



ISO/TC 197
Hydrogen technologies

Email of secretary: jim.ferrero@bnq.qc.ca
Secretariat: SCC (Canada)

Information on ISO TC 58 SC 2 to ISO TC 197

Document type: Other meeting document

Date of document: 2015-11-24

Expected action: INFO

Background: This is some information on ISO/TC 58/SC 2 that will be presented by Hervé Barthélémy at the Dec. Plenary meeting.

Committee URL: <http://isotc.iso.org/livelink/livelink/open/tc197>



« **Cylinder fittings** »

ISO/TC 58/SC 2

Date:

2015-11-19

Doc. Number:

Assistant:

Mrs Brigitte MORLAND

Direct line: + 33 (0)1 41 62 86 95

brigitte.morland@afnor.org

Your contact:

Mrs Laurie JARDEL

Direct line : + 33 (0)1 41 62 80 64

laurie.jar-del@afnor.org

ISO/TC 58/SC 2 Cylinder fittings

Information on ISO/TC 58/SC 2 works for the plenary meeting of ISO/TC 197 to be held on 3rd and 4th December 2015

COMMENTARIES

ISO/TC 58/SC 2 "Cylinder fittings" decided recently to establish a liaison with ISO/TC 197 "Hydrogen technologies" which prepares draft on valves and hoses:

- ISO 19880-3 "Gaseous hydrogen - Fueling stations - Part 3 : Valves";
- ISO 19880-5 "Gaseous hydrogen - Fueling stations - Part 5 : Hoses";
- ISO 19880-6 "Gaseous hydrogen - Fueling stations - Part 6 : Fittings".

Resolution 20/2015 taken by ISO/TC 58/SC 2 on 2015-10-09

Subject: Liaison with ISO/TC 197

ISO/TC 58/SC 2 decided to establish a liaison with ISO/TC 197 "Hydrogen technology" and to appoint Dr Barthélémy as liaison officer.

The resolution was taken by unanimity.

Information on ISO/TC 58/SC 2, current works and published standards are available below.

ISO/TC 58/SC 2 “Cylinder fittings”

1 Scope

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.

2 Structure and organization

ISO/TC 58/SC 2 Chairman	ISO/TC 58/SC 2 Secretariat
Mr Hervé BARTHELEMY AIR LIQUIDE 75 Quai d'Orsay 75321 Paris Cedex 7 France	Ms Laurie JARDEL AFNOR 11 rue Francis de Pressensé 93571 Saint Denis La Plaine Cedex France
Telephone : +33 1 40 62 55 01 herve.barthelemy@airliquide.com	Telephone : +33 1 41 62 80 64 laurie.jardel@fnor.org

ISO/TC 58/SC 2 Livelink: <https://ecom.afnor.org/livelink-fr/livelink.exe/Open/1141136>

3 Current committee structure

- **Working Group 4:** Valve stem and cylinder neck threads
Convenor: Hervé BARTHÉLÉMY (France)
- **Working Group 5:** Valve outlets for breathing air apparatus
Convenor: Uwe ELGERT (Germany)
- **Working Group 6:** Gas cylinder valves – Specification and testing
Convenor: Stephan ARIS (Germany)
- **Working Group 7:** Determination of properties of gases and mixtures
Convenor: Hervé BARTHÉLÉMY (France)
- **Working Group 11:** Allocations of valve outlets
Convenor: Hervé BARTHÉLÉMY (France)
- **Working group 12:** Specification and test for LPG cylinder valves
Convenor: Paul O'Connell
- **Working Group 13:** Flexible hoses
Convenor: Hervé BARTHÉLÉMY (France)

4 Participation table

4.1 P Member (25)

Australia (SA)	France (AFNOR)	Norway (SN)
Austria (ASI)	Germany (DIN)	South Africa (SABS)
Belgium (NBN)	India (BIS)	Spain (AENOR)
Brazil (ABNT)	Ireland (NSAI)	Sweden (SIS)
Canada (SCC)	Italy (UNI)	Switzerland (SNV)
China (SAC)	Japan (JISC)	Thailand (TISI)
Czech Republic (UNMZ)	Korea, Republic of (KATS)	United Kingdom (BSI)
Denmark (DS)	Luxembourg (ILNAS)	United States (ANSI)
Finland (SFS)		

4.2 O Member (14)

Chile (INN)	Malaysia (DSM)	Romania (ASRO)
Colombia (ICONTEC)	Netherlands (NEN)	Russian Federation (GOST R)
Egypt (EOS)	Pakistan (PSQCA)	Serbia (ISS)
Hungary (MSZT)	Poland (PKN)	Turkey (TSE)
Iran, Islamic Republic of (ISIRI)	Portugal (IPQ)	

5 Liaison

Necessity to maintain a liaison should be studied during each plenary meeting according to the current needs of ISO/TC 58/SC 2 and liaison officers nominated should be confirmed in their functions.

5.1 Internal Liaison (4)


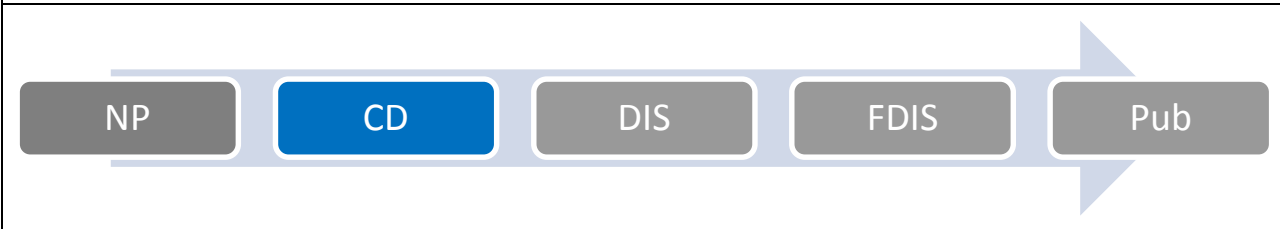

- ISO/TC 121/SC 6 Medical gas system
- ISO/TC 44/SC 8 Equipment for gas welding, cutting and allied processes
- ISO/TC 94/SC 15 Respiratory protective devices
- ISO/TC 22/SC 41 Road Vehicles – Specific aspects for gaseous fuels
- ISO/TC 197 Hydrogen technologies

5.2 Organization in liaison with ISO/TC 58/SC 2 (4)

- AEGPL – European LPG Association Cat A
- ECMA – European Cylinder Makers Association Cat A
- EIGA – European Industrial Gases Association Cat A
- ILO – International Labour Organization Cat A

6 Activities of ISO/TC 58/SC 2 in November 2015

6.1 Work item under study


<ul style="list-style-type: none"> ▪ ISO/WD 14245 Gas cylinders – Specifications and testing of LPG cylinder valves – Self closing → WG 12 ▪ ISO/WD 15995 Gas cylinders Specifications and testing of LPG cylinder valves – Manually operated → WG 12 ▪ ISO/WD 11117 Gas cylinders -- Valve protection caps and valve guards -- Design, construction and tests → WG 6 ▪ ISO/WD 10298 Gas cylinders -- Gases and gas mixtures -- Determination of toxicity for the selection of cylinder valve outlets → WG 7 ▪ ISO/TR 7470 Gas cylinders – Cylinder valve outlets – List of provisions which are either standardized or in use → WG 11

<ul style="list-style-type: none"> ▪ ISO/CD 17879 Gas cylinders – Self-closing cylinder valves -- Specification and type testing → WG 6 ▪ ISO/CD 10156 Gas cylinders - Gases and gas mixtures – Determination of fire potential and oxidizing ability for the selection of cylinder valve outlets → WG 7 ▪ ISO/CD 13338 Gas cylinders – Gases and gas mixtures - Determination of tissue corrosiveness of a gas or a gas mixture → WG 7

<ul style="list-style-type: none"> ▪ ISO 12209:2013/Damd 1 Gas cylinders – Outlet connections for gas cylinders valves for compressed breathable air → WG 5 ▪ ISO 14246 :2014/DAmD1 Gas cylinders -- Cylinder valves -- Manufacturing tests and examinations → WG 6 ▪ ISO 10297:2014/Damd 1 Gas cylinders -- Cylinder valves -- Specification and type testing → WG 6

- ISO/DIS 5145 Cylinder valve outlets for gases and gas mixtures -- Selection and dimensioning → WG 11
- ISO/DIS 15996 Gas cylinders -- Residual pressure valves -- General requirements and type testing → WG 6
- ISO/DIS 11363 (all parts) Gas cylinders -- 17E and 25E taper threads for connection of valves to gas cylinders → WG 4

6.2 Preliminary work item

Reference	Document title	Comments
ISO/PWI 407	Small medical gas cylinders -- Pin-index yoke-type valve connections	WG 11

6.3 Published standards

Reference	Document title
ISO 10692-1:2001	Gas cylinders -- Gas cylinder valve connections for use in the micro-electronics industry -- Part 1: Outlet connections
ISO 10692-2:2001	Gas cylinders -- Gas cylinder valve connections for use in the micro-electronics industry -- Part 2: Specification and type testing for valve to cylinder connections
ISO 15245-2:2001	Gas cylinders -- Parallel threads for connection of valves to gas cylinders -- Part 2: Gauge inspection
ISO 16964:2015	Gas cylinders -- Flexible hoses assemblies -- Specification and testing
ISO/TR 7470:1988	Valve outlets for gas cylinders -- List of provisions which are either standardized or in use
ISO 14246:2014	Gas cylinders -- Cylinder valves -- Manufacturing tests and examinations
ISO 14245:2006	Gas cylinders -- Specifications and testing of LPG cylinder valves -- Self-closing
ISO 17871:2015	Gas cylinders -- Quick-release cylinder valves -- Specification and type testing
ISO 11363-1:2010/Cor 2:2012	Gas cylinders -- 17E and 25E taper threads for connection of valves to gas cylinders -- Part 1: Specifications -- Technical Corrigendum 2
ISO 22435:2007	Gas cylinders -- Cylinder valves with integrated pressure regulators -- Specification and type testing
ISO 10297:2014	Gas cylinders -- Cylinder valves -- Specification and type testing
ISO 12209:2013	Gas cylinders -- Outlet connections for gas cylinder valves for compressed breathable air
ISO 15996:2005/Amd 1:2007	Gas cylinders -- Residual pressure valves -- General requirements and type testing -- Amendment 1
ISO 10156:2010/Cor 1:2010	Gases and gas mixtures -- Determination of fire potential and oxidizing ability for the selection of cylinder valve outlets -- Technical Corrigendum 1
ISO 11117:2008/Cor 1:2009	Gas cylinders -- Valve protection caps and valve guards -- Design, construction and tests -- Technical Corrigendum 1
ISO 11117:2008	Gas cylinders -- Valve protection caps and valve guards -- Design, construction and tests
ISO 10156:2010	Gases and gas mixtures -- Determination of fire potential and oxidizing ability for the selection of cylinder valve outlets
ISO 22434:2006	Transportable gas cylinders -- Inspection and maintenance of cylinder valves
ISO 11363-1:2010	Gas cylinders -- 17E and 25E taper threads for connection of valves to gas cylinders -- Part 1: Specifications
ISO 407:2004	Small medical gas cylinders -- Pin-index yoke-type valve connections

Reference	Document title
ISO 13338:1995	Determination of tissue corrosiveness of a gas or gas mixture
ISO 15245-1:2001	Gas cylinders -- Parallel threads for connection of valves to gas cylinders -- Part 1: Specification
ISO 22435:2007/Amd 1:2012	Gas cylinders -- Cylinder valves with integrated pressure regulators -- Specification and type testing -- Amendment 1
ISO 15245-1:2001/Amd 1:2013	Gas cylinders -- Parallel threads for connection of valves to gas cylinders -- Part 1: Specification -- Amendment 1
ISO 10298:2010	Determination of toxicity of a gas or gas mixture
ISO 15996:2005	Gas cylinders -- Residual pressure valves -- General requirements and type testing
ISO 14456:2015	Gas cylinders -- Gas properties and associated classification (FTSC) codes
ISO 11363-2:2010	Gas cylinders -- 17E and 25E taper threads for connection of valves to gas cylinders -- Part 2: Inspection gauges
ISO 5145:2014	Cylinder valve outlets for gases and gas mixtures -- Selection and dimensioning
ISO 15995:2006	Gas cylinders -- Specifications and testing of LPG cylinder valves -- Manually operated