



30° straight branch pieces, galvanised

Diameter: ø80 – ø1000 mm.

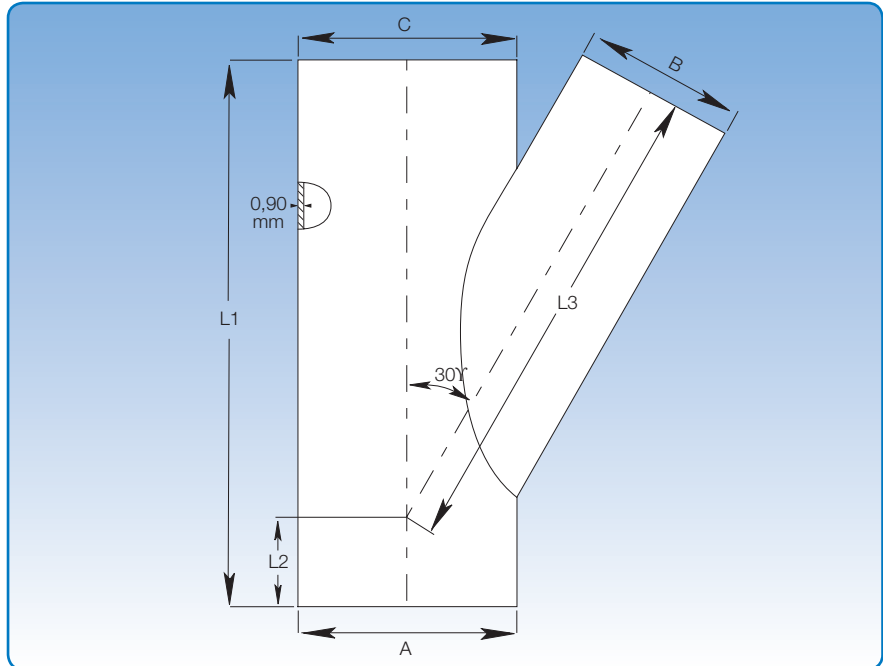
Galvanised branch pieces are made of 0.90 mm sheet metal.

When assembled with loose flanges, [f.b.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.
A = C must be max. 1000 mm.

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.



Calculating L2 and L3:

L1 = see table

$$L2 = \frac{1}{2} \times \left(L1 - \frac{A}{\tan 30^\circ} \right)$$

$$L3 = \frac{L1 - L2}{\cos 30^\circ} \times \tan 30^\circ \left(\frac{B}{A} \right)$$

Example:

A = 650, B = 400, C = 650

L1 = 1050 mm

$$L2 = 0,5 \times \left(1050 - \frac{650}{\tan 29,7^\circ} \right) = 0,5 \times (1050 - 1139,57)$$

L2 = - 44,79 ~ - 45 mm

$$L3 = \frac{1050 + 45}{\cos 29,7^\circ} \cdot \left(\frac{400}{650} \times \tan 29,7^\circ \right) = 1260,60 - 114,08$$

L3 = 1146,52 ~ 1147 mm

Dimensions						
A = C mm	B mm	L1 mm	L2 mm	L3 mm	∞	
Select (80 - 1000)	80	350			28,0	
	100	350			28,8	
	120	350			28,8	
	125	400			29,0	
	140	450			29,1	
	150	450			29,2	
	160	450			29,2	
	180	550			29,3	
	200	550			29,3	
	225	600			29,4	
	250	750			29,5	
	275	750		Calculate	Calculate	29,6
	300	750				29,6
	315	850				29,6
	350	950				29,6
	400	1050				29,7
	450	1250				29,7
	500	1250				29,7
	550	1450				29,8
	600	1450				29,8
630	1650				29,8	
650	1650				29,8	
700	1650				29,8	
750	1850				29,9	
800	1850				29,9	
850	2050				29,9	
900	2050				29,9	



30° conical branch pieces, galvanised

Diameter A: ø100 - ø1000 mm.

Galvanised branch pieces are made of 0.90 mm sheet metal.

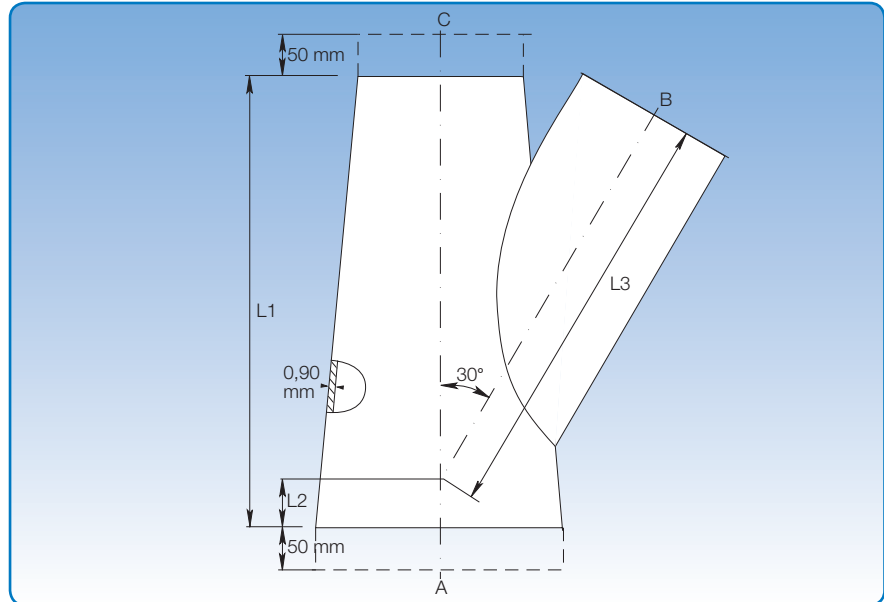
L1 will be extended by 2 x 50 mm if the branch piece is supplied with loose flanges [f.b.m.fl], rapid lock pull rings [f.lyn] or wide pull rings [f.bb].

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 diameter reduction between A and C is 200 mm. For B applies:

$$B < (A+C)/2.$$

The largest branch will determine L1 for double branch pieces.



Calculating L2 and L3:

L1 = See table

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

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

Example:

A = 650, B = 500, C = 450

L1 = 1250 mm

$$L2 = \frac{1250}{2} - \left(\frac{650 + 450}{4 \times \text{tg } 29,7} \right) = 625 - 476,31$$

L2 = 142,87 ~ 143 mm

$$L3 = \frac{1250 - 143}{\cos 29,7} - \left(\frac{500}{2} \times \text{tg } 29,7 \right) = 1274,42 - 142,60$$

L3 = 1131,82 ~ 1132 mm

Dimensions						
A mm	B mm	C mm	L1 mm	L2 mm	L3 mm	α
	80		350			28,0
	100		350			28,8
	120		350			28,8
	125		400			29,0
	140		450			29,1
	150		450			29,2
	160		450			29,2
	180		550			29,3
	200		550			29,3
Select (100 - 1000)	225	Select (100 - 1000)	600			29,4
	250		750			29,5
	275		750	Calculate	Calculate	29,6
	300		750			29,6
	315		850			29,6
	350		950			29,6
	400		1050			29,7
	450		1250			29,7
	500		1250			29,7
	550		1250			29,8
600	1450			29,8		
630	1650			29,8		
650	1650			29,8		
700	1650			29,8		
750	1850			29,9		
800	1850			29,9		
850	2050			29,9		
900	2050			29,9		