## $30^{\circ}$ conical branch pieces, 2 and 3 mm

Diameter A for 2 mm : $\varnothing 120$ - $\varnothing 1000 \mathrm{~mm}$.
Diameter A for 3 mm : $\varnothing 150-\varnothing 1000 \mathrm{~mm}$.
Conical branch pieces are welded and made of 2.00 and 3.00 mm sheet metal ( s ). Conical branch pieces with $\mathrm{A} \leq 400 \mathrm{~mm}$ are supplied for assembly with pull rings [f.b] and for $\mathrm{A} \geq$ 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 $<(\mathrm{A}+\mathrm{C}) / 2$.
The highest value of dimension B determines L 1 on the common stem for double branch pieces. L 2 and L 3 can then be calculated for both branches. Normally, the branches are opposite each other.

$$
\begin{aligned}
& \text { Calculating } \mathrm{L} 2 \text { and } \mathrm{L} 3: \\
& \mathrm{L} 1=\text { See table } \\
& \mathrm{L} 2=\left(\frac{\mathrm{L} 1}{2}\right)-\left(\frac{\mathrm{A}+\mathrm{C}}{4 \times \operatorname{tg} 30^{\circ}}\right) \\
& \mathrm{L} 3=\left(\left(\frac{\mathrm{L} 1-\mathrm{L} 2}{\cos 30}\right)\right)-\left(\left(\frac{B}{2} \times \operatorname{tg} 30^{\circ}\right)\right.
\end{aligned}
$$

$$
\begin{aligned}
& \text { Example: } \\
& \begin{array}{l}
A=500, B=300, C=400 \\
L 1=750 \mathrm{~mm} \\
L 2=\frac{750}{2} \cdot \frac{500+400}{4 \times \operatorname{tg} 30^{\circ}}=375-389,71 \\
L 2=-14,71 \mathrm{p}-15 \mathrm{~mm} \\
L 3=\frac{750-15}{\cos 30^{\circ}} \cdot\left(\frac{300}{2} \times \operatorname{tg} 30^{\circ}\right)=848,70-86,61 \\
L 3=762,1 \mathrm{p} 762 \mathrm{~mm}
\end{array}
\end{aligned}
$$



| Dimensions |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} \mathrm{A} \\ \mathrm{~mm} \end{gathered}$ | $\begin{gathered} \mathrm{B} \\ \mathrm{~mm} \end{gathered}$ | $\underset{\mathrm{mm}}{\mathrm{C}}$ | $\begin{gathered} \mathrm{L} 1 \\ \mathrm{~mm} \end{gathered}$ | $\begin{gathered} \mathrm{L} 2 \\ \mathrm{~mm} \end{gathered}$ | $\begin{gathered} \mathrm{L} 3 \\ \mathrm{~mm} \end{gathered}$ |
|  | 80 |  | 350 |  |  |
|  | 100 |  | 350 |  |  |
|  | 120 |  | 350 |  |  |
| \% | 125 | 웅 | 400 |  |  |
| 안 | 140 | 안 | 450 |  |  |
| $\stackrel{\square}{1}$ | 150 |  | 450 | $\stackrel{\text { \% }}{ }$ | $\stackrel{ \pm}{0}$ |
| 8 | 160 | 앙 | 450 | $\frac{5}{3}$ | $\frac{3}{3}$ |
| $\stackrel{5}{5}$ | 180 | $\stackrel{5}{5}$ | 550 | $\frac{5}{10}$ | $\frac{0}{10}$ |
| U | 200 | U | 550 | U | $\cup$ |
| $\stackrel{0}{0}$ | 225 | $\stackrel{0}{0}$ | 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 |  |  |

