

**Directive 97/23/CE****Keywords:**

Pressure

Design

Significant factor

Component

**Directive reference:**

Article 1 § 3.10 - 97/23 EC

**Adopted by CLAP:**

24/01/2002

**Subject:** Exclusion – Cartridge mechanical seal**Question:** Does the Pressure Equipment Directive apply to cartridge mechanical seals?**Answer:**

The housing of these cartridges, which can be compared to a casing, is intended to protect and assemble the mechanism, which are included, such as plain and rolling bearings.

This housing is not dimensioned for pressure (see CLAP 42 – guideline 1/11) but primarily for the following parameters:

- rotational speed, mechanical loads, axial displacement;
- machinery kinematics (vibration, flexion, pump dimensions, ...);
- mounting on the machinery to be sealed.

Consequently, exclusion of Article 1 § 3.10 applies.

NOTE: Mechanical seals (components) which do not include pressure housing are excluded de facto from the Directive.

Modifications compared to the previous adopted version: Deletion of the references to WPG and editorial correction on 2004-09-16.