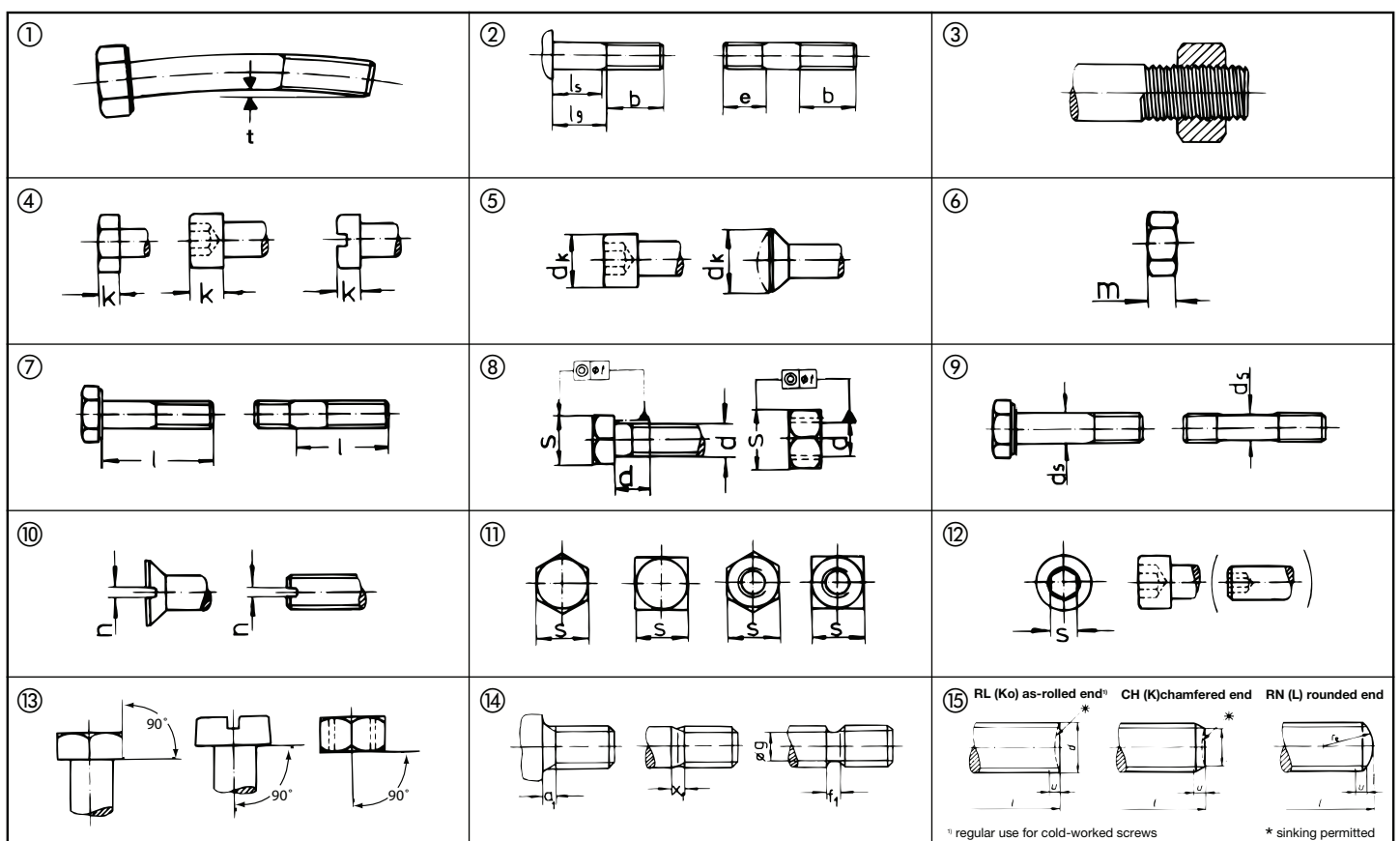




Tolerances for screws and nuts



| Characteristic | | Dimension range | Product class A (previously "m" = medium) | Product class B (previously "mg" = medium-coarse) | Product class C (previously "g" = coarse) | |
|---|----------------|--|---|---|---|--|
| ① Straightness | t | l = nominal length | $d \leq 8$ | $0.0020 l + 0.05$ | $2x (0.0020 b + 0.05)$ | |
| | | b = thread length | $d > 8$ | $0.0025 l + 0.05$ | $2x (0.0025 b + 0.05)$ | |
| ② Thread length Length of metal end | Stud | b | | 0 to +2 P | 0 to +2 P | |
| | | e | | js16 | js17 | js17 |
| ③ Thread dimension | Nut | | | 6H | 6H | |
| | | Screw | | 6g | 6g | 8g |
| ④ Head height | External drive | k | $k < 10$ | js14 | js15 | js16 |
| | | | $k \geq 10$ | | | js17 |
| | Internal drive | k | $\leq M5$ | h13 | h14 | - |
| | | | $\leq M5$ | h14 | h14 | - |
| ⑤ Diameter of head | d_k | | h13 (slotted screw h14) | h14 | - | |
| ⑥ Nut height | m | | $\leq M12$ | h14 | h14 | h17 |
| | | | $> M12 \leq M18$ | h15 | h15 | h17 |
| | | | $> M18$ | h16 | h16 | h17 |
| Thread run-out (a, x) and thread undercut (g, f) see ISO 3508/4755 (DIN 76). Chamfered end and rounded end see ISO 4753 (DIN 78). Wire hole and split pin hole see ISO 7378/8991 (DIN 962/34803). | | Classification of the product classes among the most conventional standard parts | Screws acc. to DIN* | 84, 85, 444C, 478, 479, 480, 561, 564, 609, 610, 653, 787, 835, 912, 931, 933, 938, 939, 940, 960, 961, 963, 964, 965, 966, 6912, 7380, 7513, 7516, 7971-7983, 7984, 7985, 7991 | 444 B 609, 610 $\geq M12$ 931, 933 } $> M24$ 960, 961 } $L > 10d / > 150 \text{ mm}$ | 95, 96, 97, 186, 188, 261, 316, 444 A, 525, 529, 558, 571, 601, 603, 604, 605, 607, 608, 6914, 7968, 7969, 7990, 11014 |
| | | | Nuts acc. to DIN* | 439, 466, 467, 917, 934, 935, 936, 937, 979, 980, 982 $\leq M12$, 985 $\leq M12$, 986, 1587, 6330, 6331 | 439, 562, 934, 935, 936, 980 $\geq M16$, 982 $\geq M16$, 985 $\geq M16$, 1587, 6915, 7965 | 315, 555, 557, 935 |
| | | | *or corresponding ISO standard | | | |

Extracts from ISO 3508, 4755 (DIN 76) – ISO 4753 (DIN 78) – ISO 7378, 8991 (DIN 962/34803) and ISO 4759-1