

Directive 2014/68/EU

Adopted by CLAP : 26/11/2020

Directive References: Annex I §3.2.2

Subject: ESR Manufacturing - Final assessment of pressure equipment (golden welds)**Question:**

According to point 3.2.2 of Annex I to the PED, the final assessment of pressure equipment includes a test for the pressure containment aspect. Can this test be carried out several stages on the constitutive components of a pressure equipment?

Answer:

Yes, with the following conditions :

- the test for the pressure containment aspect carried out on the circular welds connecting the components may be harmful or impractical ;
- the procedures for carrying out the component proof tests must include all the loads that would be caused during an overall proof test of the pressure equipment (background effect, rigidity, weight of the fluid, reactions to the supports, etc.).
- Additional non-destructive tests are carried out on these connection welds:
 - type RT or UT at 100% and PT or MT at 100%, using the most severe acceptance criteria required by the technical reference for the equipment considered,
 - provided that each component has first been subjected to the specified proof test.

Insofar as the applied technical reference already includes these requirements, no additional tests are required.

The design shall demonstrate by calculation the ability of the pressure equipment to withstand the overall proof test.