



ISO/TC 197  
Hydrogen technologies

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« Hydrogen technologies »

ISO/TC 197

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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: Olivier Beuneken (Air Liquide) since 2018-01-01

Secretary: Laurie Jardel (AFNOR)

### Last & next meetings

The last plenary meeting of ISO/TC 58/SC 2 took place in Bangkok (Thailand) on October 11<sup>th</sup>/12<sup>th</sup>, 2018. The next plenary meeting of ISO/TC 58/SC 2 will potentially take place in Canada on October 3<sup>rd</sup>, 2019.

## 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 21/SC 8 “Gaseous media and firefighting systems using gas”
- 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/SC 6 “Medical gas systems”
- 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 items:

- 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 14456/DAMd1 “Gas cylinders -- Gas properties and associated classification (FTSC) codes - Amendment 1”
- ISO/CD 407 “Small medical gas cylinders – Pin-index yoke-type valve connections”



- ISO/CD 11117 “Gas cylinders – Valve protection caps, guards and shrouds – Design, construction and tests”
- 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/FDIS 16964 “Gas cylinders – Flexible hoses assemblies – Specification and testing”**
- ISO 17871:2015/PRFAMD1 “Gas cylinders – Quick-release cylinder valves – Specification and type testing – Amendment 1”

#### **Standards published since last year**

- 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”
- ISO 10298 “Gas cylinders – Gases and gas mixtures – Determination of toxicity for the selection of cylinder valve outlets”

## **4 Items of interest for ISO/TC 197**

-ISO/FDIS 16964 “Gas cylinders – Flexible hoses assemblies – Specification and testing” (revision of ISO 16964:2015)

The FDIS ballot will end on November 30<sup>th</sup>, 2018.

Hervé Barthélémy contacted the ISO/TC 197/WG 22 convenor to clarify the scope of ISO 19880-5 “Gaseous hydrogen – Fueling stations – Part 5: Hoses” 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).

When treating the comments received on ISO/DIS 19880-5, it appears that the last version of the scope is clearer.

A last modification to be made to this scope would be to clearly indicate after the exclusion number 2) concerning hoses to transfill from transportable vessels into buffers: “(see ISO 16964)”.