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## EN-painelaitestandardien tilannekatsaus

Teknisten komiteoiden CEN/TC 54, 74, 267, 268, 269 ja 342 julkaisut ja työkohteet.

Keltaisella on merkitty viime tilannekatsaukseen (29.10.2018) nähden muuttuneet tiedot. FI tarkoittaa, että julkaisusta on suomenkielinen käännös.

Lisätietoja: [www.metsta.fi](http://www.metsta.fi)  
 Ville Saloranta, etunimi.sukunimi@metsta.fi

### CEN/TC 54 Unfired pressure vessels

#### Julkaisut:

FI	Tunnus	Otsikko
	CEN/TR 13445-101:2015	Unfired pressure vessels - Example of application
	CEN/TR 13445-102:2015	Unfired pressure vessels - Part 102: Example of application of vertical vessel with bracket supports
	CEN/TR 13445-9:2011	Unfired pressure vessels - Part 9: Conformance of the EN 13445 series to ISO 16528
	CEN/TR 764-6:2012	Pressure equipment - Part 6: Structure and content of operating instructions
	<b>CEN/TS 13445-501:2018</b>	<b>Unfired pressure vessels - Acoustic emission for pressure vessels</b>
FI	CR 13445-7:2002	Unfired pressure vessels - Part 7: Guidance on the use of the conformity procedures
	EN 13445-1:2014	Unfired pressure vessels - Part 1: General (issue 5)
	EN 13445-1:2014/A1:2014	Unfired pressure vessels - Part 1: General (liite X)
	EN 13445-1:2014/A2:2018	Unfired pressure vessels - Part 1: General (kohta 6 design, riskiarviointi, liitteet A, B, X ja ZA)
FI	EN 13445-2:2014	Unfired pressure vessels - Part 2: Materials (issue 5)
FI	EN 13445-2:2014/A1:2016	Unfired pressure vessels - Part 2: Materials (austeniittisten rosterien alimmat lämpötilat)
FI	EN 13445-2:2014/A2:2018	Unfired pressure vessels - Part 2: Materials (scope, 2, 4.2.1.2, 4.3.3, B.2.3.1, E.2)
FI	EN 13445-2:2014/A3:2018	Unfired pressure vessels - Part 2: Materials (bolts and nuts, liite F)
	EN 13445-3:2014	Unfired pressure vessels - Part 3: Design (issue 5)
	EN 13445-3:2014/A1:2015	Unfired pressure vessels - Part 3: Design (C.8 Creep assessment criteria)
	EN 13445-3:2014/A2:2016	Unfired pressure vessels - Part 3: Design (liite M, väsyminen tai viruminen)
	EN 13445-3:2014/A3:2017	Unfired pressure vessels - Part 3: Design (15, rectangular section)
	EN 13445-3:2014/A4:2018	Unfired pressure vessels - Part 3: Design (9.7.2.4 Kaaripäädyn ja elliptisen päädyn aukot)
	<b>EN 13445-3:2014/A5:2018</b>	<b>Unfired pressure vessels - Part 3: Design (17 ja 18, väsyminen)</b>
	<b>EN 13445-3:2014/A6:2019</b>	<b>Unfired pressure vessels - Part 3: Design (liite J, heat exchanger tubesheets)</b>
	<b>EN 13445-3:2014/A7:2019</b>	<b>Unfired pressure vessels - Part 3: Design (creep of weldments)</b>

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	EN 13445-3:2014/A8:2019	Unfired pressure vessels - Part 3: Design (16 non-pressure loads, 22 helman staattinen analyysi, liite W)
FI	EN 13445-4:2014 EN 13445-4:2014/A1:2016	Unfired pressure vessels - Part 4: Fabrication (issue 5) Unfired pressure vessels - Part 4: Fabrication (7.4 hitsaajien pätevöinti)
FI	EN 13445-5:2014 EN 13445-5:2014/A1:2018	Unfired pressure vessels - Part 5: Inspection and testing (issue 5) Unfired pressure vessels - Part 5: Inspection and testing testing (testing groups and governing joints)
	EN 13445-6:2014 EN 13445-6:2014/A1:2015	Unfired pressure vessels - Part 6: Requirements for the design and fabrication of pressure vessels and pressure parts constructed from spheroidal graphite cast iron (issue 5) Unfired pressure vessels - Part 6: Requirements for the design and fabrication of pressure vessels and pressure parts constructed from spheroidal graphite cast iron
	EN 13445-6:2014/A1:2018	Unfired pressure vessels - Part 6: Requirements for the design and fabrication of pressure vessels and pressure parts constructed from spheroidal graphite cast iron
	EN 13445-8:2014	Unfired pressure vessels - Part 8: Additional requirements for pressure vessels of aluminium and aluminium alloys (issue 5)
	EN 13445-8:2014/A1:2014	Unfired pressure vessels - Part 8: Additional requirements for pressure vessels of aluminium and aluminium alloys
	EN 13445-10:2015	Unfired pressure vessels - Part 10: Additional requirements for pressure vessels of nickel and nickel alloys (issue 5)
	EN 13831:2007	Closed expansion vessels with built in diaphragm for installation in water
	EN 14359:2017	Gas-loaded accumulators for fluid power applications
	EN 15776:2011+A1:2015	Unfired pressure vessels - Requirements for the design and fabrication of pressure vessels and pressure parts constructed from cast iron with an elongation after fracture equal or less than 15 % (A1: lukuisia muutoksia)
	EN 286-1:1998	Simple unfired pressure vessels designed to contain air or nitrogen - Part 1: Pressure vessels for general purposes
	EN 286-1:1998/A1:2002	Simple unfired pressure vessels designed to contain air or nitrogen - Part 1: Pressure vessels for general purposes
	EN 286-1:1998/A2:2005	Simple unfired pressure vessels designed to contain air or nitrogen - Part 1: Pressure vessels for general purposes
	EN 286-1:1998/AC:2002	Simple unfired pressure vessels designed to contain air or nitrogen - Part 1: Pressure vessels for general purposes
	EN 286-2:1992	Simple unfired pressure vessels designed to contain air or nitrogen - Part 2: Pressure vessels for air braking and auxiliary systems for motor vehicles and their trailers
	EN 286-2:1992/AC:1992	Simple unfired pressure vessels designed to contain air or nitrogen - Part 2: Pressure vessels for air braking and auxiliary systems for motor vehicles and their trailers
	EN 286-3:1994	Simple unfired pressure vessels designed to contain air or nitrogen - Part 3: Steel pressure vessels designed for air braking equipment and auxiliary pneumatic equipment for railway rolling stock
	EN 286-4:1994	Simple unfired pressure vessels designed to contain air or nitrogen - Part 4: Aluminium alloy pressure vessels designed for air braking equipment and auxiliary pneumatic equipment for railway rolling stock
FI	EN 764-1:2015+A1:2016	Pressure equipment - Part 1: Vocabulary
FI	EN 764-2:2012	Pressure equipment - Part 2: Quantities, symbols and units
FI	EN 764-4:2014	Pressure equipment - Part 4: Establishment of technical delivery conditions for metallic materials
FI	EN 764-5:2014	Pressure equipment - Part 5: Inspection documentation of metallic materials and compliance with the material specification
	EN 764-7:2002	Pressure equipment - Part 7: Safety systems for unfired pressure equipment
	CEN/TS 764-8:2016	Pressure equipment and assemblies - Part 8: Proof test

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**Tekeillä:**

Tunnus	Otsikko	Vaihe
EN 13445-4:2014/FprA2	Unfired pressure vessels - Part 4: Fabrication (kuumavetokoe)	äänestys
EN 13445-3:2014/prA12	Unfired pressure vessels - Part 3: Design (6.1.3 ja 6-1, suunnittelujännitykset)	lausunto
EN 13445-5:2014/prA2	Unfired pressure vessels - Part 5: Inspection and testing (6.6.1-1, testausryhmät)	lausunto
EN 13445-8:2014/prA2	Unfired pressure vessels - Part 8: Additional requirements for pressure vessels of aluminium and aluminium alloys (fatigue > 500 cycles)	lausunto
prEN 13445-12	Unfired pressure vessels - Part 12: Additional requirements for pressure vessels constructed from copper and copper alloys	lausunto
prEN 15776	Unfired pressure vessels - Requirements for the design and fabrication of pressure vessels and pressure vessel parts constructed from cast iron with an elongation after fracture equal or less than 15 %	lausunto
prEN 764-7 rev	Pressure equipment - Part 7: Safety systems for unfired pressure equipment	lausunto
EN 13445-3:2014/prA20:2019	Unfired pressure vessels - Part 3: Design (uusi kohta 20)	lausunto
EN 13445-10:2015/prA1:2019	Unfired pressure vessels - Part 10: Additional requirements for pressure vessels of nickel and nickel alloys	työryhmä
prEN 13445-11	Unfired pressure vessels - Part 11: Additional requirements for pressure vessels of titanium and titanium alloys	työryhmä
EN 13445-3:2014/prA14	Unfired pressure vessels - Part 3: Design (kohta 9 Kuorien aukot)	työryhmä
EN 13445-3:2014/prA15	Unfired pressure vessels - Part 3: Design (liite A Paineenalaiset hitsit)	työryhmä
WI00054184	EN 13445 Unfired pressure vessels – Part 14: Additional requirements for pressure equipment and pressure components fabricated with additive manufacturing method	työryhmä

**Alustavat työkohteet:**

Tunnus	Otsikko
EN 13445-2:2014/prA2	Unfired pressure vessels - Part 2: Materials (extension of the application of method 2 to steel groups 2,4,5 and 6 accord. ISO/CR 15608)
EN 13445-2:2014/prA5	Unfired pressure vessels - Part 2: Materials (amends nomograms in Annex B)
EN 13445-2:2014/prA6	Unfired pressure vessels - Part 2: Materials (uusi liite F)
EN 13445-2:2014/prA7	Unfired pressure vessels - Part 2: Materials (revision of Table A.1.1)
EN 13445-3:2014/prA11	Unfired pressure vessels - Part 3: Design
EN 13445-3:2014/prA16	Unfired pressure vessels - Part 3: Design (vessels on brackets)
EN 13445-3:2014/prA17	Unfired pressure vessels - Part 3: Design (negligible creep)
EN 13445-3:2014/prA18	Unfired pressure vessels - Part 3: Design
EN 13445-3:2014/prA19	Unfired pressure vessels - Part 3: Design (revision of annex C)
EN 13445-3:2014/prA21	Unfired pressure vessels - Part 3: Design (vessels on legs)
EN 13445-3:2014/prA22	Unfired pressure vessels - Part 3: Design (global loads on cones)
prEN 286-1 rev	Simple unfired pressure vessels designed to contain air or nitrogen - Part 1: Pressure vessels for general purposes
prEN 286-2 rev	Simple unfired pressure vessels designed to contain air or nitrogen - Part 2: Pressure vessels for air braking and auxiliary systems for motor vehicles and their trailers
prEN 286-3 rev	Simple unfired pressure vessels designed to contain air or nitrogen - Part 3: Steel pressure vessels designed for air braking equipment and auxiliary pneumatic equipment for railway rolling stock
prEN 286-4 rev	Simple unfired pressure vessels designed to contain air or nitrogen - Part 4: Aluminium alloy pressure vessels designed for air braking equipment and auxiliary pneumatic equipment for railway rolling stock
prCEN/TR 764-6 rev	Pressure equipment - Part 6: Structure and content of operating instructions

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## CEN/TC 74 Flanges and their joints

### Julkaisut:

FI	Tunnus	Otsikko
	CEN/TR 1591-5:2012	Flanges and their joints - Design rules for gasketed circular flange connections - Part 5: Calculation method for full face gasketed joints
	CEN/TS 1591-3:2007	Flanges and their joints - Design rules for gasketed circular flange connections - Part 3: Calculation method for metal to metal contact type flanged joint
	CR 13642:1999	Flanges and their joints - Design rules for gasketed circular flange connections - Background information
FI	EN 1092-1:2018	Flanges and their joints - Circular flanges for pipes, valves, fittings and accessories, PN designated - Part 1: Steel flanges
	EN 1092-1:2007+A1:2013/AC:2014	Flanges and their joints - Circular flanges for pipes, valves, fittings and accessories, PN designated - Part 1: Steel flanges
FI	EN 1092-2:1997	Flanges and their joints - Circular flanges for pipes, valves, fittings and accessories, PN designated - Part 2: Cast iron flanges
	EN 1092-3:2003	Flanges and their joints - Circular flanges for pipes, valves, fittings and accessories, PN designated - Part 3: Copper alloy flanges
	EN 1092-3:2003/AC:2007	Flanges and their joints - Circular flanges for pipes, valves, fittings and accessories, PN designated - Part 3: Copper alloy flanges
	EN 1092-4:2002	Flanges and their joints - Circular flanges for pipes, valves, fittings and accessories, PN designated - Part 4: Aluminium alloy flanges
	EN 12560-1:2001	Flanges and their joints - Gaskets for Class-designated flanges - Part 1: Non-metallic flat gaskets with or without inserts
	EN 12560-2:2013	Flanges and their joints - Dimensions of gaskets for Class-designated flanges - Part 2: Spiral wound gaskets for use with steel flanges
	EN 12560-3:2001	Flanges and their joints - Gaskets for Class-designated flanges - Part 3: Non-metallic PTFE envelope gaskets
	EN 12560-4:2001	Flanges and their joints - Gaskets for Class-designated flanges - Part 4: Corrugated, flat or grooved metallic and filled metallic gaskets for use with steel flanges
	EN 12560-5:2001	Flanges and their joints - Gaskets for Class-designated flanges - Part 5: Metallic ring joint gaskets for use with steel flanges
	EN 12560-6:2003	Flanges and their joints - Gaskets for Class-designated flanges - Part 6: Covered serrated metal gaskets for use with steel flanges
	EN 12560-7:2004	Flanges and their joints - Gaskets for Class-designated flanges - Part 7: Covered metal jacketed gaskets for use with steel flanges
FI	EN 1333:2006	Flanges and their joints - Pipework components - Definition and selection of PN
	EN 13555:2014	Flanges and their joints - Gasket parameters and test procedures relevant to the design rules for gasketed circular flange connections
	EN 14772:2005	Flanges and their joints - Quality assurance inspection and testing of gaskets in accordance with the series of standards EN 1514 and EN 12560
	EN 1514-1:1997	Flanges and their joints - Dimensions of gaskets for PN-designated flanges - Part 1: Non-metallic flat gaskets with or without inserts
	EN 1514-2:2014	Flanges and their joints - Gaskets for PN-designated flanges - Part 2: Spiral wound gaskets for use with steel flanges
	EN 1514-3:1997	Flanges and their joints - Dimensions of gaskets for PN-designated flanges - Part 3: Non-metallic PTFE envelope gaskets
	EN 1514-4:1997	Flanges and their joints - Dimensions of gaskets for PN-designated flanges - Part 4: Corrugated, flat or grooved metallic and filled metallic gaskets for use with steel flanges

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EN 1514-6:2003	Flanges and their joints - Dimensions of gaskets for PN-designated flanges - Part 6: Covered serrated metal gaskets for use with steel flanges
EN 1514-7:2004	Flanges and their joints - Gaskets for PN-designated flanges - Part 7: Covered metal jacketed gaskets for use with steel flanges
EN 1514-8:2004	Flanges and their joints - Dimensions of gaskets for PN-designated flanges - Part 8: Polymeric O-Ring gaskets for grooved flanges
EN 1515-1:1999	Flanges and their joints - Bolting - Part 1: Selection of bolting
EN 1515-2:2001	Flanges and their joints - Bolting - Part 2: Classification of bolt materials for steel flanges, PN designated
EN 1515-3:2005	Flanges and their joints - Bolting - Part 3: Classification of bolt materials for steel flanges, class designated
EN 1515-4:2009	Flanges and their joints - Bolting - Part 4: Selection of bolting for equipment subject to the Pressure Equipment Directive 97/23/EC
EN 1591-1:2013	Flanges and their joints - Design rules for gasketed circular flange connections - Part 1: Calculation
EN 1591-2:2008	Flanges and their joints - Design rules for gasketed circular flange connections - Part 2: Gasket parameters
EN 1591-4:2013	Flanges and their joints - Part 4: Qualification of personnel competency in the assembly of the bolted connections of critical service pressurized systems
EN 1759-1:2004	Flanges and their joint - Circular flanges for pipes, valves, fittings and accessories, Class designated - Part 1: Steel flanges, NPS 1/2 to 24
EN 1759-3:2003	Flanges and their joints - Circular flanges for pipes, valves, fittings and accessories, Class designated - Part 3: Copper alloy flanges
EN 1759-1:2004	Flanges and their joint - Circular flanges for pipes, valves, fittings and accessories, Class designated - Part 1: Steel flanges, NPS 1/2 to 24
EN 1759-3:2003	Flanges and their joints - Circular flanges for pipes, valves, fittings and accessories, Class designated - Part 3: Copper alloy flanges
EN 1759-3:2003/AC:2004	Flanges and their joints - Circular flanges for pipes, valves, fittings and accessories, Class designated - Part 3: Copper alloy flanges
EN 1759-4:2003	Flanges and their joint - Circular flanges for pipes, valves, fittings and accessories, class designated - Part 4: Aluminium alloy flanges
EN ISO 6708:1995	Pipework components - Definition and selection of DN (nominal size) (ISO 6708:1995)

**Tekeillä:**

Tunnus	Otsikko	Vaihe
prEN 13555 rev	Flanges and their joints - Gasket parameters and test procedures relevant to the design rules for gasketed circular flange connections	työryhmä
prEN 14772 rev	Flanges and their joints - Quality assurance inspection and testing of gaskets in accordance with the series of standards EN 1514 and EN 12560	työryhmä
EN 1514-2:2014/prA1	Flanges and their joints - Gaskets for PN-designated flanges - Part 2: Spiral wound gaskets for use with steel flanges	työryhmä
prEN 1515-4	Flanges and their joints - Bolting - Part 4: Selection of bolting for equipment subject to the Pressure Equipment Directive 2014/68/EU	työryhmä
WI00074089	Flanges and their joints - Design rules for gasketed circular flange connections - Part 2: Gasket parameters	työryhmä

**Alustavat työkohteet:**

Tunnus	Otsikko
EN 1092-1:2018/prA1	Flanges and their joints - Circular flanges for pipes, valves, fittings and accessories, PN designated - Part 1: Steel flanges

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prEN 1092-2 rev	Flanges and their joints - Circular flanges for pipes, valves, fittings and accessories, PN designated - Part 2: Cast iron flanges
prEN 12560-1 rev	Flanges and their joints - Gaskets for Class-designated flanges - Part 1: Non-metallic flat gaskets with or without inserts
prEN 1514-1 rev	Flanges and their joints - Dimensions of gaskets for PN-designated flanges - Part 1: Non-metallic flat gaskets with or without inserts
prEN 1515-1 rev	Flanges and their joints - Bolting - Part 1: Selection of bolting
prEN 1515-2 rev	Flanges and their joints - Bolting - Part 2: Classification of bolt materials for steel flanges, PN designated
prEN 1515-3 rev	Flanges and their joints - Bolting - Part 3: Classification of bolt materials for steel flanges, class designated
EN 1591-1:2013/prA1	Flanges and their joints - Design rules for gasketed circular flange connections - Part 1: Calculation
prEN 1759-1 rev	Flanges and their joint - Circular flanges for pipes, valves, fittings and accessories, Class designated - Part 1: Steel flanges, NPS 1/2 to 24

## CEN/TC 267 Industrial piping and pipelines

### Julkaisut:

FI	Tunnus	Otsikko
	EN 13480-1:2017	Metallic industrial piping - Part 1: General (issue 1)
FI	EN 13480-2:2017	Metallic industrial piping - Part 2: Materials (issue 1)
FI	EN 13480-2:2017/A1:2018	Metallic industrial piping - Part 2: Materials (taulukko B.2-9 (bolts and nuts))
FI	EN 13480-2:2017/A2:2018	Metallic industrial piping - Part 2: Materials (liite A, terästen luokittelu)
FI	EN 13480-2:2017/A3:2018	Metallic industrial piping - Part 2: Materials (soveltamisala)
FI	EN 13480-3:2017	Metallic industrial piping - Part 3: Design and calculation (issue 1)
FI	EN 13480-4:2017	Metallic industrial piping - Part 4: Fabrication and installation (issue 1)
FI	EN 13480-5:2017	Metallic industrial piping - Part 5: Inspection and testing (issue 1)
	EN 13480-5:2017/A1:2019	Metallic industrial piping - Part 5: Inspection and testing (liite B, Initial leak test)
	EN 13480-6:2017	Metallic industrial piping - Part 6: Additional requirements for buried piping (issue 1)
	EN 13480-8:2017	Metallic industrial piping - Part 8: Additional requirements for aluminium and aluminium alloy piping (issue 1)
	CEN/TR 13480-7:2017	Metallic industrial piping - Part 7: Guidance on the use of conformity assessment procedures

### Tekeillä:

Tunnus	Otsikko	Vaihe
EN 13480-1:2017/FprA1	Metallic industrial piping - Part 1: General (uusi kohta 7 Accessories)	äänestys
EN 13480-6:2017/FprA1	Metallic industrial piping - Part 6: Additional requirements for buried piping (5.2.4, liite A, liite ZA)	äänestys
EN 13480-4:2017/prA1	Metallic industrial piping - Part 4: Fabrication and installation (qualification of welders and welding operators)	lausunto
prEN 13480-9	Metallic industrial piping - Part 9: Additional requirements for piping of nickel and nickel alloys	lausunto
EN 13480-2:2017/prA7	Metallic industrial piping - Part 2: Materials (the deletion of clause 4.2.1.2 Lamellar tearing)	lausunto
EN 13480-3:2017/prA1	Metallic industrial piping - Part 3: Design and calculation (lukuisia muutoksia)	lausunto
EN 13480-3:2017/prA2	Metallic industrial piping - Part 3: Design and calculation (Revision of Clause 12 and Annex H related to Stress Intensification Factors SIF)	lausunto
EN 13480-3:2017/prA3	Metallic industrial piping - Part 3: Design and calculation (liite A, dynamic effects)	lausunto

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## Alustavat työkohteet:

Tunnus	Otsikko
EN 13480-3:2017/prA4	Metallic industrial piping - Part 3: Design and calculation (alternative routes using EN 1993)
EN 13480-3:2017/prA5	Metallic industrial piping - Part 3: Design and calculation (Design of piping components under external pressure)
EN 13480-3:2017/prA6	Metallic industrial piping - Part 3: Design and calculation (Design for cyclic loading)

## CEN/TC 268 Cryogenic vessels

### Julkaisut:

FI	Tunnus	Otsikko
	EN 12213:1998	Cryogenic vessels - Methods for performance evaluation of thermal insulation
	EN 12300:1998	Cryogenic vessels - Cleanliness for cryogenic service
	EN 12300:1998/A1:2006	Cryogenic vessels - Cleanliness for cryogenic service
	EN 12434:2000	Cryogenic vessels - Cryogenic flexible hoses
	EN 12434:2000/AC:2001	Cryogenic vessels - Cryogenic flexible hoses
	EN 1251-1:2000	Cryogenic vessels - Transportable vacuum insulated vessels of not more than 1000 litres volume - Part 1: Fundamental requirements
	EN 1251-2:2000	Cryogenic vessels - Transportable vacuum insulated vessels of not more than 1000 litres volume - Part 2: Design, fabrication, inspection and testing
	EN 1251-2:2000/AC:2006	Cryogenic vessels - Transportable vacuum insulated vessels of not more than 1000 litres volume - Part 2: Design, fabrication, inspection and testing
	EN 13371:2001	Cryogenic vessels - Couplings for cryogenic service
	EN 13458-1:2002	Cryogenic vessels - Static vacuum insulated vessels - Part 1: Fundamental requirements
	EN 13458-2:2002	Cryogenic vessels - Static vacuum insulated vessels - Part 2: Design, fabrication, inspection and testing
	EN 13458-2:2002/AC:2006	Cryogenic vessels - Static vacuum insulated vessels - Part 2: Design, fabrication, inspection and testing
	EN 13530-1:2002	Cryogenic vessels - Large transportable vacuum insulated vessels - Part 1: Fundamental requirements
	EN 13530-2:2002	Cryogenic vessels - Large transportable vacuum insulated vessels - Part 2: Design, fabrication, inspection and testing
	EN 13530-2:2002/A1:2004	Cryogenic vessels - Large transportable vacuum insulated vessels - Part 2: Design, fabrication, inspection and testing
	EN 17124:2018	Hydrogen fuel - Product specification and quality assurance - Proton exchange membrane (PEM) fuel cell applications for road vehicles
	<b>EN 17127:2018</b>	<b>Outdoor hydrogen refuelling points dispensing gaseous hydrogen and incorporating filling protocols</b>
	EN ISO 17268:2016	Gaseous hydrogen land vehicle refuelling connection devices (ISO 17268:2012)
	EN ISO 20421-2:2017	Cryogenic vessels - Large transportable vacuum-insulated vessels - Part 2: Operational requirements (ISO 20421-2:2017)
	<b>EN ISO 21012:2018</b>	<b>Cryogenic vessels - Hoses</b>
	EN ISO 21013-3:2016	Cryogenic vessels - Pressure-relief accessories for cryogenic service - Part 3: Sizing and capacity determination (ISO 21013-3:2016)
	EN ISO 21028-1:2016	Cryogenic vessels - Toughness requirements for materials at cryogenic temperature - Part 1: Temperatures below -80 degrees C (ISO 21028-1:2016)
	EN ISO 21028-2:2018	Cryogenic vessels - Toughness requirements for materials at cryogenic temperature - Part 2: Temperatures between -80 degrees C and -20 degrees C (ISO 21028-2:2018)
	<b>EN ISO 23208:2019</b>	<b>Cryogenic vessels - Cleanliness for cryogenic service (ISO 23208:2017)</b>
	EN ISO 24490:2016	Cryogenic vessels - Pumps for cryogenic service (ISO 24490:2016)

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Tunnus	Otsikko	Vaihe
prEN 17124 rev	Hydrogen fuel - Product specification and quality assurance - Proton exchange membrane (PEM) fuel cell applications for road vehicles	työryhmä
prEN 17127 rev	Outdoor hydrogen refuelling points dispensing gaseous hydrogen and incorporating filling protocols	työryhmä
prEN ISO 17268	Gaseous hydrogen land vehicle refuelling connection devices	lausunto
prEN ISO 21011	Cryogenic vessels - Valves for cryogenic service	työryhmä
WI00268071	Helium cryostat — Protection against overpressure	työryhmä

**Alustavat työkohteet:**

Tunnus	Otsikko
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**CEN/TC 269 Shell and water-tube boilers**
**Julkaisut:**

FI	Tunnus	Otsikko
	CR 12952-17:2002	Water boilers and auxiliary installations - Part 17: Guideline for the involvement of an inspection body independent of the manufacturer
	CR 12953-14:2002	Shell boilers - Part 14: Guideline for involvement of an inspection body independent of the manufacturer
FI	EN 12952-1:2015	Water-tube boilers and auxiliary installations - Part 1: General
FI	EN 12952-2:2011	Water-tube boilers and auxiliary installations - Part 2: Materials for pressure parts of boilers and accessories
FI	EN 12952-3:2011	Water-tube boilers and auxiliary installations - Part 3: Design and calculation for pressure parts of the boiler
	EN 12952-4:2011	Water-tube boilers and auxiliary installations - Part 4: In-service boiler life expectancy calculations
FI	EN 12952-5:2011	Water-tube boilers and auxiliary installations - Part 5: Workmanship and construction of pressure parts of the boiler
FI	EN 12952-6:2011	Water-tube boilers and auxiliary installations - Part 6: Inspection during construction; documentation and marking of pressure parts of the boiler
FI	EN 12952-7:2012	Water-tube boilers and auxiliary installations - Part 7: Requirements for equipment for the boiler
	EN 12952-8:2002	Water-tube boilers and auxiliary installations - Part 8: Requirements for firing systems for liquid and gaseous fuels for the boiler
FI	EN 12952-10:2002	Water-tube boilers and auxiliary installations - Part 10: Requirements for safeguards against excessive pressure
FI	EN 12952-11:2007	Water-tube boilers and auxiliary installations - Part 11: Requirements for limiting devices of the boiler and accessories
FI	EN 12952-12:2003	Water-tube boilers and auxiliary installations - Part 12: Requirements for boiler feedwater and boiler water quality
	EN 12952-13:2003	Water-tube boilers and auxiliary installations - Part 13: Requirements for flue gas cleaning systems
	EN 12952-13:2003/A1:2003	Water-tube boilers and auxiliary installations - Part 13: Requirements for flue gas cleaning systems
	EN 12952-14:2004	Water-tube boilers and auxiliary installations - Part 14: Requirements for flue gas DENOX-systems using liquefied pressurized ammonia and ammonia water solution

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EN 12952-15:2003	Water-tube boilers and auxiliary installations - Part 15: Acceptance tests
FI EN 12952-16:2002	Water-tube boilers and auxiliary installations - Part 16: Requirements for grate and fluidized-bed firing systems for solid fuels for the boiler
FI EN 12952-18:2012	Water-tube boilers and auxiliary installations - Part 18: Operating instructions
FI EN 12953-1:2012	Shell boilers - Part 1: General
FI EN 12953-2:2012	Shell boilers - Part 2: Materials for pressure parts of boilers and accessories
FI EN 12953-3:2016	Shell boilers - Part 3: Design and calculation for pressure parts
FI EN 12953-4:2018	Shell boilers - Part 4: Workmanship and construction of pressure parts of the boiler
FI EN 12953-5:2002	Shell boilers - Part 5: Inspection during construction, documentation and marking of pressure parts of the boiler
FI EN 12953-6:2011	Shell Boilers - Part 6: Requirements for equipment for the boiler
EN 12953-7:2002	Shell boilers - Part 7: Requirements for firing systems for liquid and gaseous fuels for the boilers
FI EN 12953-8:2001	Shell boilers - Part 8: Requirements for safeguards against excessive pressure
EN 12953-8:2001/AC:2002	Shell boilers - Part 8: Requirements for safeguards against excessive pressure
FI EN 12953-9:2007	Shell boilers - Part 9: Requirements for limiting devices of the boiler and accessories
EN 12953-10:2003	Shell boilers - Part 10: Requirements for feedwater and boiler water quality
EN 12953-11:2003	Shell boilers - Part 11: Acceptance tests
EN 12953-12:2003	Shell boilers - Part 12: Requirements for grate firing systems for solid fuels for the boiler
FI EN 12953-13:2012	Shell boilers - Part 13: Operating instructions

## Tekeillä:

Tunnus	Otsikko	Vaihe
FprEN 12953-5 rev	Shell boilers - Part 5: Inspection during construction, documentation and marking of pressure parts of the boiler	äänestys
prEN 12952-2 rev	Water-tube boilers and auxiliary installations - Part 2: Materials for pressure parts of boilers and accessories	työryhmä
prEN 12952-5 rev	Water-tube boilers and auxiliary installations - Part 5: Workmanship and construction of pressure parts of the boiler	työryhmä
prEN 12952-6 rev	Water-tube boilers and auxiliary installations - Part 6: Inspection during construction; documentation and marking of pressure parts of the boiler	työryhmä
prEN 12952-8 rev	Water-tube boilers and auxiliary installations - Part 8: Requirements for firing systems for liquid and gaseous fuels for the boiler	työryhmä
prEN 12952-9 rev	Water-tube boilers and auxiliary installations - Part 9: Requirements for firing systems for pulverized solid fuels for the boiler	työryhmä
prEN 12952-10 rev	Water-tube boilers and auxiliary installations - Part 10: Requirements for safeguards against excessive pressure	työryhmä
prEN 12952-16 rev	Water-tube boilers and auxiliary installations - Part 16: Requirements for grate and fluidized-bed firing systems for solid fuels for the boiler	työryhmä

## Alustavat työkohteet:

Tunnus	Otsikko
EN 12952-1:2015/prA1	Water-tube boilers and auxiliary installations - Part 1: General
prEN 12952-11 rev	Water-tube boilers and auxiliary installations - Part 11: Requirements for limiting devices of the boiler and accessories
prEN 12952-12 rev	Water tube boilers and auxiliary installations - Part 12: Requirements for boiler feedwater and boiler water quality (Revision of EN 12952-12:2003-09)
prEN 12953-6 rev	Shell Boilers - Part 6: Requirements for equipment for the boiler
prEN 12953-7 rev	Shell boilers - Part 7: Requirements for firing systems for liquid and gaseous fuels for the boilers
prEN 12953-8 rev	Shell boilers - Part 8: Requirements for safeguards against excessive pressure

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prEN 12953-9 rev Shell boilers - Part 9: Requirements for limiting devices of the boiler and accessories  
 prEN 12953-10 rev Shell boilers - Part 10: Requirements for feedwater and boiler water quality (Revision of EN 12953-10:2003-09)

## CEN/TC 342 Metal hoses, hose assemblies, bellows and expansion joints

### Julkaisut:

FI	Tunnus	Otsikko
	EN 14585-1:2006	Corrugated metal hose assemblies for pressure applications - Part 1: Requirements
	EN 14800:2007	Corrugated safety metal hose assemblies for the connection of domestic appliances using gaseous fuels
	EN 14917:2009+A1:2012	Metal bellows expansion joints for pressure applications
	EN 15266:2007	Stainless steel pliable corrugated tubing kits in buildings for gas with an operating pressure up to 0,5 bar
	EN 16617:2015	Pipework - Corrugated metal hose assemblies for combustible gas - Performance requirements, testing and marking
	EN ISO 10380:2012	Pipework - Corrugated metal hoses and hose assemblies (ISO 10380:2012)
	EN ISO 10806:2003	Pipework - Fittings for corrugated metal hoses (ISO 10806:2003)
	EN ISO 10807:1996	Pipework - Corrugated flexible metallic hose assemblies for the protection of electrical cables in explosive atmosphere (ISO 10807:1994)
	EN ISO 15465:2004	Pipework - Stripwound metal hoses and hose assemblies (ISO 15465:2004)
	EN ISO 7369:2004	Pipework - Metal hoses and hose assemblies - Vocabulary (ISO 7369:2004)
	CEN/TR 14585-2:2006	Corrugated metal hose assemblies for pressure applications - Part 2: Guidance on the use of conformity assessment procedures
	CEN/TR 14585-3:2017	Corrugated metal hose assemblies for pressure applications - Part 3: Design method

### Tekeillä:

Tunnus	Otsikko	Vaihe
prEN 14917 rev	Metal bellows expansion joints for pressure applications	työryhmä
prEN ISO 7369 rev	Pipework - Metal hoses and hose assemblies - Vocabulary	työryhmä

### Alustavat työkohteet:

Tunnus	Otsikko
prEN 14800 rev	Corrugated safety metal hose assemblies for the connection of domestic appliances using gaseous fuels
prEN 14585	Corrugated metal hose assemblies for pressure applications
prEN 15266 rev	Stainless steel pliable corrugated tubing kits in buildings for gas with an operating pressure up to 0,5 bar