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		Article 9 § 1 and § 3 - 97/23			
Directive references:			EC	Article 3 § 1.1 -	
			Article 1 § 2.1.1 - 97/23 EC	Annex I § 2.2.23 97/23 EC	
Adopted by WPG: 31/03/2006			Adopted by CLAP:	31/03/2006	
Subject:	Classification – Vessels made of several "compartments"				
Question:	Do two housings, designed to contain fluids under pressure and which have a common boundary (e.g. separating wall), constitute two vessels, or two chambers of the same vessel and what requirements apply to such an item of pressure equipment?				
Answer:	<ul> <li>They constitute two chambers of the same vessel.</li> <li>Technical requirements and conformity assessment procedure to be applied are determined as follows: <ul> <li>each chamber will be classified according to Article 3 § 1.1 and Article 9 § 1. This establishes the technical requirements for each chamber.</li> <li>the conformity assessment procedure to be applied to the whole vessel is based on the highest category of the chambers.</li> </ul> </li> <li>The technical requirements to be applied to the common boundary are those of the highest category of the two chambers.</li> <li>Hazard analysis of individual chambers must take account of the effect of any perceived hazard on the vessel as a whole.</li> <li>The marking shall include the limits of the two chambers even if the limits of one chamber do not exceed the limits of Article 3 § 1.1.</li> <li>Reason: If a vessel is composed of a number of chambers each individual chamber must be first classified. The classification and the technical requirements of each individual chamber are based to Article 3 § 1.1 and Article 9 § 1. The conformity assessment procedure to be applied to the whole vessel is determined by the highest category.</li> </ul> Examples: <ul> <li>A refrigerant heat exchanger that has water in tube or shell side,</li> <li>A valve body or a pipe with heating or cooling jacket that has a small volume.</li> </ul> NOTE 1: Sound engineering practice can be applied as technical requirement for a chamber that does not exceed relevant limit of Article 3 § 1.1. NOTE 2: Refer to CLAP 74 - Guideline 1/13 for those cases where maximum allowable pressure of a chamber does not exceed 0,5 bar.				