30° conical branch pieces, 2 and 3 mm

Diameter A for 2 mm: ø120 - ø1000 mm.
Diameter A for 3 mm: ø150 - ø1000 mm.

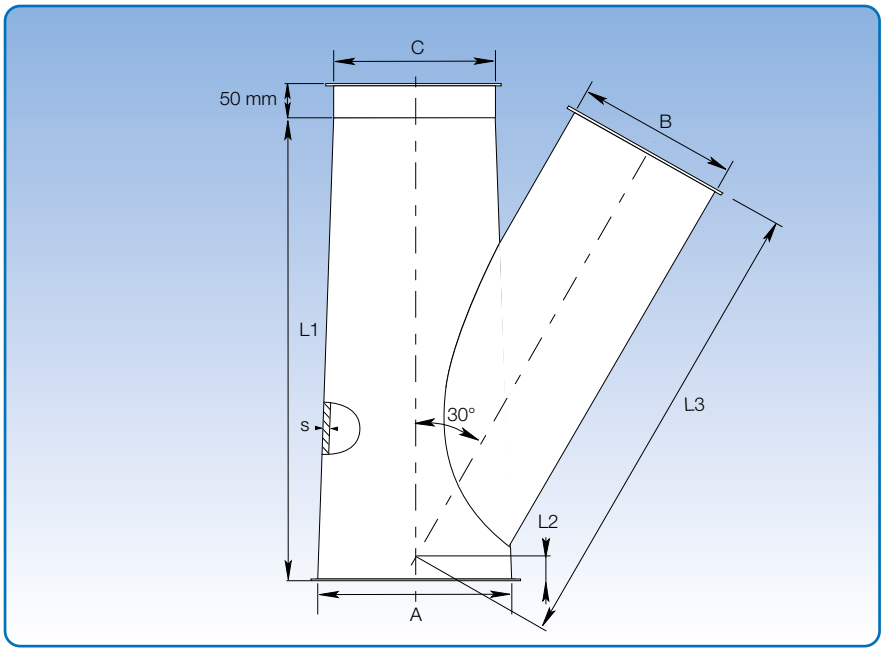
Conical branch pieces are welded and made of 2.00 and 3.00 mm sheet metal (s). Conical branch pieces with A ≤ 400 mm are supplied for assembly with pull rings [f.b] and for A ≥ 450 mm with flanges [m.fl].

L1 is extended by a 50 mm welding end at dimension C if the branch piece is supplied with flanges [m.fl], loose flanges [f.b.m.fl] or rapid lock pull rings [f.lyn].

State branch piece A-, B- and C dimensions when ordering. A, B and C can be combined to order; although branch B determines length L1 as stated in the table.

Maximum difference between diameter A and C is 100 mm. For B applies:
B < (A+C)/2.

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



Calculating L2 and L3:

L1 = See table

$$L2 = \left(\frac{L1}{2}\right) - \left(\frac{A + C}{4 \times \text{tg } 30°}\right)$$

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

Example:

A = 500, B = 300, C = 400

L1 = 750 mm

$$L2 = \frac{750}{2} - \frac{500 + 400}{4 \times \text{tg } 30°} = 375 - 389{,}71$$

L2 = - 14,71 p - 15 mm

$$L3 = \frac{750 - 15}{\cos 30°} - \left(\frac{300}{2} \times \text{tg } 30°\right) = 848{,}70 - 86{,}61$$

L3 = 762,1 p 762 mm

Dimensions					
A mm	B mm	C mm	L1 mm	L2 mm	L3 mm
Select (100 - 1000)	80	Select (100 - 1000)	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		1250		
	600		1450		
	650		1650		
	700		1650		
	750		1850		
	800		1850		
	850		2050		
	900		2050		