Manufacturer: JSC «POZHTECHNIKA» Belarus, 210602, Vitebsk, M. Gorky Str., 145, ptc01.com

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OPERATING MANUAL PBAK.634233.027 RE

MOBILE POWDER FIRE EXTINGUISHER MIG E

Manufacturer's warranty	The service life of fire extinguisher	Refilling period – every
4 YEARS	15 YEARS	5 YEARS

THANK YOU FOR BUYING MOBILE POWDER FIRE EXTINGUISHER "MIG E ®"

MIG E ® mobile powder fire extinguishers are manufactured in accordance with Belarus and Russian standards of safety and quality and meet the most stringent requirements for the fire protection means.
All mobile **MIG E ®** powder fire extinguishers are manufactured from reliable components and are charged with high-quality extinguishing media under the continuous supervision of qualified specialists.
You have purchased a mobile fire extinguisher of professional designation designed to suppress and localize fires in oil refineries, oil and gas production and chemical enterprises, airports, transport and military facilities.
The fire extinguisher **MIG E ®** is perfect for protecting your house or household structures on your site since it has a set of important functional characteristics:

EFFECTIVE – capable to extinguish solid combustible materials, flammable liquid and electrical equipment up to 1000 V;

ALL-WEATHER – can be stored and used in outdoor conditions year-round at a temperature range -50 °C... +50 °C;

ALWAYS READY FOR USAGE – the body of a fire extinguisher is always pressurized; monitoring of operation is carried out by pressure indicator;

MOBILE – due to an ergonomic trolley, it rolls effortlessly over long distances and easily manages to overcome obstacles;

Read the Operating Manual carefully before using the mobile fire extinguisher. Please keep this Manual for the duration of use.

Fire extinguishers must be repaired and recharged only in specialized organizations with all necessary licenses and permits and only in accordance with the technical documentation of the manufacturer.

WARNING! The opening or disassembly of mobile fire extinguishers by persons who do not have the appropriate licenses and permits is strictly prohibited.

This operating manual presents information on the design and functions of powder mobile fire extinguishers MIG E and as a reference guide for cases of its intended usage.

A sample identification code to order the fire extinguisher: Powder Mobile Fire Extinguisher OP-50-ABCE MIG E O2 or OP-50-ABCE MIG E OM2 (for anticorrosion model)

1. INTENDED USE

1.1 Powder mobile fire extinguishers MIG are designed for installation in agencies and units of emergency situations, as safety equipment for companies and institutions of national economy, vehicles, and in domestic environments as primary fire protection equipment for fires of class A(solid combustible materials), class B (Flammable Liquid), class C (Flammable Gas) and class E (Electrical Equipment up to up to 1000 V).

1.2 The fire extinguishers are not designed for alkali and alkaline earth metal fires that can burn with no airflow.

2. TECHNICAL CHARACTERISTICS

2.1 Technical characteristics are presented in Table 1.

Table 1 – Technical Characteristics

Parameter name /Value	OP-50 MIG E
1. Firefighting agent (powder) weight, kg	50±2,5
2. Firefighting agent stream length, m, no less than	6,0
3. Firefighting agent stream duration, s, no less than	20
4. Fire extinguishing capacity: class A class B	 15A 233B-3
5. Operating pressure, MPa	1,2±0,1
6. Operating and storage temperature range, °C	-50... +50
7. Date of the next recharging, years, no more than	5
8. Service life, years	15
9. Weight of the fire extinguisher in running order, kg	72±8
10. Dimensions, mm, not more than: height cylinder diameter	 1250 330
11.Capacity (volume) of the fire extinguisher cylinder, l	62±3,1

3. DELIVERY SET

3.1 The delivery set is specified in Table 2.

Table 2 – Delivery set.

Item name	OP-50 MIG E	Quantity
Fire extinguisher	+	1
Flexible hose with discharge nozzle	+	1
Operating Manual	+	1
Trolley	+	1

3.2 If the fire extinguisher shipped disassembled, the flexible hose with discharge nozzle shall be connected to the fire extinguisher lock and release device (hereinafter referred to as LRD).

4. DESIGN

4.1 Fire extinguisher design is shown in the Figure 1.

The fire extinguisher consists of a body 2 with LRD 1 screwed in its neck with a siphon tube 3. A flexible hose 4 is connected to the outlet of the LRD.

The pressure indicator on the LRD has a filtering element, which ensures the isolation of the fire extinguishing agent from the indicator.

The fire extinguisher is charged with dried air with a water vapor content of not more than 0.006% by weight.

4.2 The fire extinguisher is disassembled from the trolley (for repair etc.) by loosening the bolts and nuts securing the clamps. (see Figure 1)

4.3 The Manufacturer reserves the right to make product design changes that have no impact on its basic technical characteristics.

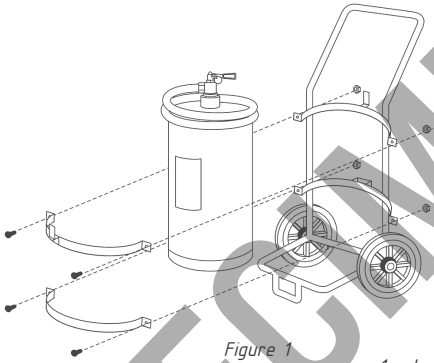


Figure 1

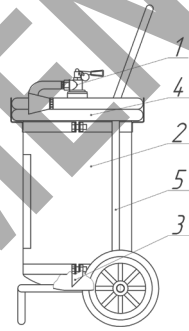


Figure 2

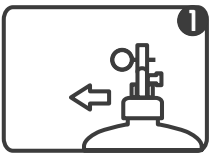
1 – lock and release device,
2 – body, 3 – syphon tube,
4 – flexible hose with a spray-gun,
5 – detachable trolley.

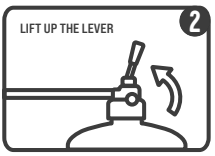
5. OPERATING PRINCIPLE

5.1 When the user removes the pin and presses onto the LRD top handle, presses a spray-gun trigger (if any) the LRD valve is opened and the pressurized fire extinguishing agent (powder) goes through the syphon tube, the LRD, and the sprayer onto the center of ignition. To stop the agent stream, LRD top handle or spray-gun trigger (if any) should be returned to its initial position.

5.2 It is recommended to start extinguishing fire from a distance of 4-6 m.

WARNING: When the fire extinguisher is in operation, strong recoil is possible.





6. FIRE EXTINGUISHING PROCEDURE

6.1 Outdoor fires must be extinguished on the windward side.

6.2 Firefighting agent stream should be directed to the flame base. Operate with a flexible hose in such a way that the powder coating of the entire burning surface is provided and the greatest concentration of powder in the combustion zone is created.

6.3 Extinguishing of the fires of all electrical systems up to 1000 V shall be done at a distance not less than 1 meter between the extinguisher discharge nozzle and the live parts.

7. SAFETY MEASURES

7.1 Persons working with a firefighting agent when charging fire extinguishers must comply with the safety and personal hygiene requirements set out in the ND for extinguishing agents.

7.2 Premises used for works on the charging with firefighting agent should be equipped with forced-air and exhaust ventilation in accordance with GOST 12.4.021, lighting according to SNB 2.04.05-98 and heating according to SNB 4.02.01-03.

7.3 Do not use extinguishers to extinguish equipment which can cause its malfunction if the powder hits (computers, electronic equipment, etc.).

7.4 Fire extinguishers may be used to extinguish electrical fires at 1000 V from the distance of at least 1 m.

7.5 DO NOT:

- use fire extinguishers if they have dents, bulges and cracks on the fire extinguisher cylinder or the lock and release device, or when the structural integrity of the LRD or the cylinder is compromised or with an inoperable pressure indicator;
- perform any maintenance when the fire extinguisher cylinder is pressurized;
- hit the fire extinguisher;
- direct the firefighting agent stream towards people standing nearby;

8. OPERATION PROCEDURE

8.1 Fire extinguisher activation procedure described on the label.

8.2 Fire extinguisher users must be familiar with the rules of operation and use of fire extinguishers.

8.3 Operating temperature range is specified in the Table 1.

8.4 Fire extinguishers must be stored and used in strict compliance with TKP 295-2011 technical operation rules, GOST 12.4.009 and GOST-R 59641-2021 standards and technical specifications, Rules of industrial safety when using equipment operating under excessive pressure and this manual.

8.5 Fire extinguishers must be located on the protected facility in such a way that ensures they are protected from direct sunlight, heat flow, mechanical impact and other adverse factors – vibrations, corrosive media, excess moisture, etc.

8.6 Fire extinguishers must be clearly visible and easily accessible in case of a fire.

8.7 Fire extinguishers must not be installed in locations where temperatures are beyond the temperature range specified on the fire extinguisher.

8.8 A maintenance log card shall be created for each fire extinguisher installed at the facility (commissioned), with the corresponding entry made therein.

Each fire extinguisher shall be assigned a serial number, which is to be marked on the extinguisher itself. A corresponding entry regarding the commissioning of the extinguisher shall be made in the Fire Protection Systems Operation Logbook of the facility.

8.9 Fire extinguishers must undergo regular maintenance inspections.

8.10 Regular inspection is necessary to check the condition of fire extinguishers, to control installation locations and that the fire extinguishers are properly secured, that they can be easily approached, and that operating instructions for fire extinguishers positioned correctly and legible.

8.11 Inspections and condition assessments of fire extinguishers shall be carried out by licensed organizations or certified individual contractors authorized to perform such work under applicable law. These inspections must be conducted at least once a year.

8.12 Inspections shall include a visual check and verification for any leakage of the propellant gas. All findings and actions taken must be documented in the fire protection system maintenance log.

Fire extinguishers must be decommissioned and sent to specialized organizations for maintenance (repairs, recharging) in case any of the following irregularities have been found: dents, chips or deep cracks on the cylinder or the lock and release device of the fire extinguisher; considerable damage done to protective and paint-and-lacquer coating; absence of clear and understandable labeling; absence of stamps for fire extinguishing cylinder reexamination; absence of a seal or pin; unsatisfactory condition of the firefighting agent sprayer: signs of mechanical damage, corrosion, welding burr or other factors preventing firefighting agent from being released from the fire extinguisher freely; any firefighting agent leak.

Expelling gas leakage from the extinguisher can be controlled by the position of the arrow of the pressure indicator, which should be in the green sector of the scale.

8.13 In facilities of high fire risk (A-class rooms) or in case fire extinguishers are subject to such adverse factors as positive or negative temperatures approaching limit values (more than +40 °C or less than -40 °C), air humidity over 90% (at 25 °C), corrosive media, vibrations, etc., fire extinguishers must be inspected and checked for firefighting agent leaks at least once every 6 months.

9. RECHARGING

9.1 Fire extinguishers should be recharged after full or partial use, if there are any remarks identified during an external inspection (see paragraph 8.12) and if a propellant gas leak is detected.

9.2 Fire extinguishers must be recharged at least once every 5 years from the date of manufacture.

9.3 Fire extinguishers exposed to adverse climatic and (or) physical factors (see clause 8.13) must be recharged at least once every 2 years.

9.4 Fire extinguishers must be charged with the powder specified in clause 12 of Table 1. The fire extinguishing powder used in the case of performance of work in accordance with the Register requirements must be approved by the Register and be safe for humans.

9.5 Fire extinguishers must be charged with dried nitrogen, the dew point of which is not higher than minus 50 ° C.

9.6 At least once every five years, testing — including hydraulic tests — of the extinguisher body and its components shall be carried out.

9.7 An appropriate entry regarding the recharging of the fire extinguisher shall be made in the Fire Protection Systems Operation Logbook of the facility.

ATTENTION! Repair and recharging of fire extinguishers should be carried out only in specialized organizations that have the appropriate licenses and permits, according to the technical documentation of the manufacturer.

10. TRANSPORTATION AND STORAGE

10.1 Transportation and storage procedure must correspond to operating conditions and requirements of GOST 15150. Fire extinguishers may be transported by road and rail transport in accordance with Transportation rules established for a specific type of transport.

10.2 Fire extinguishers must be protected during transportation and storage against mechanical damage, temperatures above 50 °C, direct sunlight, atmospheric precipitation, moisture and corrosive media.

11. SAMPLE MAINTENANCE DOCUMENTATION

11.1 Table 3 (recommended) — Fire Extinguisher Maintenance Log Card Format

1. Serial number assigned to the extinguisher		6. Manufacturer's serial number	
2. Date of placement of the extinguisher at the protected site		7. Date of manufacture	
3. Location of the extinguisher installation		8. Date of next scheduled recharge	
4. Type and model of the extinguisher		9. Service life of the extinguisher	
5. Manufacturer of the extinguisher		10. Responsible person and signature	

11.2 Table 4 (recommended) — Fire Protection Systems Operation Logbook Format for Maintenance and Servicing of Fire Extinguishers

Serial number and model of the extinguisher		Date of extinguisher recharge	
Date of testing, recharging, or repair; organization performing the maintenance or repair		Brand (concentration) of the extinguishing agent used	
		Inspection results after recharging	
Results of inspection and pressure testing		Date of next scheduled recharge	
Date of next scheduled test		Position, surname, initials, and signature of the responsible person	

12. CERTIFICATION INFORMATION

12.1 Certification information is specified in Table 5.

Table 5 – Certification information

Fire Extinguisher	The Authority issuing the certificate
	Pozhtest Certification Authority for the Federal State Institution All-Russian Scientific Research Institute for Fire Fighting Defense in the Ministry of Emergency Situations of Russia, Balashikha
	Certificate of Conformity (valid until 19.02.2029)
OP-50-ABCE MIG E 02 OP-50-ABCE MIG E 0M2	№ ЕАЭС RU C-BY.ЧС13.В.00878/24

13. CERTIFICATE OF ACCEPTANCE

Mobile Powder Fire Extinguisher MIG E correspond to TU BY 300376711.039-2013 and TR EAEU 043/2017 requirements, are marked with an acceptance stamp and are recognized as good for operation. The month and year of manufacture are indicated on the label located at the top of the case.

Firefighting agent: VEKSON-ABC 50 EN615

Fire extinguisher label:

Release date:

Date of sale _____ Stamp of acceptance _____

14. MANUFACTURER WARRANTY

14.1 Fire extinguisher warranty period shall be 36 months after selling date but no more than 48 months after manufacturing date.

14.2 The Manufacturer guarantees that any faults found by the consumer during the warranty period shall be corrected no later than one month after the Manufacturer is notified of said fault.

14.3 The manufacturer guarantees the compliance of the fire extinguisher with TU BY 300376711.039-2013 and TR EAEU 043/2017, provided that the consumer observes the rules of operation, transportation and storage.

14.4 The Manufacturer shall not be liable in the following case:

- non-compliance with rules of operation by the extinguisher owner;
- factory seal is missing;
- presence of mechanical damages;
- decorative and protective coverings damages;

14.5 Expiry of the Fire extinguisher recharge date is not a warranty case.

15. RECYCLING

15.1 At the end of their service life, fire extinguishers must be recycled.

15.2 Recycling of fire extinguishers is carried out by specialized organizations with all necessary licenses and permits.