

**Guideline****7/19****CLAP****FORM N°187****Version : 4****Directive 97/23/EC****Keywords :**

Components parts

Pressure equipment

**Directive references:**

Article 1 § 2.1.2 - 97/23 EC

Annex I § 3.1.1 - 97/23 EC

Annex I § 4.3 - 97/23 EC

Annex I § 7.2 - 97/23 EC

**Adopted by WPG:** 19/01/2005**Adopted by CLAP:** 19/01/2005**Subject:** ESR on materials – Component parts of pressure equipment**Question:** Which requirements apply to components, such as dished ends, bolts, flanges, welded fittings etc, which are placed on the market as such?**Answer:** To be incorporated into an item of pressure equipment, components which are manufactured from materials such as plates, coils and bars shall meet all the relevant essential safety requirements related to the manufacturing process used ; for instance in the manufacturing of welded dished ends, sections 3.1 and 7.2 of Annex I are relevant in addition to section 4.

In order to prove the conformity to the PED of the pressure equipment containing the component the equipment manufacturer will need relevant documents from the component supplier :

- Material certificates (of the plates, coils, bars ...),
- and as relevant :
- Welding procedure approvals,
- Welder/welding operator approvals,
- Non Destructive Testing operator qualifications,
- Non Destructive Testing reports,
- Destructive Testing reports,
- Forming and heat treatment information,
- etc.

This information may be in the form of a component certificate. The requirement in Annex I section 4.3 is not however intended for a component manufacturer, who is not a material manufacturer in the context of PED, even if he modifies the mechanical properties of the material. Forgings (including forged flanges), castings and seamless tubes are generally considered to be materials. Fittings made from these "materials" without sub-subsequent welding or other process which could alter the material characteristics are also considered to be materials. As regard welded tubes, see CLAP 1 - guideline 7/25.

Note: Current practice may require components to be delivered with certificates based on standard EN 10204 Metallic products. Types of inspection documents or corresponding requirement when they are placed on the market as such. The PED does not preclude supplying such certificates with components.

See also CLAP 73 – Guideline 1/9, CLAP 125 - Guideline 1/22, CLAP 44 – Guideline 4/3, CLAP 12 – Guideline 7/5, CLAP 84 – Guideline 7/6, CLAP 88 – Guideline 7/8, CLAP 186 – Guideline 7/18 and CLAP 1 – Guideline 7/25.