VSB TECHNICAL UNIVERSITY OF OSTRAVA | FACULTY OF SAFETY ENGINEERING

Explosion Autoclave VA 250 l

SPECIFICATIONS

The VA-250 explosion autoclave has a combustion chamber volume of 250 l and is intended for determining the explosion parameters of flammable gases, vapours of flammable liquids and flammable dusts, or their combinations. Explosion parameters can be determined both under standard conditions and at elevated initial temperatures, which may better correspond to the conditions in practice.

MEASURING METHODS

As this is not a normative device, but a device designed by the Faculty of Safety Engineering, we work on a device according to procedures developed on the basis of normative requirements.

OVERVIEW OF MEASURABLE PARAMETERS / OUTPUT INFORMATION

Lower explosive limit LEL, upper explosive limit UEL (gases and vapours only), maximum explosion pressure, maximum rate of increase of explosion pressure, cubic constant, limiting oxygen concentration LOC.

TYPES OF SAMPLES SUITABLE FOR ANALYSIS / MEASUREMENT CONDITIONS

It is possible to determine explosion parameters of flammable gases, vapours of flammable liquids, flammable dusts, or their combinations. Measurements can be performed both under standard laboratory conditions and at elevated initial temperatures up to about 250 °C.

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