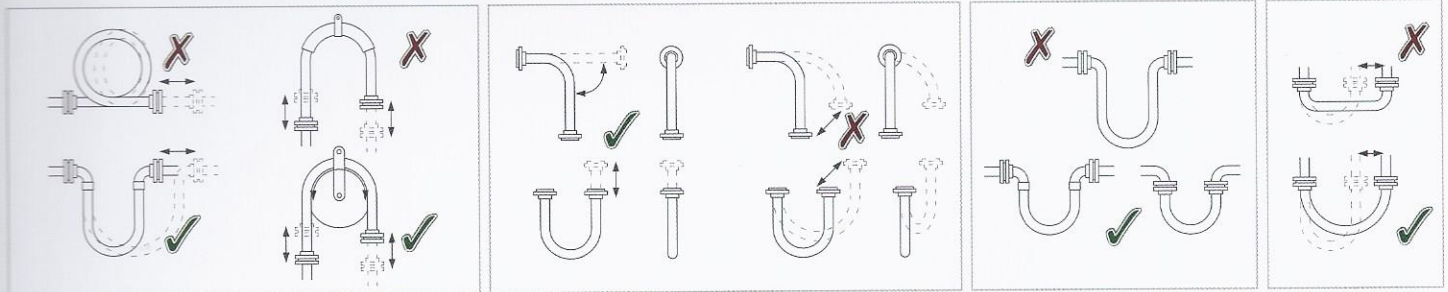




THE TECHNICAL BIT

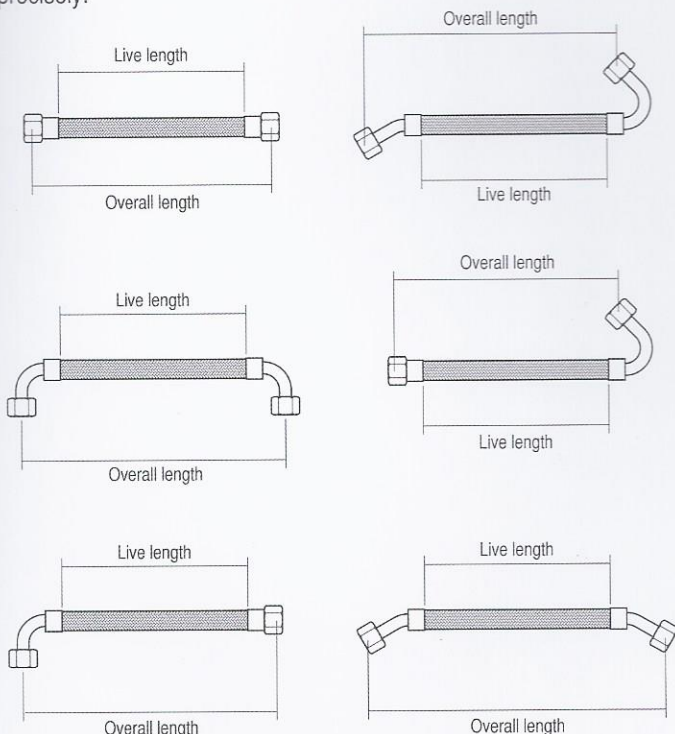


Correct hose installation

Hose by its very nature is generally flexible but it is designed primarily to provide static installation (no movement) or accommodate dynamic movement or 'offset'. It is important for maximising the life expectancy of your hose that you pay careful attention to correct installation. Considerations should be given to other external factors such as hot or cold sources nearby and abrasion or interference from other plant equipment.

How to measure lengths

The lengths of assemblies are determined by measuring from face of fitting to the centreline of angular fittings, and to the end face surface to end of face surface for straights. The diagrams, shown below are examples of how to measure overall lengths and 'live lengths' precisely.

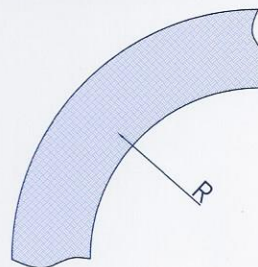


Calculating minimum hose required to form a bend

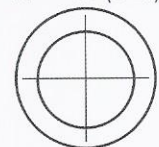
Very simplified we use a circle to calculate the radius of a hose. 1/4 of a circle (circumference) is used to calculate a 90° bend, a 1/2 would calculate a 180° bend or 'U' shape for example. The constant figure in the calculation is $\pi(\text{Pi}) = 3.142$

The variable figures are the angle required and the bend radius of the hose itself – for this example we will use a 1" hose with a bend radius (R) of 70mm, we want to know how much hose we need to bend 90°.

The calculation is $\frac{1}{4} \times \pi^2 R$ or $0.25 \times 2 \times 3.142 \times 70 = 110\text{mm}$. Do not forget to add your end fitting length and then any additional hose length to complete your routing – Fitting dimensions are all available on our web-site 'www.xtraflex.com'



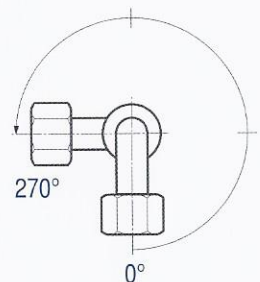
$90^\circ = 1/4 (0.25)$



$180^\circ = 1/2 (0.5)$

How to measure fitting angle

To measure the angular rotation of hose fittings, place the fitting nearest to you at position 0° (see illustration), Measure counter-clockwise to the desired position of the rear fitting. If the angle between fittings desired is position 0° to position 0° (in-line), specify 000. For example, this illustration shows an angle of 270°.



All Xtraflex hose assemblies are manufactured in accordance with DIN 26054 and the tolerance of the assemblies, unless agreed by mutual consent, are -2% and +3%.