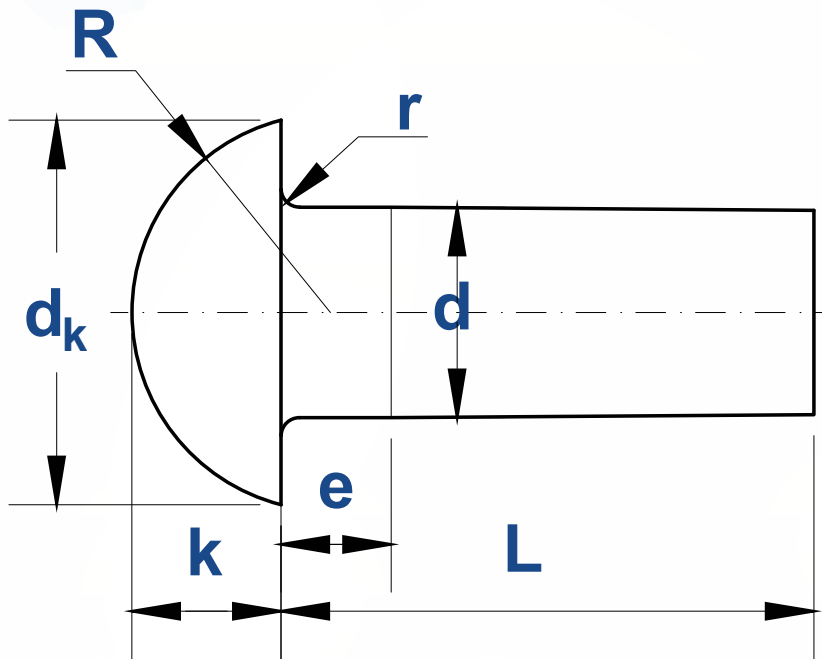




| Nominal Diameter<br>$d$ |                        | $\Phi 10$ | $\Phi 12$ | $(\Phi 14)$ | $\Phi 16$ | $(\Phi 18)$ | $\Phi 20$ | $(\Phi 22)$ | $\Phi 24$ | $(\Phi 27)$ | $\Phi 30$ | $(\Phi 33)$ | $\Phi 36$ |
|-------------------------|------------------------|-----------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|
| $d$                     | max                    | 10.2      | 12.2      | 14.2        | 16.2      | 18.2        | 20.2      | 22.2        | 24.3      | 27.3        | 30.3      | 33.3        | 36.3      |
|                         | min                    | 9.8       | 11.8      | 13.8        | 15.8      | 17.8        | 19.8      | 21.8        | 23.7      | 26.7        | 29.7      | 32.7        | 35.7      |
| $\alpha$                | min=nominal size       | 75°       | 75°       | 75°         | 75°       | 75°         | 60°       | 60°         | 60°       | 60°         | 45°       | 45°         | 45°       |
|                         | max                    | 80°       | 80°       | 80°         | 80°       | 80°         | 65°       | 65°         | 65°       | 65°         | 50°       | 50°         | 50°       |
| $d_k$                   | max=nominal size (h16) | 14.5      | 18        | 21.5        | 26        | 30          | 31.5      | 34.5        | 38        | 42          | 42.5      | 46.5        | 51        |
|                         | min                    | 13.4      | 16.9      | 20.2        | 24.7      | 28.7        | 29.9      | 32.9        | 36.4      | 40.4        | 40.9      | 44.9        | 49.1      |
| $d_1$                   | min                    | 9.4       | 11.3      | 13.2        | 15.2      | 17.1        | 19.1      | 20.9        | 22.9      | 25.8        | 28.6      | 31.6        | 34.6      |
| $k$                     | $\approx$              | 3         | 4         | 5           | 6.5       | 8           | 10        | 11          | 12        | 13.5        | 15        | 16.5        | 18        |
| $e$                     | max                    | 5         | 6         | 7           | 8         | 9           | 10        | 11          | 12        | 13.5        | 15        | 16.5        | 18        |
| $r$                     | $\approx$              | 32        | 45        | 60          | 85        | 105         | 120       | 75          | 85        | 110         | 120       | 145         | 170       |
| $w$                     | $\approx$              | 1         | 1         | 1           | 1         | 1           | 1         | 2           | 2         | 2           | 2         | 2           | 2         |

①, Material : Steel, Non-ferrous metal, Stainless steel (See the material standard or grade) ; Other materials by agreement