30° straight branch pieces, 2 and 3 mm

Diameter for 2 mm: ø100 - ø1000 mm.
Diameter for 3 mm: ø150 - ø1000 mm.

Straight branch pieces are welded and made of 2.00 and 3.00 mm sheet metal (s). Straight branch pieces with A = C ≤ 400 mm are supplied for assembly with pull rings [f.b] and for A = C ≥ 450 mm with flanges [m.fl]. When assembled with loose flanges, [f.b.m.fl], and flanges [m.fl] L1 is extended by 2 x 50 mm.

State A-, B- and C dimensions when ordering. Options are limited by A = C, and A ≥ B.

The branch determines the length of L1. Branch pieces are always straight with the branch centrally located.

L1, L2 and L3 can be calculated using the stated formulas.

For double branch pieces, the highest value of dim. B determines L1 on the common branch. L2 and L3 can then be calculated for both branches. Normally, the branches are opposite each other.

Calculating L2 and L3:

L1 = see table

$$L2 = \frac{L1}{2} - \left(\frac{A}{2 \times tg\,30°}\right)$$

$$L3 = \frac{L1-L2}{\cos 30°} - \left(\frac{B}{2} \times tg\,30°\right)$$
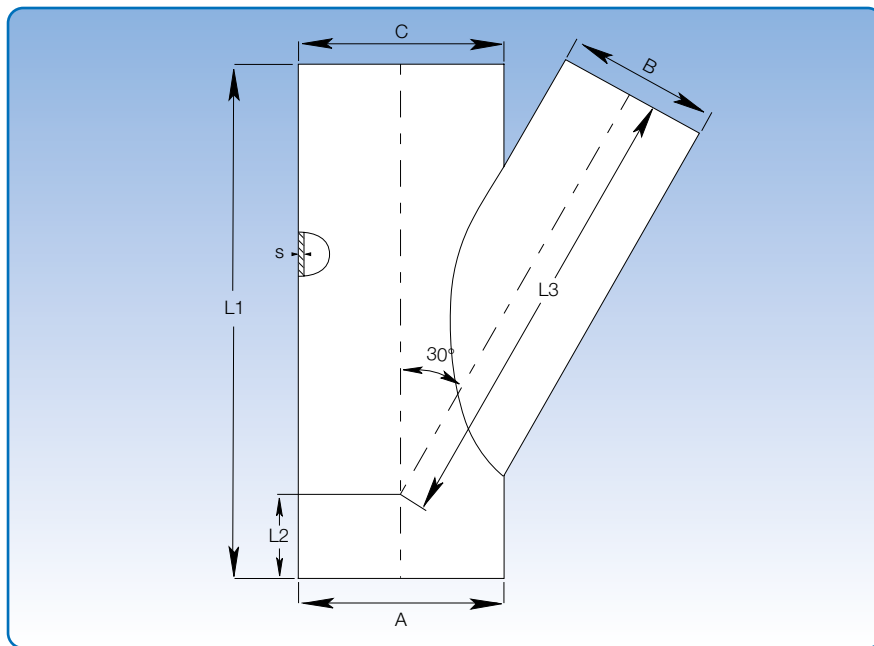
Example:

A = B = C = 450

L1 = 1250 mm

$$L2 = \frac{1250}{2} - \left(\frac{450}{tg\,30°}\right) = 625 - 389{,}71$$

L2 = 235,29 p 235 mm

$$L3 = \frac{1250 - 235}{\cos 30°} - \left(\frac{450}{2} \times tg\,30°\right) = 1172{,}06 - 129{,}92$$

L3 = 1042,14 p 1042 mm

	Dimensions			
A = C mm	B mm	L1 mm	L2 mm	L3 mm
Select (100 - 1000)	80	350	Calculate	Calculate
	100	350		
	120	350		
	125	400		
	140	450		
	150	450		
	160	450		
	180	550		
	200	550		
	225	600		
	250	750		
	275	750		
	300	750		
	315	850		
	350	950		
	400	1050		
	450	1250		
	500	1250		
	550	1450		
	600	1450		
	650	1650		
	700	1650		
	750	1850		
	800	1850		
	850	2050		
	900	2050		