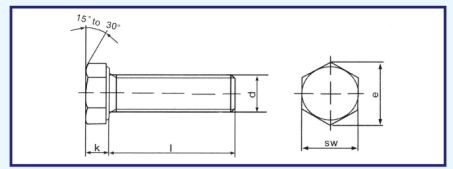


**HEXAGON HEAD BOLTS THREADED UP TO HEAD**  
**ALTİKÖŞE BAŞLI TAM DİŞLİ CİVATALAR**  
**SECHSKANTSCHRAUBEN MIT GEWINDE BIS KOPF**



*Technical informations. / Teknik bilgiler.*

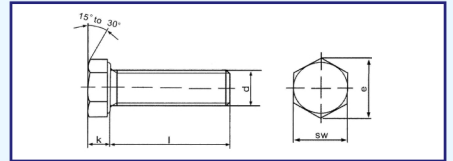
| Thread size / Anma çapı      |     | M3   | M4   | M5   | M6    | M7    | M8    | M10   | M12   | M14   | M16   | M18   | M20   | M22   | M24   | M27   | M30   | M33   | M36   | M39   |
|------------------------------|-----|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Pitch / Diş adımı            | P   | 0.50 | 0.70 | 0.80 | 1.00  | 1.00  | 1.25  | 1.50  | 1.75  | 2.00  | 2.00  | 2.50  | 2.50  | 2.50  | 3.00  | 3.00  | 3.50  | 3.50  | 4.00  | 4.00  |
| Head heigh / Kafa yüksekliği | k   | 2.0  | 2.8  | 3.5  | 4.0   | 4.8   | 5.3   | 6.4   | 7.5   | 8.8   | 10.0  | 11.5  | 12.50 | 14.0  | 15.0  | 17.0  | 18.7  | 21.0  | 22.5  | 25.0  |
|                              | +/- | 0.12 | 0.12 | 0.15 | 0.15  | 0.15  | 0.15  | 0.16  | 0.18  | 0.18  | 0.18  | 0.22  | 0.22  | 0.22  | 0.22  | 0.35  | 0.42  | 0.42  | 0.42  | 0.42  |
| Head with/Anahtar a          | sw  | 5.5  | 7    | 8    | 10    | 11    | 13    | 17    | 19    | 22    | 24    | 27    | 30    | 32    | 36    | 41    | 46    | 50    | 55    | 60    |
| Diagonal / Köşegen           | e   | 6.01 | 7.66 | 8.79 | 11.05 | 12.12 | 14.38 | 18.90 | 21.10 | 24.49 | 26.75 | 30.14 | 33.53 | 35.72 | 39.98 | 45.20 | 50.85 | 55.37 | 60.79 | 66.44 |

*Values are given in millimeters. / Değerler milimetre olarak verilmiştir.*

| Thread size / Anma çapı |     | M3                                                      | M4   | M5   | M6   | M7   | M8   | M10  | M12  | M14  | M16  | M18  | M20  | M22 | M24 | M27 | M30 | M33 | M36 | M39 |       |
|-------------------------|-----|---------------------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-------|
| Length / Boy (1)        |     | Mass for 1.000 units in kg. / 1.000 Tanesinin ağırlığı. |      |      |      |      |      |      |      |      |      |      |      |     |     |     |     |     |     |     |       |
| 10                      | +/- | 0.29                                                    | 0.75 | 1.64 | 2.63 | 4.08 | 6.35 | 9.10 | 16.2 | 23.3 | 38.0 |      |      |     |     |     |     |     |     |     |       |
| 12                      | +/- | 0.35                                                    | 0.84 | 1.80 | 2.87 | 4.42 | 6.85 | 9.80 | 17.2 | 25.0 | 40.0 | 52.9 |      |     |     |     |     |     |     |     |       |
| 14                      | +/- | 0.35                                                    | 0.92 | 1.95 | 3.12 | 4.76 | 7.35 | 10.5 | 18.2 | 26.4 | 42.0 | 55.6 |      |     |     |     |     |     |     |     |       |
| 16                      | +/- | 0.35                                                    | 1.00 | 2.10 | 3.37 | 5.11 | 7.85 | 11.1 | 19.2 | 27.7 | 44.0 | 58.3 | 82.0 | 105 | 133 | 173 |     |     |     |     |       |
| 18                      | +/- | 0.35                                                    | 1.09 | 2.25 | 3.62 | 5.45 | 8.35 | 11.7 | 20.2 | 29.1 | 46.0 | 60.9 | 84.9 | 110 | 137 | 178 |     |     |     |     |       |
| 20                      | +/- | 0.42                                                    | 1.18 | 2.41 | 3.87 | 5.80 | 8.85 | 12.3 | 21.2 | 31.0 | 48.0 | 63.5 | 87.2 | 114 | 143 | 184 |     |     |     |     |       |
| 22                      | +/- | 0.42                                                    | 1.27 | 2.56 | 4.12 | 6.15 | 9.35 | 12.9 | 22.2 | 33.0 | 50.0 | 66.2 | 92.2 | 119 | 148 | 190 | 269 |     |     |     |       |
| 25                      | +/- | 0.42                                                    | 1.40 | 2.80 | 4.49 | 6.65 | 10.0 | 13.9 | 23.7 | 34.1 | 53.0 | 70.2 | 95.8 | 124 | 155 | 199 | 280 |     |     |     |       |
| 28                      | +/- | 0.42                                                    | 1.52 | 3.04 | 4.86 | 7.15 | 10.7 | 14.9 | 25.2 | 36.2 | 55.9 | 74.2 | 100  | 129 | 161 | 205 | 292 |     |     |     |       |
| 30                      | +/- | 0.42                                                    | 1.61 | 3.19 | 5.11 | 7.51 | 11.3 | 15.5 | 26.2 | 37.7 | 57.9 | 76.9 | 104  | 134 | 168 | 214 | 310 |     |     |     |       |
| 35                      | +/- | 0.50                                                    |      | 3.57 | 5.73 | 8.37 | 12.5 | 17.1 | 28.7 | 41.3 | 62.9 | 83.5 | 112  | 145 | 181 | 229 | 319 | 424 | 543 | 670 | 869   |
| 40                      | +/- | 0.50                                                    |      | 3.96 | 6.35 | 9.23 | 13.8 | 18.7 | 31.2 | 44.9 | 67.9 | 90.2 | 120  | 155 | 193 | 244 | 338 | 448 | 572 | 714 | 910   |
| 45                      | +/- | 0.50                                                    |      | 4.34 | 6.99 | 10.1 | 15.0 | 20.3 | 33.7 | 48.5 | 72.9 | 97.1 | 128  | 165 | 206 | 259 | 358 | 472 | 601 | 748 | 951   |
| 50                      | +/- | 0.50                                                    |      | 4.73 | 7.59 | 11.0 | 16.3 | 21.8 | 36.2 | 52.0 | 77.9 | 103  | 136  | 176 | 219 | 274 | 377 | 496 | 630 | 783 | 992   |
| 60                      | +/- | 0.60                                                    |      | 5.50 | 8.83 | 12.7 | 18.7 | 25.0 | 41.3 | 58.2 | 87.8 | 117  | 153  | 196 | 244 | 304 | 416 | 543 | 688 | 851 | 1.070 |

**"EN ISO 4017"**

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*Technical informations. / Teknik bilgiler.*

| Thread size / Anma çapı      |     | M3   | M4   | M5   | M6    | M7    | M8    | M10   | M12   | M14   | M16   | M18   | M20   | M22   | M24   | M27   | M30   | M33   | M36   | M39   |
|------------------------------|-----|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Pitch / Diş adımı            | P   | 0.50 | 0.70 | 0.80 | 1.00  | 1.00  | 1.25  | 1.50  | 1.75  | 2.00  | 2.00  | 2.50  | 2.50  | 2.50  | 3.00  | 3.00  | 3.50  | 3.50  | 4.00  | 4.00  |
| Head heigh / Kafa yüksekliği | k   | 2.0  | 2.8  | 3.5  | 4.0   | 4.8   | 5.3   | 6.4   | 7.5   | 8.8   | 10.0  | 11.5  | 12.50 | 14.0  | 15.0  | 17.0  | 18.7  | 21.0  | 22.5  | 25.0  |
|                              | +/- | 0.12 | 0.12 | 0.15 | 0.15  | 0.15  | 0.15  | 0.18  | 0.18  | 0.18  | 0.18  | 0.22  | 0.22  | 0.22  | 0.22  | 0.35  | 0.42  | 0.42  | 0.42  | 0.42  |
| Head with/Anahtar a          | sw  | 5.5  | 7    | 8    | 10    | 11    | 13    | 17    | 19    | 22    | 24    | 27    | 30    | 32    | 36    | 41    | 46    | 50    | 55    | 60    |
| Diagonal / Köşegen           | e   | 6.01 | 7.66 | 8.79 | 11.05 | 12.12 | 14.38 | 18.90 | 21.10 | 24.49 | 26.75 | 30.14 | 33.53 | 35.72 | 39.98 | 45.20 | 50.85 | 55.37 | 60.79 | 66.44 |

*Values are given in millimeters. / Değerler milimetre olarak verilmiştir.*

| Thread size / Anma çapı |     | M3   | M4   | M5   | M6   | M7   | M8 | M10  | M12   | M14   | M16   | M18  | M20 | M22 | M24 | M27 | M30 | M33 | M36 | M39 |
|-------------------------|-----|------|------|------|------|------|----|------|-------|-------|-------|------|-----|-----|-----|-----|-----|-----|-----|-----|
| Length / Boy (1)        |     |      |      |      |      |      |    |      |       |       |       |      |     |     |     |     |     |     |     |     |
| 10                      | +/- | 0.29 | 0.75 | 1.64 | 2.63 | 4.08 |    | 9.10 |       |       |       |      |     |     |     |     |     |     |     |     |
| 12                      | +/- | 0.35 | 0.84 | 1.80 | 2.87 | 4.42 |    | 9.80 | 17.34 | 25.45 |       | 52.9 |     |     |     |     |     |     |     |     |
| 14                      | +/- | 0.35 | 0.92 | 1.95 | 3.12 | 4.76 |    | 10.5 | 18.32 | 26.87 |       | 55.6 |     |     |     |     |     |     |     |     |
| 16                      | +/- | 0.35 | 1.00 | 2.10 | 3.37 | 5.11 |    | 11.1 | 19.30 | 28.30 |       | 58.3 | 105 |     |     | 173 |     |     |     |     |
| 18                      | +/- | 0.35 | 1.09 | 2.25 | 3.62 | 5.45 |    | 11.7 | 20.28 | 29.72 |       | 60.9 | 110 |     |     | 178 |     |     |     |     |
| 20                      | +/- | 0.42 | 1.18 | 2.41 | 3.87 | 5.80 |    | 12.3 | 21.26 | 31.14 | 46.40 | 63.5 | 114 |     |     | 184 |     |     |     |     |
| 22                      | +/- | 0.42 | 1.27 | 2.56 | 4.12 | 6.15 |    | 12.9 | 22.24 | 32.56 | 48.35 | 66.2 | 119 |     |     | 190 |     |     |     |     |
| 25                      | +/- | 0.42 | 1.40 | 2.80 | 4.49 | 6.65 |    | 13.9 | 23.72 | 34.70 | 51.28 | 70.2 | 124 |     |     | 199 |     |     |     |     |
| 28                      | +/- | 0.42 | 1.52 | 3.04 | 4.86 | 7.15 |    | 14.9 | 25.19 | 36.83 | 54.20 | 74.2 | 129 |     |     | 205 |     |     |     |     |
| 30                      | +/- | 0.42 | 1.61 | 3.19 | 5.11 | 7.51 |    | 15.5 | 26.17 | 38.26 | 56.15 | 76.9 | 134 |     |     | 214 |     |     |     |     |
| 35                      | +/- | 0.50 |      | 3.57 | 5.73 | 8.37 |    | 17.1 | 28.63 | 41.18 | 61.03 | 83.5 | 145 |     |     | 229 |     |     | 424 | 670 |
| 40                      | +/- | 0.50 |      | 3.96 | 6.35 | 9.23 |    | 18.7 | 31.08 | 45.37 | 65.90 | 90.2 | 155 |     |     | 244 |     |     | 448 | 714 |
| 45                      | +/- | 0.50 |      | 4.34 | 6.99 | 10.1 |    | 20.3 | 33.53 | 48.93 | 70.78 | 97.1 | 165 |     |     | 259 |     |     | 472 | 748 |
| 50                      | +/- | 0.50 |      | 4.73 | 7.59 | 11.0 |    | 21.8 | 35.99 | 52.49 | 75.66 | 103  | 176 |     |     | 274 |     |     | 496 | 783 |
| 60                      | +/- | 0.60 |      | 5.50 | 8.83 | 12.7 |    | 25.0 | 40.90 | 59.60 | 85.41 | 117  | 196 |     |     | 304 |     |     | 543 | 851 |