

Technical Bulletin 148

Developed with the British Standard Institute (BSI)

Title: Amendments to BS6172: 2010 and the use of BS EN 14800 gas cooker hoses.

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This Technical Bulletin has been produced to clarify the suitability of BS EN 14800 gas cooker hoses and the future amendments to BS6172: 2010

Introduction

BS6172: 2010⁽¹⁾ requires amendment to reflect a significant change in Europe facilitating the adoption of gas cooker hoses manufactured in accordance with BS EN 14800⁽²⁾.

BS 669 Pt 1⁽³⁾ gas cooker hoses suitable for use with LPG (3RD family gases) are no longer available or in production and as a result some registered businesses are using BS EN 14800⁽²⁾ gas cooker hoses as an alternative.

The proposed revision of BS6172⁽¹⁾ to embrace gas cooker hoses manufactured in accordance to BS EN 14800⁽²⁾ is a significant change to the UK gas industry and will need to be adopted by registered businesses.

Background.

Gas hoses for domestic cooker installations in the UK are covered by BS6172⁽¹⁾. This Standard is quite specific that for natural gas installations (2nd Family Gases) registered businesses must use a flexible connection manufactured in accordance with BS669: Pt 1⁽³⁾ For LPG gas Installations the Standard states that for LPG (3rd family gases) registered businesses must use a flexible connection that is suitable for LPG.

As BS669 Pt 1⁽³⁾ does not include specification for LPG hoses and materials, the gas industry worked to a 1994 draft version of BS669 Pt 1⁽³⁾ that was intended to include LPG Hoses but was never published.

These LPG Hoses had been constructed in accordance with BS669 Pt 1⁽³⁾ but using nitrile materials suitable for LPG gases. In more recent years with increases in ozone levels in atmosphere and areas of use, the covers of these hoses were being attacked and breaking down.

Proposed Amendments

Clause 11.1.3 of BS6172⁽¹⁾ states:

“A gas hob shall be connected to the termination point by means of rigid pipework or, unless otherwise stated in the manufacturer’s instructions, a flexible connector and self-sealing plug-in device conforming to BS669-1 or rigid pipework.”

Clause 11.1.4 states:

“Connections for a free-standing cooker shall be by means of a flexible connector and self-sealing plug-in device conforming to BS669-1 or rigid pipework”

And Clause 11.2.2 states:

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“Any flexible connector shall conform to BS669-1.”

Clauses 11.1.3, 11.1.4 and 11.2.2 are to be amended to include reference to BS EN 14800⁽²⁾ and will confirm the suitability of gas cooker hoses manufactured in accordance to BS EN 14800⁽²⁾.

The proposed amendments will include additional information, which will be added into the Commentary on Clause 11.3.2 and will state:

“Flexible connectors manufactured to BS669-1 for 2nd family gases are not necessarily suitable for 3rd family gases. BS 669-1 flexible connectors for 3rd family gases are normally marked with a red stripe along their length.

"Gas cooker hoses conforming to BS EN 14800 are suitable for 2nd and 3rd family gases."

The Commentary on Clause 11.4 is also to be amended to include a third paragraph which will state:

"Gas cooker hoses conforming to BS EN 14800 shall additionally be tested to withstand a 95 °C temperature rise."

Examples of gas cooker hoses manufactured in accordance with BS EN 14800⁽²⁾



Inspection

It is expected that the amendments to BS6172⁽¹⁾ will be published within the next twelve months and Gas Safe Register will continue to inspect based on the requirements of BS6172⁽¹⁾. However, in light of the publication of this Technical Bulletin it is acceptable for registered businesses to use gas cooker hoses manufactured in accordance with BS EN 14800⁽²⁾.

Note 1: For details of current gas safety legislation, building legislation and industry standards for the geographical areas covered by Gas Safe Register, see the [Legislative, Normative & Informative Document List \(LNIDL\)^{\(4\)}](#) at: <https://www.gassaferegister.co.uk/sign-in/> - login and visit the Technical Information area.

Note 2: For general information about the process behind the development of Gas Safe Register Technical Bulletins and the expectations for all Stakeholders, see [TB 1000^{\(5\)}](#) at: <https://www.gassaferegister.co.uk/sign-in/> - login and visit the Technical Information area.

Bibliography

- (1) BS 6172: 2010 - Specification for installation, servicing and maintenance of domestic gas cooking appliances (2nd and 3rd family gases)
- (2) BS 669-1 Flexible hoses, end fittings and sockets for gas burning appliances – Specification for strip-wound metallic flexible hoses, covers, end fittings and sockets for domestic appliances burning 1st and 2nd family gases
- (3) BS EN 14800: 2007 Corrugated safety metal hose assemblies for the connection of domestic appliances using gaseous appliances
- (4) LNIDL - Gas Safe Register Legislative, Normative & Informative Document List
- (5) TB 1000 - An introduction to Gas Safe Register Technical Bulletins

Note: Gas Safe Register Technical Bulletins and the Legislative, Normative & Informative Document List can be viewed at: <https://www.gassaferegister.co.uk/sign-in/> - login and visit the Technical Information area.

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