Updated ISO standard in Class 2

Transmitted by the International Organisation for Standardisation (ISO)

I. Introduction

1. This document introduces one new revised standard which has recently been published. The title of the standard is:
   ISO 10297:2024, Gas cylinders — Cylinder valves — Specification and type testing
   The usual arrangements have been made with the secretariat to circulate a PDF copy of this documents to the experts.

II. Proposal

2. In 4.1.6.1.8, in the paragraph below (e), revise the text in the third sentence to read as follows (new text is underlined):
   “Valves with inherent protection used for refillable pressure receptacles shall meet the requirements of clause 4.6.2 of ISO 10297:2006 or clause 5.5.2 of ISO 10297:2014 or clause 5.5.2 of ISO 10297: 2014 + Amd 1:2017 or clause 5.4.2 of ISO 10297:2024, or in the of self-closing valves, of clause 5.4.2 of ISO 17879:2017.”

3. In the table in 6.2.2.3, in the row starting ISO 10297: 2014 + Amd 1:2017 replace “Until further notice” with “Until 31 December 2028”. In the table in 6.2.2.3 add the following new row beneath the row starting ISO 10297: 2014 + Amd 1:2017 to read:

| ISO 10297:2024 | Gas cylinders — Cylinder valves — Specification and type testing | Until further notice |

III. Justification

4. This document specifies design, type testing and marking requirements for: cylinder valves intended to be fitted to refillable transportable gas cylinders; main valves (excluding ball valves) for bundles of cylinders, and; cylinder valves or main valves with integrated pressure regulator (VIPR).
   This fourth edition cancels and replaces the third edition (ISO 10297:2014), which has been technically revised. It also incorporates the Amendment ISO 10297:2014/Amd 1:2017.
The main changes to the document are as follows:

- clarification of the Scope concerning different VIPR designs;
- addition of several new terms and definitions, e.g. VIPR types A, B and C for easy referencing of different design types;
- oxygen pressure surge test:
  - for VIPRs transferred from ISO 22435 and amended,
  - for RPVs transferred from ISO 15996 and amended,
- reference for test equipment and procedure to ISO 11114-6,
- endurance test for specific VIPR designs transferred from ISO 22435 and amended;
- endurance test of the filling connection non-return valve transferred from ISO 22435 with clarification of the test procedure without changes to the acceptance criteria;
- acetylene decomposition test of VIPR designs transferred from ISO 22435 and amended;
- subclause 5.3 "Dimensions" removed;
- introduction of Table 2 for giving the different leakage rates depending on the valve design;
- Table 4 (former Table 3) of test schedule amended;
- introduction of recommendations for flow capacity values and reference to CGA V-9 for the respective determination as an example;
- introduction of a valve spindle impact test for pin-index valves not permanently protected during transport and use;
- introduction of the hydraulic pressure test also in the closed position for manually operated valves;
- introduction of an additional tightness test for pressure relief valves located upstream of the valve operating mechanism;
- Annex D "Example of test schedule" removed;
- information on changes and/or material variants within a valve design moved to new Annex F and amended.