



ISO/TC 197  
Hydrogen technologies

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## BRITISH COMPRESSED GASES ASSOCIATION

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**Document: ISO/TC 58**

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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  
Secretary to ISO/TC 58  
Committee Secretary on behalf of BSI

## ISO/TC 58 – LIAISON REPORT

### ISO/TC58 – Gas cylinders

#### Organisation

Chairman:  
Dr W Hepples (UK)  
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Secretary:  
Mr P Lake (BSI - UK)  
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ISO/TC 58 has been active since 1947.

#### Scope

Standardization of gas cylinders, their fittings and characteristics relating to their manufacture and use.

#### Standards

ISO/TC 58 and its Sub-Committees currently have 102 published standards with 29 under development.

Of these, ISO/TC 58 has 11 standards for which it is directly responsible.

#### ISO/TC58 Working Groups

WG 7	Compatibility between gases and materials
WG 10	Fitting of valves to gas cylinders
WG12	Cartridges for flammable liquefied gas

#### ISO/TC 58 Sub-Committee 2 - Cylinder fittings

Chairman Dr H Barthélémy (France)  
Secretary Mme L Jardel (AFNOR - France)

ISO/TC58/SC2 currently has 32 published standards with 9 under development.

Working Groups (6)

- 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.

**ISO/TC 58 Sub-Committee 3 - Cylinder design**

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

ISO/TC58/SC3 currently has 31 published standards with 11 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/TC58/SC4 currently has 28 published standards with 7 under development.

### Working Groups (7)

- WG 6 Cylinder identification.
- WG 8 Gas cylinder bundles
- WG 11 Periodic inspection and testing of seamless steel and seamless aluminium-alloy gas cylinders.
- WG 14 Safe use of cylinders designed to national regulations.
- WG 15 MAE examination for composite cylinders.
- WG 16 Inspection and testing of welded steel and aluminium-alloy cylinders.
- WG 17 Pressure drums.

### **Liaison with ISO/TC 58**

ISO committees in liaison (11):

TC11	Boilers and pressure vessels
TC 20	Aircraft and space vehicles
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 121	Anaesthetic and respiratory equipment
TC 135	Non-destructive testing
TC156	Corrosion of metals and alloys
TC 197	Hydrogen technologies
TC 291	Domestic gas cooking appliances

Organizations in liaison (11):

AEGPL	European LPG Association
EC	European Commission
ECMA	European Cylinder Makers Association
EIGA	European Industrial Gases Association
ILO	International Labour Organization
IMO	International Maritime Organization
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	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, China (ITCHKSAR)
	x	Hungary (MSZT)
x		India (BIS)
	x	Indonesia (BSN)
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)

P	O	Member Body
	x	Lithuania (LST)
	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	Thailand (TISI)
	x	Trinidad and Tobago (TTBS)
	x	Tunisia (INNORPI)
	x	Turkey (TSE)
	x	Ukraine (DSTU)
x		United Kingdom (BSI)
x		USA (ANSI)
	x	Vietnam (STAMEQ)

Participating Countries (P) 27  
 Observing Countries (O) 44  
**Total 71**

**ISO/TC 58 – Meeting Diary**

<b>Committee</b>	<b>Past Meetings</b>	<b>Future Meetings</b>
ISO/TC 58	21/10/2016	16/02/2018 - Sweden
ISO/TC 58/SC 2	28-29/09/2017	11-12/10/2018 - Thailand
ISO/TC 58/SC 3	25-26/10/2017	WC 22/10/2018 - France
ISO/TC 58/SC 4	09/02/2017	15/02/2018 – Sweden WC 11/02/2019 - USA

**ISO/TC 58 – Recent activity**

<b>Standard</b>	<b>Title</b>	<b>Activity</b>
ISO 5145	Gas cylinders -- Cylinder valve outlets for gases and gas mixtures -- Selection and dimensioning	Published 2017
ISO/NP 7470	Gas cylinders -- Cylinder valve outlets -- List of provisions which are either standardized or in use	Under development
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	Under development
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	Under development
ISO 9809-3	Gas cylinders -- Design, construction and testing of refillable seamless steel gas cylinders and tubes -- Part 3: Normalized steel cylinders and tubes	Under development
ISO 10156	Gas cylinders -- Gases and gas mixtures -- Determination of fire potential and oxidizing ability for the selection of cylinder valve outlets	Published 2017
ISO 10297	Gas cylinders. Cylinder valves. Specification and type testing	Amdt. 1 published 2017.
ISO 10298	Gas cylinders -- Gases and gas mixtures -- Determination of toxicity for the selection of cylinder valve outlets	Under development

ISO 10460	Gas cylinders -- Welded aluminium-alloy, carbon and stainless steel gas cylinders -- Periodic inspection and testing	Under development
ISO/AWI 10961	Gas cylinders -- Cylinder bundles -- Design, manufacture, testing and inspection	Under development
ISO 11114-1	Transportable gas cylinders -- Compatibility of cylinder and valve materials with gas contents -- Part 1: Metallic materials.	Amdt. 1 published 2017. Under 5 year review
ISO 11114-4	Transportable gas cylinders -- Compatibility of cylinder and valve materials with gas contents -- Part 4: Test methods for selecting metallic materials resistant to hydrogen embrittlement.	Published 2017
ISO 11117	Gas cylinders -- Valve protection caps and valve guards -- Design, construction and tests	Under development
ISO 11118	Gas cylinders — Non-refillable metallic gas cylinders — Specification and test methods	Amdt 1 Under development
ISO 11363-1	Gas cylinders -- 17E and 25E taper threads for connection of valves to gas cylinders -- Part 1: Specifications	Under development
ISO 11363-2	Gas cylinders -- 17E and 25E taper threads for connection of valves to gas cylinders -- Part 2: Inspection gauges	Published 2017
ISO/TR 11364	Gas cylinders -- Compilation of national and international valve stem/gas cylinder neck threads and their identification and marking system	Under development
ISO 11513	Gas cylinders -- Refillable welded steel cylinders containing materials for sub-atmospheric gas packaging (excluding acetylene) -- Design, construction, testing, use and periodic inspection	Under development
ISO 11515	Gas cylinders -- Refillable composite reinforced tubes of water capacity between 450 L and 3000 L -- Design, construction and testing	Amdt 1 Under development
ISO/DTR 13086-2	Gas cylinders -- Guidance for design of composite cylinders -- Part 2: Bonfire test issues	Under development
ISO/TR 13086-3	Gas cylinders -- Guidance for design of composite cylinders -- Part 3: Calculation of stress ratios	Under development
ISO/TR 13086-4	Gas cylinders -- Guidance for design of composite cylinders -- Part 4: Cyclic fatigue of fibers and liners	Under development



ISO 13338	Gas cylinders -- Gases and gas mixtures -- Determination of tissue corrosiveness for the selection of cylinder valve outlets	Published 2017
ISO 13769	Gas cylinders -- Stamp marking	Under development
ISO 14245	Gas cylinders -- Specifications and testing of LPG cylinder valves -- Self-closing	Under development
ISO 14246	Gas cylinders -- Cylinder valves -- Manufacturing tests and examinations	Amdt 1 Published 2017
ISO 14456	Gas cylinders. Gas properties and associated classification (FTSC) codes	Amdt 1 Under development
ISO/TS 15453	Gas cylinders -- Seamless steel and aluminium-alloy gas cylinders -- Evaluation of existing gas cylinders and consideration of their safe use in other jurisdictions	Published 2017
ISO 15995	Gas cylinders -- Specifications and testing of LPG cylinder valves -- Manually operated	Under development
ISO 15996	Gas cylinders -- Residual pressure valves -- Specification and type testing of cylinder valves incorporating residual pressure devices	Published 2017
ISO 16964	Gas cylinders -- Flexible hoses assemblies -- Specification and testing	Under development
ISO 17519-2	Gas cylinders -- Refillable permanently mounted composite tubes for transportation	Under development
ISO 17871	Gas cylinders -- Quick-release cylinder valves -- Specification and type testing	Amdt 1 Under development
ISO 17879	Gas cylinders -- Self-closing cylinder valves -- Specification and type testing	Published 2017
ISO 18119-2	Gas cylinders -- Seamless steel and seamless aluminium-alloy gas cylinders and tubes -- Periodic inspection and testing	Under development
ISO 19016-2	Gas cylinders -- Cylinders and tubes of composite construction -- Modal acoustic emission (MAE) testing for periodic inspection and testing	Under development
ISO/TR 19811	Gas cylinders -- Service life testing for cylinders and tubes of composite construction	Published 2017
ISO 20475	Gas cylinders -- Cylinder bundles -- Periodic inspection and testing	Under development

ISO 21172-1	Gas cylinders -- Welded steel pressure drums up to 3 000 litres capacity for the transport of gases -- Design and construction -- Part 1: Capacities up to 1 000 litres	Amdt 1 Under development
ISO 21985	Non-refillable metallic gas cylinders for use with portable butane gas cookers -- Construction, inspection, testing and marking.	New project. Under development
ISO 23088	Gas cylinders -- Periodic inspection and testing of welded steel pressure drums -- Capacities up to 1 000 l	New project. Under development

P. Lake  
Secretary  
ISO/TC58