

Guideline

8/2

CLAP

FORM N°103

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Directive 97/23/EC

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Proof test

Final assessment

Quantitative requirement

Vessel

Piping

Pressure accessory

Directive references:

Annex I § 3.2.2 - 97/23 EC

Annex I § 7.4 - 97/23 EC

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Subject: ESR on manufacturing – Final assessment of pressure equipment

Question:

Final assessment (Annex I, section 3.2.2) of pressure equipment must include a test for pressure containment at a pressure at least equal, where appropriate, to the value laid down in section 7.4. This section only refers to pressure vessels. Does this mean that 7.4 does not apply to piping, and pressure and safety accessories?

Answer:

In accordance with Annex I, 3.2.2 in the course of the final assessment pressure equipment must be subjected to a test for the pressure containment aspect. As a rule, this test for the pressure containment aspect is supposed to be carried out in the form of a hydrostatic pressure test. Where this is not possible or disadvantageous other procedures are permissible.

The pressure value chosen for carrying out a hydrostatic pressure test must be such as to assure testing the pressure containment aspect of the pressure equipment with due consideration of the determined safety factors without causing a damage to the pressure equipment. Annex I, 7.4 provides additional formulas which may be applied only in due consideration of the above described general criteria (3.2.2). The formulas in Annex I, section 7.4 should be considered for all items of pressure equipment, not only pressure vessels.

Modifications compared to the previous adopted version: Editorial correction on 2004-09-16.