

CLAP

FORM N°X258**Version : 1****Directive 2014/68/EU**

Adopted by CLAP : 10/03/2021

Directive References: Article 1 § 2 (j)

Subject: Exclusion - Mechanical seals**Question:** Are mechanical seals to be considered as pressure equipment according to PED?**Answer:** No.

Mechanical seals are devices that provide dynamic sealing of a rotating shaft with the enclosure of the equipment it passes through: they keep the fluid contained by the equipment inside the equipment. They consist of a rotating element (rotor) linked to the rotating shaft and a fixed element (stator) linked to the enclosure of the equipment (housing).

The mechanical seals do not have a pressurized envelope and are therefore excluded from PED.

These mechanical seals can be delivered in cartridges, in the form of blocks set at factory and ready to be fitted without any adjustment. These cartridges help to prevent installation errors, to reduce downtime and to prevent damage to rotating and stationary components.

These cartridges fall under the exclusion of Article 1 § 2 (j), because they are not dimensioned for pressure (see CLAP X017 – PED Guideline A-11), but mainly to take into account the following operating parameters:

- speed of rotation, mechanical loads, axial displacement,
- kinematics of the equipment (vibration, bending, etc.),
- mounting on the equipment to be sealed.