

Simple Pressure Vessels Directive (2014/29/EU)

Full title

Directive 2014/29/EU of the European Parliament and of the Council of 26 February 2014 on the harmonization of the laws of the Member States regarding making available on the market of pressure vessels of simple form (rearrangement)

Pictures



Previous edition

Directive 2009/105/EC of the European Parliament and of the Council of 16 September 2009 on pressure vessels of simple form

Scope

(Article 1(1))

This Directive applies to series-produced pressure vessels of simple form (hereinafter referred to as 'pressure vessels') with the following characteristics⁸:

- (a) the pressure vessels are welded, intended to be subjected to an internal overpressure of more than 0.5 bar and to contain air or nitrogen and are not intended to be subjected to flame loads;
 - b) the parts and connections that are important for the strength of the pressure vessel made of non-alloy quality steel or non-alloy aluminum or aluminum alloys that do not exhibit dispersion hardening;
 - (c) the pressure vessel consists of:
 - i. or a cylindrical portion with a circular cross-section, closed by curved bottoms with the concave side outwards and/or through flat bottoms. This bottoms have the same axis of revolution as the cylindrical part;
 - ii. or two domed bottoms with the same axis of revolution;
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The pressure vessels that are excluded from the scope are covered by the Pressure Equipment Directive. Pressure vessels for a vacuum are not covered by the Simple Form Pressure Vessels Directive nor by the Directive pressure equipment.

d) the maximum operating pressure of the pressure vessel is not more than 30 bar and the product of this pressure and the capacity of the vessel ($PS \times V$) does not exceed 10 000 bar.l;

e) the minimum operating temperature is not lower than -50 °C and the maximum operating temperature does not exceed 300 °C for steel pressure vessels and 100 °C for aluminum pressure vessels or aluminum alloys.

Exceptions (Article 1(2))

This directive does not apply to:

- (a) Pressure vessels specially designed for nuclear use, which, in the event of failure, prevent spreading can cause radioactivity;
 - (b) pressure vessels specially designed for installation on or for the propulsion of ships or aircraft vessels intended are;
 - c) fire extinguishing equipment.
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