



ISO/TC 197
Hydrogen technologies

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Liaison Report from ISO TC58 for ISO-TC197 - 20191209

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Secretariat of ISO/TC 58 Gas cylinders

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Dear Sir

RE: ISO/TC 58 – Liaison Report

Attached is a Liaison Report highlighting recent activities within ISO/TC 58.

Yours sincerely

P. Lake
Committee Manager, ISO/TC 58
On behalf of BSI

ISO/TC 58 – LIAISON REPORT

ISO/TC 58 – Gas cylinders

Organisation

Chairman:
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ISO/TC 58 has been active since 1947.

Scope

Standardization of gas cylinders and other pressure receptacles, their fittings and requirements relating to their manufacture and use.

Excluded: Cryogenic vessels (ISO/TC 220) and aerosol containers.

NOTE: Pressure receptacles, cryogenic receptacles and aerosols are defined in the international regulations for the transport of dangerous goods by sea, air, road and rail and in the United Nations Recommendations on the Transport of Dangerous Goods, Model Regulations (ST/SG/AC.10/1 as amended from time to time).

Standards

ISO/TC 58 and its Sub-Committees currently have 109 published standards with 21 under development.

Of these, ISO/TC 58 has 10 standards for which it is directly responsible.

ISO/TC 58 Working Groups

WG 7 Compatibility between gases and materials

WG 10 Fitting of valves to gas cylinders

NOTE: WG 12, *Cartridges for flammable liquefied gas*, has been disbanded. The development of standard ISO 21985, *Non-refillable metallic gas cylinders for use with portable butane gas cookers -- Construction, inspection, testing and marking*, has been transferred to ISO/TC52.

ISO/TC 58 Sub-Committee 2 - Cylinder fittings

Chairman M. O Beuneken (France)
Secretary Mme. L Jardel (AFNOR - France)

ISO/TC 58/SC 2 currently has 32 published standards with 5 under development.

Working Groups (7)

- WG 4 Valve stem and cylinder neck threads.
- WG 6 Gas cylinder valves – Specification and testing.
- WG 7 Determination of properties of gases and gas mixtures.
- WG 11 Allocation of valve outlets.
- WG 12 Specifications and test for LPG cylinder valves.
- WG 13 Flexible hoses.
- WG 14 Inspection and maintenance of cylinder valves

ISO/TC 58 Sub-Committee 3 - Cylinder design

Chairman Mr S Davies (UK)
Secretary Mr S Read (BSI - UK)

ISO/TC 58/SC 3 currently has 38 published standards with 7 under development.

Working Groups (12)

- WG 17 Compressed natural gas cylinders for road vehicles.
- WG 23 Welded steel pressure drums.
- WG 24 Factors of safety for composite cylinders.
- WG 26 Refillable seamless steel gas cylinders (except stainless steel).
- WG 27 Composite cylinders.
- WG 28 Seamless steel tubes.
- WG 29 Revision of ISO 11118: 1999.

- WG 32 Refillable composite reinforced tubes of water capacity between 150 l and 3 000 l: Design, construction and testing.
- WG 33 Refillable seamless stainless steel gas cylinders.
- WG 35 Permanently mounted composite tubes.
- WG 36 Service testing for cylinders and tubes.
- WG 37 Refillable welded steel cylinders.

ISO/TC 58 Sub-Committee 4 - Operational requirements for gas cylinders

Chairman Mr R Craig (USA)
Secretary Ms J Thompson (ANSI - USA)

ISO/TC 58/SC 4 currently has 29 published standards with 5 under development.

Working Groups (8)

- WG 6 Cylinder identification.
- WG 8 Gas cylinder bundles.
- WG 10 Inspection and testing of composite cylinders.
- WG 15 MAE examination for composite cylinders.
- WG 16 Inspection and testing of welded steel and aluminium-alloy cylinders.
- WG 17 Pressure drums.
- WG 18 Acoustic emission for composite cylinders.
- WG 19 Inspection of tubes and frames

Liaison with ISO/TC 58

ISO committees in liaison (16):

- TC 11 Boilers and pressure vessels (on stand-by)
- TC 21 Equipment for fire protection and fire fighting
- TC 21 / SC 8 Gaseous media and firefighting systems using gas
- TC 22 Road vehicles
- TC 22 / SC 41 Specific aspects for gaseous fuels
- TC 44 Welding and allied processes
- TC 44 / SC 9 Health and safety
- TC 52 Light gauge metal containers
- TC 94 / SC 15 Respiratory protective devices
- TC 121 Anaesthetic and respiratory equipment
- TC 121 / SC 6 Medical gas supply systems
- TC 135 Non-destructive testing

TC 156	Corrosion of metals and alloys
TC 193	Natural gas
TC 197	Hydrogen technologies
TC 291	Domestic gas cooking appliances

Organizations in liaison (10):

EC	European Commission
ECMA	European Cylinder Makers Association
EIGA	European Industrial Gases Association
IMO	International Maritime Organization
Liquid Gas Europe	The European LPG Association
MEGA	Middle East Gases Association
NGV Global	Natural Gas Vehicle Knowledge Base
OTIF	Intergovernmental Organization for International Carriage by Rail
UNECE	United Nations Economic Commission for Europe
UNSCETDG	UN/ECOSOC Sub-Committee of Experts on the transport of Dangerous Goods (TDG)

ISO/TC 58 Member Bodies

Participation Table

P	O	Member Body
	x	Afghanistan (ANSA)
	x	Argentina (IRAM)
	x	Armenia (SARM)
x		Australia (SA)
x		Austria (ASI)
x		Belgium (NBN)
	x	Bosnia and Herzegovina (BAS)
	x	Burundi (BBN)
x		Brazil (ABNT)
	x	Cameroon (ANOR)
x		Canada (SCC)
	x	Chile (INN)
x		China (SAC)
	x	Colombia (ICONTEC)
	x	Croatia (HZN)
	x	Cuba (NC)
x		Czech Republic (UNMZ)
x		Denmark (DS)
	x	Egypt (EOS)
x		Finland (SFS)
x		France (AFNOR)
x		Germany (DIN)
	x	Greece (NQIS ELOT)
	x	Hong Kong (ITCHKSAR)
	x	Hungary (MSZT)
x		India (BIS)
	x	Indonesia (BSN)

P	O	Member Body
	x	Luxembourg (ILNAS)
x		Malaysia (DSM)
	x	Moldova, Rep. of (INSM)
	x	Mongolia (MASM)
	x	Montenegro (ISME)
	x	Morocco (IMAN OR)
x		Netherlands (NEN)
x		Norway (SN)
	x	Oman (DGSM)
	x	Pakistan (PSQCA)
	x	Palestine, State of (PSI)
	x	Panama (COPANIT)
	x	Philippines (BPS)
	x	Poland (PKN)
x		Portugal (IPQ)
	x	Romania (ASRO)
	x	Russian Federation (GOST R)
	x	Saudi Arabia (SASO)
	x	Serbia (ISS)
	x	Singapore (SPRING SG)
	x	Slovakia (SOSMT)
x		South Africa (SABS)
x		Spain (AENOR)
x		Sri Lanka (SLSI)
x		Sweden (SIS)
	x	Switzerland (SNV)
	x	Tanzania, United Rep. of (TBS)

x		Iran, Islamic Republic of (ISIRI)
	x	Iraq (COSQC)
	x	Ireland (NSAI)
x		Italy (UNI)
	x	Jamaica (BSJ)
x		Japan (JISC)
x		Kenya (KEBS)
x		Korea, Republic of (KATS)
x		Latvia (LVS)
	x	Lithuania (LST)

	x	Thailand (TISI)
	x	Trinidad and Tobago (TTBS)
	x	Tunisia (INNORPI)
	x	Turkey (TSE)
x		Uganda (UNBS)
	x	Ukraine (DSTU)
x		United Kingdom (BSI)
x		USA (ANSI)
	x	Vietnam (STAMEQ)

Participating Countries (P)	29
Observing Countries (O)	44
Total	73

ISO/TC 58 – Meeting Diary

Committee	Past Meetings	Future Meetings
ISO/TC 58	04/10/2019	WC 15/02/2021 - Germany
ISO/TC 58/SC 2	03/10//2019	08/10/2020 - Germany
ISO/TC 58/SC 3	23/10/2019	WC 19/10/2020
ISO/TC 58/SC 4	14/02/2019	13/02/2020 - USA

ISO/TC 58 – Recent activity

Standard	Title	Activity
ISO 7470	Gas cylinders -- Cylinder valve outlets -- List of provisions which are either standardized or in use	Revision: NP Stage.
ISO 9809-1	Gas cylinders -- Design, construction and testing of refillable seamless steel gas cylinders and tubes -- Part 1: Quenched and tempered steel cylinders and tubes with tensile strength less than 1 100 MPa	Published 2019
ISO 9809-2	Gas cylinders -- Design, construction and testing of refillable seamless steel gas cylinders and tubes -- Part 2: Quenched and tempered steel cylinders and tubes with tensile strength greater than or equal to 1 100 MPa	Published 2019

ISO 9809-3	Gas cylinders -- Design, construction and testing of refillable seamless steel gas cylinders and tubes -- Part 3: Normalized steel cylinders and tubes	Published 2019
ISO 9809-4	Gas cylinders -- Design, construction and testing of refillable seamless steel gas cylinders and tubes -- Part 4: Stainless steel cylinders with an Rm value of less than 1100 MPa	Revision: AWI Stage
ISO 10462	Gas cylinders — Acetylene cylinders — Periodic inspection and maintenance	Amdt 1 Published 2019
ISO 10961	Gas cylinders -- Cylinder bundles -- Design, manufacture, testing and inspection	Published 2019
ISO 11114-1	Transportable gas cylinders -- Compatibility of cylinder and valve materials with gas contents -- Part 1: Metallic materials.	Revision: DIS Stage Preparation for FDIS
ISO 11114-2	Transportable gas cylinders -- Compatibility of cylinder and valve materials with gas contents -- Part 2: Non-metallic materials.	Revision: AWI Stage
ISO 11114-5	Transportable gas cylinders -- Compatibility of cylinder and valve materials with gas contents -- Part 5: Test methods for selecting plastic liners	New standard: AWI Stage
ISO 11117	Gas cylinders -- Valve protection caps and valve guards -- Design, construction and tests	Published 2019
ISO 11118	Gas cylinders — Non-refillable metallic gas cylinders — Specification and test methods	Amdt 1 Published 2019
ISO 11119-1	Gas cylinders -- Refillable composite gas cylinders and tubes -- Design, construction and testing -- Part 1: Hoop wrapped fibre reinforced composite gas cylinders and tubes up to 450 l	Revision: DIS Stage
ISO 11119-2	Gas cylinders -- Refillable composite gas cylinders and tubes -- Design, construction and testing -- Part 2: Fully wrapped fibre reinforced composite gas cylinders and tubes up to 450 l with load-sharing metal liners	Revision: DIS Stage
ISO 11119-3	Gas cylinders -- Refillable composite gas cylinders and tubes -- Design, construction and testing -- Part 3: Fully wrapped fibre reinforced composite gas cylinders and tubes up to 450L with non-load-sharing metallic or non-metallic liners	Revision: DIS Stage

ISO/TR 11364	Gas cylinders -- Compilation of national and international valve stem/gas cylinder neck threads and their identification and marking system	Published 2019
ISO 11439	Gas cylinders -- High pressure cylinders for the on-board storage of natural gas as a fuel for automotive vehicles	Amdt 1 CD Stage
ISO 11513	Gas cylinders -- Refillable welded steel cylinders containing materials for sub-atmospheric gas packaging (excluding acetylene) -- Design, construction, testing, use and periodic inspection	Published 2019
ISO 11515	Gas cylinders -- Refillable composite reinforced tubes of water capacity between 450 L and 3000 L -- Design, construction and testing	Amdt 1: Published 2018 Revision: AWI Stage
ISO 11623	Gas cylinders -- Composite construction -- Periodic inspection and testing	Revision: CD Stage
ISO/TR 13086-4	Gas cylinders -- Guidance for design of composite cylinders -- Part 4: Cyclic fatigue of fibers and liners	Published 2019
ISO 14245	Gas cylinders -- Specifications and testing of LPG cylinder valves -- Self-closing	Published 2019
ISO 14456	Gas cylinders. Gas properties and associated classification (FTSC) codes	Amdt 1 Published 2019
ISO 15995	Gas cylinders -- Specifications and testing of LPG cylinder valves -- Manually operated	Published 2019
ISO 16148	Gas cylinders – Refillable seamless steel gas cylinders and tubes – Acoustic emission examination (AT) and follow-up ultrasonic (UT) examination for periodic inspection and testing.	Amdt 1 DIS Stage
ISO 16964	Gas cylinders -- Flexible hoses assemblies -- Specification and testing	Published 2019
ISO/TS 17519	Gas cylinders -- Refillable permanently mounted composite tubes for transportation	Published 2019
ISO 17871	Gas cylinders -- Quick-release cylinder valves -- Specification and type testing	Revision: DIS Stage
ISO/TS 19016	Gas cylinders -- Cylinders and tubes of composite construction -- Modal acoustic emission (MAE) testing for periodic inspection and testing	Published 2019

ISO 21985	Non-refillable metallic gas cylinders for use with portable butane gas cookers -- Construction, inspection, testing and marking.	New project. Under development Transferred to ISO/TC52
ISO 23088	Gas cylinders -- Periodic inspection and testing of welded steel pressure drums -- Capacities up to 1 000 l.	Revision: FDIS Stage
ISO 23802	Gas cylinders -- Composite tubes permanently mounted in a frame -- Periodic inspection and testing.	New standard: AWI Stage
ISO 23826	Gas cylinders -- Ball valves -- Specification and type testing.	New standard. CD Stage
ISO 23876	Gas cylinders -- Cylinders and tubes of composite construction -- Acoustic emission (AE) testing for periodic inspection and testing.	New standard. CD Stage

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ISO/TC 58