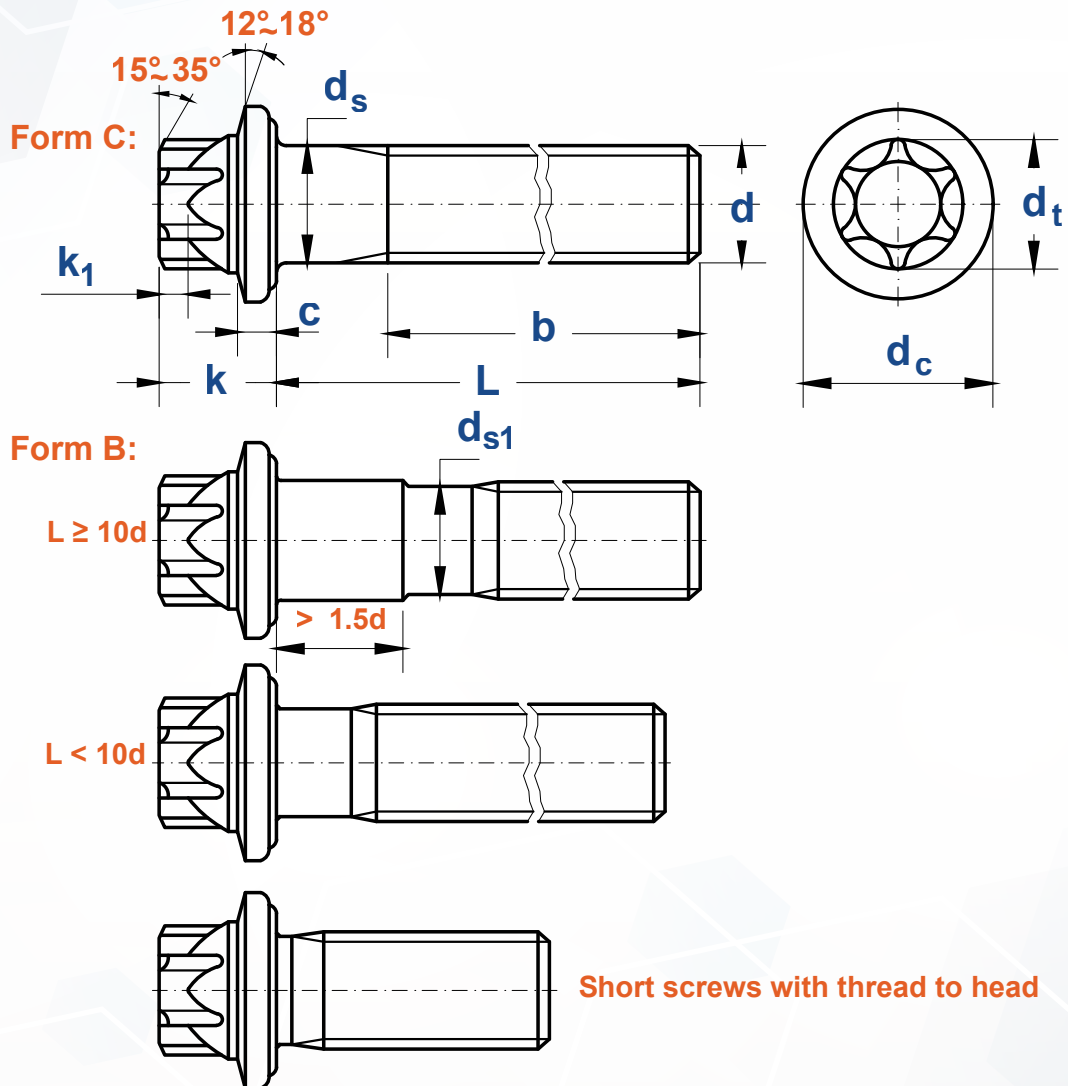




| Thread Size<br>d     |                  |               | M4   | M5   | M6    | M8    | M10   | M12   | M14   | M16   | M18   | M20   |
|----------------------|------------------|---------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| P                    | Pitch            | Coarse thread | 0.7  | 0.8  | 1     | 1.25  | 1.5   | 1.75  | 2     | 2     | 2.5   | 2.5   |
|                      |                  | Fine Thread-1 | /    | /    | /     | 1     | 1.25  | 1.5   | 1.5   | 1.5   | 2     | 2     |
|                      |                  | Fine thread-2 | /    | /    | /     | /     | 1     | 1.25  | /     | /     | 1.5   | 1.5   |
| b                    | Ref.             |               | 35   | 40   | 50    | 65    | 80    | 80    | 80    | 80    | 80    | 80    |
| d <sub>c</sub>       | max=nominal size |               | 7.88 | 8.88 | 10.88 | 13.73 | 16.83 | 18.83 | 21.93 | 25.09 | 28.04 | 31.09 |
| d <sub>s</sub>       | max              |               | 4    | 5    | 6     | 8     | 10    | 12    | 14    | 16    | 18    | 20    |
|                      | min              |               | 3.82 | 4.82 | 5.82  | 7.78  | 9.78  | 11.73 | 13.73 | 15.73 | 17.73 | 19.67 |
| d <sub>t</sub>       | Nominal Size     |               | 4.6  | 5.55 | 7.3   | 9.2   | 10.95 | 12.65 | 16.4  | 18.15 | 21.85 | 21.85 |
| k                    | max=nominal size |               | 4.5  | 5.5  | 6.5   | 8.2   | 10    | 12    | 14    | 16    | 18    | 20    |
|                      | min              |               | 4.25 | 5.25 | 6.25  | 7.95  | 9.75  | 11.75 | 13.75 | 15.75 | 17.75 | 19.75 |
| c                    | max              |               | 1.30 | 1.70 | 1.80  | 2.50  | 3.20  | 3.90  | 4.20  | 5.10  | 5.20  | 6.50  |
|                      | min              |               | 1.05 | 1.45 | 1.55  | 2.25  | 2.95  | 3.60  | 3.90  | 4.80  | 4.90  | 6.20  |
| k <sub>1</sub>       | min              |               | 1.19 | 1.25 | 1.7   | 2.08  | 2.54  | 3.28  | 3.99  | 4.34  | 5.89  | 5.89  |
| Outside hexagon size |                  |               | E5   | E6   | E8    | E10   | E12   | E14   | E18   | E20   | E24   | E24   |

- ①, d<sub>s1</sub> ≈ flank diameter  
 ②, The shortest length commercially available is 2d.  
 ③, Material :  
 a) Steel, mechanical properties strength class 8.8, 10.9 by DIN EN ISO 898-1  
 b) Stainless steel, mechanical properties strength class A2-70, A4-70 by DIN EN ISO 306-1