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Gas welding equipment - Manual gas equipment for welding, heating and cutting - Periodic inspection

Táto norma obsahuje anglickú verziu európskej normy.

This standard includes the English version of the European Standard.

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EUROPEAN STANDARD**EN 17931****NORME EUROPÉENNE****EUROPÄISCHE NORM**

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English Version

**Gas welding equipment - Manual gas equipment for
welding, heating and cutting - Periodic inspection**

Matériel de soudage au gaz - Matériel manuel au gaz
pour le soudage, le chauffage et le coupage - Inspection
périodique

Ausrüstung zum Gasschweißen - Handbetätigte
Ausrüstung zum Schweißen, Erhitzen und Schneiden -
Regelmäßige Prüfung

This European Standard was approved by CEN on 19 January 2026.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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EN 17931:2026 (E)

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European foreword

This document (EN 17931:2026) has been prepared by Technical Committee CEN/TC 121 “Welding and allied processes”, the secretariat of which is held by AFNOR.

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of an identical text or by endorsement, at the latest by September 2026, and conflicting national standards shall be withdrawn at the latest by September 2026.

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.

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EN 17931:2026 (E)**Introduction**

Manual gas equipment for welding, cutting and allied processes is formed by various components that enable the required features, including, for example, but not limited to: gas tightness, resistance to heat and mechanical stress, adjustment of the gas flow and of the mixtures, etc.

The manufacturer provides guidelines on the type of maintenance and periodic checks to perform on the equipment. However, the rate of use and the conditions to which this equipment is subjected are extremely variable.

This document is meant to help the employer and the workers define the maintenance activities that are suitable for a safe use of the equipment, in accordance with current legislation.

1 Scope

This document specifies guidelines for periodic inspections of gas equipment for welding, cutting and allied processes placed downstream of the gas cylinder's valve as shown in Figure 1 or, in the case of centralized distribution, downstream from the tapping point, since commissioning.

NOTE In some cases, gas cylinders can be replaced by cylinder bundles. Acetylene cylinder bundle systems upstream of the tapping point are excluded.

This document applies to gas welding equipment intended for professional use which utilizes compressed gases up to 300 bar (30 MPa), acetylene, liquefied petroleum gas (LPG), methylacetylene-propadiene mixtures (MPS) and carbon dioxide (CO₂) and related mixtures.

This document does not apply to automatic applications of gas welding, cutting and allied processes.

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 560, *Gas welding equipment — Hose connections for equipment for welding, cutting and allied processes*

EN 561, *Gas welding equipment — Quick-action coupling with shut-off valves for welding, cutting and allied processes*

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

EN 1327, *Gas welding equipment — Thermoplastic hoses for welding and allied processes*

EN 13018, *Non-destructive testing — Visual testing — General principles*

EN ISO 2503, *Gas welding equipment — Pressure regulators and pressure regulators with flow-metering devices for gas cylinders used in welding, cutting and allied processes up to 300 bar (30 MPa) (ISO 2503)*

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

EN ISO 5172, *Gas welding equipment — Blowpipes for gas welding, heating and cutting - Specifications and tests (ISO 5172)*

EN ISO 5175-1, *Gas welding equipment — Safety devices — Part 1: Devices incorporating a flame (flashback) arrestor (ISO 5175-1)*

EN ISO 5175-2, *Gas welding equipment — Safety devices — Part 2: Devices not incorporating a flame (flashback) arrestor (ISO 5175-2)*

EN ISO 7291, *Gas welding equipment — Pressure regulators for manifold systems used in welding, cutting and allied processes up to 30 MPa (300 bar) (ISO 7291)*

EN ISO 9012, *Gas welding equipment — Air-aspirated hand blowpipes — Specifications and tests (ISO 9012)*

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

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