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Gas cylinders — Valve protection caps and valve guards — Design, construction and tests

Bouteilles à gaz — Chapeaux fermés et chapeaux ouverts de protection des robinets — Conception, construction et essais



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Foreword

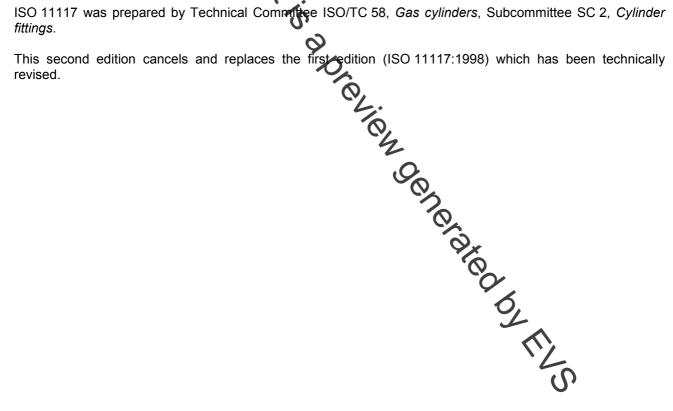
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ISO 11117 was prepared by Technical Committee ISO/TC 58, Gas cylinders, Subcommittee SC 2, Cylinder



Introduction

This International Standard covers devices intended for the protection of gas cylinder valves, where such protection is required, for example, where the valve is unable to meet the impact test requirements of the relevant valve standard to allow safe transport, handling and storage without such protection.

This International Standard specifies the principal dimensions, requirements for fitment and drop test procedure, to confirm the provision of adequate valve protection, in the event of the occurrence of a cylinder toppling from its base

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Gas cylinders — Valve protection caps and valve guards — Design, construction and tests

1 Scope

This International Standard specifies the requirements for valve protection caps and guards for gas cylinders.

This International Standard defines tests for checking the mechanical strength and physical properties of the valve protection cap or valve guard.

This International Standard applies to protection devices for valves used on cylinders for liquefied, dissolved or compressed gases. This International Standard excludes protection devices for cylinders with a water capacity of 5 l or less and cylindere whereby the protection device is fixed by means of lugs welded or brazed to the cylinder, or is welded or brazed directly to the cylinder. This International Standard does not cover valve protection for breathing apparatus cylinders.

This International Standard does not specify all the requirements that may be necessary to enable the valve protection device to be used for lifting the cylinder.

2 Normative references

The following referenced documents are indispensive for the application 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 10297, Transportable gas cylinders — Cylinder valves — Specification and type testing

ISO 14245, Gas cylinders — Specifications and testing of LPG cylinder valves — Self-closing

ISO 15995, Gas cylinders — Specifications and testing of LPG cylind walves — Manually operated

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

valve protection cap

cap

device securely fixed over the valve during handling, transportation and storage and which is removed for access to the valve

3.2

valve guard

guard

device protecting the valve during handling, transportation, storage

NOTE The guard need not be removed to provide access to the valve.