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## **Gas cylinders — Cylinder valves with integrated pressure regulators — Specification and type testing**

*Bouteilles à gaz — Robinets de bouteilles avec détendeur intégré —  
Spécifications et essais de type*



Reference number  
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## Foreword

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The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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

ISO 22435 was prepared by Technical Committee ISO/TC 58, *Gas cylinders*, Subcommittee SC 2, *Cylinder fittings*.

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## Introduction

Cylinder valves with integrated pressure regulators are used to reduce the high cylinder pressure to a lower pressure suitable for use.

These functions cover a wide range of inlet and outlet pressures and flows which require specific design characteristics. It is important that the operating characteristics of these valves be specified and tested in a defined manner.

Such valves are more complicated than conventional cylinder valves yet subject to the same environmental and transportation conditions. These conditions should be borne in mind at the design and development stage.

This International Standard pays particular attention to

- suitability of materials,
- safety (mechanical strength, safe relief of excess pressure and resistance to ignition),
- gas-specificity,
- cleanliness,
- testing,
- identification, and
- information supplied.