



BSI Standards Publication

Gas welding equipment – Hose connections for equipment for welding, cutting and allied processes

National foreword

This British Standard is the UK implementation of EN 560:2018. It supersedes BS EN 560:2005, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee WEE/-/1, Briefing committee for welding.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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English Version

Gas welding equipment - Hose connections for equipment for welding, cutting and allied processes

Matériel de soudage au gaz - Raccords pour
tuyaux souples pour appareils de soudage,
coupage et techniques connexes

Gasschweißgeräte - Schlauchanschlüsse
für Geräte und Anlagen für Schweißen,
Schneiden und verwandte Prozesse

This European Standard was approved by CEN on 27 May 2018.

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European foreword

This document (EN 560:2018) has been prepared by Technical Committee CEN/TC 121 “Welding and allied processes”, the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by March 2019, and conflicting national standards shall be withdrawn at the latest by March 2019.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 560:2005.

Main changes in this new edition:

This edition differs from EN 560:2005 (which was impacted by EN 560:2005/AC:2007) as follows:

- a) Normative references have been updated;
- b) [Clause 3](#), Terms and definitions, has been added;
- c) an upper pressure limit of 2 MPa for the hose connections has been added;
- d) the design requirements for the diameter “ d_7 ” have been updated.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

1 Scope

This document lays down the dimensions and specifies the characteristics of the constituent parts of hose connections for welding, cutting and allied processes, for example for pressure regulators according to EN ISO 2503 and blowpipes. The suitability of the hose connections mentioned below will be considered according to the applied pressure range. This document does not cover the design of the hose tail inserted into the hose. This is specified in EN 1256.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 1256, *Gas welding equipment — Specification for hose assemblies for equipment for welding, cutting and allied processes*

EN ISO 228-1, *Pipe threads where pressure-tight joints are not made on the threads — Part 1: Dimensions, tolerances and designation (ISO 228-1)*

EN ISO 9539, *Gas welding equipment — Materials for equipment used in gas welding, cutting and allied processes (ISO 9539)*

3 Terms and definitions

For the purposes of this document the terms and definitions given in EN 1256 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

3.1 coupling device

part of the hose connection to connect the hose with the threaded union with a union nut

Note 1 to entry: See [Figure 1](#).

3.2 hose tail

part of the coupling device inserted into the hose

3.3 coupling device front end

front part of the coupling device containing a bull nose

3.4 bull nose

part of the coupling device to establish a seal to the cone of the threaded union

4 General

The gas pipe threads shall be in accordance with the requirements of EN ISO 228-1. All other dimensions are given in millimetres.

The joint is made with a bull nose and cone seal (see [Figure 1](#)).