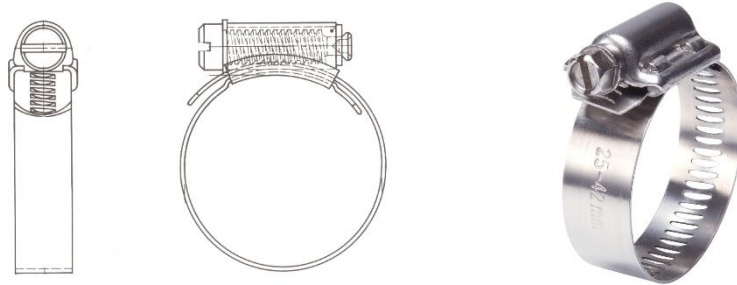


Hose Clamps – Worm Drive

Worm Drive Hose Clips

Worm drive hose clamps are used for clamping flexible hoses on to fixtures attached for the supply of liquids or gases to a tool or process. This type of clamp is widely used to secure hoses supplying compressed air to hand-held tools



Legal Provisions

There are NO legal provisions which restrict or prohibit the use of such a clamping device.

Installation

The use of such clamps requires some skill to ensure that the joint made is sufficiently tight to provide a secure fitting once under pressure but not too loose to cause slippage under pressure.

Tightening procedures should follow the manufacturer's recommendations.

Over tightening can cause damage to the hose and consequent danger to the operator or other personnel. This is important where hand-held tools are used.

BCAS recommendation

Hose clips come in a range of diameters, so it is important to choose the correct size. The following points will help you in selecting the right diameter hose clip:

- Only measure the outside diameter of the hose when it has been pushed onto the end of the pipe fitting, as often there will be expansion at this point.
- Once the outside diameter has been measured, check the dynamic range of the hose clip to ensure that it can be tightened to the correct size. An allowance should be made for the compression of the hose.
- Ideally, the required diameter will be close to the mid-range of the selected hose clip. However, if this is not possible, or the hose clamp has a narrow dynamic range; it is advised to obtain sample sizes above and below the selected size, due to the difficulty in determining the required hose compression

Due to the ease with which this type of clamp may be adjusted it is open to tampering.

As with all types of hose clamps regular maintenance should be undertaken which could include instructions to the operator to visually check any clamped fitting. If this observation results in a cause for concern, then this fact should be reported to a responsible person.

The applicable standard is **BS 5315 'Specification for hose clamps (worm drive) for general purpose use (metric series)'**