

Specification for

Gas meter unions and adaptors

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Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Gas Standards Committee (GSE/-) to Technical Committee GSE/25, upon which the following bodies were represented:

- British Gas plc
- British Non-ferrous Metals Federation
- Chief and Assistant Chief Fire Officers' Association
- Department of Energy (Gas and Oil Measurement Branch)
- Institution of Gas Engineers
- Society of British Gas Industries

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Foreword

This British Standard has been prepared under the direction of the Gas Standards Committee and supersedes BS 746:1967, which is withdrawn.

In this revision all components have been dimensioned in metric units, but this does not affect compatibility with existing components manufactured to imperial units and already in use.

This revision includes requirements relating to the component parts of complete meter unions and adaptors but excludes reference to the tail ends of union liners which it is considered should be manufactured in accordance with other British Standards, as specified by the purchaser, to suit the particular application. Consequently, requirements for the construction of the liner and its tail end (other than the liner dimensions) are considered to be in the province of the standard used for the tail end. Rubber type material has now superseded leather and is firmly established as the material to be used for the sealing washer. The dimensions of the boss take into account the designs of meter that are currently available.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations. In particular, attention is drawn to the Gas Safety (Installation and Use) Regulations 1984 and The Building Standards (Scotland) Regulations, The Building Regulations (Northern Ireland) and The Building Regulations for England and Wales.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 10, an inside back cover and a back cover.

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1 Scope

This British Standard specifies the materials and dimensions for bosses, nuts, liners, washers and adaptors for use in gas meter unions. It also applies to nuts, liners and washers for use with meter control cocks. Liners for cone-seated type meter control cocks are not covered by this standard.

NOTE The titles of the publications referred to in this standard are listed on the inside back cover.

2 Definitions

For the purposes of this British Standard the following definitions apply.

2.1

gas meter union

a union comprising a boss and a liner assembled together by a nut, with a washer between them

2.2

liner

the metal component carrying no thread affecting the interchangeability of the union as such, commonly not attached permanently to the meter

2.3

boss

the metal component carrying the external coupling thread, commonly permanently attached to the meter

2.4

nut

the metal component containing the internal coupling thread

2.5

adaptor

a metal component for connecting a nut and liner to a meter boss of a different size

2.6

washer

the rubber type material sealing ring between the boss and the liner

3 Designation of unions

Unions and adaptors made in accordance with this British Standard shall be known as:

“British Standard unions and adaptors for gas meters (nominal sizes $\frac{1}{2}$ to 2) and meter control cocks (nominal sizes $\frac{1}{2}$ to $1\frac{1}{4}$)”.

4 Materials

4.1 Metal

Metal components shall be made from material complying with the following British Standards. Copper shall have mechanical properties at least equivalent to the minimum values of the specified properties of the quoted brasses:

- | | |
|---------------------------|--------------------|
| a) brass for hot pressing | BS 2872 CZ 122; |
| b) brass for die casting | BS 1400 DC B1; |
| c) brass rod | BS 2874 CZ 121; |
| d) copper | BS 6017; |
| e) malleable cast iron | BS 6681 W 35 – 04; |
| | BS 6681 B 30 – 06; |
| f) steel for machining | BS 970-1. |