



International Standard

ISO 17871

Gas cylinders — Quick-release cylinder valves — Specification and type testing

AMENDMENT 1

*Bouteilles à gaz — Robinets de bouteilles à ouverture rapide —
Spécifications et essais de type*

AMENDEMENT 1

**Second edition
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This document was prepared by Technical Committee ISO/TC 58, *Gas cylinders*, Subcommittee SC 2, *Cylinder fittings*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 23, *Transportable gas cylinders*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

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Scope

Replace the beginning of the first paragraph with the following:

"This document is to be used in conjunction with the following standards, where applicable:

- ISO 10297 (together with ISO 14246),
- ISO 17879,
- ISO 23826.

It specifies ..."

Normative references

Add the following two references:

ISO 17879:2017, *Gas cylinders — Self-closing cylinder valves — Specification and type testing*

ISO 23826:2021, *Gas cylinders — Ball valves — Specification and testing*

4.1, first paragraph

Add the following after "ISO 10297,":

"ISO 17879 or ISO 23826, as applicable,"

4.1, last paragraph

Add the following after "ISO 10297:2014+Amd.1:2017, 5.2,":

"ISO 17879:2017, 5.2 or ISO 23826:2021, 5.2, as applicable,"

4.2.1, first paragraph

Add the following after "ISO 10297:2014+Amd.1:2017, 5.4,":

"ISO 17879:2017, 5.3 or ISO 23826:2021, 5.3, as applicable,"

4.2.2

Add the following as a new first paragraph:

Differing from the requirements given in ISO 23826:2021, 5.4.2, quick-release cylinder valves of a ball valve design shall meet the mechanical impact requirements given in ISO 10297:2014+Amd.1:2017, 5.5.2.

4.2.2, (renumbered) second paragraph

Add the following after "ISO 10297:2014+Amd.1:2017, 5.5.2,":

"or ISO 17879:2017, 5.4.2, as applicable"

4.2.3

Add the following after "ISO 10297:2014+Amd.1:2017, 5.6.3,":

"ISO 17879:2017, 5.5.3 or ISO 23826:2021, 5.5.2, as applicable,"

4.2.4

Add the following after the first sentence:

The requirements given in ISO 23826:2021, 5.6.2 are not applicable.

4.2.5

Add the following after "ISO 10297:2014+Amd.1:2017, 5.8,":

"ISO 17879:2017, 5.6 or ISO 23826:2021, 5.7, as applicable,"

4.2.6, first paragraph

Add the following after "ISO 10297:2014+Amd.1:2017, 6.2,":

"ISO 17879:2017, 6.2 or ISO 23826:2021, 5.3, as applicable,"

4.2.7

Add the following after "ISO 10297:2014+Amd.1:2017, 6.6.1,":

"ISO 17879:2017, 6.6.1 or ISO 23826:2021, 6.6.1, as applicable,"

4.2.8, first paragraph

Add the following after "ISO 10297:2014+Amd.1:2017, 6.6.2,":

"ISO 17879:2017, 6.6.2 or ISO 23826:2021, 6.6.2, as applicable,"

4.2.9

Add the following new subclause and re-number the following three subclauses accordingly:

4.2.9 Hydraulic burst pressure test

The manufacturer shall provide evidence of the ability of the valve design to withstand a pressure of p_{vbt} throughout the valve body. An example of a typical test protocol is detailed in ISO 10297.

4.2.10 Leak tightness test (re-numbered)

In the first paragraph, add the following after "ISO 10297:2014+Amd.1:2017, 6.12,":

"ISO 17879:2017, 6.10 or ISO 23826:2021, 6.12, as applicable,"

In the first indent, add the following after "ISO 10297:2014+Amd.1:2017, Table 4,":

"ISO 17879:2017, Table 3 or ISO 23826:2021, Table 4, as applicable,"

In the second indent, add the following after "ISO 10297:2014+Amd.1:2017, Table 4,":

"ISO 17879:2017, Table 3, or at a test pressure of lowest operating pressure $\pm 0,3$ bar in accordance with ISO 23826:2021, Table 4, as applicable,"

Replace the text of the third indent with the following text (also as indent):

the internal leak tightness test at -40 °C in accordance with ISO 10297:2014+Amd.1:2017, Table 3, or ISO 17879:2017, Table 2 or ISO 23826:2021, Table 3, as applicable, does not need to be carried out for quick-release cylinder valves only used for fixed fire-fighting systems installed in covered areas (e.g. buildings, windmills, ships, oil platforms) if the minimum temperature the system can be exposed to is -20 °C;

Add behind the third indent the following text as a new indent:

the internal and external leak tightness test before the endurance test in accordance with ISO 10297:2014+Amd.1:2017, Table 3, ISO 17879:2017, Table 2 or ISO 23826:2021, Table 3, as applicable, need not to be carried out for quick-release valves of type A;

Replace the last paragraph (before Example 1) with the following:

The appropriate parts of the test procedures given in ISO 10297:2014+Amd.1:2017, 6.12.2.2 and 6.12.2.3, ISO 17879:2017, 6.10.2.2 and 6.10.2.3 or ISO 23826:2021, 6.12.2.2 and 6.12.2.3, as applicable, shall be applied.

4.2.11, Endurance test (re-numbered)

In the first paragraph, add the following after "ISO 10297:2014+Amd.1:2017, 6.13,":

"ISO 17879:2017, 6.11 or ISO 23826:2021, 6.13, as applicable,"

In the second paragraph, add the following after "ISO 10297:2014+Amd.1:2017, Table 3,":

"ISO 17879:2017, Table 2 or ISO 23826:2021, Table 3, as applicable,"

In the third paragraph, add the following after "ISO 10297:2014+Amd.1:2017, 6.13,":

"ISO 17879:2017, 6.11 or ISO 23826:2021, 6.13, as applicable,"

Remove the last paragraph.

Clause 5

In the first paragraph, add the following after "ISO 10297:2014+Amd.1:2017, Clause 6,":

"ISO 17879:2017, Clause 7 or ISO 23826:2021, Clause 7, as applicable,"

Remove indent d) and the Example "TP250BAR", and renumber the subsequent indents.

In the renumbered indent g), add the following after "ISO 10297:2014+Amd.1:2017, 5.5.2,":

"or ISO 17879:2017, as applicable,"

Replace the renumbered indent i) with the following:

if the valve was not tested for internal leak tightness at $-40\text{ }^{\circ}\text{C}$, it shall be marked with the lowest temperature at which it was successfully tested for internal and external leak tightness.

A.1

Add the following after "ISO 14246":

"ISO 17879:2017, Annex D or ISO 23826:2021, 5.9, as applicable,"

A.2.2, first and second sentence

Add the following after both references to ISO 14246:

"ISO 17879:2017, Annex D or ISO 23826:2021, 5.9, as applicable,"