

FIXING COPPER TUBE

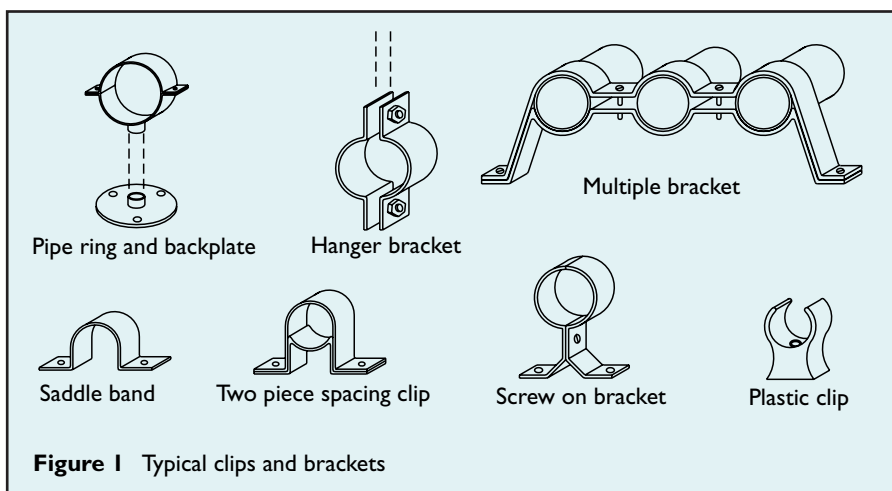


Figure 1 Typical clips and brackets

Copper tube installations have been tried and tested over many years of use in all parts of plumbing and heating systems. Copper's versatility in such a wide variety of situations has resulted in the design and development of many different types of fixing clips and bracketing systems.

All pipework systems must be adequately supported if they are to give trouble-free service especially over the long life of a copper system. Manufacturers' catalogues illustrate a vast range of clips and brackets to meet specific requirements, a few of which are illustrated in Figure 1.

Selection of the most appropriate pattern of clip or bracket depends on a number of factors which will vary with the type of job and position or situation in which the tube is installed. For example, where a tube has to be insulated against heat or frost in accordance with Water regulations. In this situation, a simple plastic stand-off clip will not give sufficient clearance for the thickness of insulation required between the tube and the fixing surface. Therefore, an alternative type of support must be chosen, such as a ring bracket with a threaded rod and backplate.

Another factor which can have a very significant effect on the overall cost of an installation is the actual number of tube supports required. Because copper tube is a relatively rigid and self supporting material, it requires comparatively few supports when compared to non-metallic tube.

How far apart should the supports for copper tube be placed?

The recommended intervals are set out in Table 1. Studying the table will show that fewer supports are required on vertical runs. This is because the vertical tube will not be subjected to

Table 1
Recommended Maximum Fixing Intervals for Copper Tube Supports.

Diameter of Copper Tube mm	Intervals for Vertical Runs in m	Intervals for Horizontal Runs in m
6	0.6	0.4
8	0.9	0.6
10	1.2	0.8
12	1.5	1.0
15	1.8	1.2
22	2.4	1.8
28	2.4	1.8
35	3.0	2.4
42	3.0	2.4
54	3.0	2.7
67	3.6	3.0
76	3.6	3.0
108	3.6	3.0
133	3.6	3.0
159	4.2	3.6

possible sagging between supports. Excessive sagging will occur on horizontal runs of tube made from any material if the supports are too far apart.

Another factor which must be borne in mind, especially when considering supports for larger diameter tube and/or

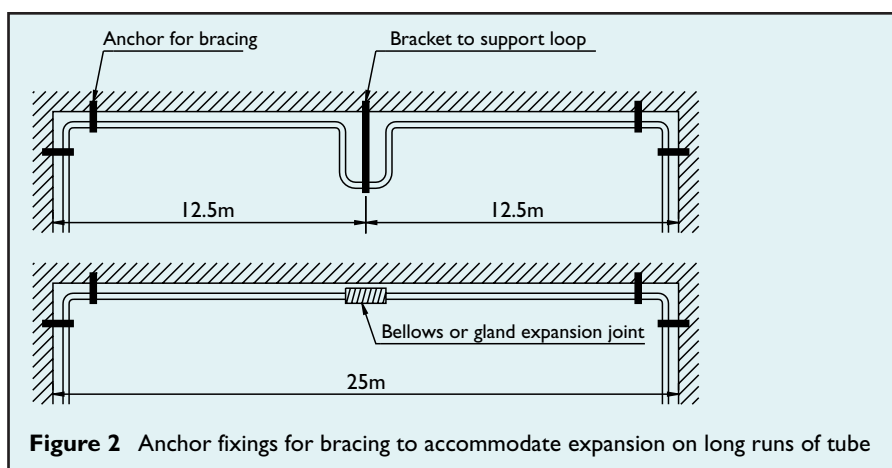


Figure 2 Anchor fixings for bracing to accommodate expansion on long runs of tube

