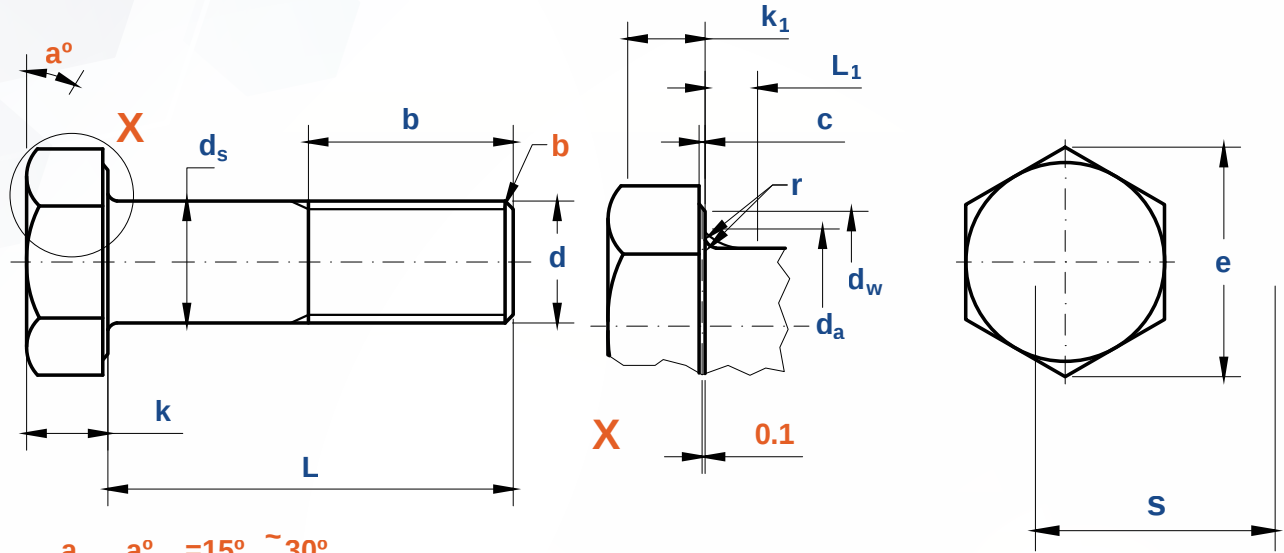
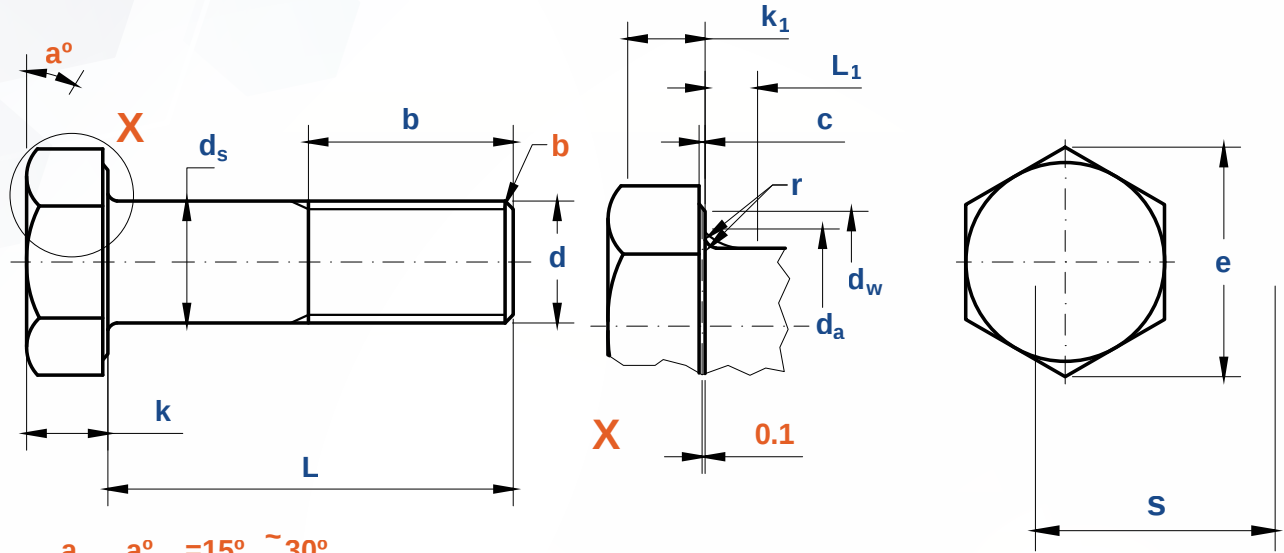




a.  $a^\circ = 15^\circ \sim 30^\circ$

b. Point shall be chamfered or for threads  $\leq M4$  may be as-rolled

| Screw Thread<br>d |                  |     | M1.6  | M2    | M2.5  | M3    | (M3.5) | M4    | M5   | M6    | M8    | M10   | M12   | (M14) | M16   | (M18)  | M20    |
|-------------------|------------------|-----|-------|-------|-------|-------|--------|-------|------|-------|-------|-------|-------|-------|-------|--------|--------|
| P                 | Pitch            |     | 0.35  | 0.4   | 0.45  | 0.5   | 0.6    | 0.7   | 0.8  | 1     | 1.25  | 1.5   | 1.75  | 2     | 2     | 2.5    | 2.5    |
| b                 | L ≤ 125          |     | 9     | 10    | 11    | 12    | 13     | 14    | 16   | 18    | 22    | 26    | 30    | 34    | 38    | 42     | 46     |
|                   | 125 < L ≤ 200    |     | /     | /     | /     | /     | /      | /     | /    | /     | /     | /     | /     | 40    | 44    | 48     | 52     |
|                   | L > 200          |     | /     | /     | /     | /     | /      | /     | /    | /     | /     | /     | /     | /     | /     | /      | /      |
| c                 | max              |     | 0.25  | 0.25  | 0.25  | 0.4   | 0.4    | 0.4   | 0.5  | 0.5   | 0.6   | 0.6   | 0.6   | 0.6   | 0.8   | 0.8    | 0.8    |
|                   | min              |     | 0.1   | 0.1   | 0.1   | 0.15  | 0.15   | 0.15  | 0.15 | 0.15  | 0.15  | 0.15  | 0.15  | 0.15  | 0.2   | 0.2    | 0.2    |
| da                | max              |     | 2     | 2.6   | 3.1   | 3.6   | 4.1    | 4.7   | 5.7  | 6.8   | 9.2   | 11.2  | 13.7  | 15.7  | 17.7  | 20.2   | 22.4   |
| ds                | max=nominal size |     | 1.6   | 2     | 2.5   | 3     | 3.5    | 4     | 5    | 6     | 8     | 10    | 12    | 14    | 16    | 18     | 20     |
|                   | Grade A          | min | 1.46  | 1.86  | 2.36  | 2.86  | 3.32   | 3.82  | 4.82 | 5.82  | 7.78  | 9.78  | 11.73 | 13.73 | 15.73 | 17.73  | 19.67  |
|                   | Grade B          | min | /     | /     | /     | /     | /      | /     | /    | /     | /     | /     | /     | /     | 15.57 | 17.57  | 19.48  |
| dw                | Grade A          | min | 2.27  | 3.07  | 4.07  | 4.57  | 5.07   | 5.88  | 6.88 | 8.88  | 11.63 | 14.63 | 16.63 | 19.37 | 22.49 | 25.34  | 28.19  |
|                   | Grade B          | min | /     | /     | /     | /     | /      | /     | /    | /     | /     | /     | /     | /     | 22    | 24.85  | 27.7   |
| e                 | Grade A          | min | 3.41  | 4.32  | 5.45  | 6.01  | 6.58   | 7.66  | 8.79 | 11.05 | 14.38 | 17.77 | 20.03 | 23.36 | 26.75 | 30.14  | 33.53  |
|                   | Grade B          | min | /     | /     | /     | /     | /      | /     | /    | /     | /     | /     | /     | /     | 26.17 | 29.56  | 32.95  |
| L1                | max              |     | 0.6   | 0.8   | 1     | 1     | 1      | 1.2   | 1.2  | 1.4   | 2     | 2     | 3     | 3     | 3     | 3      | 4      |
| k                 | Nominal Size     |     | 1.1   | 1.4   | 1.7   | 2     | 2.4    | 2.8   | 3.5  | 4     | 5.3   | 6.4   | 7.5   | 8.8   | 10    | 11.5   | 12.5   |
|                   | Grade A          | max | 1.225 | 1.525 | 1.825 | 2.125 | 2.525  | 2.925 | 3.65 | 4.15  | 5.45  | 6.58  | 7.68  | 8.98  | 10.18 | 11.715 | 12.715 |
|                   |                  | min | 0.975 | 1.275 | 1.575 | 1.875 | 2.275  | 2.675 | 3.35 | 3.85  | 5.15  | 6.22  | 7.32  | 8.62  | 9.82  | 11.285 | 12.285 |
|                   | Grade B          | max | /     | /     | /     | /     | /      | /     | /    | /     | /     | /     | /     | /     | 10.29 | 11.85  | 12.85  |
|                   |                  | min | /     | /     | /     | /     | /      | /     | /    | /     | /     | /     | /     | /     | 9.71  | 11.15  | 12.15  |
| k1                | Grade A          | min | 0.68  | 0.89  | 1.1   | 1.31  | 1.59   | 1.87  | 2.35 | 2.7   | 3.61  | 4.35  | 5.12  | 6.03  | 6.87  | 7.9    | 8.6    |
|                   | Grade B          | min | /     | /     | /     | /     | /      | /     | /    | /     | /     | /     | /     | /     | 6.8   | 7.81   | 8.51   |
| r                 | min              |     | 0.1   | 0.1   | 0.1   | 0.1   | 0.1    | 0.2   | 0.2  | 0.25  | 0.4   | 0.4   | 0.6   | 0.6   | 0.6   | 0.6    | 0.8    |
| s                 | max=nominal size |     | 3.2   | 4     | 5     | 5.5   | 6      | 7     | 8    | 10    | 13    | 16    | 18    | 21    | 24    | 27     | 30     |
|                   | Grade A          | min | 3.02  | 3.82  | 4.82  | 5.32  | 5.82   | 6.78  | 7.78 | 9.78  | 12.73 | 15.73 | 17.73 | 20.67 | 23.67 | 26.67  | 29.67  |
|                   | Grade B          | min | /     | /     | /     | /     | /      | /     | /    | /     | /     | /     | /     | /     | 23.16 | 26.16  | 29.16  |



a.  $a^\circ = 15^\circ \sim 30^\circ$

b. Point shall be chamfered or for threads  $\leq M4$  may be as-rolled

| Screw Thread<br>d |                  |     | (M22)  | M24    | (M27) | M30   | (M33) | M36   | (M39) | M42   | (M45) | M48   | (M52) | M56   | (M60) | M64    |
|-------------------|------------------|-----|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| P                 | Pitch            |     | 2.5    | 3      | 3     | 3.5   | 3.5   | 4     | 4     | 4.5   | 4.5   | 5     | 5     | 5.5   | 5.5   | 6      |
| b                 | L≤125            |     | 50     | 54     | 60    | 66    | /     | /     | /     | /     | /     | /     | /     | /     | /     | /      |
|                   | 125<L≤200        |     | 56     | 60     | 66    | 72    | 78    | 84    | 90    | 96    | 102   | 108   | 116   | /     | /     | /      |
|                   | L>200            |     | 69     | 73     | 79    | 85    | 91    | 97    | 103   | 109   | 115   | 121   | 129   | 137   | 145   | 153    |
| c                 | max              |     | 0.8    | 0.8    | 0.8   | 0.8   | 0.8   | 0.8   | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1      |
|                   | min              |     | 0.2    | 0.2    | 0.2   | 0.2   | 0.2   | 0.2   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3   | 0.3    |
| d <sub>a</sub>    | max              |     | 24.4   | 26.4   | 30.4  | 33.4  | 36.4  | 39.4  | 42.4  | 45.6  | 48.6  | 52.6  | 56.6  | 63    | 67    | 71     |
| d <sub>s</sub>    | max=nominal size |     | 22     | 24     | 27    | 30    | 33    | 36    | 39    | 42    | 45    | 48    | 52    | 56    | 60    | 64     |
|                   | Grade A          | min | 21.67  | 23.67  | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /      |
|                   | Grade B          | min | 21.48  | 23.48  | 26.48 | 29.48 | 32.38 | 35.38 | 38.38 | 41.38 | 44.38 | 47.38 | 51.26 | 55.26 | 59.26 | 63.26  |
| d <sub>w</sub>    | Grade A          | min | 31.71  | 33.61  | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /      |
|                   | Grade B          | min | 31.35  | 33.25  | 38    | 42.75 | 46.55 | 51.11 | 55.86 | 59.95 | 64.7  | 69.45 | 74.2  | 78.66 | 83.41 | 88.16  |
| e                 | Grade A          | min | 37.72  | 39.98  | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /      |
|                   | Grade B          | min | 37.29  | 39.55  | 45.2  | 50.85 | 55.37 | 60.79 | 66.44 | 71.3  | 76.95 | 82.6  | 88.25 | 93.56 | 99.21 | 104.86 |
| L <sub>1</sub>    | max              |     | 4      | 4      | 6     | 6     | 6     | 6     | 6     | 8     | 8     | 10    | 10    | 12    | 12    | 13     |
| k                 | Nominal Size     |     | 14     | 15     | 17    | 18.7  | 21    | 22.5  | 25    | 26    | 28    | 30    | 33    | 35    | 38    | 40     |
|                   | Grade A          | max | 14.215 | 15.215 | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /      |
|                   |                  | min | 13.785 | 14.785 | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /      |
|                   | Grade B          | max | 14.35  | 15.35  | 17.35 | 19.12 | 21.42 | 22.92 | 25.42 | 26.42 | 28.42 | 30.42 | 33.5  | 35.5  | 38.5  | 40.5   |
|                   |                  | min | 13.65  | 14.65  | 16.65 | 18.28 | 20.58 | 22.08 | 24.58 | 25.58 | 27.58 | 29.58 | 32.5  | 34.5  | 37.5  | 39.5   |
| k <sub>1</sub>    | Grade A          | min | 9.65   | 10.35  | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /      |
|                   | Grade B          | min | 9.56   | 10.26  | 11.66 | 12.8  | 14.41 | 15.46 | 17.21 | 17.91 | 19.31 | 20.71 | 22.75 | 24.15 | 26.25 | 27.65  |
| r                 | min              |     | 0.8    | 0.8    | 1     | 1     | 1     | 1     | 1     | 1.2   | 1.2   | 1.6   | 1.6   | 2     | 2     | 2      |
| s                 | max=nominal size |     | 34     | 36     | 41    | 46    | 50    | 55    | 60    | 65    | 70    | 75    | 80    | 85    | 90    | 95     |
|                   | Grade A          | min | 33.38  | 35.38  | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /     | /      |
|                   | Grade B          | min | 33     | 35     | 40    | 45    | 49    | 53.8  | 58.8  | 63.1  | 68.1  | 73.1  | 78.1  | 82.8  | 87.8  | 92.8   |