



**International  
Standard**

**ISO 8207**

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

*Matériel de soudage au gaz — Spécifications relatives aux  
flexibles pour matériel de soudage, coupage et techniques  
connexes*

**Second edition  
2026-09**

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CP 401 • CH-1214 Vernier, Geneva  
Phone: +41 22 749 01 11  
Email: [copyright@iso.org](mailto:copyright@iso.org)  
Website: [www.iso.org](http://www.iso.org)

Published in Switzerland

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## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 44, *Welding and allied processes*, Subcommittee SC 8, *Equipment for gas welding, cutting and allied processes*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 121, *Welding and allied processes*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO 8207:1996), which has been technically revised.

The main changes are as follows:

- clarification in the scope that rubber hoses are according to ISO 3821 up to and including nominal size 20,0;
- addition of terms "hose assembly" and "hose clamping devices" in [Clause 3](#);
- definitions aligned with ISO 8330;
- revised [Clause 4](#) "Construction";
- [Clause 5](#) "Operational criteria" added;
- addition of nominal sizes of hoses of 12,5, 16,0 and 20,0 and corresponding axial loads in [6.4.2, Table 1](#);
- Former [Annex A](#) replaced by a new one giving examples for the design of kinking protection.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html). Official interpretations of ISO/TC 44 documents, where they exist, are available from this page: <https://committee.iso.org/sites/tc44/home/interpretation.html>.

# Gas welding equipment — Specification for hose assemblies for equipment for welding, cutting and allied processes

## 1 Scope

This document specifies the performance and test requirements of hose assemblies supplied in assembled condition using rubber hose according to ISO 3821 up to and including nominal size 20,0, for gas welding, cutting and allied processes.

This document is not applicable to high-pressure hose assemblies upstream of the pressure regulators.

## 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.

ISO 3821, *Gas welding equipment — Rubber hoses for welding, cutting and allied processes*

ISO 8330, *Rubber and plastics hoses and hose assemblies — Vocabulary*

ISO 9090, *Gas tightness of equipment for gas welding and allied processes*

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

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 8330 and the following apply.

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

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

### 3.1

#### **hose assembly**

hose with a hose fitting attached to one or both ends

Note 1 to entry: Two different configurations can be found: [Figure 1](#) hose assembly with permanent ferrule and [Figure 2](#) with permanent clamp.