

Addendum to Liquefied Petroleum Gas Safety On Site Guide

This Addendum highlights to existing and past customers who have purchased NICEIC Certification’s ‘Liquefied Petroleum Gas Safety Guide’ prior to May 2022 of an error in Section 13. Boats;

Table 13.1. Pipe sizing table.

Table 13.1 is reproduced from Table A.1, Annex A of BS EN ISO 10239 ‘Small craft – Liquefied petroleum gas (LPG) systems’.

Prior to May 2022, first column of Table 13.1 had the heading “Inside diameter of hose/outside diameter of copper pipework (mm)”, which reflected the 2008 edition of BS EN ISO 10239, but which was subsequently amended in 2014, and remains unchanged in the latest 2017 edition of BS EN ISO 10239, to read “Inside diameter of hose/pipe”.

The remainder of the table, including the important pressure drop values have not changed over the years and are correctly reflected within Table 13.1 of the Guide.

The current version of NICEIC Certification’s LPG Guide (Version 7 dated May 2022, ISBN: 978-1-83863-036-2), contains the correctly labelled table as shown below.

Table 13.1 Pipe sizing table

Pipe * (mm)	Pressure Loss in kPa/m Run of Pipe								
	Connected Appliance Input (kW)								
	1	2	3	4	6	8	10	12	15
4	0.004	0.015	0.03	0.05	0.15	0.23			
6	0.001	0.004	0.007	0.012	0.03	0.04	0.07	0.1	0.14
8	<0.001	0.001	0.002	0.003	0.01	0.015	0.02	0.025	0.04
10		<0.001	<0.001	0.001	0.003	0.004	0.006	0.009	0.013
15				<0.001	0.001	0.001	0.002	0.002	0.004

* Inside diameter of hose or pipe

Note 1: This table is for use with Propane at 3 kPa (30 mbar), 3.7 kPa (37 mbar), 5 kPa (50 mbar).

Note 2: Equivalent pipe lengths per fitting are: tee/elbow 0.6 m & straight connector/hose or pipe bend 0.3 m

Gas engineers are reminded that when sizing gas pipework, particularly when a given size is close to its theoretical pressure loss limit, to use pipe/hose manufacturer’s data, which will take account of the pipe wall thickness when specifying the correct pipe size to use.