

► B **COMMISSION IMPLEMENTING DECISION (EU) 2019/1616**
of 27 September 2019
on the harmonised standards for pressure equipment drafted in support of Directive 2014/68/EU of
the European Parliament and of the Council
(OJ L 250, 30.9.2019, p. 95)

Amended by:

		Official Journal		
		No	page	date
► <u>M1</u>	Commission Implementing Decision (EU) 2020/542 of 16 April 2020	L 121	4	20.4.2020
► <u>M2</u>	Commission Implementing Decision (EU) 2021/157 of 9 February 2021	L 46	40	10.2.2021
► <u>M3</u>	Commission Implementing Decision (EU) 2021/1801 of 11 October 2021	L 361	53	12.10.2021
► <u>M4</u>	Commission Implementing Decision (EU) 2021/2272 of 20 December 2021	L 457	10	21.12.2021
► <u>M5</u>	Commission Implementing Decision (EU) 2022/1844 of 28 September 2022	L 254	58	3.10.2022

**COMMISSION IMPLEMENTING DECISION (EU) 2019/1616****of 27 September 2019****on the harmonised standards for pressure equipment drafted in support of Directive 2014/68/EU of the European Parliament and of the Council***Article 1*

The references of harmonised standards for pressure equipment drafted in support of Directive 2014/68/EU, listed in Annex I to this Decision, are hereby published in the *Official Journal of the European Union*.

Article 2

The references of harmonised standards for pressure equipment drafted in support of Directive 2014/68/EU, listed in Annex II to this Decision, are hereby withdrawn from the *Official Journal of the European Union* as from the dates set out in that Annex.

Article 3

This Decision shall enter into force on the day of its publication in the *Official Journal of the European Union*.

▼B*ANNEX I*

No	Reference of the standard
1.	EN 1562:2019 Founding — Malleable cast irons
2.	EN 1563:2018 Founding — Spheroidal graphite cast irons
3.	EN ISO 4126-2:2019 Safety devices for protection against excessive pressure — Part 2: Bursting disc safety devices (ISO 4126-2:2018)
4.	EN 12516-1:2014+A1:2018 Industrial valves — Shell design strength — Part 1: Tabulation method for steel valve shells
5.	EN 12516-4:2014+A1:2018 Industrial valves — Shell design strength — Part 4: Calculation method for valve shells manufactured in metallic materials other than steel
6.	EN 13136:2013+A1:2018 Refrigerating systems and heat pumps — Pressure relief devices and their associated piping — Methods for calculation
▼M4	
7a.	EN 13445-2:2021 Unfired pressure vessels – Part 2: Materials
8a.	EN 13445-3:2021 Unfired pressure vessels – Part 3: Design
9a.	EN 13445-5:2021 Unfired pressure vessels – Part 5: Inspection and testing

▼ B

No	Reference of the standard
----	---------------------------

▼ M4

10a.	EN 13445-6:2021 Unfired pressure vessels – Part 6: Requirements for the design and fabrication of pressure vessels and pressure parts constructed from spheroidal graphite cast iron
------	---

▼ M2

11.	EN 13480-2:2017 Metallic industrial piping - Part 2: Materials EN 13480-2:2017/A1:2018 EN 13480-2:2017/A2:2018 EN 13480-2:2017/A3:2018 EN 13480-2:2017/A7:2020
-----	---

▼ M5

11a.	EN 13480-2:2017 Metallic industrial piping - Part 2: Materials EN 13480-2:2017/A3:2018 EN 13480-2:2017/A1:2018 EN 13480-2:2017/A2:2018 EN 13480-2:2017/A7:2020 EN 13480-2:2017/A8:2021
------	--

▼ B

12.	EN 13480-5:2017 Metallic industrial piping — Part 5: Inspection and testing EN 13480-5:2017/A1:2019
-----	---

▼ M5

12a.	EN 13480-5:2017 Metallic industrial piping - Part 5: Inspection and testing EN 13480-5:2017/A1:2019 EN 13480-5:2017/A2:2021
------	--

▼ B

13.	EN ISO 15494:2018 Plastics piping systems for industrial applications — Polybutene (PB), polyethylene (PE), polyethylene of raised temperature resistance (PE-RT), crosslinked polyethylene (PE-X), polypropylene (PP) — Metric series for specifications for components and the system (ISO 15494:2015)
14.	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)

▼ M1

15.	EN ISO 4126-1:2013 Safety devices for protection against excessive pressure – Part 1: Safety valves (ISO 4126-1:2013) EN ISO 4126-1:2013/A2:2019
-----	--

▼ **M1**

No	Reference of the standard
16.	EN 10217-1:2019 Welded steel tubes for pressure purposes – Technical delivery conditions – Part 1: Electric welded and submerged arc welded non-alloy steel tubes with specified room temperature properties
17.	EN 10217-2:2019 Welded steel tubes for pressure purposes – Technical delivery conditions – Part 2: Electric welded non-alloy and alloy steel tubes with specified elevated temperature properties
18.	EN 10217-3:2019 Welded steel tubes for pressure purposes – Technical delivery conditions – Part 3: Electric welded and submerged arc welded alloy fine grain steel tubes with specified room, elevated and low temperature properties
19.	EN 10217-4:2019 Welded steel tubes for pressure purposes – Technical delivery conditions – Part 4: Electric welded non-alloy steel tubes with specified low temperature properties
20.	EN 10217-5:2019 Welded steel tubes for pressure purposes – Technical delivery conditions – Part 5: Submerged arc welded non-alloy and alloy steel tubes with specified elevated temperature properties
21.	EN 10217-6:2019 Welded steel tubes for pressure purposes – Technical delivery conditions – Part 6: Submerged arc welded non-alloy steel tubes with specified low temperature properties
22.	EN 13480-1:2017 Metallic industrial piping – Part 1: General EN 13480-1:2017/A1:2019
23.	EN 13480-6:2017 Metallic industrial piping – Part 6: Additional requirements for buried piping EN 13480-6:2017/A1:2019

▼ **M2**

24.	EN ISO 4126-3:2020 Safety devices for protection against excessive pressure - Part 3: Safety valves and bursting disc safety devices in combination (ISO 4126-3:2020)
25.	EN 12542:2020 LPG equipment and accessories - Static welded steel cylindrical pressure vessels, serially produced for the storage of Liquefied Petroleum Gas (LPG) having a volume not greater than 13 m ³ - Design and manufacture
26.	EN 12735-1:2020 Copper and copper alloys - Seamless, round tubes for air conditioning and refrigeration - Part 1: Tubes for piping systems
27.	EN 12953-5:2020 Shell boilers - Part 5: Inspection during construction, documentation and marking of pressure parts of the boiler

▼ M2

No	Reference of the standard
28.	EN 13175:2019+A1:2020 LPG Equipment and accessories - Specification and testing for Liquefied Petroleum Gas (LPG) pressure vessel valves and fittings

▼ M3

29.	EN 13480-3:2017 Metallic industrial piping – Part 3: Design and calculation EN 13480-3:2017/A2:2020 EN 13480-3:2017/A3:2020 EN 13480-3:2017/A1:2021
-----	---

▼ M5

29a.	EN 13480-3:2017 Metallic industrial piping - Part 3: Design and calculation EN 13480-3:2017/A3:2020 EN 13480-3:2017/A1:2021 EN 13480-3:2017/A2:2020 EN 13480-3:2017/A4:2021
------	--

▼ M2

30.	EN 14276-1:2020 Pressure equipment for refrigerating systems and heat pumps - Part 1: Vessels - General requirements
31.	EN 14276-2:2020 Pressure equipment for refrigerating systems and heat pumps - Part 2: Piping - General requirements
32.	EN ISO 15620:2019 Welding - Friction welding of metallic materials (ISO 15620:2019)
33.	EN ISO 16135:2006 Industrial valves - Ball valves of thermoplastics materials (ISO 16135:2006) EN ISO 16135:2006/A1:2019
34.	EN ISO 16136:2006 Industrial valves - Butterfly valves of thermoplastics materials (ISO 16136:2006) EN ISO 16136:2006/A1:2019
35.	EN ISO 16137:2006 Industrial valves - Check valves of thermoplastics materials (ISO 16137:2006) EN ISO 16137:2006/A1:2019
36.	EN ISO 16138:2006 Industrial valves - Diaphragm valves of thermoplastics materials (ISO 16138:2006) EN ISO 16138:2006/A1:2019
37.	EN ISO 16139:2006 Industrial valves - Gate valves of thermoplastics materials (ISO 16139:2006) EN ISO 16139:2006/A1:2019
38.	EN 16767:2020 Industrial valves - Metallic check valves

▼ M2

No	Reference of the standard
39.	EN ISO 21787:2006 Industrial valves - Globe valves of thermoplastics materials (ISO 21787:2006) EN ISO 21787:2006/A1:2019

▼ M3

40.	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
41.	EN 14222:2021 Stainless steel steam boilers

▼ M4

42.	EN 10216-5:2021 Seamless steel tubes for pressure purposes – Technical delivery conditions – Part 5: Stainless steel tubes
43.	EN 10217-7:2021 Welded steel tubes for pressure purposes – Technical delivery conditions – Part 7: Stainless steel tubes
44.	EN 10222-2:2017+A1:2021 Steel forgings for pressure purposes – Part 2: Ferritic and martensitic steels with specified elevated temperatures properties
45.	EN 10222-4:2017+A1:2021 Steel forgings for pressure purposes – Part 4: Weldable fine grain steels with high proof strength
46.	EN 13445-1:2021 Unfired pressure vessels – Part 1: General
47.	EN 13445-4:2021 Unfired pressure vessels – Part 4: Fabrication
48.	EN 13445-8:2021 Unfired pressure vessels – Part 8: Additional requirements for pressure vessels of aluminium and aluminium alloys
49.	EN 13445-10:2021 Unfired pressure vessels – Part 10: Additional requirements for pressure vessels of nickel and nickel alloys
50.	EN 17278:2021 Natural gas vehicles – Vehicle fuelling appliances

▼ M5

51.	EN 3-8:2021 Portable fire extinguishers - Part 8: Requirements for the construction, pressure resistance and mechanical tests for extinguishers with a maximum allowable pressure equal to or lower than 30 bar, which comply with the requirements of EN 3-7
52.	EN ISO 9712:2022 Non-destructive testing - Qualification and certification of NDT personnel (ISO 9712:2021)

▼ **M5**

No	Reference of the standard
53.	EN 10253-2:2021 Butt-welding pipe fittings - Part 2: Non alloy and ferritic alloy steels with specific inspection requirements
54.	EN 12516-2:2014+A1:2021 Industrial valves - Shell design strength - Part 2: Calculation method for steel valve shells
55.	EN 12952-2:2021 Water-tube boilers and auxiliary installations - Part 2: Materials for pressure parts of boilers and accessories
56.	EN 12952-5:2021 Water-tube boilers and auxiliary installations - Part 5: Workmanship and construction of pressure parts of the boiler
57.	EN 12952-6:2021 Water-tube boilers and auxiliary installations - Part 6: Inspection during construction, documentation and marking of pressure parts of the boiler
58.	EN 12952-10:2021 Water-tube boilers and auxiliary installations - Part 10: Requirements for safety devices against excessive pressure
59.	EN 13121-1:2021 GRP tanks and vessels for use above ground - Part 1: Raw materials - Specification conditions and acceptance criteria
60.	EN 14917:2021 Metal bellows expansion joints for pressure applications
61.	EN ISO 21922:2021 Refrigerating systems and heat pumps - Valves - Requirements, testing and marking (ISO 21922:2021)



ANNEX II

No	Reference of the standard	Date of withdrawal
1.	EN 13445-2:2014 Unfired pressure vessels — Part 2: Materials EN 13445-2:2014/A1:2016 EN 13445-2:2014/A2:2018	30 September 2019
2.	EN 13445-3:2014 Unfired pressure vessels — Part 3: Design EN 13445-3:2014/A1:2015 EN 13445-3:2014/A2:2016 EN 13445-3:2014/A3:2017 EN 13445-3:2014/A4:2018	30 September 2019
3.	EN 13445-5:2014 Unfired pressure vessels — Part 5: Inspection and testing	30 September 2019
4.	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	30 September 2019
5.	EN 13480-2:2017 Metallic industrial piping — Part 2: Materials	30 September 2019
6.	EN 13480-5:2017 Metallic industrial piping — Part 5: Inspection and testing	30 September 2019
7.	EN 1252-2:2001 Cryogenic vessels — Materials — Part 2: Toughness requirements for temperatures between – 80 °C and – 20 °C	30 March 2020
8.	EN 1562:2012 Founding — Malleable cast irons	30 March 2020
9.	EN 1563:2011 Founding — Spheroidal graphite cast irons	30 March 2020
10.	EN 12516-1:2014 Industrial valves — Shell design strength — Part 1: Tabulation method for steel valve shells	30 March 2020
11.	EN 12516-4:2014 Industrial valves — Shell design strength — Part 4: Calculation method for valve shells manufactured in metallic materials other than steel	30 March 2020
12.	EN 13136:2013 Refrigerating systems and heat pumps — Pressure relief devices and their associated piping — Methods for calculation	30 March 2020

▼ B**▼ M1**

No	Reference of the standard	Date of withdrawal
13.	EN 10217-1:2002 Welded steel tubes for pressure purposes – Technical delivery conditions – Part 1: Non-alloy steel tubes with specified room temperature properties EN 10217-1:2002/A1:2005	20 April 2021
14.	EN 10217-2:2002 Welded steel tubes for pressure purposes – Technical delivery conditions – Part 2: Electric welded non-alloy and alloy steel tubes with specified elevated temperature properties EN 10217-2:2002/A1:2005	20 April 2021
15.	EN 10217-3:2002 Welded steel tubes for pressure purposes – Technical delivery conditions – Part 3: Alloy fine grain steel tubes EN 10217-3:2002/A1:2005	20 April 2021
16.	EN 10217-4:2002 Welded steel tubes for pressure purposes – Technical delivery conditions – Part 4: Electric welded non-alloy steel tubes with specified low temperature properties EN 10217-4:2002/A1:2005	20 April 2021
17.	EN 10217-5:2002 Welded steel tubes for pressure purposes – Technical delivery conditions – Part 5: Submerged arc welded non-alloy and alloy steel tubes with specified elevated temperature properties EN 10217-5:2002/A1:2005	20 April 2021
18.	EN 10217-6:2002 Welded steel tubes for pressure purposes – Technical delivery conditions – Part 6: Submerged arc welded non-alloy steel tubes with specified low temperature properties EN 10217-6:2002/A1:2005	20 April 2021
19.	EN 13480-1:2017 Metallic industrial piping – Part 1: General	20 April 2020
20.	EN 13480-6:2017 Metallic industrial piping – Part 6: Additional requirements for buried piping	20 April 2020
21.	EN ISO 4126-1:2013 Safety devices for protection against excessive pressure – Part 1: Safety valves (ISO 4126-1:2013)	20 April 2020
22.	EN 12542:2010 LPG equipment and accessories - Static welded steel cylindrical tanks, serially produced for the storage of Liquefied Petroleum Gas (LPG) having a volume not greater than 13 m ³ - Design and manufacture	10 August 2022

▼ M2

▼ **M2**

No	Reference of the standard	Date of withdrawal
23.	EN 12735-1:2016 Copper and copper alloys - Seamless, round tubes for air conditioning and refrigeration - Part 1: Tubes for piping systems	10 August 2022
24.	EN 12953-5:2002 Shell boilers - Part 5: Inspection during construction, documentation and marking of pressure parts of the boiler	10 August 2022
25.	EN 13175:2014 LPG Equipment and accessories - Specification and testing for Liquefied Petroleum Gas (LPG) pressure vessel valves and fittings	10 August 2022
26.	EN 13480-3:2017 Metallic industrial piping - Part 3: Design and calculation	10 August 2022
27.	EN 14276-1:2006+A1:2011 Pressure equipment for refrigerating systems and heat pumps - Part 1: Vessels - General requirements	10 August 2022
28.	EN 14276-2:2007+A1:2011 Pressure equipment for refrigerating systems and heat pumps - Part 2: Piping - General requirements	10 August 2022
29.	EN 16767:2016 Industrial valves - Steel and cast iron check valves	10 August 2022
30.	EN ISO 15620:2000 Welding - Friction welding of metallic materials (ISO 15620:2000)	10 August 2022
31.	EN ISO 16135:2006 Industrial valves - Ball valves of thermoplastics materials (ISO 16135:2006)	10 August 2022
32.	EN ISO 16136:2006 Industrial valves - Butterfly valves of thermoplastics materials (ISO 16136:2006)	10 August 2022
33.	EN ISO 16137:2006 Industrial valves - Check valves of thermoplastics materials (ISO 16137:2006)	10 August 2022
34.	EN ISO 16138:2006 Industrial valves - Diaphragm valves of thermoplastics materials (ISO 16138:2006)	10 August 2022
35.	EN ISO 16139:2006 Industrial valves - Gate valves of thermoplastics materials (ISO 16139:2006)	10 August 2022
36.	EN ISO 21787:2006 Industrial valves - Globe valves of thermoplastics materials (ISO 21787:2006)	10 August 2022
37.	EN ISO 4126-3:2006 Safety devices for protection against excessive pressure - Part 3: Safety valves and bursting disc safety devices in combination (ISO 4126-3:2006)	10 August 2022
38.	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	12 April 2023
39.	EN 14222:2003 Stainless steel shell boilers	12 April 2023

▼ **M3**

▼B**▼M4**

No	Reference of the standard	Date of withdrawal
40.	EN 10216-5:2013 Seamless steel tubes for pressure purposes – Technical delivery conditions – Part 5: Stainless steel tubes	21 June 2023
41.	EN 10217-7:2014 Welded steel tubes for pressure purposes – Technical delivery conditions – Part 7: Stainless steel tubes	21 June 2023
42.	EN 10222-2:2017 Steel forgings for pressure purposes – Part 2: Ferritic and martensitic steels with specified elevated temperatures properties	21 June 2023
43.	EN 10222-4:2017 Steel forgings for pressure purposes – Part 4: Weldable fine grain steels with high proof strength	21 June 2023
44.	EN 13445-1:2014 Unfired pressure vessels – Part 1: General EN 13445-1:2014/A1:2014	21 June 2023
45.	EN 13445-4:2014 Unfired pressure vessels – Part 4: Fabrication	21 June 2023
46.	EN 13445-8:2014 Unfired pressure vessels – Part 8: Additional requirements for pressure vessels of aluminium and aluminium alloys EN 13445-8:2014/A1:2014	21 June 2023
47.	EN 10253-2:2007 Butt-welding pipe fittings - Part 2: Non alloy and ferritic alloy steels with specific inspection requirements	3.4.2024
48.	EN 12284:2003 Refrigerating systems and heat pumps - Valves - Requirements, testing and marking	3.4.2024
49.	EN 12516-2:2014 Industrial valves - Shell design strength - Part 2: Calculation method for steel valve shells	3.4.2024
50.	EN 12952-10:2002 Water-tube boilers and auxiliary installations - Part 10: Requirements for safeguards against excessive pressure	3.4.2024
51.	EN 12952-2:2011 Water-tube boilers and auxiliary installations - Part 2: Materials for pressure parts of boilers and accessories	3.4.2024
52.	EN 12952-5:2011 Water-tube boilers and auxiliary installations - Part 5: Workmanship and construction of pressure parts of the boiler	3.4.2024
53.	EN 12952-6:2011 Water-tube boilers and auxiliary installations - Part 6: Inspection during construction; documentation and marking of pressure parts of the boiler	3.4.2024

▼M5

▼ **M5**

No	Reference of the standard	Date of withdrawal
54.	EN 13121-1:2003 GRP tanks and vessels for use above ground - Part 1: Raw materials - Specification conditions and acceptance conditions	3.4.2024
55.	EN 14917:2009+A1:2012 Metal bellows expansion joints for pressure applications	3.4.2024
56.	EN 3-8:2006 Portable fire extinguishers - Part 8: Additional requirements to EN 3-7 for the construction, resistance to pressure and mechanical tests for extinguishers with a maximum allowable pressure equal to or lower than 30 bar EN 3-8:2006/AC:2007	3.4.2024
57.	EN ISO 9712:2012 Non-destructive testing - Qualification and certification of NDT personnel (ISO 9712:2012)	3.4.2024