



ISO/TC 197
Hydrogen technologies

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« Hydrogen technologies »

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Report on activities of ISO/TC 58/SC 2 “Cylinder fittings”

COMMENTARIES

To be considered during the next meeting of ISO/TC 197

1 Scope, Chairmanship, Meetings

Scope of ISO/TC 58/SC 2 “Cylinder fittings”

Developing International Standards on design and testing of cylinder valves and fittings. These standards specify the threads, the outlet connections and the valve guards and caps. The concerned valves are for industrial and medical gas cylinders, microelectronic applications, LPG gas cylinders.

Developing International Standards for test methods for toxicity, tissue corrosiveness, fire potential and oxidizing ability gases.

Chairman and Secretary

Chairman: Hervé Barthélémy (Air Liquide) until end of 2017

Chairman elect: Olivier Beuneken (Air Liquide) from 2018-01-01

Secretary: Laurie Jardel (AFNOR)

Last & next meetings

The last plenary meeting of ISO/TC 58/SC 2 took place in Copenhagen (Denmark) on September 28th/29th, 2017.

The next plenary meeting of ISO/TC 58/SC 2 will take place in Bangkok (Thailand) on October 11th/12th, 2018.

2 Structure

Working Groups

- WG 4 “Valve stem and cylinder neck threads”
- WG 6 “Gas cylinder valves – Specifications and testing”
- WG 7 “Determination of properties of gases and gas mixtures”
- WG 11 “Allocation of valve outlets”
- WG 12 “Specification and test for LPG cylinder valves”
- WG 13 “Flexible hoses”

Internal liaisons

- ISO/TC 22/SC 41 “Road vehicles – Specific aspects for gaseous fuels”
- ISO/TC 44/SC 8 “Equipment for gas welding, cutting and allied processes”
- ISO/TC 94/SC 15 “Respiratory protective devices”
- ISO/TC 121 “Anaesthetic and respiratory equipment”
- ISO/TC 197 “Hydrogen technologies”

External liaisons

- European LPG Association (AEGPL)
- European Industrial Gases Association (EIGA)
- European Cylinders Makers Association (ECMA)
- International Labour Organization (ILO)

3 Work programme

Preliminary work item:

- ISO/PWI 22435 “Gas cylinders – Cylinder valves with integrated pressure regulators – Specification and type testing”
- ISO/PWI 17871 “Gas cylinders -- Quick-release cylinder valves -- Specification and type testing”

Items under study:

- ISO/TR 7470 “Gas cylinders – Cylinder valve outlets – List of provisions which are either standardized or in use”
- ISO/AWI 11117 “Gas cylinders – Valve protection caps and valve guards – Design, construction and tests”
- ISO 14456/A1 “Gas cylinders -- Gas properties and associated classification (FTSC) codes - Amendment 1”



- ISO/DIS 14245 “Gas cylinders – Specifications and testing of LPG cylinder valves”
- ISO/DIS 15995 “Gas cylinders – Specifications and testing of LPG cylinder valves – Manually operated”
- ISO/DIS 16964 “Gas cylinders – Flexible hoses assemblies – Specification and testing”
- ISO 17871:2015/DAMd1 “Gas cylinders – Quick-release cylinder valves – Specification and type testing – Amendment 1”
- ISO/FDIS 10298 “Gas cylinders – Gases and gas mixtures – Determination of toxicity for the selection of cylinder valve outlets”

Standards under publication:

- ISO 11363-1 “Gas cylinders – 17E and 25E taper threads for connection of valves to gas cylinders – Part 1: specifications”
- ISO 11363-2 “Gas cylinders – 17E and 25E taper threads for connection of valves to gas cylinders – Part 2: Inspection gauges”
- ISO 5145 “Cylinder valve outlets for gases and gas mixtures – Selection and dimensioning”

4 Items of interest for ISO/TC 197

During the last ISO/TC 58/SC 2 plenary meeting, the SC 2 Chairman, Hervé Barthélémy reported that ISO/TC 197 is developing some standards on valves and hoses, and in particular ISO 19880-5 “Gaseous hydrogen – Fueling stations – Part 5: Hoses”. During the CD enquiry, one of the comment raised was to limit the scope of the draft standard to hoses for dispensers (and not to include the ones related to the sub-systems at the fueling stations such as flexible for trailers or bundles since they are treated in ISO 16964).

In accordance with ISO/TC 197/WG 22 convenor, Hervé Barthélémy suggested that the scope of ISO 16964 shall be clarified so that the standard clearly states that it takes into account hoses for all high pressure receptacles (cylinders, bundles, trailers) and not only cylinders. After reading the scope of ISO 16964, it appeared that there is no need for clarification of the scope as it stated that it is applicable to tubes and trailers. It was realized that the confusion came from the title itself of ISO 16964 that only contains “Gas cylinders”.

Hervé Barthélémy contacted ISO/TC 197/WG 22 convenor to clarify this point.