

Difference between Category definition between TR CU 032/2013 and European directive 97/23 / EC (PED)

It should be noted that this graphical representation of the requirements TR CU 032/2013 to categories allowed to reveal some issues in definition of the category . It is well known that the European directive 97/23 / EC was taken as the basis during the development of TR CU 032/2013. At first sight there is no differences regarding the categorization of the equipment but unfortunately in TR CU 032/2013 requirements for certain types of equipment are presented in the form of functions with several conditions, and in the PED requirements are presented in the form of charts: category is defined by coordinates (volume capacity, diameter pressure).

Differences between the TR CU 032/2013 and the PED (European directive 97/23) are presented in the table below:

by Technical Regulations TR CU 032/2013	by the European Directive 97/23/EC(PED)
Gas/steam pipelines of group 2 with DN more than 200 to 250 mm, with PN 2.5 to 3.2 MPa (excluding the impact of the rated temperature) - Category is not determined.	Category for steam pipelines of group 2 with DN more than 200 to DN 250 mm, PN 25 to 32 bar (excluding the impact of the rated temperature)- Category 2.
Gas pipelines of group 1 with DN more than 350 mm, with PN 1.0 to 3.5 MPa (excluding the impact of the rated temperature) - Category is not determined.	Category for gas pipelines of group 1 with DN more than 350 mm, PN 10 to 35 bar (excluding the impact of the rated temperature)- Category 3.
Vessels with the operating environment - fluid of group 2, volume from 0.0001 to 0,01m ³ (excluding the impact of the rated temperature),max. pressure than 100 MPa - Category 2.	Category for vessels the operating environment - fluid of group 2, volume 1 to 10 liters (excluding the impact of the rated temperature),max. pressure over 1000 bar - Category 1.
Hot water boilers, steam generators and fired heated pressure vessels - with volume more 0,01 to 0,05	Hot water boilers, steam generators and fired heated pressure vessels - with volume more 10 to 50 liters

m³ included, with max pressure more 3,2 MPa to 5,9 MPa included -

Category is not determined.

- with volume more 0,05 to 0,09 m³ included, with max pressure more 3,2 MPa to 3,33 MPa included -

Category is not determined.

included, with max pressure more 32 bar to 59 bar included - **Category 4.**

- with volume more 50 to 90 liters included, with max pressure more 32 bar to 33,3 bar included - **Category 4.**