lg max -5 P

7) lg ist die Mindestklemmlänge

Abmessung Stück

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| M5 | x | 16 | 500 |  | M8 | x | 30 | 200 |  | M10 | x | 110 | 50 |
| M5 | x | 20 | 500 |  | M8 | x | 35 | 200 |  | M10 | x | 120 | 50 |
| M5 | x | 25 | 500 |  | M8 | x | 40 | 200 |  | M10 | x | 130 | 50 |
| M5 | x | 30 | 500 |  | M8 | x | 45 | 200 |  | M10 | x | 140 | 50 |
| M5 | x | 35 | 200 |  | M8 | x | 50 | 200 |  | M10 | x | 150 | 50 |
| M5 | x | 40 | 200 |  | M8 | x | 55 | 200 |  | M10 | x | 160 | 50 |
| M5 | x | 45 | 200 |  | M8 | x | 60 | 200 |  | M10 | x | 170 | 50 |
| M5 | x | 50 | 200 |  | M8 | x | 65 | 200 |  | M10 | x | 180 | 50 |
| M5 | x | 55 | 200 |  | M8 | x | 70 | 200 |  | M10 | x | 190 | 50 |
| M5 | x | 60 | 200 |  | M8 | x | 75 | 200 |  | M10 | x | 200 | 50 |
| M5 | x | 70 | 200 |  | M8 | x | 80 | 200 |  | M10 | x | 220 | 25 |
| M5 | x | 80 | 200 |  | M8 | x | 90 | 100 |  | M10 | x | 240 | 25 |
| M6 | x | 10 | 500 |  | M8 | x | 100 | 100 |  | M10 | x | 260 | 25 |
| M6 | x | 12 | 500 |  | M8 | x | 110 | 100 |  | M10 | x | 280 | 25 |
| M6 | x | 16 | 500 |  | M8 | x | 120 | 100 |  | M10 | x | 300 | 25 |
| M6 | x | 20 | 500 |  | M8 | x | 130 | 100 |  | M12 | x | 20 | 100 |
| M6 | x | 25 | 500 |  | M8 | x | 140 | 50 |  | M12 | x | 25 | 100 |
| M6 | x | 30 | 500 |  | M8 | x | 150 | 50 |  | M12 | x | 30 | 100 |
| M6 | x | 35 | 200 |  | M8 | x | 160 | 50 |  | M12 | x | 35 | 100 |
| M6 | x | 40 | 200 |  | M10 | x | 16 | 200 |  | M12 | x | 40 | 100 |
| M6 | x | 45 | 200 |  | M10 | x | 20 | 200 |  | M12 | x | 45 | 100 |
| M6 | x | 50 | 200 |  | M10 | x | 25 | 200 |  | M12 | x | 50 | 100 |
| M6 | x | 55 | 200 |  | M10 | x | 30 | 200 |  | M12 | x | 55 | 100 |
| M6 | x | 60 | 200 |  | M10 | x | 35 | 100 |  | M12 | x | 60 | 100 |
| M6 | x | 65 | 200 |  | M10 | x | 40 | 100 |  | M12 | x | 65 | 50 |
| M6 | x | 70 | 200 |  | M10 | x | 45 | 100 |  | M12 | x | 70 | 50 |
| M6 | x | 75 | 200 |  | M10 | x | 50 | 100 |  | M12 | x | 75 | 50 |
| M6 | x | 80 | 200 |  | M10 | x | 55 | 100 |  | M12 | x | 80 | 50 |
| M6 | x | 90 | 100 |  | M10 | x | 60 | 100 |  | M12 | x | 85 | 50 |
| M6 | x | 100 | 100 |  | M10 | x | 65 | 100 |  | M12 | x | 90 | 50 |
| M6 | x | 110 | 100 |  | M10 | x | 70 | 100 |  | M12 | x | 100 | 50 |
| M6 | x | 130 | 100 |  | M10 | x | 75 | 100 |  | M12 | x | 110 | 50 |
| M8 | x | 16 | 200 |  | M10 | x | 80 | 100 |  | M12 | x | 120 | 50 |
| M8 | x | 20 | 200 |  | M10 | x | 90 | 100 |  | M12 | x | 130 | 50 |
| M8 | x | 25 | 200 |  | M10 | x | 100 | 100 |  | M12 | x | 140 | 50 |



2) Für Längen l 125mm

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| d | | | | M12 | | M14 | | M16 | | M18 | |
| b | | | 2) | 30 | | 34 | | 38 | | 42 | |
| 3) | - | | 40 | | 44 | | 48 | |
| 4) | - | | - | | - | | - | |
| emin. | | | | 19,85 | | 22,78 | | 26,17 | | 29,56 | |
| kNennm. | | | | 7,5 | | 8,8 | | 10 | | 11,5 | |
| kmin. | | | | 7,05 | | 8,35 | | 9,25 | | 10,6 | |
| kmax. | | | | 7,95 | | 9,25 | | 10,75 | | 12,4 | |
| k'5) | | | | 4,94 | | 5,85 | | 6,48 | | 7,42 | |
| rmin. | | | | 0,6 | | 0,6 | | 0,6 | | 0,6 | |
| sNennm. | | | | 18 | | 21 | | 24 | | 27 | |
| smin. | | | | 17,57 | | 20,16 | | 23,16 | | 26,16 | |
| l | | | | ls und lg 6), 7) | | | | | | | |
| Nennm. | min. | max. | | ls min. | lg max. | ls min. | lg max. | ls min. | lg max. | ls min. | lg max. |
| 55 | 53,5 | 56,5 | | 16,25 | 25 |  |  |  |  |  |  |
| 60 | 58,5 | 61,5 | | 21,25 | 30 | 16 | 26 |  |  |  |  |
| 65 | 63,5 | 66,5 | | 26,25 | 35 | 21 | 31 | 17 | 27 |  |  |
| 70 | 68,5 | 71,5 | | 31,25 | 40 | 26 | 36 | 22 | 32 |  |  |
| 80 | 78,5 | 81,5 | | 41,25 | 50 | 36 | 46 | 32 | 42 | 25,5 | 38 |
| 90 | 88,25 | 91,75 | | 51,25 | 60 | 46 | 56 | 42 | 52 | 35,5 | 48 |
| 100 | 98,25 | 101,75 | | 61,25 | 70 | 56 | 66 | 52 | 62 | 45,5 | 58 |
| 110 | 108,25 | 111,75 | | 71,25 | 80 | 66 | 76 | 62 | 72 | 55,5 | 68 |
| 120 | 118,25 | 121,75 | | 81,25 | 90 | 76 | 86 | 72 | 82 | 65,5 | 78 |
| 130 | 128 | 132 | |  |  | 80 | 90 | 76 | 86 | 69,5 | 82 |
| 140 | 138 | 142 | |  |  | 90 | 100 | 86 | 96 | 79,5 | 92 |
| 150 | 148 | 152 | |  |  |  |  | 96 | 106 | 89,5 | 102 |
| 160 | 156 | 164 | |  |  |  |  | 106 | 116 | 99,5 | 112 |
| 180 | 176 | 184 | |  |  |  |  |  |  | 119,5 | 132 |

3) Für Längen 125mm l 200mm

4) Für Längen l 200mm

1. k'min=0,7 kmin
2. lg max = lNennmaß -b ls min = lg max -5 P

7) lg ist die Mindestklemmlänge

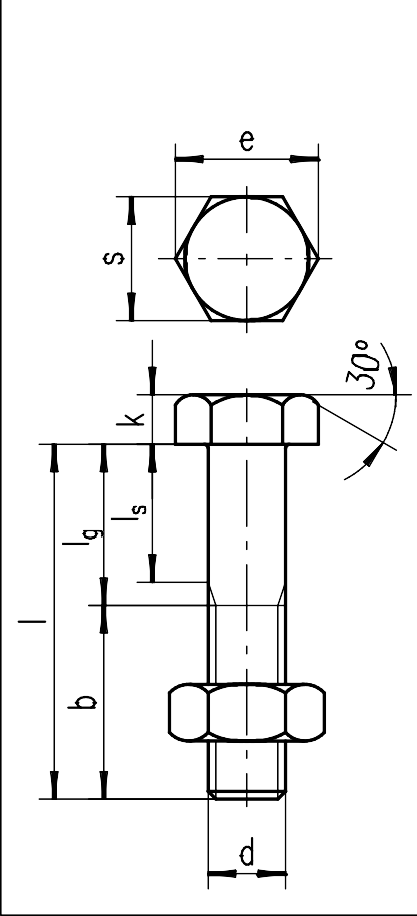
Abmessung Stück Abmessung

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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| M12 | x | 150 | 50 |  | M14 | x | 90 | 50 |  | M16 | x | 160 | 25 |
| M12 | x | 160 | 50 |  | M14 | x | 100 | 50 |  | M16 | x | 170 | 25 |
| M12 | x | 170 | 50 |  | M14 | x | 110 | 50 |  | M16 | x | 180 | 25 |
| M12 | x | 180 | 50 |  | M14 | x | 120 | 50 |  | M16 | x | 190 | 25 |
| M12 | x | 190 | 50 |  | M14 | x | 130 | 50 |  | M16 | x | 200 | 25 |
| M12 | x | 200 | 50 |  | M14 | x | 140 | 25 |  | M16 | x | 220 | 25 |
| M12 | x | 220 | 25 |  | M14 | x | 150 | 25 |  | M16 | x | 240 | 25 |
| M12 | x | 240 | 25 |  | M14 | x | 160 | 25 |  | M16 | x | 250 | 25 |
| M12 | x | 250 | 25 |  | M14 | x | 180 | 25 |  | M16 | x | 260 | 25 |
| M12 | x | 260 | 25 |  | M14 | x | 200 | 25 |  | M16 | x | 280 | 25 |
| M12 | x | 280 | 25 |  | M14 | x | 220 | 25 |  | M16 | x | 300 | 25 |
| M12 | x | 300 | 25 |  | M14 | x | 240 | 25 |  | M16 | x | 320 | 10 |
| M12 | x | 320 | 25 |  | M14 | x | 260 | 25 |  | M16 | x | 340 | 10 |
| M12 | x | 340 | 25 |  | M14 | x | 280 | 25 |  | M16 | x | 360 | 10 |
| M12 | x | 360 | 25 |  | M14 | x | 300 | 25 |  | M16 | x | 380 | 10 |
| M12 | x | 380 | 25 |  | M16 | x | 30 | 50 |  | M16 | x | 400 | 10 |
| M12 | x | 400 | 25 |  | M16 | x | 35 | 50 |  | M16 | x | 420 | 10 |
| M12 | x | 420 | 25 |  | M16 | x | 40 | 50 |  | M16 | x | 440 | 10 |
| M12 | x | 440 | 25 |  | M16 | x | 45 | 50 |  | M16 | x | 460 | 10 |
| M12 | x | 460 | 25 |  | M16 | x | 50 | 50 |  | M16 | x | 480 | 10 |
| M12 | x | 480 | 25 |  | M16 | x | 55 | 50 |  | M16 | x | 500 | 10 |
| M12 | x | 500 | 25 |  | M16 | x | 60 | 50 |  | M16 | x | 520 | 10 |
| M14 | x | 20 | 100 |  | M16 | x | 65 | 25 |  | M16 | x | 540 | 10 |
| M14 | x | 25 | 100 |  | M16 | x | 70 | 25 |  | M16 | x | 560 | 10 |
| M14 | x | 30 | 100 |  | M16 | x | 75 | 25 |  | M16 | x | 580 | 10 |
| M14 | x | 35 | 100 |  | M16 | x | 80 | 25 |  | M16 | x | 600 | 10 |
| M14 | x | 40 | 100 |  | M16 | x | 85 | 25 |  | M18 | x | 30 | 50 |
| M14 | x | 45 | 50 |  | M16 | x | 90 | 25 |  | M18 | x | 35 | 50 |
| M14 | x | 50 | 50 |  | M16 | x | 95 | 25 |  | M18 | x | 40 | 50 |
| M14 | x | 55 | 50 |  | M16 | x | 100 | 25 |  | M18 | x | 45 | 50 |
| M14 | x | 60 | 50 |  | M16 | x | 110 | 25 |  | M18 | x | 50 | 50 |
| M14 | x | 65 | 50 |  | M16 | x | 120 | 25 |  | M18 | x | 55 | 25 |
| M14 | x | 70 | 50 |  | M16 | x | 130 | 25 |  | M18 | x | 60 | 25 |
| M14 | x | 75 | 50 |  | M16 | x | 140 | 25 |  | M18 | x | 65 | 25 |
| M14 | x | 80 | 50 |  | M16 | x | 150 | 25 |  | M18 | x | 70 | 25 |



Abmessung

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| d | | | | M18 | | M20 | | M22 | | M24 | |
| b | | | 2) | 42 | | 46 | | 50 | | 54 | |
| 3) | 48 | | 52 | | 56 | | 60 | |
| 4) | - | | - | | 69 | | 73 | |
| emin. | | | | 29,56 | | 32,95 | | 37,29 | | 39,55 | |
| kNennm. | | | | 11,5 | | 12,5 | | 14 | | 15 | |
| kmin. | | | | 10,6 | | 11,6 | | 13,1 | | 14,1 | |
| kmax. | | | | 12,4 | | 13,4 | | 14,9 | | 15,9 | |
| k'5) | | | | 7,42 | | 8,12 | | 9,17 | | 9,87 | |
| rmin. | | | | 0,6 | | 0,8 | | 0,8 | | 0,8 | |
| sNennm. | | | | 27 | | 30 | | 34 | | 36 | |
| smin. | | | | 26,16 | | 29,16 | | 33 | | 35 | |
| l | | | | ls und lg 6), 7) | | | | | | | |
| Nennm. | min. | max. | | ls min. | lg max. | ls min. | lg max. | ls min. | lg max. | ls min. | lg max. |
| 80 | 78,5 | 81,5 | | 25,5 | 38 | 21,5 | 40 |  |  |  |  |
| 90 | 88,25 | 91,75 | | 35,5 | 48 | 31,5 | 50 | 27,5 | 27 |  |  |
| 100 | 98,25 | 101,75 | | 45,5 | 58 | 41,5 | 60 | 37,5 | 32 | 31 | 46 |
| 110 | 108,25 | 111,75 | | 55,5 | 68 | 51,5 | 70 | 47,5 | 42 | 41 | 56 |
| 120 | 118,25 | 121,75 | | 65,5 | 78 | 51,5 | 74 | 57,5 | 52 | 51 | 66 |
| 130 | 128 | 132 | | 69,5 | 82 | 65,5 | 84 | 61,5 | 62 | 55 | 70 |
| 140 | 138 | 142 | | 79,5 | 92 | 75,5 | 94 | 71,5 | 72 | 65 | 80 |
| 150 | 148 | 152 | | 89,5 | 102 | 85,5 | 104 | 81,5 | 82 | 75 | 90 |
| 160 | 156 | 164 | | 99,5 | 112 | 95,5 | 124 | 91,5 | 86 | 85 | 100 |
| 180 | 176 | 184 | | 119,5 | 132 | 115,5 | 144 | 111,5 | 96 | 105 | 120 |
| 200 | 195,4 | 204,6 | |  |  | 135,5 | 151 | 131,5 | 106 | 125 | 140 |
| 220 | 215,4 | 224,6 | |  |  |  |  | 138,5 | 116 | 132 | 147 |
| 240 | 235,4 | 244,6 | |  |  |  |  |  |  | 152 | 167 |

Stück

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Stück

2) Für Längen l 125mm

3) Für Längen 125mm l 200mm

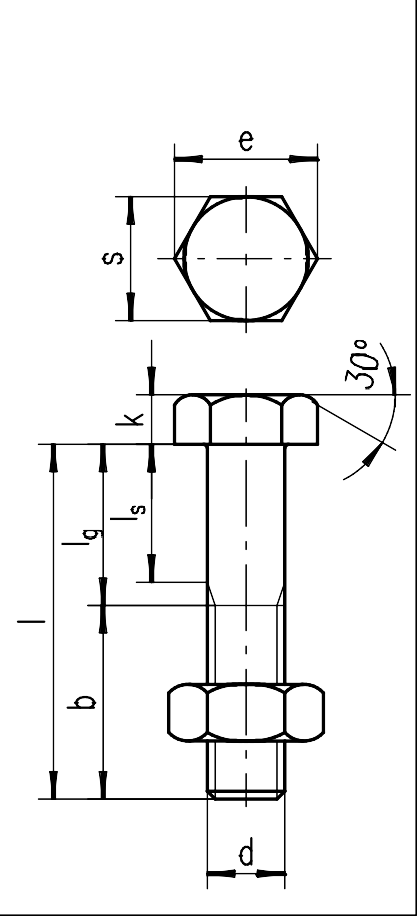
4) Für Längen l 200mm

1. k'min=0,7 kmin
2. lg max = lNennmaß -b ls min = lg max -5 P

7) lg ist die Mindestklemmlänge

Abmessung Stück

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| M18 | x | 75 | 25 |  | M20 | x | 130 | 25 |  | M22 | x | 70 | 25 |
| M18 | x | 80 | 25 |  | M20 | x | 140 | 25 |  | M22 | x | 75 | 25 |
| M18 | x | 85 | 25 |  | M20 | x | 150 | 25 |  | M22 | x | 80 | 25 |
| M18 | x | 90 | 25 |  | M20 | x | 160 | 10 |  | M22 | x | 90 | 25 |
| M18 | x | 100 | 25 |  | M20 | x | 170 | 10 |  | M22 | x | 100 | 10 |
| M18 | x | 110 | 25 |  | M20 | x | 180 | 10 |  | M22 | x | 110 | 10 |
| M18 | x | 120 | 25 |  | M20 | x | 190 | 10 |  | M22 | x | 120 | 10 |
| M18 | x | 130 | 25 |  | M20 | x | 200 | 10 |  | M22 | x | 130 | 10 |
| M18 | x | 140 | 25 |  | M20 | x | 220 | 10 |  | M22 | x | 140 | 10 |
| M18 | x | 150 | 25 |  | M20 | x | 240 | 10 |  | M22 | x | 150 | 10 |
| M18 | x | 160 | 25 |  | M20 | x | 250 | 10 |  | M22 | x | 160 | 10 |
| M18 | x | 180 | 25 |  | M20 | x | 260 | 10 |  | M22 | x | 170 | 10 |
| M18 | x | 200 | 25 |  | M20 | x | 280 | 10 |  | M22 | x | 180 | 10 |
| M18 | x | 220 | 25 |  | M20 | x | 300 | 10 |  | M22 | x | 200 | 10 |
| M18 | x | 240 | 25 |  | M20 | x | 320 | 10 |  | M22 | x | 220 | 1 |
| M18 | x | 260 | 25 |  | M20 | x | 340 | 10 |  | M22 | x | 240 | 1 |
| M18 | x | 280 | 25 |  | M20 | x | 360 | 10 |  | M22 | x | 260 | 1 |
| M18 | x | 300 | 25 |  | M20 | x | 380 | 10 |  | M22 | x | 280 | 1 |
| M20 | x | 30 | 25 |  | M20 | x | 400 | 10 |  | M22 | x | 300 | 1 |
| M20 | x | 35 | 25 |  | M20 | x | 420 | 10 |  | M22 | x | 320 | 1 |
| M20 | x | 40 | 25 |  | M20 | x | 440 | 10 |  | M22 | x | 340 | 1 |
| M20 | x | 45 | 25 |  | M20 | x | 460 | 10 |  | M22 | x | 360 | 1 |
| M20 | x | 50 | 25 |  | M20 | x | 480 | 1 |  | M22 | x | 380 | 1 |
| M20 | x | 55 | 25 |  | M20 | x | 500 | 1 |  | M22 | x | 400 | 1 |
| M20 | x | 60 | 25 |  | M20 | x | 520 | 1 |  | M24 | x | 40 | 25 |
| M20 | x | 65 | 25 |  | M20 | x | 540 | 1 |  | M24 | x | 45 | 25 |
| M20 | x | 70 | 25 |  | M20 | x | 560 | 1 |  | M24 | x | 50 | 25 |
| M20 | x | 75 | 25 |  | M20 | x | 580 | 1 |  | M24 | x | 55 | 25 |
| M20 | x | 80 | 25 |  | M20 | x | 600 | 1 |  | M24 | x | 60 | 25 |
| M20 | x | 85 | 25 |  | M22 | x | 40 | 25 |  | M24 | x | 65 | 25 |
| M20 | x | 90 | 25 |  | M22 | x | 45 | 25 |  | M24 | x | 70 | 25 |
| M20 | x | 95 | 25 |  | M22 | x | 50 | 25 |  | M24 | x | 75 | 25 |
| M20 | x | 100 | 25 |  | M22 | x | 55 | 25 |  | M24 | x | 80 | 25 |
| M20 | x | 110 | 25 |  | M22 | x | 60 | 25 |  | M24 | x | 85 | 10 |
| M20 | x | 120 | 25 |  | M22 | x | 65 | 25 |  | M24 | x | 90 | 10 |



2) Für Längen l 125mm

3) Für Längen 125mm l 200mm

4) Für Längen l 200mm

1. k'min=0,7 kmin
2. lg max = lNennmaß -b ls min = lg max -5 P

7) lg ist die Mindestklemmlänge

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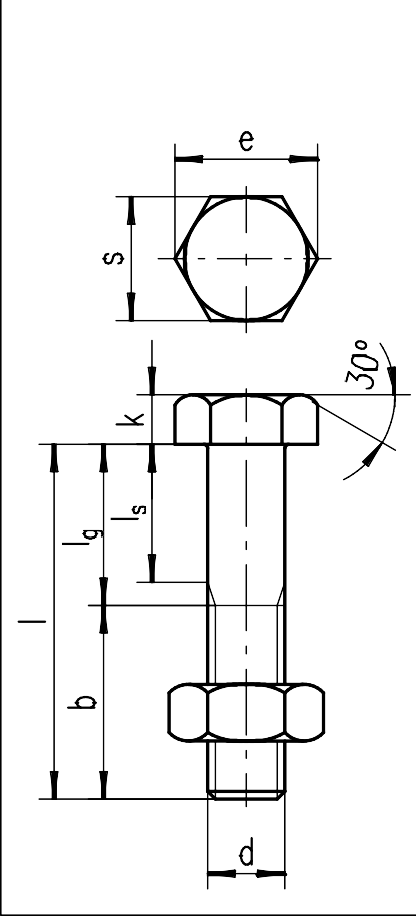
|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| d | | | | M24 | | M27 | | M30 | | M33 | |
| b | | | 2) | 54 | | 60 | | 66 | | - | |
| 3) | 60 | | 66 | | 72 | | 78 | |
| 4) | 73 | | 79 | | 85 | | 91 | |
| emin. | | | | 39,55 | | 45,2 | | 50,85 | | 55,37 | |
| kNennm. | | | | 15 | | 17 | | 18,7 | | 21 | |
| kmin. | | | | 14,1 | | 16,1 | | 17,65 | | 19,95 | |
| kmax. | | | | 15,9 | | 17,9 | | 19,75 | | 22,05 | |
| k'5) | | | | 9,87 | | 11,27 | | 12,36 | | 13,97 | |
| rmin. | | | | 0,8 | | 1 | | 1 | | 1 | |
| sNennm. | | | | 36 | | 41 | | 46 | | 50 | |
| smin. | | | | 35 | | 40 | | 45 | | 49 | |
| l | | | | ls und lg 6), 7) | | | | | | | |
| Nennm. | min. | max. | | ls min. | lg max. | ls min. | lg max. | ls min. | lg max. | ls min. | lg max. |
| 100 | 98,25 | 101,75 | | 31 | 46 |  |  |  |  |  |  |
| 110 | 108,25 | 111,75 | | 41 | 56 | 35 | 50 |  |  |  |  |
| 120 | 118,25 | 121,75 | | 51 | 66 | 45 | 60 | 36,5 | 54 |  |  |
| 130 | 128 | 132 | | 55 | 70 | 49 | 64 | 40,5 | 58 | 34,5 | 52 |
| 140 | 138 | 142 | | 65 | 80 | 59 | 74 | 50,5 | 68 | 44,5 | 62 |
| 150 | 148 | 152 | | 75 | 90 | 69 | 84 | 60,5 | 78 | 54,5 | 72 |
| 160 | 156 | 164 | | 85 | 100 | 79 | 94 | 70,5 | 88 | 64,5 | 82 |
| 180 | 176 | 184 | | 105 | 120 | 99 | 114 | 90,5 | 108 | 84,5 | 102 |
| 200 | 195,4 | 204,6 | | 125 | 140 | 119 | 134 | 110,5 | 128 | 104,5 | 122 |
| 220 | 215,4 | 224,6 | | 132 | 147 | 126 | 141 | 117,5 | 135 | 111,5 | 129 |
| 240 | 235,4 | 244,6 | | 152 | 167 | 146 | 161 | 137,5 | 155 | 131,5 | 149 |
| 260 | 254,8 | 265,2 | |  |  | 166 | 181 | 157,5 | 175 | 151,5 | 167 |
| 280 | 274,8 | 285,2 | |  |  |  |  | 177,5 | 195 | 171,5 | 189 |
| 300 | 294,8 | 305,2 | |  |  |  |  | 197,5 | 215 | 191,5 | 209 |
| 320 |  |  | |  |  |  |  |  |  | 211,5 | 229 |

Stück

Abmessung

Stück

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| M24 | x | 100 | 10 |  | M27 | x | 75 | 10 |  | M30 | x | 220 | 1 |
| M24 | x | 110 | 10 |  | M27 | x | 80 | 10 |  | M30 | x | 240 | 1 |
| M24 | x | 120 | 10 |  | M27 | x | 85 | 10 |  | M30 | x | 260 | 1 |
| M24 | x | 130 | 10 |  | M27 | x | 90 | 10 |  | M30 | x | 280 | 1 |
| M24 | x | 140 | 10 |  | M27 | x | 100 | 10 |  | M30 | x | 300 | 1 |
| M24 | x | 150 | 10 |  | M27 | x | 110 | 10 |  | M30 | x | 320 | 1 |
| M24 | x | 160 | 10 |  | M27 | x | 120 | 10 |  | M30 | x | 340 | 1 |
| M24 | x | 170 | 10 |  | M27 | x | 130 | 10 |  | M30 | x | 360 | 1 |
| M24 | x | 180 | 10 |  | M27 | x | 140 | 10 |  | M30 | x | 380 | 1 |
| M24 | x | 200 | 10 |  | M27 | x | 150 | 10 |  | M30 | x | 400 | 1 |
| M24 | x | 220 | 10 |  | M27 | x | 160 | 10 |  | M33 | x | 80 | 1 |
| M24 | x | 240 | 10 |  | M27 | x | 180 | 10 |  | M33 | x | 90 | 1 |
| M24 | x | 250 | 10 |  | M27 | x | 200 | 1 |  | M33 | x | 100 | 1 |
| M24 | x | 260 | 10 |  | M27 | x | 220 | 1 |  | M33 | x | 110 | 1 |
| M24 | x | 280 | 1 |  | M27 | x | 240 | 1 |  | M33 | x | 120 | 1 |
| M24 | x | 300 | 1 |  | M27 | x | 260 | 1 |  | M33 | x | 130 | 1 |
| M24 | x | 320 | 1 |  | M27 | x | 280 | 1 |  | M33 | x | 140 | 1 |
| M24 | x | 340 | 1 |  | M27 | x | 300 | 1 |  | M33 | x | 150 | 1 |
| M24 | x | 360 | 1 |  | M30 | x | 55 | 10 |  | M33 | x | 160 | 1 |
| M24 | x | 380 | 1 |  | M30 | x | 60 | 10 |  | M33 | x | 170 | 1 |
| M24 | x | 400 | 1 |  | M30 | x | 65 | 10 |  | M33 | x | 180 | 1 |
| M24 | x | 420 | 1 |  | M30 | x | 70 | 10 |  | M33 | x | 200 | 1 |
| M24 | x | 440 | 1 |  | M30 | x | 75 | 10 |  | M33 | x | 220 | 1 |
| M24 | x | 460 | 1 |  | M30 | x | 80 | 10 |  | M33 | x | 240 | 1 |
| M24 | x | 480 | 1 |  | M30 | x | 85 | 10 |  | M33 | x | 260 | 1 |
| M24 | x | 500 | 1 |  | M30 | x | 90 | 10 |  | M33 | x | 280 | 1 |
| M24 | x | 520 | 1 |  | M30 | x | 100 | 10 |  | M33 | x | 300 | 1 |
| M24 | x | 540 | 1 |  | M30 | x | 110 | 10 |  |  |  |  |  |
| M24 | x | 560 | 1 |  | M30 | x | 120 | 10 |  |  |  |  |  |
| M24 | x | 580 | 1 |  | M30 | x | 130 | 1 |  |  |  |  |  |
| M24 | x | 600 | 1 |  | M30 | x | 140 | 1 |  |  |  |  |  |
| M27 | x | 55 | 10 |  | M30 | x | 150 | 1 |  |  |  |  |  |
| M27 | x | 60 | 10 |  | M30 | x | 160 | 1 |  |  |  |  |  |
| M27 | x | 65 | 10 |  | M30 | x | 180 | 1 |  |  |  |  |  |
| M27 | x | 70 | 10 |  | M30 | x | 200 | 1 |  |  |  |  |  |



2) Für Längen l 125mm

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| d | | | | M36 | | M39 | | M42 | | M45 | | M48 | |
| b | | | 2) | - | | - | | - | | - | | - | |
| 3) | 84 | | 90 | | 96 | | 102 | | 108 | |
| 4) | 97 | | 103 | | 109 | | 115 | | 121 | |
| emin. | | | | 60,79 | | 66,44 | | 71,3 | | 76,95 | | 82,6 | |
| kNennm. | | | | 22,5 | | 25 | | 26 | | 28 | | 30 | |
| kmin. | | | | 21,45 | | 23,95 | | 24,95 | | 26,95 | | 28,95 | |
| kmax. | | | | 23,55 | | 26,05 | | 27,05 | | 29,05 | | 31,05 | |
| k'5) | | | | 15,02 | | 16,77 | | 17,47 | | 18,87 | | 20,27 | |
| rmin. | | | | 1 | | 1 | | 1,2 | | 1,2 | | 1,6 | |
| sNennm. | | | | 55 | | 60 | | 65 | | 70 | | 75 | |
| smin. | | | | 53,8 | | 58,8 | | 63,1 | | 68,1 | | 73,1 | |
| l | | | | ls und lg 6), 7) | | | | | | | | | |
| Nennm. | min. | max. | | ls min. | lg max. | ls min. | lg max. | ls min. | lg max. | ls min. | lg max. | ls min. | lg max. |
| 140 | 138 | 142 | | 36 | 56 |  |  |  |  |  |  |  |  |
| 150 | 148 | 152 | | 46 | 66 | 40 | 60 |  |  |  |  |  |  |
| 160 | 156 | 164 | | 56 | 76 | 50 | 70 |  |  |  |  |  |  |
| 180 | 176 | 184 | | 76 | 96 | 70 | 90 | 61,5 | 84 | 55,5 | 78 |  |  |
| 200 | 195,4 | 204,6 | | 96 | 116 | 90 | 110 | 81,5 | 104 | 75,5 | 98 | 67 | 92 |
| 220 | 215,4 | 224,6 | | 103 | 123 | 97 | 117 | 88,5 | 111 | 82,5 | 105 | 74 | 99 |
| 240 | 235,4 | 244,6 | | 123 | 143 | 117 | 137 | 108,5 | 131 | 102,5 | 125 | 94 | 119 |
| 260 | 254,8 | 265,2 | | 143 | 163 | 137 | 157 | 128,5 | 151 | 122,5 | 145 | 114 | 139 |
| 280 | 274,8 | 285,2 | | 163 | 183 | 157 | 177 | 148,5 | 171 | 142,5 | 165 | 134 | 159 |
| 300 | 294,8 | 305,2 | | 183 | 203 | 177 | 197 | 168,5 | 191 | 162,5 | 185 | 154 | 179 |
| 320 | 314,3 | 325,7 | | 203 | 223 | 197 | 217 | 188,5 | 211 | 182,5 | 205 | 174 | 199 |
| 340 | 334,3 | 345,7 | | 223 | 243 | 217 | 237 | 208,5 | 231 | 202,5 | 225 | 194 | 219 |
| 360 | 354,3 | 365,7 | | 243 | 263 | 237 | 257 | 228,5 | 251 | 222,5 | 245 | 214 | 239 |
| 380 | 374,3 | 385,7 | |  |  | 257 | 277 | 248,5 | 271 | 242,5 | 265 | 234 | 259 |
| 400 | 394,3 | 405,7 | |  |  | 277 | 297 | 268,5 | 291 | 262,5 | 285 | 254 | 279 |
| 420 | 413,7 | 426,3 | |  |  |  |  | 288,5 | 311 | 282,5 | 305 | 274 | 299 |
| 440 | 433,7 | 446,3 | |  |  |  |  |  |  | 302,5 | 325 | 294 | 319 |
| 460 | 453,7 | 466,3 | |  |  |  |  |  |  |  |  | 314 | 339 |
| 480 | 473,7 | 486,3 | |  |  |  |  |  |  |  |  | 334 | 359 |

3) Für Längen 125mm l 200mm

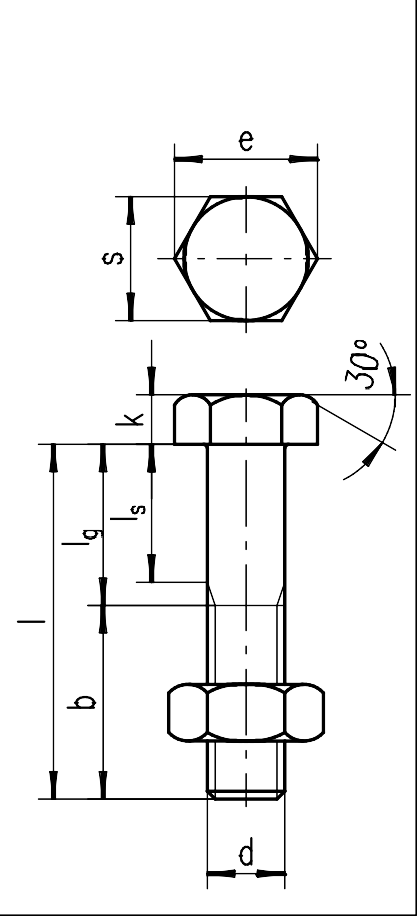
4) Für Längen l 200mm

* 1. k'min=0,7 kmin
  2. lg max = lNennmaß -b ls min = lg max -5 P

7) lg ist die Mindestklemmlänge

Abmessung Stück Abmessung Stück

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| M36 | x | 80 | 1 |  | M42 | x | 160 | 1 |
| M36 | x | 85 | 1 |  | M42 | x | 180 | 1 |
| M36 | x | 90 | 1 |  | M42 | x | 200 | 1 |
| M36 | x | 100 | 1 |  | M45 | x | 140 | 1 |
| M36 | x | 110 | 1 |  | M45 | x | 160 | 1 |
| M36 | x | 120 | 1 |  | M45 | x | 180 | 1 |
| M36 | x | 130 | 1 |  | M45 | x | 200 | 1 |
| M36 | x | 140 | 1 |  | M48 | x | 160 | 1 |
| M36 | x | 150 | 1 |  | M48 | x | 180 | 1 |
| M36 | x | 160 | 1 |  | M48 | x | 200 | 1 |
| M36 | x | 180 | 1 |  | | | | |
| M36 | x | 200 | 1 |
| M36 | x | 220 | 1 |
| M36 | x | 240 | 1 |
| M36 | x | 260 | 1 |
| M36 | x | 280 | 1 |
| M36 | x | 300 | 1 |
| M39 | x | 100 | 1 |
| M39 | x | 120 | 1 |
| M39 | x | 140 | 1 |
| M39 | x | 160 | 1 |
| M39 | x | 180 | 1 |
| M39 | x | 200 | 1 |
| M42 | x | 120 | 1 |
| M42 | x | 140 | 1 |



2) Für Längen l 125mm

3) Für Längen 125mm l 200mm

4) Für Längen l 200mm

1. k'min=0,7 kmin
2. lg max = lNennmaß -b ls min = lg max -5 P

7) lg ist die Mindestklemmlänge

Abmessung Stück

Abmessung

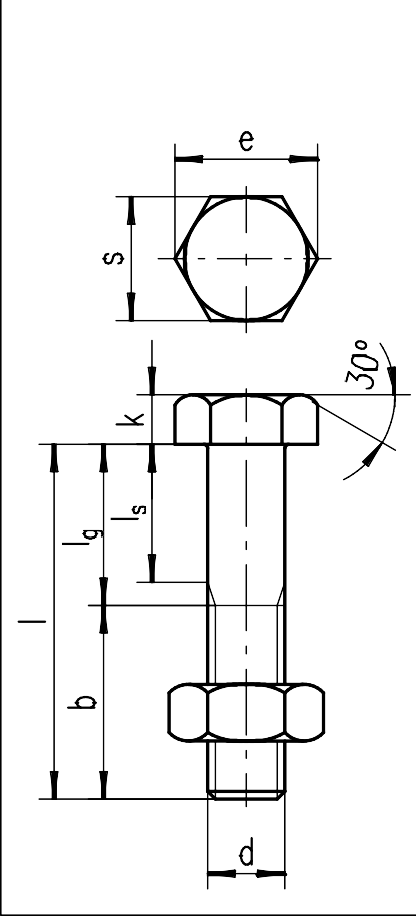
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| d | | | | M5 | | M6 | | M8 | | M10 | | M12 | |
| b | | | 2) | 16 | | 18 | | 22 | | 26 | | 30 | |
| 3) | - | | - | | - | | - | | - | |
| 4) | - | | - | | - | | - | | - | |
| emin. | | | | 8,63 | | 10,89 | | 14,2 | | 17,59 | | 19,85 | |
| kNennm. | | | | 3,5 | | 4 | | 5,3 | | 6,4 | | 7,5 | |
| kmin. | | | | 3,125 | | 3,625 | | 4,925 | | 5,95 | | 7,05 | |
| kmax. | | | | 3,875 | | 4,375 | | 5,675 | | 6,85 | | 7,95 | |
| k'5) | | | | 2,19 | | 2,54 | | 3,45 | | 4,17 | | 4,94 | |
| rmin. | | | | 0,2 | | 0,25 | | 0,4 | | 0,4 | | 0,6 | |
| sNennm. | | | | 8 | | 10 | | 13 | | 16 | | 18 | |
| smin. | | | | 7,64 | | 9,64 | | 12,57 | | 15,57 | | 17,57 | |
| l | | | | ls und lg 6), 7) | | | | | | | | | |
| Nennm. | min. | max. | | ls min. | lg max. | ls min. | lg max. | ls min. | lg max. | ls min. | lg max. | ls min. | lg max. |
| 25 | 23,95 | 26,05 | | 5 | 9 |  |  |  |  |  |  |  |  |
| 30 | 28,95 | 31,05 | | 10 | 14 | 7 | 12 |  |  |  |  |  |  |
| 35 | 33,75 | 36,25 | | 15 | 19 | 12 | 17 |  |  |  |  |  |  |
| 40 | 38,75 | 41,25 | | 20 | 24 | 17 | 22 | 11,75 | 18 |  |  |  |  |
| 45 | 43,75 | 46,25 | | 25 | 29 | 22 | 27 | 16,75 | 23 | 11,5 | 19 |  |  |
| 50 | 48,75 | 51,25 | | 30 | 34 | 27 | 32 | 21,75 | 28 | 16,5 | 24 |  |  |
| 55 | 53,5 | 56,5 | |  |  | 32 | 37 | 26,75 | 33 | 21,5 | 29 | 16,25 | 25 |
| 60 | 58,5 | 61,5 | |  |  | 37 | 42 | 31,75 | 38 | 26,5 | 34 | 21,25 | 30 |
| 65 | 63,5 | 66,5 | |  |  |  |  | 36,75 | 43 | 31,5 | 39 | 26,25 | 35 |
| 70 | 68,5 | 71,5 | |  |  |  |  | 41,75 | 48 | 36,5 | 44 | 31,25 | 40 |
| 80 | 78,5 | 81,5 | |  |  |  |  | 51,75 | 58 | 46,5 | 54 | 41,25 | 50 |
| 90 | 88,25 | 91,75 | |  |  |  |  |  |  | 56,5 | 64 | 51,25 | 60 |
| 100 | 98,25 | 101,75 | |  |  |  |  |  |  | 66,5 | 74 | 61,25 | 70 |
| 110 | 108,25 | 111,75 | |  |  |  |  |  |  |  |  | 71,25 | 80 |
| 120 | 118,25 | 121,75 | |  |  |  |  |  |  |  |  | 81,25 | 90 |

Stück

Abmessung

Stück

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| M5 | x | 16 | 500 |  | M8 | x | 40 | 200 |  | M10 | x | 130 | 50 |
| M5 | x | 20 | 500 |  | M8 | x | 45 | 200 |  | M10 | x | 140 | 50 |
| M5 | x | 25 | 500 |  | M8 | x | 50 | 200 |  | M10 | x | 150 | 50 |
| M5 | x | 30 | 500 |  | M8 | x | 55 | 200 |  | M10 | x | 160 | 50 |
| M5 | x | 35 | 200 |  | M8 | x | 60 | 200 |  | M10 | x | 170 | 50 |
| M5 | x | 40 | 200 |  | M8 | x | 65 | 200 |  | M10 | x | 180 | 50 |
| M5 | x | 45 | 200 |  | M8 | x | 70 | 200 |  | M10 | x | 200 | 50 |
| M5 | x | 50 | 200 |  | M8 | x | 75 | 200 |  | M10 | x | 220 | 25 |
| M5 | x | 55 | 200 |  | M8 | x | 80 | 200 |  | M10 | x | 240 | 25 |
| M5 | x | 60 | 200 |  | M8 | x | 90 | 100 |  | M10 | x | 260 | 25 |
| M5 | x | 70 | 200 |  | M8 | x | 100 | 100 |  | M10 | x | 280 | 25 |
| M6 | x | 10 | 500 |  | M8 | x | 110 | 100 |  | M10 | x | 300 | 25 |
| M6 | x | 12 | 500 |  | M8 | x | 120 | 100 |  | M12 | x | 20 | 100 |
| M6 | x | 16 | 500 |  | M8 | x | 130 | 100 |  | M12 | x | 25 | 100 |
| M6 | x | 20 | 500 |  | M8 | x | 140 | 50 |  | M12 | x | 30 | 100 |
| M6 | x | 25 | 500 |  | M8 | x | 150 | 50 |  | M12 | x | 35 | 100 |
| M6 | x | 30 | 500 |  | M8 | x | 160 | 50 |  | M12 | x | 40 | 100 |
| M6 | x | 35 | 200 |  | M10 | x | 16 | 200 |  | M12 | x | 45 | 100 |
| M6 | x | 40 | 200 |  | M10 | x | 20 | 200 |  | M12 | x | 50 | 100 |
| M6 | x | 45 | 200 |  | M10 | x | 25 | 200 |  | M12 | x | 55 | 100 |
| M6 | x | 50 | 200 |  | M10 | x | 30 | 200 |  | M12 | x | 60 | 100 |
| M6 | x | 55 | 200 |  | M10 | x | 35 | 100 |  | M12 | x | 65 | 50 |
| M6 | x | 60 | 200 |  | M10 | x | 40 | 100 |  | M12 | x | 70 | 50 |
| M6 | x | 65 | 200 |  | M10 | x | 45 | 100 |  | M12 | x | 75 | 50 |
| M6 | x | 70 | 200 |  | M10 | x | 50 | 100 |  | M12 | x | 80 | 50 |
| M6 | x | 75 | 200 |  | M10 | x | 55 | 100 |  | M12 | x | 85 | 50 |
| M6 | x | 80 | 200 |  | M10 | x | 60 | 100 |  | M12 | x | 90 | 50 |
| M6 | x | 90 | 100 |  | M10 | x | 65 | 100 |  | M12 | x | 100 | 50 |
| M6 | x | 100 | 100 |  | M10 | x | 70 | 100 |  | M12 | x | 110 | 50 |
| M6 | x | 110 | 100 |  | M10 | x | 75 | 100 |  | M12 | x | 120 | 50 |
| M8 | x | 16 | 200 |  | M10 | x | 80 | 100 |  | M12 | x | 130 | 50 |
| M8 | x | 20 | 200 |  | M10 | x | 90 | 100 |  | M12 | x | 140 | 50 |
| M8 | x | 25 | 200 |  | M10 | x | 100 | 100 |  | M12 | x | 150 | 50 |
| M8 | x | 30 | 200 |  | M10 | x | 110 | 50 |  | M12 | x | 160 | 50 |
| M8 | x | 35 | 200 |  | M10 | x | 120 | 50 |  | M12 | x | 170 | 50 |



Abmessung

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| d | | | | M12 | | M14 | | M16 | | M20 | |
| b | | | 2) | 30 | | 34 | | 38 | | 46 | |
| 3) | - | | 40 | | 44 | | 52 | |
| 4) | - | | - | | - | | - | |
| emin. | | | | 19,85 | | 22,78 | | 26,17 | | 32,95 | |
| kNennm. | | | | 7,5 | | 8,8 | | 10 | | 12,5 | |
| kmin. | | | | 7,05 | | 8,35 | | 9,25 | | 11,6 | |
| kmax. | | | | 7,95 | | 9,25 | | 10,75 | | 13,4 | |
| k'5) | | | | 4,94 | | 5,85 | | 6,48 | | 8,12 | |
| rmin. | | | | 0,6 | | 0,6 | | 0,6 | | 0,8 | |
| sNennm. | | | | 18 | | 21 | | 24 | | 30 | |
| smin. | | | | 17,57 | | 20,16 | | 23,16 | | 29,16 | |
| l | | | | ls und lg 6), 7) | | | | | | | |
| Nennm. | min. | max. | | ls min. | lg max. | ls min. | lg max. | ls min. | lg max. | ls min. | lg max. |
| 55 | 53,5 | 56,5 | | 16,25 | 25 |  |  |  |  |  |  |
| 60 | 58,5 | 61,5 | | 21,25 | 30 | 16 | 26 |  |  |  |  |
| 65 | 63,5 | 66,5 | | 26,25 | 35 | 21 | 31 | 17 | 27 |  |  |
| 70 | 68,5 | 71,5 | | 31,25 | 40 | 26 | 36 | 22 | 32 |  |  |
| 80 | 78,5 | 81,5 | | 41,25 | 50 | 36 | 46 | 32 | 42 | 25,5 | 38 |
| 90 | 88,25 | 91,75 | | 51,25 | 60 | 46 | 56 | 42 | 52 | 35,5 | 48 |
| 100 | 98,25 | 101,75 | | 61,25 | 70 | 56 | 66 | 52 | 62 | 45,5 | 58 |
| 110 | 108,25 | 111,75 | | 71,25 | 80 | 66 | 76 | 62 | 72 | 55,5 | 68 |
| 120 | 118,25 | 121,75 | | 81,25 | 90 | 76 | 86 | 72 | 82 | 65,5 | 78 |
| 130 | 128 | 132 | |  |  | 80 | 90 | 76 | 86 | 69,5 | 82 |
| 140 | 138 | 142 | |  |  | 90 | 100 | 86 | 96 | 79,5 | 92 |
| 150 | 148 | 152 | |  |  |  |  | 96 | 106 | 89,5 | 102 |
| 160 | 156 | 164 | |  |  |  |  | 106 | 116 | 99,5 | 112 |
| 180 | 176 | 184 | |  |  |  |  |  |  | 119,5 | 132 |

Stück

Abmessung

Stück

2) Für Längen l 125mm

3) Für Längen 125mm l 200mm

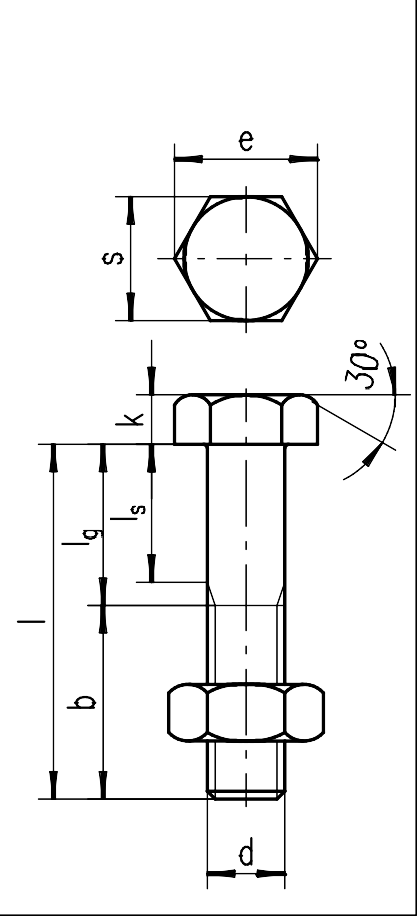
4) Für Längen l 200mm

1. k'min=0,7 kmin
2. lg max = lNennmaß -b ls min = lg max -5 P

7) lg ist die Mindestklemmlänge

Abmessung Stück

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| M12 | x | 180 | 50 |  | M14 | x | 80 | 50 |  | M16 | x | 130 | 25 |
| M12 | x | 200 | 50 |  | M14 | x | 90 | 50 |  | M16 | x | 140 | 25 |
| M12 | x | 220 | 25 |  | M14 | x | 100 | 50 |  | M16 | x | 150 | 25 |
| M12 | x | 240 | 25 |  | M14 | x | 110 | 50 |  | M16 | x | 160 | 25 |
| M12 | x | 250 | 25 |  | M14 | x | 120 | 50 |  | M16 | x | 170 | 25 |
| M12 | x | 260 | 25 |  | M14 | x | 130 | 50 |  | M16 | x | 180 | 25 |
| M12 | x | 280 | 25 |  | M14 | x | 140 | 25 |  | M16 | x | 190 | 25 |
| M12 | x | 300 | 25 |  | M14 | x | 150 | 25 |  | M16 | x | 200 | 25 |
| M12 | x | 320 | 25 |  | M14 | x | 160 | 25 |  | M16 | x | 220 | 25 |
| M12 | x | 340 | 25 |  | M14 | x | 170 | 25 |  | M16 | x | 240 | 25 |
| M12 | x | 360 | 25 |  | M14 | x | 180 | 25 |  | M16 | x | 250 | 25 |
| M12 | x | 380 | 25 |  | M14 | x | 200 | 25 |  | M16 | x | 260 | 25 |
| M12 | x | 400 | 25 |  | M14 | x | 220 | 25 |  | M16 | x | 280 | 25 |
| M12 | x | 420 | 25 |  | M14 | x | 240 | 25 |  | M16 | x | 300 | 25 |
| M12 | x | 440 | 25 |  | M14 | x | 250 | 25 |  | M16 | x | 320 | 10 |
| M12 | x | 460 | 25 |  | M14 | x | 260 | 25 |  | M16 | x | 340 | 10 |
| M12 | x | 480 | 25 |  | M14 | x | 280 | 25 |  | M16 | x | 360 | 10 |
| M12 | x | 500 | 25 |  | M14 | x | 300 | 25 |  | M16 | x | 380 | 10 |
| M12 | x | 520 | 25 |  | M16 | x | 30 | 50 |  | M16 | x | 400 | 10 |
| M12 | x | 540 | 25 |  | M16 | x | 35 | 50 |  | M16 | x | 420 | 10 |
| M12 | x | 560 | 25 |  | M16 | x | 40 | 50 |  | M16 | x | 440 | 10 |
| M12 | x | 580 | 25 |  | M16 | x | 45 | 50 |  | M16 | x | 460 | 10 |
| M12 | x | 600 | 25 |  | M16 | x | 50 | 50 |  | M16 | x | 480 | 10 |
| M14 | x | 20 | 100 |  | M16 | x | 55 | 50 |  | M16 | x | 500 | 10 |
| M14 | x | 25 | 100 |  | M16 | x | 60 | 50 |  | M16 | x | 520 | 10 |
| M14 | x | 30 | 100 |  | M16 | x | 65 | 25 |  | M16 | x | 540 | 10 |
| M14 | x | 35 | 100 |  | M16 | x | 70 | 25 |  | M16 | x | 560 | 10 |
| M14 | x | 40 | 100 |  | M16 | x | 75 | 25 |  | M16 | x | 580 | 10 |
| M14 | x | 45 | 50 |  | M16 | x | 80 | 25 |  | M16 | x | 600 | 10 |
| M14 | x | 50 | 50 |  | M16 | x | 85 | 25 |  | M20 | x | 30 | 25 |
| M14 | x | 55 | 50 |  | M16 | x | 90 | 25 |  | M20 | x | 35 | 25 |
| M14 | x | 60 | 50 |  | M16 | x | 95 | 25 |  | M20 | x | 40 | 25 |
| M14 | x | 65 | 50 |  | M16 | x | 100 | 25 |  | M20 | x | 45 | 25 |
| M14 | x | 70 | 50 |  | M16 | x | 110 | 25 |  | M20 | x | 50 | 25 |
| M14 | x | 75 | 50 |  | M16 | x | 120 | 25 |  | M20 | x | 55 | 25 |



2) Für Längen l 125mm

3) Für Längen 125mm l 200mm

4) Für Längen l 200mm

1. k'min=0,7 kmin
2. lg max = lNennmaß -b ls min = lg max -5 P

7) lg ist die Mindestklemmlänge

Abmessung Stück

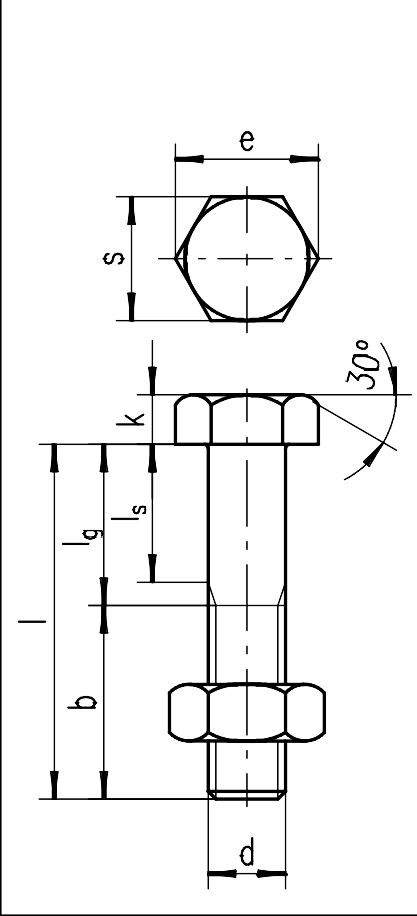
Abmessung Stück

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| d | | | | M20 | | M22 | | M24 | |
| b | | | 2) | 46 | | 50 | | 54 | |
| 3) | 52 | | 56 | | 60 | |
| 4) | - | | 69 | | 73 | |
| emin. | | | | 32,95 | | 37,29 | | 39,55 | |
| kNennm. | | | | 12,5 | | 14 | | 15 | |
| kmin. | | | | 11,6 | | 13,1 | | 14,1 | |
| kmax. | | | | 13,4 | | 14,9 | | 15,9 | |
| k'5) | | | | 8,12 | | 9,17 | | 9,87 | |
| rmin. | | | | 0,8 | | 0,8 | | 0,8 | |
| sNennm. | | | | 30 | | 34 | | 36 | |
| smin. | | | | 29,16 | | 33 | | 35 | |
| l | | | | ls und lg 6), 7) | | | | | |
| Nennm. | min. | max. | | ls min. | lg max. | ls min. | lg max. | ls min. | lg max. |
| 80 | 78,5 | 81,5 | | 21,5 | 40 |  |  |  |  |
| 90 | 88,25 | 91,75 | | 31,5 | 50 | 27,5 | 27 |  |  |
| 100 | 98,25 | 101,75 | | 41,5 | 60 | 37,5 | 32 | 31 | 46 |
| 110 | 108,25 | 111,75 | | 51,5 | 70 | 47,5 | 42 | 41 | 56 |
| 120 | 118,25 | 121,75 | | 51,5 | 74 | 57,5 | 52 | 51 | 66 |
| 130 | 128 | 132 | | 65,5 | 84 | 61,5 | 62 | 55 | 70 |
| 140 | 138 | 142 | | 75,5 | 94 | 71,5 | 72 | 65 | 80 |
| 150 | 148 | 152 | | 85,5 | 104 | 81,5 | 82 | 75 | 90 |
| 160 | 156 | 164 | | 95,5 | 124 | 91,5 | 86 | 85 | 100 |
| 180 | 176 | 184 | | 115,5 | 144 | 111,5 | 96 | 105 | 120 |
| 200 | 195,4 | 204,6 | | 135,5 | 151 | 131,5 | 106 | 125 | 140 |
| 220 | 215,4 | 224,6 | |  |  | 138,5 | 116 | 132 | 147 |
| 240 | 235,4 | 244,6 | |  |  |  |  | 152 | 167 |

Abmessung

Stück

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| M20 | x | 60 | 25 |  | M20 | x | 520 | 1 |  | M24 | x | 45 | 25 |
| M20 | x | 65 | 25 |  | M20 | x | 540 | 1 |  | M24 | x | 50 | 25 |
| M20 | x | 70 | 25 |  | M20 | x | 560 | 1 |  | M24 | x | 55 | 25 |
| M20 | x | 75 | 25 |  | M20 | x | 580 | 1 |  | M24 | x | 60 | 25 |
| M20 | x | 80 | 25 |  | M20 | x | 600 | 1 |  | M24 | x | 65 | 25 |
| M20 | x | 85 | 25 |  | M22 | x | 40 | 25 |  | M24 | x | 70 | 25 |
| M20 | x | 90 | 25 |  | M22 | x | 45 | 25 |  | M24 | x | 75 | 25 |
| M20 | x | 95 | 25 |  | M22 | x | 50 | 25 |  | M24 | x | 80 | 25 |
| M20 | x | 100 | 25 |  | M22 | x | 55 | 25 |  | M24 | x | 85 | 10 |
| M20 | x | 110 | 25 |  | M22 | x | 60 | 25 |  | M24 | x | 90 | 10 |
| M20 | x | 120 | 25 |  | M22 | x | 65 | 25 |  | M24 | x | 100 | 10 |
| M20 | x | 130 | 25 |  | M22 | x | 70 | 25 |  | M24 | x | 110 | 10 |
| M20 | x | 140 | 25 |  | M22 | x | 75 | 25 |  | M24 | x | 120 | 10 |
| M20 | x | 150 | 25 |  | M22 | x | 80 | 25 |  | M24 | x | 130 | 10 |
| M20 | x | 160 | 10 |  | M22 | x | 90 | 25 |  | M24 | x | 140 | 10 |
| M20 | x | 170 | 10 |  | M22 | x | 100 | 10 |  | M24 | x | 150 | 10 |
| M20 | x | 180 | 10 |  | M22 | x | 110 | 10 |  | M24 | x | 160 | 10 |
| M20 | x | 190 | 10 |  | M22 | x | 120 | 10 |  | M24 | x | 170 | 10 |
| M20 | x | 200 | 10 |  | M22 | x | 130 | 10 |  | M24 | x | 180 | 10 |
| M20 | x | 220 | 10 |  | M22 | x | 140 | 10 |  | M24 | x | 200 | 10 |
| M20 | x | 240 | 10 |  | M22 | x | 150 | 10 |  | M24 | x | 220 | 10 |
| M20 | x | 250 | 10 |  | M22 | x | 160 | 10 |  | M24 | x | 240 | 10 |
| M20 | x | 260 | 10 |  | M22 | x | 180 | 10 |  | M24 | x | 260 | 10 |
| M20 | x | 280 | 10 |  | M22 | x | 200 | 10 |  | M24 | x | 280 | 10 |
| M20 | x | 300 | 10 |  | M22 | x | 220 | 1 |  | M24 | x | 300 | 1 |
| M20 | x | 320 | 10 |  | M22 | x | 240 | 1 |  | M24 | x | 320 | 1 |
| M20 | x | 340 | 10 |  | M22 | x | 260 | 1 |  | M24 | x | 340 | 1 |
| M20 | x | 360 | 10 |  | M22 | x | 280 | 1 |  | M24 | x | 360 | 1 |
| M20 | x | 380 | 10 |  | M22 | x | 300 | 1 |  | M24 | x | 380 | 1 |
| M20 | x | 400 | 10 |  | M22 | x | 320 | 1 |  | M24 | x | 400 | 1 |
| M20 | x | 420 | 10 |  | M22 | x | 340 | 1 |  | M24 | x | 420 | 1 |
| M20 | x | 440 | 10 |  | M22 | x | 360 | 1 |  | M24 | x | 440 | 1 |
| M20 | x | 460 | 10 |  | M22 | x | 380 | 1 |  | M24 | x | 460 | 1 |
| M20 | x | 480 | 1 |  | M22 | x | 400 | 1 |  | M24 | x | 480 | 1 |
| M20 | x | 500 | 1 |  | M24 | x | 40 | 25 |  | M24 | x | 500 | 1 |



Abmessung

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| d | | | | M27 | | M30 | | M33 | | M36 | |
| b | | | 2) | 60 | | 66 | | - | | - | |
| 3) | 66 | | 72 | | 78 | | 84 | |
| 4) | 79 | | 85 | | 91 | | 97 | |
| emin. | | | | 45,2 | | 50,85 | | 55,37 | | 60,79 | |
| kNennm. | | | | 17 | | 18,7 | | 21 | | 22,5 | |
| kmin. | | | | 16,1 | | 17,65 | | 19,95 | | 21,45 | |
| kmax. | | | | 17,9 | | 19,75 | | 22,05 | | 23,55 | |
| k'5) | | | | 11,27 | | 12,36 | | 13,97 | | 15,02 | |
| rmin. | | | | 1 | | 1 | | 1 | | 1 | |
| sNennm. | | | | 41 | | 46 | | 50 | | 55 | |
| smin. | | | | 40 | | 45 | | 49 | | 53,8 | |
| l | | | | ls und lg 6), 7) | | | | | | | |
| Nennm. | min. | max. | | ls min. | lg max. | ls min. | lg max. | ls min. | lg max. | ls min. | lg max. |
| 110 | 108,25 | 111,75 | | 35 | 50 |  |  |  |  |  |  |
| 120 | 118,25 | 121,75 | | 45 | 60 | 36,5 | 54 |  |  |  |  |
| 130 | 128 | 132 | | 49 | 64 | 40,5 | 58 | 34,5 | 52 |  |  |
| 140 | 138 | 142 | | 59 | 74 | 50,5 | 68 | 44,5 | 62 | 36 | 56 |
| 150 | 148 | 152 | | 69 | 84 | 60,5 | 78 | 54,5 | 72 | 46 | 66 |
| 160 | 156 | 164 | | 79 | 94 | 70,5 | 88 | 64,5 | 82 | 56 | 76 |
| 180 | 176 | 184 | | 99 | 114 | 90,5 | 108 | 84,5 | 102 | 76 | 96 |
| 200 | 195,4 | 204,6 | | 119 | 134 | 110,5 | 128 | 104,5 | 122 | 96 | 116 |
| 220 | 215,4 | 224,6 | | 126 | 141 | 117,5 | 135 | 111,5 | 129 | 103 | 123 |
| 240 | 235,4 | 244,6 | | 146 | 161 | 137,5 | 155 | 131,5 | 149 | 123 | 143 |
| 260 | 254,8 | 265,2 | | 166 | 181 | 157,5 | 175 | 151,5 | 167 | 143 | 163 |
| 280 | 274,8 | 285,2 | |  |  | 177,5 | 195 | 171,5 | 189 | 163 | 183 |
| 300 | 294,8 | 305,2 | |  |  | 197,5 | 215 | 191,5 | 209 | 183 | 203 |
| 320 |  |  | |  |  |  |  | 211,5 | 229 | 203 | 223 |

Stück

Abmessung

Stück

2) Für Längen l 125mm

3) Für Längen 125mm l 200mm

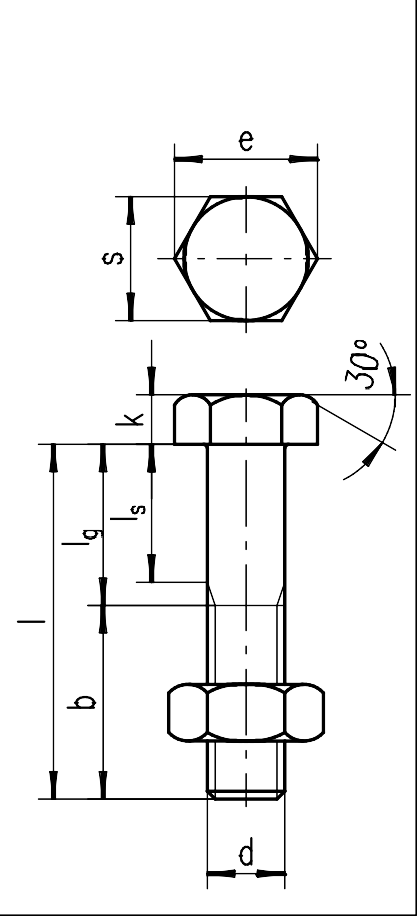
4) Für Längen l 200mm

1. k'min=0,7 kmin
2. lg max = lNennmaß -b ls min = lg max -5 P

7) lg ist die Mindestklemmlänge

Abmessung Stück

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| M27 | x | 60 | 10 |  | M30 | x | 180 | 1 |  | M36 | x | 150 | 1 |
| M27 | x | 65 | 10 |  | M30 | x | 200 | 1 |  | M36 | x | 160 | 1 |
| M27 | x | 70 | 10 |  | M30 | x | 220 | 1 |  | M36 | x | 180 | 1 |
| M27 | x | 75 | 10 |  | M30 | x | 240 | 1 |  | M36 | x | 200 | 1 |
| M27 | x | 80 | 10 |  | M30 | x | 260 | 1 |  | M36 | x | 220 | 1 |
| M27 | x | 85 | 10 |  | M30 | x | 280 | 1 |  | M36 | x | 240 | 1 |
| M27 | x | 90 | 10 |  | M30 | x | 300 | 1 |  | M36 | x | 260 | 1 |
| M27 | x | 100 | 10 |  | M30 | x | 320 | 1 |  | M36 | x | 280 | 1 |
| M27 | x | 110 | 10 |  | M30 | x | 340 | 1 |  | M36 | x | 300 | 1 |
| M27 | x | 120 | 10 |  | M30 | x | 360 | 1 |  | | | | |
| M27 | x | 130 | 10 |  | M30 | x | 380 | 1 |
| M27 | x | 140 | 10 |  | M30 | x | 400 | 1 |
| M27 | x | 150 | 10 |  | M33 | x | 80 | 1 |
| M27 | x | 160 | 10 |  | M33 | x | 90 | 1 |
| M27 | x | 180 | 10 |  | M33 | x | 100 | 1 |
| M27 | x | 200 | 1 |  | M33 | x | 110 | 1 |
| M27 | x | 220 | 1 |  | M33 | x | 120 | 1 |
| M27 | x | 240 | 1 |  | M33 | x | 130 | 1 |
| M27 | x | 260 | 1 |  | M33 | x | 140 | 1 |
| M27 | x | 280 | 1 |  | M33 | x | 150 | 1 |
| M27 | x | 300 | 1 |  | M33 | x | 160 | 1 |
| M30 | x | 55 | 10 |  | M33 | x | 180 | 1 |
| M30 | x | 60 | 10 |  | M33 | x | 200 | 1 |
| M30 | x | 65 | 10 |  | M33 | x | 220 | 1 |
| M30 | x | 70 | 10 |  | M33 | x | 240 | 1 |
| M30 | x | 75 | 10 |  | M33 | x | 260 | 1 |
| M30 | x | 80 | 10 |  | M33 | x | 280 | 1 |
| M30 | x | 90 | 10 |  | M33 | x | 300 | 1 |
| M30 | x | 100 | 10 |  | M36 | x | 80 | 1 |
| M30 | x | 110 | 10 |  | M36 | x | 90 | 1 |
| M30 | x | 120 | 10 |  | M36 | x | 100 | 1 |
| M30 | x | 130 | 1 |  | M36 | x | 110 | 1 |
| M30 | x | 140 | 1 |  | M36 | x | 120 | 1 |
| M30 | x | 150 | 1 |  | M36 | x | 130 | 1 |
| M30 | x | 160 | 1 |  | M36 | x | 140 | 1 |



2) Für Längen l 125mm

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| d | | | | M10 | | M12 | | M16 | | M20 | | M24 | |
| b | | | 2) | 26 | | 30 | | 38 | | 46 | | 54 | |
| 3) | - | | - | | 44 | | 52 | | 60 | |
| 4) | - | | - | | - | | - | | 73 | |
| emin. | | | | 17,59 | | 19,85 | | 26,17 | | 32,95 | | 39,55 | |
| kNennm. | | | | 6,4 | | 7,5 | | 10 | | 12,5 | | 15 | |
| kmin. | | | | 5,95 | | 7,05 | | 9,25 | | 11,6 | | 14,1 | |
| kmax. | | | | 6,85 | | 7,95 | | 10,75 | | 13,4 | | 15,9 | |
| k'5) | | | | 4,17 | | 4,94 | | 6,48 | | 8,12 | | 9,87 | |
| rmin. | | | | 0,4 | | 0,6 | | 0,6 | | 0,8 | | 0,8 | |
| sNennm. | | | | 16 | | 18 | | 24 | | 30 | | 36 | |
| smin. | | | | 15,57 | | 17,57 | | 23,16 | | 29,16 | | 35 | |
| l | | | | ls und lg 6), 7) | | | | | | | | | |
| Nennm. | min. | max. | | ls min. | lg max. | ls min. | lg max. | ls min. | lg max. | ls min. | lg max. | ls min. | lg max. |
| 25 | 23,95 | 26,05 | |  |  |  |  |  |  |  |  |  |  |
| 30 | 28,95 | 31,05 | |  |  |  |  |  |  |  |  |  |  |
| 35 | 33,75 | 36,25 | |  |  |  |  |  |  |  |  |  |  |
| 40 | 38,75 | 41,25 | |  |  |  |  |  |  |  |  |  |  |
| 45 | 43,75 | 46,25 | | 11,5 | 19 |  |  |  |  |  |  |  |  |
| 50 | 48,75 | 51,25 | | 16,5 | 24 |  |  |  |  |  |  |  |  |
| 55 | 53,5 | 56,5 | | 21,5 | 29 | 16,25 | 25 |  |  |  |  |  |  |
| 60 | 58,5 | 61,5 | | 26,5 | 34 | 21,25 | 30 |  |  |  |  |  |  |
| 65 | 63,5 | 66,5 | | 31,5 | 39 | 26,25 | 35 | 17 | 27 |  |  |  |  |
| 70 | 68,5 | 71,5 | | 36,5 | 44 | 31,25 | 40 | 22 | 32 |  |  |  |  |
| 80 | 78,5 | 81,5 | | 46,5 | 54 | 41,25 | 50 | 32 | 42 | 25,5 | 38 |  |  |
| 90 | 88,25 | 91,75 | | 56,5 | 64 | 51,25 | 60 | 42 | 52 | 35,5 | 48 |  |  |
| 100 | 98,25 | 101,75 | | 66,5 | 74 | 61,25 | 70 | 52 | 62 | 45,5 | 58 | 31 | 46 |
| 110 | 108,25 | 111,75 | |  |  | 71,25 | 80 | 62 | 72 | 55,5 | 68 | 41 | 56 |
| 120 | 118,25 | 121,75 | |  |  | 81,25 | 90 | 72 | 82 | 65,5 | 78 | 51 | 66 |
| 130 |  |  | |  |  |  |  | 76 | 86 | 69,5 | 82 | 55 | 70 |
| 140 |  |  | |  |  |  |  | 86 | 96 | 79,5 | 92 | 65 | 80 |
| 150 |  |  | |  |  |  |  | 96 | 106 | 89,5 | 102 | 75 | 90 |
| 160 |  |  | |  |  |  |  | 106 | 116 | 99,5 | 112 | 85 | 100 |
| 180 |  |  | |  |  |  |  |  |  | 119,5 | 132 | 105 | 120 |

3) Für Längen 125mm l 200mm

4) Für Längen l 200mm

1. k'min=0,7 kmin
2. lg max = lNennmaß -b ls min = lg max -5 P

7) lg ist die Mindestklemmlänge

Abmessung Stück

Abmessung Stück

Abmessung Stück

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| M10 | x | 20 | 200 |  | M16 | x | 30 | 50 |  | M20 | x | 65 | 25 |
| M10 | x | 25 | 200 |  | M16 | x | 35 | 50 |  | M20 | x | 70 | 25 |
| M10 | x | 30 | 200 |  | M16 | x | 40 | 50 |  | M20 | x | 75 | 25 |
| M10 | x | 35 | 100 |  | M16 | x | 45 | 50 |  | M20 | x | 80 | 25 |
| M10 | x | 40 | 100 |  | M16 | x | 50 | 50 |  | M20 | x | 90 | 25 |
| M10 | x | 50 | 100 |  | M16 | x | 55 | 50 |  | M20 | x | 100 | 25 |
| M10 | x | 60 | 100 |  | M16 | x | 60 | 50 |  | M20 | x | 110 | 25 |
| M12 | x | 25 | 100 |  | M16 | x | 65 | 25 |  | M20 | x | 120 | 25 |
| M12 | x | 30 | 100 |  | M16 | x | 70 | 25 |  | M20 | x | 130 | 25 |
| M12 | x | 35 | 100 |  | M16 | x | 80 | 25 |  | M20 | x | 140 | 25 |
| M12 | x | 40 | 100 |  | M16 | x | 90 | 25 |  | M20 | x | 150 | 25 |
| M12 | x | 45 | 100 |  | M16 | x | 100 | 25 |  | M20 | x | 160 | 10 |
| M12 | x | 50 | 100 |  | M16 | x | 110 | 25 |  | M20 | x | 180 | 10 |
| M12 | x | 55 | 100 |  | M16 | x | 120 | 25 |  | M20 | x | 200 | 10 |
| M12 | x | 60 | 100 |  | M16 | x | 130 | 25 |  | M20 | x | 220 | 10 |
| M12 | x | 70 | 100 |  | M16 | x | 140 | 25 |  | M20 | x | 240 | 10 |
| M12 | x | 80 | 100 |  | M16 | x | 150 | 25 |  | M20 | x | 260 | 10 |
| M12 | x | 85 | 50 |  | M16 | x | 160 | 25 |  | M20 | x | 280 | 10 |
| M12 | x | 90 | 50 |  | M16 | x | 180 | 25 |  | M20 | x | 300 | 10 |
| M12 | x | 100 | 50 |  | M16 | x | 200 | 25 |  | M24 | x | 80 | 10 |
| M12 | x | 110 | 50 |  | M20 | x | 40 | 25 |  | M24 | x | 90 | 10 |
| M12 | x | 120 | 50 |  | M20 | x | 45 | 25 |  | M24 | x | 100 | 10 |
| M12 | x | 130 | 50 |  | M20 | x | 50 | 25 |  | M24 | x | 120 | 10 |
| M12 | x | 140 | 50 |  | M20 | x | 55 | 25 |  | M24 | x | 150 | 10 |
| M12 | x | 150 | 50 |  | M20 | x | 60 | 25 |  | M24 | x | 180 | 10 |