Button size chart

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1 ligne is 0.635 mm, so a 40 ligne button is 1 inch across. For the buttonhole, add the button's thickness to its diameter and test on a scrap.

Ligne	Millimetres	Inches	Typical use
14 ligne	8.9 mm	0.35 in	Button-down and collar (single source)
16 ligne	10.2 mm	0.4 in	Sleeve (single source)
18 ligne	11.4 mm	0.45 in	Shirt front (single source)
20 ligne	12.7 mm	0.5 in	Sport shirt (single source)
22 ligne	14 mm	0.55 in	Sport shirt (single source)
24 ligne	15.2 mm	0.6 in	Sleeve and pant (single source)
27 ligne	17.1 mm	0.68 in	Pant (single source)
30 ligne	19.1 mm	0.75 in	Suit (single source)
32 ligne	20.3 mm	0.8 in	Suit (single source)
34 ligne	21.6 mm	0.85 in	Suit (single source)
36 ligne	22.9 mm	0.9 in	Suit (single source)
40 ligne	25.4 mm	1 in	Overcoat (single source)
44 ligne	27.9 mm	1.1 in	Overcoat (single source)

Conversion is a definition (computed). Typical uses come from one retailer chart.

Computed or quoted from the sources below; check your pattern or manual before you cut.

Sources

Wawak button size chart: https://www.blog.wawak.com/post/button-size-chart
Sewing.org: buttonholes: https://www.sewing.org/html/buttonholes.html
NMSU Extension: machine buttonholes made easy: https://pubs.nmsu.edu/_c/C231/