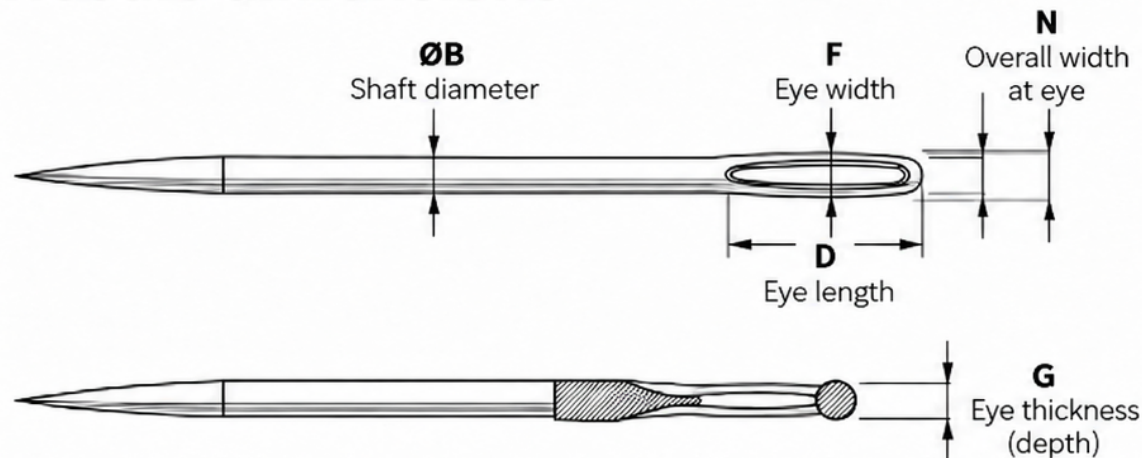
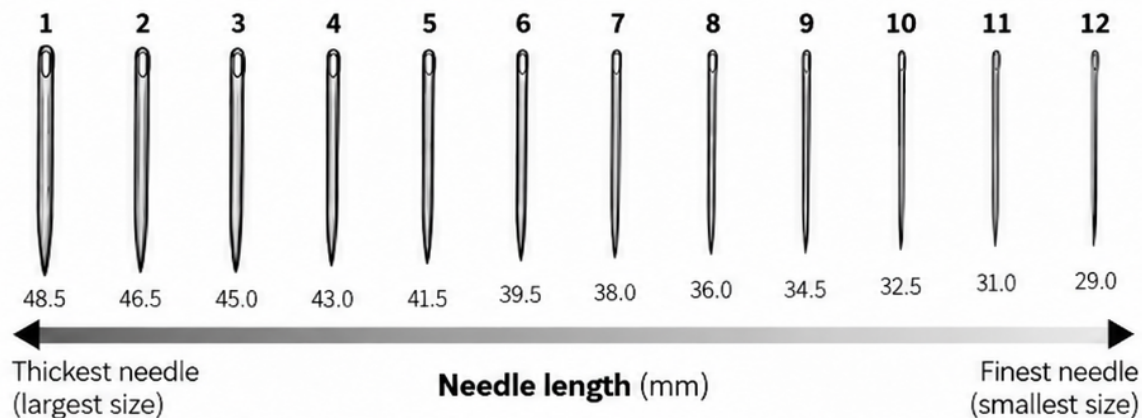


Needle dimensions



Needle sizes (actual size)



Size	ØB (mm)	D (mm)	F (mm)	G (mm)	N (mm)
1	1.17 ±0.02	1.99 ±0.10	0.51 ±0.05	0.91 ±0.10	1.321 ±0.20
2	1.09 ±0.02	1.65 ±0.10	0.43 ±0.05	0.71 ±0.10	1.245 ±0.20
3	1.02 ±0.02	1.63 ±0.10	0.41 ±0.05	0.76 ±0.10	1.270 ±0.20
4	0.94 ±0.02	1.40 ±0.10	0.38 ±0.05	0.71 ±0.10	1.016 ±0.20
5	0.86 ±0.02	1.37 ±0.10	0.33 ±0.05	0.69 ±0.10	0.965 ±0.20
6	0.76 ±0.02	1.22 ±0.10	0.31 ±0.05	0.58 ±0.10	0.813 ±0.20
7	0.69 ±0.02	1.09 ±0.10	0.52 ±0.03	0.52 ±0.05	0.787 ±0.10
8	0.61 ±0.02	0.86 ±0.10	0.20 ±0.03	0.41 ±0.05	0.800 ±0.10
9	0.53 ±0.02	0.81 ±0.10	0.20 ±0.03	0.36 ±0.05	0.711 ±0.10
10	0.46 ±0.02	0.81 ±0.10	0.20 ±0.03	0.32 ±0.05	0.602 ±0.10
11	0.42 ±0.02	0.76 ±0.10	0.20 ±0.05	0.23 ±0.05	0.483 ±0.10
12	0.35 ±0.02	0.64 ±0.10	0.18 ±0.03	0.15 ±0.05	0.450 ±0.10

Key to dimensions

ØB	Shaft diameter (thickness of the needle)
D	Eye length (length of the opening)
F	Eye width (width of the opening)
G	Eye thickness (depth around the eye)
N	Overall width at eye (total width of the needle at the eye)