

Reference No: CABF-R-052	Conformity Assessment Bodies Forum PED/SPVD (CABF) CABF
Relation to PED: PED Article 13	CABF Recommendation
Question:	How to determine the PS and the category of a pressure equipment containing either only a liquid at a maximum pressure P1, or only a gas (for example, for inserting or emptying) at a maximum pressure P2?
Answer:	The pressure PS of the equipment is the maximum value of the pressures P1 and P2 according to Article 2, item 8. The category of the equipment is determined, on the basis of reasonably foreseeable conditions, by retaining the highest category, taking into account the pressure P1 considering the use in liquid and the pressure P2 considering the use in gas. The manufacturer shall clearly state in his instruction manual that the end user must take appropriate precautions to avoid using liquid above the pressure P1 and gas above the pressure P2. The marking and labelling (on the pressure equipment or data plate) shall also include a warning highlighting the particularities of using this equipment.
Reason:	For example, a vessel is designed for use: - Group 2 liquids only, at a maximum pressure P1 of 500 bar, - gas (nitrogen) at a maximum pressure P2 of 4 bar for inerting operations. Fluids are not mixed. Without ambiguity, it is based on the highest-pressure value (P1). PS pressure is 500 bars. The classification is based on the reasonably foreseeable conditions of use of the vessel whichever is higher: • use with a group 2 liquid at a maximal pressure of 500 bars (PS). Based on table 4, the category would be category I or lower • use of group 2 gas (nitrogen) at a maximal pressure of 4 bars. Based on table 2, the category would be category III or lower The vessel is a category III vessel according to PED Article 13 (2)
Original Reference:	TRG 158 Rev 1
Approved by CABF on: 2025-07-01/02	
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