



Valves TR CU certification





Preliminary compliance verification for pressure equipment

The first preliminary phase for certifying valves involves the gathering of diameters, relative maximum working pressure and working fluid in order to assess the categorie of risk and therefore the necessity to withstand the requirements of the regulation TR CU 032/2013



Categories of pipelines intended for gases Group 1 (dangerous)

Categories of equipment	Group of working environment	Nominal diameter	The product of the maximum allowable operating pressure multiplied by the value of the nominal diameter, MPa	Maximum allowable operating pressure MPa
I	Group 1	Over 25 to 100 inclusive	Not standardized	Over 0.05 to 1 inclusive
		Over 25 to 100 inclusive	Up to 100 inclusive	Over 1 to 3.5 inclusive
Over 100 to 350		Not standardized	Over 0.05 to 1 inclusive	
Over 25 to 350		Over 100 to 350 inclusive	Over 1 to 3.5 inclusive	
Over 25 to 100		Not standardized	Over 3.5	
Over 350		Not standardized	Over 0.05 to 1 inclusive	
III	Over 100 to 350 inclusive	Over 350	Over 1 to 3.5 inclusive	
	Over 100	Not standardized	Over 3.5	

Categories of pipelines intended for gases Group 2 (not dangerous)

Categories of equipment	Group of working environment	Nominal diameter	The product of the maximum allowable operating pressure multiplied by the value of the nominal diameter, MPa	Maximum allowable operating pressure MPa
I	Group 2	Over 32	Over 100 to 350 inclusive	Over 0.05 to 3.2 inclusive
		Over 32 to 100 inclusive	Not standardized	Over 3.2
II	Group 2	Over 100	Over 350 to 500 inclusive	Over 0.05 to 3.2 inclusive
		Over 100 to 250 inclusive	Not standardized	Over 3.2
III	Group 2	Over 250		Over 3.2
		Over 250	Over 500	Over 0.05 to 3.2 inclusive



Categories of pipelines intended for liquids Group 1 (dangerous)

Categories of equipment	Group of working environment	Nominal diameter	The product of the maximum allowable operating pressure multiplied by the value of the nominal diameter, MPa	Maximum allowable operating pressure MPa
I	Group 1	Over 25	Over 200	Over 0.05 to 1 inclusive
II		Over 25	Over 200	Over 1 to 8 inclusive
		Over 25	Over 350	Over 8 to 50 inclusive
III		Over 25	Not standardized	Over 50

Categories of pipelines intended for liquids Group 2 (dangerous)

Categories of equipment	Group of working environment	Nominal diameter	The product of the maximum allowable operating pressure multiplied by the value of the nominal diameter, MPa	Maximum allowable operating pressure MPa
I	Group 2	Over 200	Over 500	Over 1 to 50 inclusive
II		Over 200	Not standardized	Over 50

Preliminary compliance verification for installation requirements

The preliminary second phase for certifying valves involves the gathering of supplemental requests by the user, according to the legislation, local authorities and the risk assessment of the installation.

These requests may include:

- Welding identification and testing;
- Scheme of certification ==> 1d (non accredited laboratory), 3d (accredited laboratory), 5d (high risk installations)

Preparation of support documentation for valves not under pressure regulation

All valves, notwithstanding their classification in terms of risk related to pressure, must attain a declaration or a certificate EAC according to the regulation TR CU 010/2011 (Safety of machinery), in order to be considered suitable for importation and use inside the Eurasian Custom Union. If the valve is suited with

The minimal necessary documents to apply for this certification are:

- Safety product passport
- User's manual in Russian language
- Safety justification



Passport and justification of safety

The safety passport is a documents issued by the producer, primarily in Russian language, reporting the main characteristics of the product, materials, details about the production process and testing. The Passport for valves must be issued according to regulation Gost 34612-2019.

The Justification of safety is a documents issued by the producer, it should include:

- drawings, specifications;
- calculations;
- test methods and risk assessment;
- test reports

Both documents are necessary to be able to apply for any EAC certification



Election of an applicant

All the EAC certifications must be required by a company resident on the territory of one of the members of the Custom Union (Russia, Belarus, Kazakhstan, Armenia, Kirgizistan).

Foreign producers are therefore require to have a branch in one of the countries of the Union or rely on a partner sponsoring the