



УПАТ-800 (the volume of fire extinguishing liquid - 800 l)



УПАТ-2000 (the volume of fire extinguishing liquid - 2000 l)



UPAT-7500 (the volume of fire extinguishing liquid – 7500 l)

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1. Purpose and application

Stand-alone solid propellant fire extinguishing installations UPAT are intended for suppression of classes "A" and "B" fire.

They are used for fire protection of the following facilities: thermoelectric power stations; hydroelectric stations; enterprises that extract and process mineral raw materials, oil and gas; administrative and public buildings with mass stay of people, including hotels; they are also used for liquidation of forest fires.

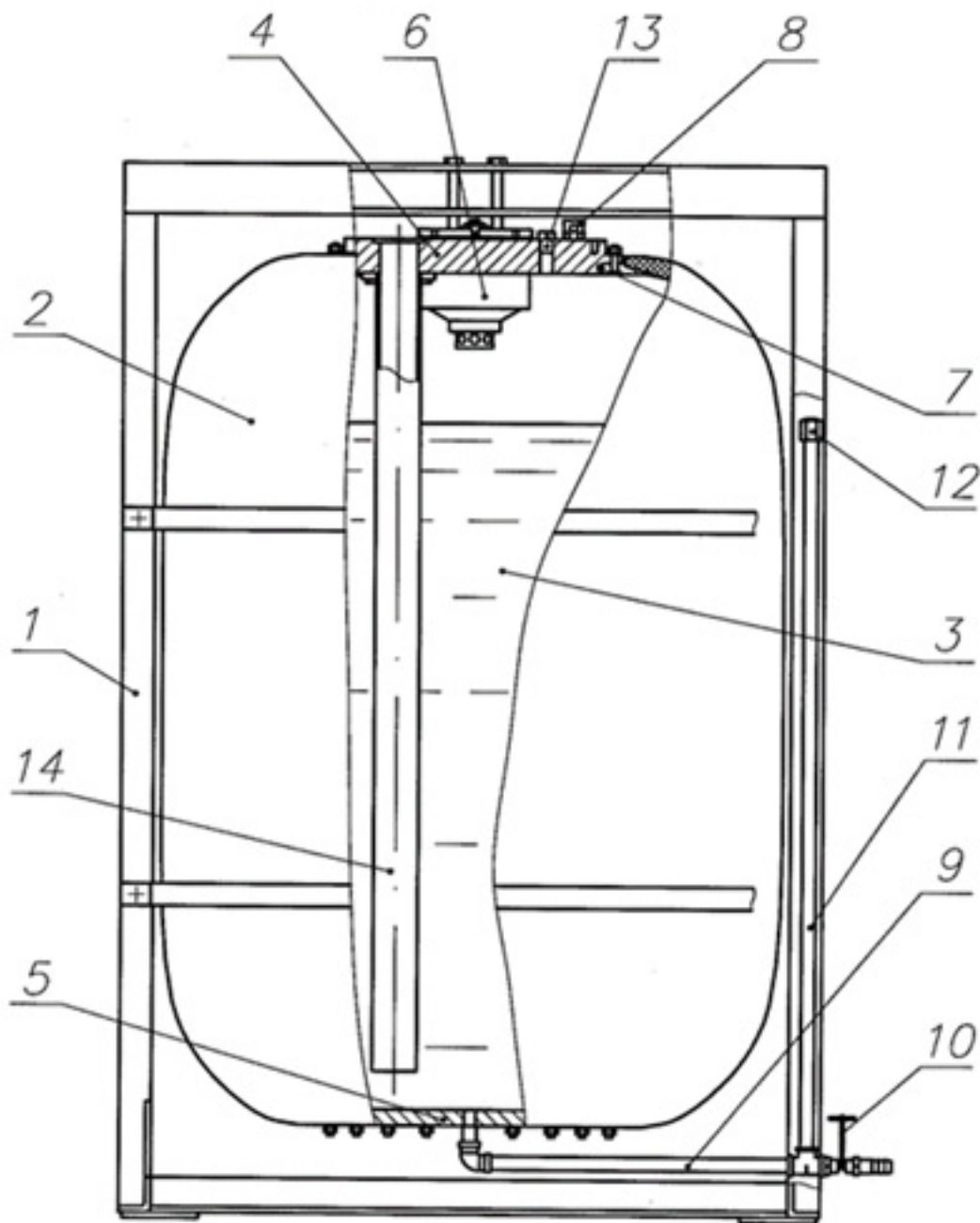
UPAT - stationary systems and installations, which are designed to be placed in the industrial premises or in the separate bunkers, banded or deepened. They are activated manually, from the start button, or automatically from an electrical signal given by a fire detection sensor.

These systems can be placed in different vehicles on tracks or wheeled chassis, passenger or freight railway cars, sea or river vessels, planes, external suspension of helicopters.

2. Design and operation mechanism

A stand-alone solid propellant fire extinguishing installation UPAT consists of a container made of the composite material and a solid propellant gas generator.

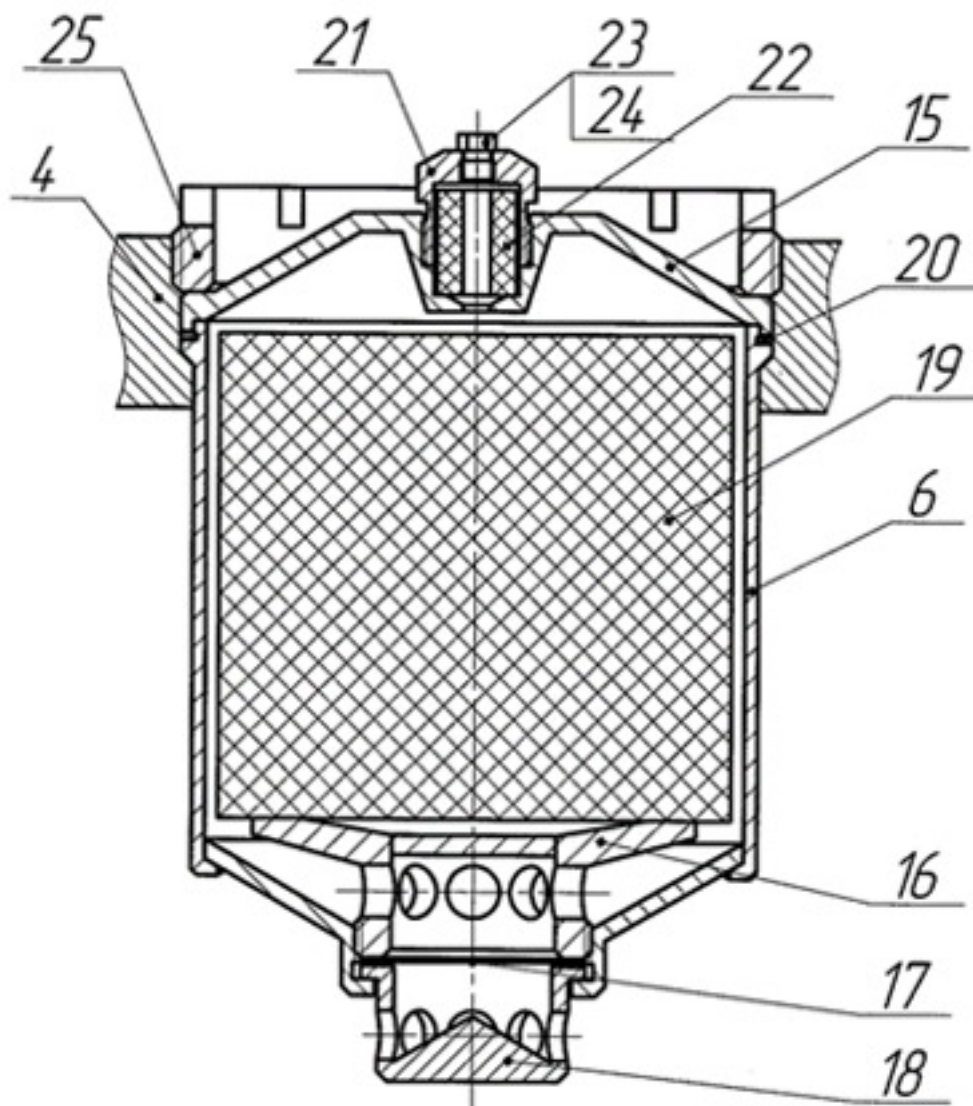
The operation mechanism of the device is based on the principle of displacement of fire extinguishing agent (water, salt solution or foaming agent) under the pressure influence in the container, generated when the solid propellant gas generator is activated (see Fig.1).



- | | |
|-----------------------------|-------------------------|
| 1 - Подставка | 8 - Клапан |
| 2 - Емкость | 9 - Труба (заправочная) |
| 3 - Огнетушащая жидкость | 10 - Кран шаровой |
| 4 - Переходник | 11 - Труба (водомерная) |
| 5 - Крышка нижняя | 12 - Гайка колпачковая |
| 6 - Камера газогенератора | 13 - Пробка |
| 7 - Кольцо (уплотнительное) | 14 - Труба выпускная |

Figure 1 - Scheme of UPAT

The source of pressure in the installations are gaseous combustion products of special solid heterogeneous compositions, burning at the moment of fire occurrence, automatically from electric signal, coming from the fire detector, or manually (see Fig.2).



- | | |
|-----------------------------------|--|
| 4 – Переходник | 20 – Кольцо (уплотнительное) |
| 6 – Камера газогенератора | 21 – Колпачок |
| 15 – Крышка камеры газогенератора | 22 – Элемент аэрозольобразующий (воспламенитель) |
| 16 – Опора | 23 – Заглушка |
| 17 – Мембрана изолирующая | 24 – Электроинициатор |
| 18 – Рассекатель | 25 – Гайка камеры |
| 19 – Изделие основное | |

Рисунок 2 – Газогенератор

3. Specifications

3.1. Main specifications

Specifications	UPAT-800	UPAT-2000	UPAT-7500
The volume of fire extinguishing liquid, l	800	2000	7500
Weight of the charged system, kg	200	300	1000
Warm up time, s	0,5-2,0	0,5-3,0	1,0-3,5
The liquid feed intensity, l/s	5-50	20-100	50-300
Pressure of liquid displacement, MPa	0,2-3,0	0,2-3,0	0,2-3,0
How many times can be used before maintenance	20	20	15
The time of recharge, h, no more	0,5	0,5	1
The occupied area, m ²	1,0	1,8	5,4

3.2. Temperature range of operation with water: 0...+50 °C.

3.3. Operation period: 10 years.

3.4. Types of activation:

- electric - from a signal from the control panel;
- manually - from the device with a percussion cap.

Any type of sensors (smoke, heat, optical), as well as control and manage devices, including [optical sensors MDP](#) and [modular control and activation devices PPKP-M](#) (see the catalog of the civil use products of FGUP "FCDT "Soyuz"), can be used for detection of fire and activation of UPAT installations.

4. Distinctive features

- Stand-alone by fire extinguishing liquid and means of activation from fixed networks.
- Absence of pumps and engines for their drive.
- Absence of pressure and voltage in the installation and its

elements in a standby mode.

- Possibility to control the consumption of liquid and pressure, including fire suppression by atomized water.
- Application of water solutions, inhibiting substances and foaming agents as fire extinguishing liquids.
- Warm up time is within 2-5 seconds, depending on their capacity.
- Simultaneous maintenance of several sections of protection of the facility.
- Multiple use.
- Constant readiness to work within 10 years.
- High reliability, safety and simplicity of operation.
- Minimal maintenance.
- UPAT installations can be used as stand-alone fire extinguishers as well as a part of fire extinguishing systems.

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