

Gas welding equipment — Integrated flowmeter regulators used on cylinders for welding, cutting and allied processes — Classification, specification and tests

The European Standard EN 13918:2003 has the status of a British Standard

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National foreword

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- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
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Classification, specification and tests

Matériel de soudage aux gaz - Détendeurs débitmètres
intégrés utilisés sur les bouteilles pour le soudage, le
coupage et les techniques connexes - Classification,
spécification et essais

Gasschweißgeräte - Druckregler mit integriertem
Durchflussmesser für Gasflaschen für Schweißen,
Schneiden und verwandte Prozesse - Einteilung,
Festlegung und Prüfungen

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Foreword

This document (EN 13918:2003) has been prepared by Technical Committee CEN/TC 121 "Welding", the secretariat of which is held by DS.

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of an identical text or by endorsement, at the latest by October 2003, and conflicting national standards shall be withdrawn at the latest by October 2003.

Annexes A and B are informative.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

Introduction

EN ISO 2503 deals with pressure regulators for gas cylinders for welding cutting and allied processes. These pressure regulators deliver an as constant as possible downstream pressure from a generally variable gas cylinder pressure and the adjusting device acts to increase or reduce the regulated downstream pressure. Gas flow is not controlled by the pressure regulator.

For some processes, e.g. arc welding with shielding gases, it is also necessary to control the gas flow. To achieve this, a pressure regulator coupled with a flowmeter is used. In this case the integrated flowmeter regulator adjusting device acts to increase or decrease the downstream flow. Annex A indicates the operating principles of integrated flowmeter regulators.

1 Scope

This European Standard specifies the requirements and type test methods of integrated flowmeter regulators for welding, cutting and allied processes.

It is applicable to integrated flowmeter regulators which may be equipped with flow control and measuring devices of gas flows on gas cylinders normally used for compressed gases up to 300 bar¹⁾ (30 MPa) and carbon dioxide (CO₂).

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text, and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

¹⁾ 300 bar relates to max. gas cylinder charging pressure at 15 °C.