



Product Note, PN 304, Revision 3 Pressure Equipment Directive and AP Tech Products

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Introduction

On 15 May 2014, directive 2014/68/EU of the European Parliament (recast) was issued regarding pressure equipment. This directive is commonly called the “Pressure Equipment Directive” (PED). AP Tech manufactures products for sale in European countries that fall under the category of “pressure accessories” in the PED.

Directive Interpretation

The PED divides fluids (“fluids” includes gases and liquids) into two groups—Group 1 and Group 2 [Article 13]. Group 1 consists of hazardous fluids that are flammable, toxic, corrosive, etc. and Group 2 consists of other fluids. While the end use of products is unknown to AP Tech, products are commonly used with Group 1 fluids.

AP Tech products include pressure regulators, valves, check valves, vacuum generators, and flow switches for use in gaseous service piping systems with pressure up to 690 bar (10,000 psig). By definition, these are **Pressure Accessories** because they have operational function with a pressure-bearing housing [Article 2, (5)]. They are integrated into a piping system intended for the transport of fluids. As such, AP Tech products are included in the definition of **Piping** [Article 2, (3)]. Therefore, conformity is assessed using **Table 6 for Group 1 fluids** and **Table 7 for Group 2 fluids** in PED Annex II.

The nominal size of AP Tech products is 25 mm (1.0 inch) or less with the exception of those listed in the table below. Due to their nominal size, CE marking and conformity assessment are not required for AP Tech branded products per Article 4 paragraph 3 [Article 4, paragraph 1 (c) and Annex II, Table 6]. The PED requires that these products are (1) manufactured using sound engineering practices of an EU Member State, (2) accompanied by instructions for use, and (3) are **not** CE marked.

AP Tech products listed below with a nominal size of 25 mm (1.0 inch) or less also do not require CE marking as described above. If used in Group 2 service and below 18 bar (250 psig) items listed below do not require CE marking because the largest size available is 37 mm (1.5 inch) [Article 4, paragraph 1 (c) and Annex II, Table 7]. Items listed below with nominal connections larger than 25 mm (1.0 inch) used for Group 1 service require conformity assessment.

Products **not** covered by the Declaration of Conformity if equipped with > 25mm (1 inch) connectors:

Series	Model - device	Series	Model - device
AP	3700 - valve (monoblock)	AP	9000 - regulator
AP	3800 - valve (monoblock)	AP	90PA - regulator
AP	3900 - valve (monoblock)	AZ	9200 - regulator
AP	74B - flow switch	BZ	91 - valve (bellows)

Conclusion

A review of the Pressure Equipment Directive has determined that: (1) AP Tech branded products except for those listed in the above table with a nominal size greater than 25 mm (1.0 inch) do not require CE marking. (2) Listed items with nominal size greater than 25 mm (1 inch) used in Group 2 service below 18 bar (250 psig) do not require CE marking. (3) Listed items with nominal size connections greater than 25 mm (1.0 inch) are not acceptable for Group 1 service.