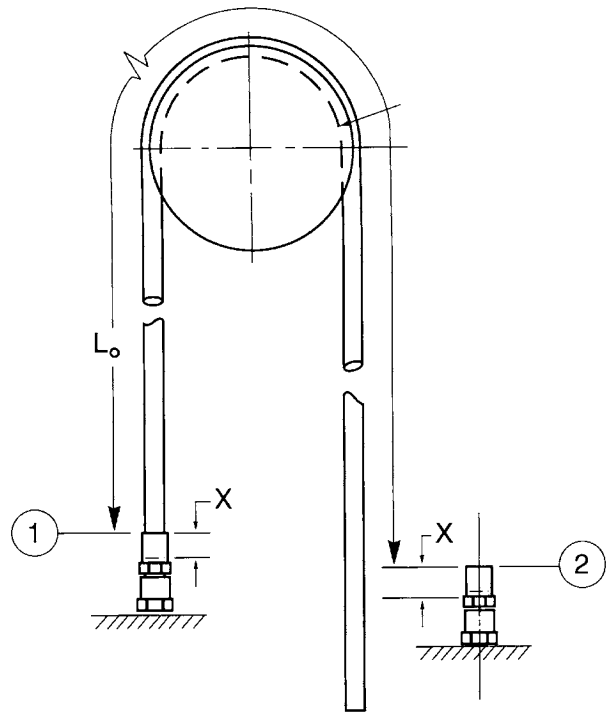


## Parflex Hose — Calculation of Hose Length for Over-the-Sheave Applications

The exact cutoff length for an optimum over-the-sheave assembly depends on the particular mechanical arrangement of the machine. A method for finding an approximate starting point is as follows:

1. Assemble hose with one coupling as shown in diagram.
2. Measure hose length from point 1 to point 2 **with hose taut (.985 accounts for 1.56 stretch)**. ( $L_o$  = length)
3. Calculation of insert allowance (x) may be found from the coupling dimension tabulations in the fittings section or from direct measurement on the coupling. A 1.5% stretch allowance is provided in this formula.
4. Calculate hose cutoff or free length  $L_F$ :  

$$L_F = 0.985 L_o + 2x$$
 Where  $L_F$  includes coupling insert allowance on both ends.
5. Couple the remaining hose end, check crimp, and assemble on the machine.



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