EUROPEAN STANDARD

Group of Companies
ISTOCHNIK
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FIRE EXTINGUISHING SYSTEMS

GENERATORS OF GAS FIRE EXTINGUISHING

TUNGUS

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NEW DEVELOPMENTS IN GAS FIRE EXTINGUISHING

RAPID AND EFFICIENT SEATS OF FIRE EXTINGUISHING

ISTOCHNIK Group of Companies contact information:

1, Socialisticheskaya St., Biysk,
Altay region, 659322, Russia
Tel./fax: +7-3854-30-58-59, 30-10-46,
30-58-30, 30-33-64
antifire@inbox.ru, svfire@yandex.ru

Finished-products warehouse in Moscow:

6, Kotlyakovskaya St., Moscow, Russia
Tel.: +7-495-768-43-37, tungus.msk@mail.ru

BIYSK
Science center of Russia
300

Generators of gas fire extinguishing are purposed for automatical and autonomous suppression in volume of fire sites class A (solid substances), B (liquid substances), and E (electrical equipment under tension).

1) GGFE is a compact small-sized device which is allowed to install in any place of volume protected and in any orientation in space.
2) There's no need to make capital works, piping, complex valve system for GGFE launching and gaseous substance supply into protected volume.
3) There is no pressure inside GGFE frame during its service in the object, therefore there's no need of continuous control of gaseous firefighting substance leakage from a frame, as it is necessary in standard gas fire-extinguishing systems. GGFE itself is not exposed to supervision under Rostechnadzor services.
4) Owing to double cleaning gaseous firefighting substance enters the volume protected with total lack of mechanical impurities.
5) GGFE cartridge is actuated from electrical impulse of low power (operating current is 0.12 A). Electrical connection of cartridges in GGFE is parallel.
6) GGFE fixed operation life is 10 years without routine maintenance.
7) There is no kickback force during GGFE actuation therefore there's no need of special measures during device installation in the object.
8) The possibility of premises protection, the volume of which is higher than GGFE firefighting ability, by means of simultaneous launch of several GGFE devices (till 20 items inclusive) without any need of piping.
9) Gaseous firefighting substance does not have any bad effect on electronics workability; it is confirmed by internal full-scale testings.
10) The ability of GGFE application as an autonomous firefighting mean together with widely used, reasonably priced electronic launching units purposed for autonomous fire-extinguishing sets, electric launching parameters of which are not lower than the value of GGFE operating current.
11) Volume fraction content of GGFE gaseous firefighting substance main components: CO_2 – 37.5%, N_2 – 22.5%, H_2O – 29.1%.
12) Temperature operation range: -30…+50 °C.

GGFE-1.0

Overall dimensions: diameter – 106 mm,
height – 340 mm;
Total weight, not more than – 5.5 kg;
Protected volume for extinguishing fire of A2 subclass, B class in premises with nonhermeticity parameter 0.044 m^{-1} – 1.0 m^3;
Protected volume for extinguishing fire of A2 subclass, B class in case of simultaneous launch of 20 GGFE items (nonhermeticity parameter of premises – 0.044 m^{-1}) – 20.0 m^3.

GGFE-3.0

Overall dimensions: height – 315 mm,
length – 340 mm, width – 302 mm;
Total weight, not more than – 7.8 kg;
Protected volume for extinguishing fire of A2 subclass, B class in premises with nonhermeticity parameter 0.044 m^{-1} – 3.0 m^3;
Protected volume for extinguishing fire of A2 subclass, B class in case of simultaneous launch of 20 GGFE items (nonhermeticity parameter of premises – 0.018 m^{-1}) – 60.0 m^3.

GGFE-7.0

Overall dimensions: diameter – 238 mm,
height – 315 mm, length – 340 mm, width – 302 mm;
Total weight, not more than – 20 kg;
Protected volume for extinguishing fire of A2 subclass, B class in premises with nonhermeticity parameter 0.044 m^{-1} – 7.0 m^3;
Protected volume for extinguishing fire of A2 subclass, B class in case of simultaneous launch of 20 GGFE items (nonhermeticity parameter of premises – 0.014 m^{-1}) – 140.0 m^3.