

Use of clips to secure vapour phase LPG hose and tubing to BS EN 16436-1 (Classes 1, 2 and 3) to end fittings

Liquid Gas UK (UKLPG) became aware of an incident caused by vapour phase LPG hose or tubing being used without being secured by suitable clips which then become detached from the end fittings resulting in a fire and serious injury.

Liquid re-emphasises that vapour phase LPG hose and tubing shall never be used unless it is properly secured to its end fittings by appropriate; clips or swaged fittings.

Hose or tubing with an internal diameter of 8mm or greater and operated at a pressure of up to, but not exceeding, 50mbar may be secured using either crimp clips or swaged fittings or worm drive clips.



- Only crimp clips of the correct size for the hose or tubing shall be used.



- Worm drive clips shall secure the hose or tubing but not be over tightened.

Hose or tubing with an internal diameter of less than 8mm and hose operated at a pressure exceeding 50mbar shall always be secured by crimp clips or swaged fittings. Worm drive clips shall not be used.



Hose and tubing service life

Hose and tubing* does not generally have a time limited in-service life**, but it is essential that LPG hose/tubing and end connections are regularly inspected and replaced if showing signs of:

- Physical damage such as - cuts or abrasion, rodent attack***, cracking, stretching, flattening, kinking and, where fitted, missing/worn sealing washers, damaged cylinder connections;
- Environmental deterioration such as - stiffening, cracking, de-lamination of outer covering, chemical degradation i.e. softening of outer coating by contact with oil;
- Hose service failure such as - blistering, soft spots, rupture and, for pre-assembled end fittings, corrosion or loosening of swaged fittings attaching hose.

* Tubing is marked with an expiry date; it should not be used after that date.

**Hoses or tubes fitted to cabinet heaters should be replaced after 5-year service.

***Where hoses or tubes exhibit signs of rodent attack it is advised that they are replaced with armoured type hoses.

If in doubt consult your LPG dealer/supplier

Suitable Hose and Tubing

For more details on suitable hose and tubing see Liquid Gas UK Consumer Guidance Sheet CGS 05 - LPG Hose and Tubing for use with Vapour Offtake Cylinders.



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