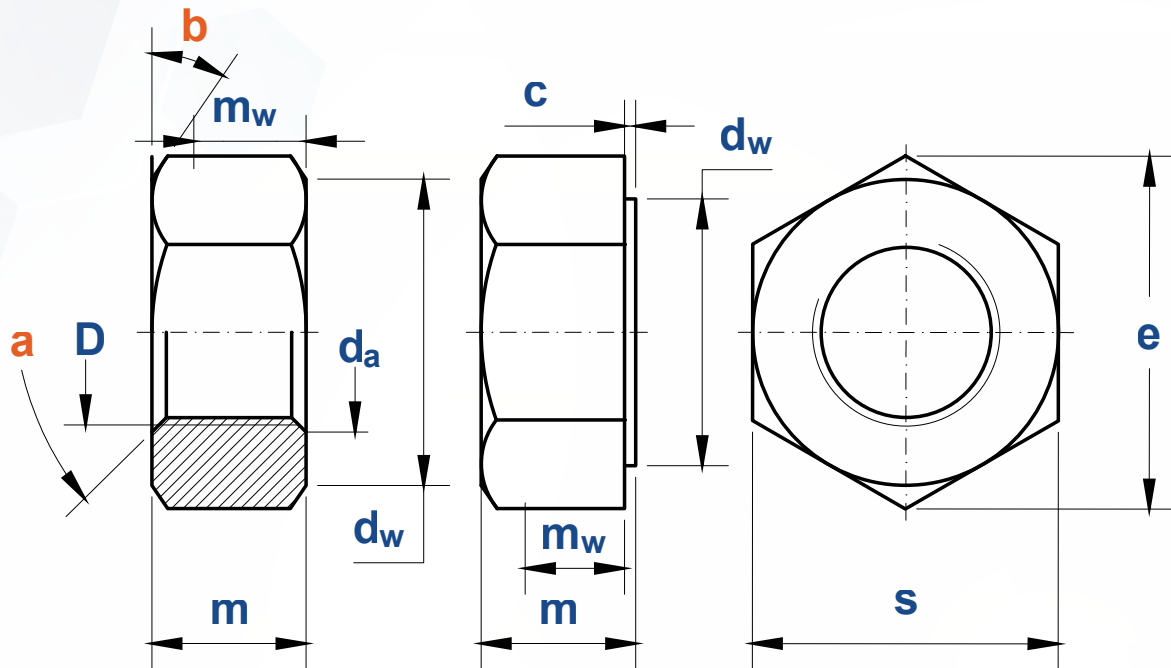




a:  $110^{\circ} \sim 130^{\circ}$   
b:  $15^{\circ} \sim 30^{\circ}$

| Thread Size<br>D |       | M12   | (M14) | M16   | (M18) | M20   | M22   | M24  | M27   | M30   | M36   |
|------------------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|
| P                | Pitch | 1.75  | 2     | 2     | 2.5   | 2.5   | 2.5   | 3    | 3     | 3.5   | 4     |
| d <sub>a</sub>   | max   | 13    | 15.1  | 17.3  | 19.5  | 21.6  | 23.7  | 25.9 | 29.1  | 32.4  | 38.9  |
|                  | min   | 12    | 14    | 16    | 18    | 20    | 22    | 24   | 27    | 30    | 36    |
| d <sub>w</sub>   | max   | 22    | 24    | 27    | 30    | 32    | 36    | 41   | 46    | 50    | 60    |
|                  | min   | 20.1  | 21.86 | 24.9  | 27.7  | 29.5  | 33.3  | 38   | 42.8  | 46.6  | 55.9  |
| e                | min   | 23.91 | 27.12 | 29.56 | 32.95 | 35.03 | 39.55 | 45.2 | 50.85 | 55.37 | 66.44 |
| m                | max   | 10.8  | 12.8  | 14.8  | 15.8  | 18    | 19.4  | 21.5 | 23.8  | 25.6  | 31    |
|                  | min   | 10.37 | 12.1  | 14.1  | 15.1  | 16.9  | 18.1  | 20.2 | 22.5  | 24.3  | 29.4  |
| m <sub>w</sub>   | min   | 8.3   | 9.7   | 11.3  | 12.1  | 13.5  | 14.5  | 16.2 | 18.1  | 19.5  | 22.4  |
| c                | max   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8   | 0.8  | 0.8   | 0.8   | 0.8   |
|                  | min   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4   | 0.4  | 0.4   | 0.4   | 0.4   |
| s                | max   | 22    | 24    | 27    | 30    | 32    | 36    | 41   | 46    | 50    | 60    |
|                  | min   | 21.16 | 23.16 | 26.16 | 29.16 | 31    | 35    | 40   | 45    | 49    | 58.8  |