45° 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.
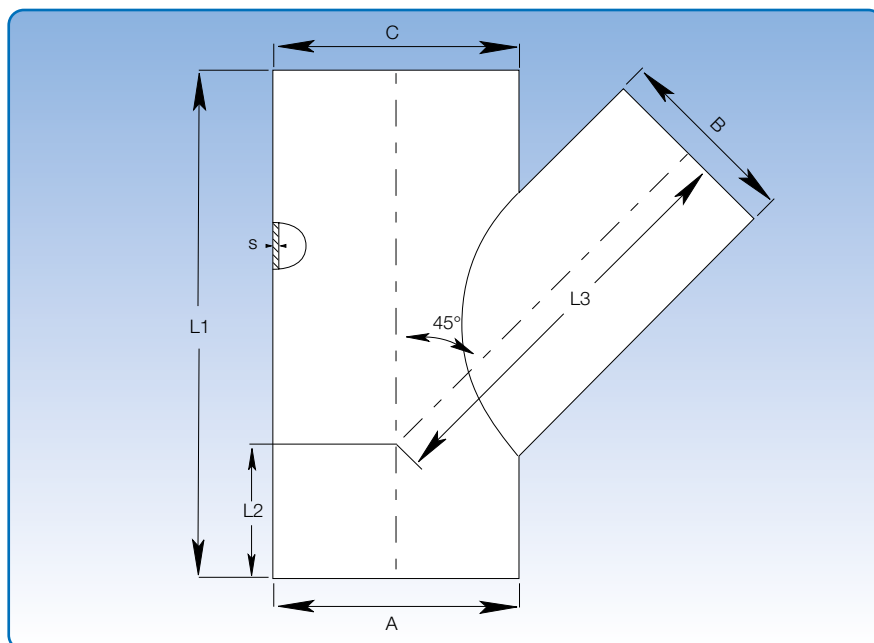
Calculating L2 and L3:

L1 = see table

$$L2 = \frac{L1}{2} - \left(\frac{A}{2 \times tg\ 45°}\right)$$

$$L3 = \frac{L1-L2}{\cos 45°} - \left(\frac{B}{2} \times tg\ 45°\right)$$

Example:

A = B = C = 600

L1 = 1150 mm

$$L2 = \frac{1150}{2} - \frac{600}{2} = 575 - 300$$

L2 = 275 mm

$$L3 = \frac{1150 - 275}{\cos 45°} - \left(\frac{600}{2} \times tg\ 45°\right)$$

L3 = 1237,44 - 300

L3 = 937,44 ≈ 937 mm

Dimensions				
A = C mm	B mm	L1 mm	L2 mm	L3 mm
Select (100 - 1000)	80	300	Calculate	Calculate
	100	300		
	120	350		
	125	350		
	140	350		
	150	400		
	160	400		
	180	400		
	200	450		
	225	500		
	250	500		
	275	600		
	300	600		
	315	600		
	350	700		
	400	800		
	450	950		
	500	950		
	550	1050		
	600	1150		
	650	1150		
	700	1300		
	750	1300		
	800	1450		
	850	1450		
	900	1650		