

Painelaitestandardien tilannekatsaus

Luettelossa esitetään teknisten komiteoiden

- CEN/TC 54 Unfired pressure vessels
- CEN/TC 74 Flanges and their joints
- CEN/TC 267 Industrial piping and pipelines
- CEN/TC 268 Cryogenic vessels and specific hydrogen technologies applications
- CEN/TC 269 Shell and water-tube boilers
- CEN/TC 342 Metal hoses, hose assemblies, bellows and expansion joints

julkaisut ja valmisteilla olevat työkohteet.

Näiden teknisten komiteoiden ja niiden työryhmien toimintaa seurataan METSTAn kansallisessa standardisointikomiteassa [K 267 "Painelaitteet"](#). Komitea K 267 vastaa aihealueen standardiehdotuksiin liittyvistä päätöksistä ja niihin lähetettävistä Suomen kannanotoista sekä osallistuu suomenkielisten käännösten valmisteluun. Komitean jäsenillä on pääsy ajantasaiseen standardien valmisteluaineistoon, jolloin oman toiminnan suunnittelussa on mahdollista ottaa huomioon tulevat standardit. Halutessaan on mahdollista osallistua myös standardien valmistelutyöhön eurooppalaisissa ja kansainvälisissä työryhmissä. Katso lisätietoa standardisointiin osallistumisesta: <https://metsta.fi/osallistu/>.

Kaikki EN- ja EN ISO-standardit vahvistetaan Suomessa SFS-EN- ja SFS-EN ISO -standardeiksi. Julkaistut standardit (SFS-EN ja SFS-EN ISO) voi hankkia SFS:n verkkokaupasta (<https://sales.sfs.fi/>). Standardiehdotukset (prEN, prEN ISO ja ISO/DIS) ovat lausuntokierroksen aikana kommentoitavana SFS:n lausuntopyyntöpalvelussa osoitteessa (<https://lausunto.sfs.fi/>).

Standardisointi etenee seuraavien vaiheiden kautta julkaisuun: työryhmävaihe – lausuntovaihe – äänestysvaihe. Joitain ehdotuksia valmistellaan ennen virallisen työn aloittamista ja työryhmävaihetta alustavina työkohteina (Preliminary Work Item, PWI), myös nämä työkohteet esitetään luettelossa.

Kirjoitushetkellä huhtikuussa 2021 ollut tilanne esitetään luettelossa kaikkien julkaisujen osalta. Jos standardin otsikko esitetään suomeksi, se on saatavissa myös suomenkielisenä käännöksenä. **Keltaisella** on merkitty ne julkaisut ja työkohteet, joiden tilanne on muuttunut edellisen tilannekatsauksen (13.11.2020) jälkeen.

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VALMIIT JULKAISUT CEN/TC 54 Unfired pressure vessels		
TUNNUS	OTSIKKO	HUOM.
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	Painelaitteet. Osa 6: Käyttöohjeiden rakenne ja sisältö	
CEN/TS 13445-501:2018	Unfired pressure vessels - Acoustic emission for pressure vessels	
CR 13445-7:2002	Lämmittämättömät painesäiliöt. Osa 7: Opas vaatimustenmukaisuuden arviointimenettelyjen käytöstä	
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)
EN 13445-2:2014	Lämmittämättömät painesäiliöt. Osa 2: Materiaalit	Issue 5. Kansallinen julkaisu SFS-EN 13445-2:2014 + A1:2016 + A2:2018 + A3:2018
EN 13445-2:2014/A1:2016	Lämmittämättömät painesäiliöt. Osa 2: Materiaalit	(austeniittisten rosterien alimmat lämpötilat)
EN 13445-2:2014/A2:2018	Lämmittämättömät painesäiliöt. Osa 2: Materiaalit	(scope, 2, 4.2.1.2, 4.3.3, B.2.3.1, E.2)
EN 13445-2:2014/A3:2018	Lämmittämättömät painesäiliöt. Osa 2: Materiaalit	(bolts and nuts, liite F)
EN 13445-3:2014	Lämmittämättömät painesäiliöt. Osa 3: Suunnittelu	Issue 5. Kansallinen julkaisu SFS-EN 13445-3:2014 + A1 + A2 + A3:2017
EN 13445-3:2014/A1:2015	Lämmittämättömät painesäiliöt. Osa 3: Suunnittelu	(C.8 Creep assessment criteria)
EN 13445-3:2014/A2:2016	Lämmittämättömät painesäiliöt. Osa 3: Suunnittelu	(liite M, väsyminen tai viruminen)
EN 13445-3:2014/A3:2017	Lämmittämättömät painesäiliöt. Osa 3: Suunnittelu	(15, rectangular section)
EN 13445-3:2014/A4:2018	Lämmittämättömät painesäiliöt. Osa 3: Suunnittelu	(9.7.2.4 Kaaripäädyn ja elliptisen päädyn aukot)
EN 13445-3:2014/A5:2018	Lämmittämättömät painesäiliöt. Osa 3: Suunnittelu	(17 ja 18, väsyminen)
EN 13445-3:2014/A6:2019	Lämmittämättömät painesäiliöt. Osa 3: Suunnittelu	(liite J, heat exchanger tubesheets)
EN 13445-3:2014/A7:2019	Lämmittämättömät painesäiliöt. Osa 3: Suunnittelu	(creep of weldments)
EN 13445-3:2014/A8:2019	Lämmittämättömät painesäiliöt. Osa 3: Suunnittelu	(16 non-pressure loads, 22 helman staattinen analyysi, liite W)
EN 13445-4:2014	Lämmittämättömät painesäiliöt. Osa 4: Valmistus	Issue 5

VALMIIT JULKAISUT		
CEN/TC 54 Unfired pressure vessels		
TUNNUS	OTSIKKO	HUOM.
EN 13445-4:2014/A1:2016	Unfired pressure vessels - Part 4: Fabrication	(7.4 hitsaajien pätevöinti)
EN 13445-5:2014	Lämmittämättömät painesäiliöt. Osa 5: Tarkastus ja testaus	Issue 5
EN 13445-5:2014/A1:2018	Lämmittämättömät painesäiliöt. Osa 5: Tarkastus ja testaus	(testing groups and governing joints)
EN 13445-6:2014	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
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	
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	

VALMIIT JULKAISUT		
CEN/TC 54 Unfired pressure vessels		
TUNNUS	OTSIKKO	HUOM.
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	
EN 764-1:2015+A1:2016	Painelaitteet. Osa 1: Sanasto	
EN 764-2:2012	Painelaitteet. Osa 2: Suureet, tunnuksot ja yksiköt	
EN 764-4:2014	Painelaitteet. Osa 4: Metallisten materiaalien teknisten toimitusehtojen laatiminen	
EN 764-5:2014	Painelaitteet. Osa 5: Metallisten materiaalien vaatimustenmukaisuuden osoittaminen ja aineodistukset	
EN 764-7:2002	Painelaitteet. Osa 7: Lämmittämättömien painelaitteiden turvajärjestelmät	
CEN/TS 764-8:2016	Pressure equipment and assemblies - Part 8: Proof test	

VALMISTEILLA OLEVAT TYÖKOHTEET CEN/TC 54 Unfired pressure vessels		
TUNNUS	OTSIKKO	VAIHE
EN 13445-4:2014/FprA2	Unfired pressure vessels - Part 4: Fabrication (kuumavetokoe)	äänestys
EN 13445-5:2014/FprA2	Unfired pressure vessels - Part 5: Inspection and testing (6.6.1-1, testausryhmät)	äänestys
FprEN 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 %	äänestys
EN 13445-2:2014/prA8	Unfired pressure vessels - Part 2: Materials (Revision of 4.1.7 and annex A)	lausunto
EN 13445-3:2014/prA12	Unfired pressure vessels - Part 3: Design (6.1.3 ja 6-1, suunnittelujännitykset)	lausunto
EN 13445-3:2014/prA14	Unfired pressure vessels - Part 3: Design (kohta 9 Kuorien aukot)	lausunto
EN 13445-3:2014/prA15	Unfired pressure vessels - Part 3: Design (liite A Paineenalaiset hitsit)	lausunto
EN 13445-3:2014/prA16	Unfired pressure vessels - Part 3: Design (vessels on brackets)	lausunto
EN 13445-3:2014/prA19	Unfired pressure vessels - Part 3: Design (revision of annex C)	lausunto
EN 13445-3:2014/prA20	Unfired pressure vessels - Part 3: Design (uusi kohta 18)	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 13445-11	Unfired pressure vessels - Part 11: Additional requirements for pressure vessels of titanium and titanium alloys	lausunto
prEN 13445-12	Unfired pressure vessels - Part 12: Additional requirements for pressure vessels constructed from copper and copper alloys	lausunto
prEN 286-1 rev	Simple unfired pressure vessels designed to contain air or nitrogen - Part 1: Pressure vessels for general purposes	lausunto
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	lausunto
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	lausunto
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	lausunto
prEN 764-7 rev	Pressure equipment - Part 7: Safety systems for unfired pressure equipment	lausunto
EN 13445-2:2014/prA7	Unfired pressure vessels - Part 2: Materials (revision of Table A.1.1)	työryhmä
EN 13445-4:2014/prA3	Unfired pressure vessels - Part 4: Fabrication (kohdan 7.3 muutos ja uusi liite C)	työryhmä
prEN 13445-1 rev	Unfired pressure vessels - Part 1: General (uusi painos 2021)	työryhmä
prEN 13445-2 rev	Unfired pressure vessels - Part 2: Materials (uusi painos 2021)	työryhmä
prEN 13445-3 rev	Unfired pressure vessels - Part 3: Design (uusi painos 2021)	työryhmä
prEN 13445-4 rev	Unfired pressure vessels - Part 4: Fabrication (uusi painos 2021)	työryhmä
prEN 13445-5 rev	Unfired pressure vessels - Part 5: Inspection and testing (uusi painos 2021)	työryhmä

VALMISTEILLA OLEVAT TYÖKOHTEET CEN/TC 54 Unfired pressure vessels		
TUNNUS	OTSIKKO	VAIHE
prEN 13445-6 rev	Unfired pressure vessels - Part 6: Requirements for the design and fabrication of pressure vessels and pressure parts constructed from spheroidal graphite cast iron (uusi painos 2021)	työryhmä
prEN 13445-8 rev	Unfired pressure vessels - Part 8: Additional requirements for pressure vessels of aluminium and aluminium alloys (uusi painos 2021)	työryhmä
prEN 13445-10 rev	Unfired pressure vessels - Part 10: Additional requirements for pressure vessels of nickel and nickel alloys (uusi painos 2021)	työryhmä
prEN 13445-14	Unfired pressure vessels - Part 14: Additional requirements for pressure equipment and pressure components fabricated with additive manufacturing method	työryhmä
EN 13445-2:2014/prA6	Unfired pressure vessels - Part 2: Materials (uusi liite F)	alustava työkohde
EN 13445-3:2014/prA11	Unfired pressure vessels - Part 3: Design	alustava työkohde
EN 13445-3:2014/prA17	Unfired pressure vessels - Part 3: Design (negligible creep)	alustava työkohde
EN 13445-3:2014/prA18	Unfired pressure vessels - Part 3: Design	alustava työkohde
EN 13445-3:2014/prA21	Unfired pressure vessels - Part 3: Design (vessels on legs)	alustava työkohde
EN 13445-3:2014/prA22	Unfired pressure vessels - Part 3: Design (global loads on cones)	alustava työkohde
EN 13445-3:2014/prA23	Unfired pressure vessels - Part 3: Design (Revision of Annexes B and C)	alustava työkohde
prCEN/TR 764-6 rev	Pressure equipment - Part 6: Structure and content of operating instructions	alustava työkohde

<p style="text-align: center;">VALMIIT JULKAISUT CEN/TC 74 Flanges and their joints</p>		
TUNNUS	OTSIKKO	HUOM.
EN 1092-1:2018	Laipat ja laippaliitokset. Pyöreät laipat putkille, venttiileille, yhteille ja varusteille, PN-mitoitetut. Osa 1: Teräslaipat	
EN 1092-2:1997	Laipat ja laippaliitokset. Pyöreät laipat putkille, venttiileille, yhteille ja varusteille, PN-mitoitetut. Osa 2: Valurautaiset laipat	
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 1333:2006	Laipat ja laippaliitokset. Putkiston osat. PN:n määrittelmä ja valinta	
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 + A1:2021	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	
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 1515-4:2021	Flanges and their joints - Bolting - Part 4: Selection of bolting for equipment subject to the Pressure Equipment Directive 2014/68/EU	
EN 1591-1:2013	Flanges and their joints - Design rules for gasketed circular flange connections - Part 1: Calculation	
CEN/TR 1591-2:2020	Flanges and their joints - Design rules for gasketed circular flange connections - Part 2: Gasket parameters	
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	

<p style="text-align: center;">VALMIIT JULKAISUT CEN/TC 74 Flanges and their joints</p>		
TUNNUS	OTSIKKO	HUOM.
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	
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 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	
EN 13555:2021	Flanges and their joints - Gasket parameters and test procedures relevant to the design rules for gasketed circular flange connections	
CR 13642:1999	Flanges and their joints - Design rules for gasketed circular flange connections - Background information	

VALMIIT JULKAISUT		
CEN/TC 74 Flanges and their joints		
TUNNUS	OTSIKKO	HUOM.
EN 14772:2021	Flanges and their joints - Quality assurance inspection and testing of gaskets in accordance with the series of standards EN 1514 and EN 12560	
EN ISO 6708:1995	Pipework components - Definition and selection of DN (nominal size) (ISO 6708:1995)	

VALMISTEILLA OLEVAT TYÖKOHTEET CEN/TC 74 Flanges and their joints		
TUNNUS	OTSIKKO	VAIHE
prEN 1092-3 rev	Flanges and their joints - Circular flanges for pipes, valves, fittings and accessories, PN designated - Part 3: Copper alloy flanges	työryhmä
prEN 1759-3 rev	Flanges and their joints - Circular flanges for pipes, valves, fittings and accessories, Class designated - Part 3: Copper alloy flanges	työryhmä
prEN 1759-4 rev	Flanges and their joint - Circular flanges for pipes, valves, fittings and accessories, class designated - Part 4: Aluminium alloy flanges	työryhmä
prEN 1591-1 rev	Flanges and their joints - Design rules for gasketed circular flange connections - Part 1: Calculation	työryhmä
EN 1092-1:2018/prA1	Flanges and their joints - Circular flanges for pipes, valves, fittings and accessories, PN designated - Part 1: Steel flanges	alustava työkohde
prEN 1092-2 rev	Flanges and their joints - Circular flanges for pipes, valves, fittings and accessories, PN designated - Part 2: Cast iron flanges	alustava työkohde
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	alustava työkohde
prEN 1514-6 rev	Flanges and their joints - Dimensions of gaskets for PN-designated flanges - Part 6: Covered serrated metal gaskets for use with steel flanges	alustava työkohde
prEN 1515-1 rev	Flanges and their joints - Bolting - Part 1: Selection of bolting	alustava työkohde
prEN 1515-2 rev	Flanges and their joints - Bolting - Part 2: Classification of bolt materials for steel flanges, PN designated	alustava työkohde
prEN 1515-3 rev	Flanges and their joints - Bolting - Part 3: Classification of bolt materials for steel flanges, class designated	alustava työkohde
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	alustava työkohde
prEN 12560-1 rev	Flanges and their joints - Gaskets for Class-designated flanges - Part 1: Non-metallic flat gaskets with or without inserts	alustava työkohde
prEN 12560-6 rev	Flanges and their joints - Gaskets for Class-designated flanges - Part 6: Covered serrated metal gaskets for use with steel flanges	alustava työkohde
prCEN/TR 13642 rev	Flanges and their joints - Design rules for gasketed circular flange connections - Background information	alustava työkohde

VALMIIT JULKAISUT		
CEN/TC 267 Industrial piping and pipelines		
TUNNUS	OTSIKKO	HUOM.
EN 13480-1:2017	Metallic industrial piping - Part 1: General	Issue 1
EN 13480-1:2017/A1:2019	Metallic industrial piping - Part 1: General	(uusi kohta 7 Accessories)
EN 13480-2:2017	Metalliset teollisuusputkistot. Osa 2: Materiaalit	Issue 1. Kansallinen julkaisu SFS-EN 13480-2:2017 + A1:2018 + A2:2018 + A3:2018 + A7:2020
EN 13480-2:2017/A1:2018	Metalliset teollisuusputkistot. Osa 2: Materiaalit	(taulukko B.2-9 (bolts and nuts))
EN 13480-2:2017/A2:2018	Metalliset teollisuusputkistot. Osa 2: Materiaalit	(liite A, terästen luokittelu)
EN 13480-2:2017/A3:2018	Metalliset teollisuusputkistot. Osa 2: Materiaalit	(soveltamisala)
EN 13480-2:2017/A7:2020	Metalliset teollisuusputkistot. Osa 2: Materiaalit	(the deletion of clause 4.2.1.2 Lamellar tearing)
EN 13480-3:2017	Metalliset teollisuusputkistot. Osa 3: Suunnittelu ja laskenta	Issue 1. Kansallinen julkaisu SFS-EN 13480-3:2017 + A2:2020 + A3:2020
EN 13480-3:2017/A1:2021	Metalliset teollisuusputkistot. Osa 3: Suunnittelu ja laskenta	(lukuisia muutoksia). Käännös valmisteilla
EN 13480-3:2017/A2:2020	Metalliset teollisuusputkistot. Osa 3: Suunnittelu ja laskenta	(Revision of Clause 12 and Annex H related to Stress Intensification Factors SIF)
EN 13480-3:2017/A3:2020	Metalliset teollisuusputkistot. Osa 3: Suunnittelu ja laskenta	(liite A, dynamic effects)
EN 13480-4:2017	Metalliset teollisuusputkistot. Osa 4: Valmistus ja asennus	Issue 1
EN 13480-5:2017	Metalliset teollisuusputkistot. Osa 5: Tarkastus ja testaus	Issue 1. Kansallinen julkaisu SFS-EN 13480-5:2017 + A1:2019
EN 13480-5:2017/A1:2019	Metalliset teollisuusputkistot. Osa 5: Tarkastus ja testaus	(liite B, Initial leak test)
EN 13480-6:2017	Metallic industrial piping - Part 6: Additional requirements for buried piping	Issue 1
EN 13480-6:2017/A1:2019	Metallic industrial piping - Part 6: Additional requirements for buried piping (5.2.4, liite A, liite ZA)	
CEN/TR 13480-7:2017	Metallic industrial piping - Part 7: Guidance on the use of conformity assessment procedures	
EN 13480-8:2017	Metallic industrial piping - Part 8: Additional requirements for aluminium and aluminium alloy piping	Issue 1

VALMISTEILLA OLEVAT TYÖKOHTEET		
CEN/TC 267 Industrial piping and pipelines		
TUNNUS	OTSIKKO	VAIHE
EN 13480-2:2017/prA8	Metallic industrial piping - Part 2: Materials (taulukot A.1 ja 4.1-1)	lausunto
EN 13480-3:2017/prA4	Metallic industrial piping - Part 3: Design and calculation (alternative routes using EN 1993)	lausunto
EN 13480-4:2017/prA1	Metallic industrial piping - Part 4: Fabrication and installation (qualification of welders and welding operators)	lausunto
EN 13480-4:2017/prA2	Metallic industrial piping - Part 4: Fabrication and installation (Pcrit and heat treatment)	lausunto
EN 13480-5:2017/prA2	Metallic industrial piping - Part 5: Inspection and testing (Revision of clause 8.2.1)	lausunto
prEN 13480-9	Metallic industrial piping - Part 9: Additional requirements for piping of nickel and nickel alloys	lausunto
EN 13480-3:2017/prA5	Metallic industrial piping - Part 3: Design and calculation (Design of piping components under external pressure)	työryhmä
EN 13480-3:2017/prA6	Metallic industrial piping - Part 3: Design and calculation (Design for cyclic loading)	työryhmä
EN 13480-3:2017/prA7	Metallic industrial piping - Part 3: Design and calculation (revision of Annex Q "Simplified pipe stress analysis")	alustava työkohde
EN 13480-4:2017/prA3	Metallic industrial piping - Part 4: Fabrication and installation (introduction of brazing and pressfitting)	alustava työkohde
EN 13480-5:2017/prA3	Metallic industrial piping - Part 5: Inspection and testing (introduction of brazing and pressfitting)	alustava työkohde
EN 13480-8:2017/prA1	Metallic industrial piping - Part 8: Additional requirements for aluminium and aluminium alloy piping	alustava työkohde
prEN 13480-10	Metallic industrial piping - Part 10: Additional requirements for piping of titanium and titanium alloys	alustava työkohde

VALMIIT JULKAISUT		
CEN/TC 268 Cryogenic vessels and specific hydrogen technologies applications		
TUNNUS	OTSIKKO	HUOM.
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 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 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	
EN 17127:2020	Outdoor hydrogen refuelling points dispensing gaseous hydrogen and incorporating filling protocols	
EN ISO 17268:2020	Gaseous hydrogen land vehicle refuelling connection devices (ISO 17268:2020)	
EN ISO 20421-2:2017	Cryogenic vessels - Large transportable vacuum-insulated vessels - Part 2: Operational requirements (ISO 20421-2:2017)	
EN ISO 21012:2018	Cryogenic vessels - Hoses	
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)	

VALMIIT JULKAISUT		
CEN/TC 268 Cryogenic vessels and specific hydrogen technologies applications		
TUNNUS	OTSIKKO	HUOM.
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)	
EN ISO 23208:2019	Cryogenic vessels - Cleanliness for cryogenic service (ISO 23208:2017)	
EN ISO 23208:2019/A1:2020	Cryogenic vessels - Cleanliness for cryogenic service - Amendment 1 (ISO 23208:2017/Amd 1:2020)	
EN ISO 24490:2016	Cryogenic vessels - Pumps for cryogenic service (ISO 24490:2016)	

VALMISTEILLA OLEVAT TYÖKOHTEET		
CEN/TC 268 Cryogenic vessels and specific hydrogen technologies applications		
TUNNUS	OTSIKKO	VAIHE
prEN 17527	Helium cryostats - Protection against excessive pressure	lausunto
prEN 17124 rev	Hydrogen fuel - Product specification and quality assurance - Proton exchange membrane (PEM) fuel cell applications for road vehicles	lausunto
prEN ISO 21011	Cryogenic vessels - Valves for cryogenic service	lausunto
prEN ISO 17268 rev	Gaseous hydrogen land vehicle refuelling connection devices	työryhmä
prEN ISO 21012 rev	Cryogenic vessels - Hoses	työryhmä

VALMIIT JULKAISUT CEN/TC 269 Shell and water-tube boilers		
TUNNUS	OTSIKKO	HUOM.
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	
EN 12952-1:2015	Vesiputkikattilat ja niihin liittyvät laitteistot. Osa 1: Yleistä	
EN 12952-2:2011	Vesiputkikattilat ja niihin liittyvät laitteistot. Osa 2: Kattiloiden ja niiden varusteiden paineenalasiin osiin tarkoitetut materiaalit	
EN 12952-3:2011	Vesiputkikattilat ja niihin liittyvät laitteistot. Osa 3: Paineenalaisten osien suunnittelu ja laskenta	
EN 12952-4:2011	Water-tube boilers and auxiliary installations - Part 4: In-service boiler life expectancy calculations	
EN 12952-5:2011	Vesiputkikattilat ja niihin liittyvät laitteistot. Osa 5: Paineenalaisten osien valmistus	
EN 12952-6:2011	Vesiputkikattilat ja niihin liittyvät laitteistot. Osa 6: Kattilan paineenalaisten osien valmistuksen aikainen tarkastus, dokumentointi ja merkintä	
EN 12952-7:2012	Vesiputkikattilat ja niihin liittyvät laitteistot. Osa 7: Vaatimukset kattilan varusteille	
EN 12952-8:2002	Water-tube boilers and auxiliary installations - Part 8: Requirements for firing systems for liquid and gaseous fuels for the boiler	
EN 12952-9:2002	Water-tube boilers and auxiliary installations - Part 9: Requirements for firing systems for pulverized solid fuels for the boiler	
EN 12952-10:2002	Vesiputkikattilat ja niihin liittyvät laitteistot. Osa 10: Vaatimukset sallitun paineen ylitykseltä suojaaville turvajärjestelmille	
EN 12952-11:2007	Vesiputkikattilat ja niihin liittyvät laitteistot. Osa 11: Vaatimukset rajoitinlaitteille ja turvajärjestelmille	
EN 12952-12:2003	Vesiputkikattilat ja niihin liittyvät laitteistot. Osa 12: Laatuvaatimukset syöttö- ja kattilavedelle	
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	
EN 12952-15:2003	Water-tube boilers and auxiliary installations - Part 15: Acceptance tests	
EN 12952-16:2002	Vesiputkikattilat ja niihin liittyvät laitteistot. Osa 16: Vaatimukset kiinteän polttoaineen polttolaitteistoille arina- ja leijupoltossa	
CR 12952-17:2002	Water boilers and auxiliary installations - Part 17: Guideline for the involvement of an inspection body independent of the manufacturer	
EN 12952-18:2012	Vesiputkikattilat ja niihin liittyvät laitteistot. Osa 18: Käyttöohjeet	
EN 12953-1:2012	Tulitorvikattilat. Osa 1: Yleistä	
EN 12953-2:2012	Tulitorvikattilat. Osa 2: Kattiloiden ja niiden varusteiden paineenalasiin osiin tarkoitetut materiaalit	

VALMIIT JULKAISUT		
CEN/TC 269 Shell and water-tube boilers		
TUNNUS	OTSIKKO	HUOM.
EN 12953-3:2016	Tulitorvikattilat. Osa 3: Paineenalaisten osien suunnittelu ja laskenta	
EN 12953-4:2018	Tulitorvikattilat. Osa 4: Kattilan paineenalaisten osien valmistus	
EN 12953-5:2020	Tulitorvikattilat. Osa 5: Tarkastukset valmistuksen aikana, dokumentaatio ja paineenalaisten osien tunnusmerkintä	
EN 12953-6:2011	Tulitorvikattilat. Osa 6: Vaatimukset kattilan varusteille	
EN 12953-7:2002	Shell boilers - Part 7: Requirements for firing systems for liquid and gaseous fuels for the boilers	
EN 12953-8:2001	Tulitorvikattilat. Osa 8: Vaatimukset sallitun paineen ylitykseltä suojaaville järjestelmille	
EN 12953-8:2001/AC:2002	Tulitorvikattilat. Osa 8: Vaatimukset sallitun paineen ylitykseltä suojaaville järjestelmille	
EN 12953-9:2007	Tulitorvikattilat. Osa 9: Vaatimukset rajoitinlaitteille ja turvajärjestelmille	
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	
EN 12953-13:2012	Tulitorvikattilat. Osa 13: Käyttöohjeet	
CR 12953-14:2002	Shell boilers - Part 14: Guideline for involvement of an inspection body independent of the manufacturer	

VALMISTEILLA OLEVAT TYÖKOHTEET CEN/TC 269 Shell and water-tube boilers		
TUNNUS	OTSIKKO	VAIHE
prEN 12952-2 rev	Water-tube boilers and auxiliary installations - Part 2: Materials for pressure parts of boilers and accessories	lausunto
prEN 12952-5 rev	Water-tube boilers and auxiliary installations - Part 5: Workmanship and construction of pressure parts of the boiler	lausunto
prEN 12952-6 rev	Water-tube boilers and auxiliary installations - Part 6: Inspection during construction; documentation and marking of pressure parts of the boiler	lausunto
prEN 12952-8 rev	Water-tube boilers and auxiliary installations - Part 8: Requirements for firing systems for liquid and gaseous fuels for the boiler	lausunto
prEN 12952-9 rev	Water-tube boilers and auxiliary installations - Part 9: Requirements for firing systems for pulverized solid fuels for the boiler	lausunto
prEN 12952-10 rev	Water-tube boilers and auxiliary installations - Part 10: Requirements for safeguards against excessive pressure	lausunto
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	lausunto
prEN 12952-3 rev	Water-tube boilers and auxiliary installations - Part 3: Design and calculation for pressure parts of the boiler	työryhmä
prEN 12952-1 rev	Water-tube boilers and auxiliary installations - Part 1: General	alustava työkohde
prEN 12952-7 rev	Water-tube boilers and auxiliary installations - Part 7: Requirements for equipment for the boiler	alustava työkohde
prEN 12952-11 rev	Water-tube boilers and auxiliary installations - Part 11: Requirements for limiting devices of the boiler and accessories	alustava työkohde
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)	alustava työkohde
prCEN/TR 12952-17 rev	Water tube boilers and auxiliary installations - Part 17: Guideline for the involvement of an inspection body independent of the manufacturer	alustava työkohde
prEN 12952-18 rev	Water-tube boilers and auxiliary installations - Part 18: Operating instructions	alustava työkohde
prEN 12953-1 rev	Shell boilers - Part 1: General	alustava työkohde
prEN 12953-2 rev	Shell boilers - Part 2: Materials for pressure parts of boilers and accessories	alustava työkohde
prEN 12953-6 rev	Shell boilers - Part 6: Requirements for equipment for the boiler	alustava työkohde
prEN 12953-7 rev	Shell boilers - Part 7: Requirements for firing systems for liquid and gaseous fuels for the boilers	alustava työkohde
prEN 12953-8 rev	Shell boilers - Part 8: Requirements for safeguards against excessive pressure	alustava työkohde
prEN 12953-9 rev	Shell boilers - Part 9: Requirements for limiting devices of the boiler and accessories	alustava työkohde
prEN 12953-10 rev	Shell boilers - Part 10: Requirements for feedwater and boiler water quality (Revision of EN 12953-10:2003-09)	alustava työkohde
prEN 12953-13 rev	Shell boilers - Part 13: Operating instructions	alustava työkohde
prCEN/TR 12953-14 rev	Shell boilers - Part 14: Guideline for involvement of an inspection body independent of the manufacturer	alustava työkohde

VALMIIT JULKAISUT		
CEN/TC 342 Metal hoses, hose assemblies, bellows and expansion joints		
TUNNUS	OTSIKKO	HUOM.
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 7369:2020	Pipework - Metal hoses and hose assemblies - Vocabulary (ISO 7369:2020)	
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	

VALMISTEILLA OLEVAT TYÖKOHTEET		
CEN/TC 342 Metal hoses, hose assemblies, bellows and expansion joints		
TUNNUS	OTSIKKO	VAIHE
FprEN 14917	Metal bellows expansion joints for pressure applications	äänestys
prEN 14800 rev	Corrugated safety metal hose assemblies for the connection of domestic appliances using gaseous fuels	alustava työkohde
prEN 14585	Corrugated metal hose assemblies for pressure applications	alustava työkohde
prEN 15266 rev	Stainless steel pliable corrugated tubing kits in buildings for gas with an operating pressure up to 0,5 bar	alustava työkohde