

The method for implosion protection in operation of gas-transportation system comprises the gas transfer through the flame-arresting element packed with the stationary layer of the catalyst taken in the amount sufficient for at least 0.55 conversion ratio at the operating temperature of the catalyst. The rate of the thermal distribution of the area of catalytic oxidation is assessed. The ratio of the gas flow in the flame-arresting element under the normal conditions to the rate of the thermal distribution of the area of catalytic oxidation is restricted. The gas is flowed through the flame-arresting element packed with two granular catalyst beds with the equivalent canal diameter of the first bed being superior to the critical one for the transported combustible mixture while the equivalent canal diameter of the second bed being inferior to the critical value. The amount of the second catalyst bed is no less than 5% of the amount of the first bed.