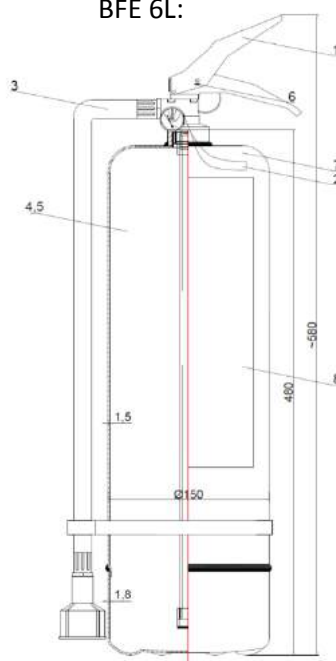
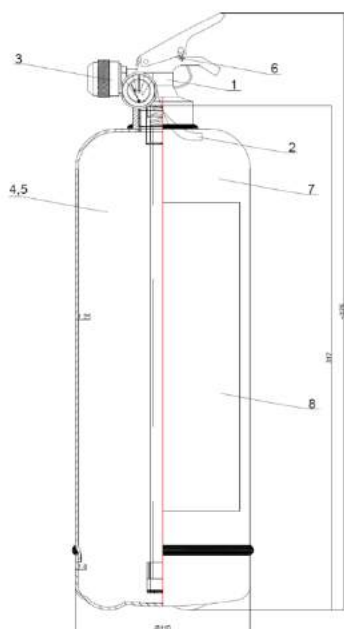


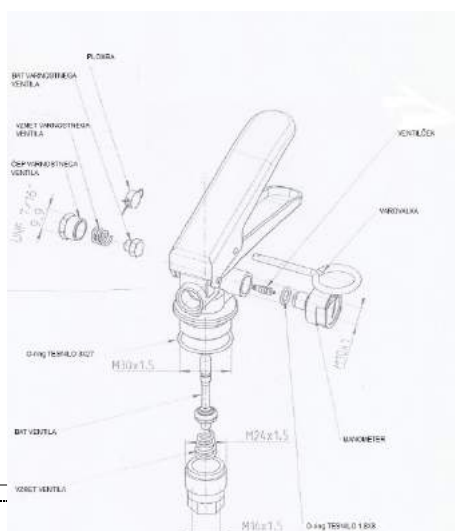
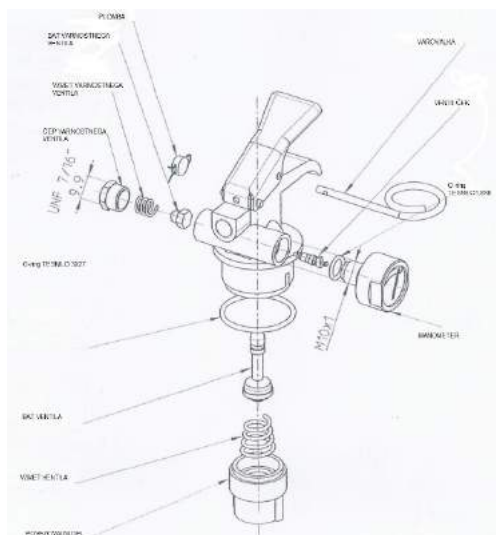
## TECHNICAL DATA SHEET

Bonpet fire extinguishers (hereinafter called: BFE), with the Bonpet liquid dispersion, consists essentially of container with Bonpet Extinguishing Fluid (steel, with PVC coating inside) and fire extinguisher head.

BFE 6L:



- 1 - Valve complete
- 2 - Label
- 3 - Nozzle
- 4 - Bonpet fire extinguishing liquid
- 5 - N2
- 6 - Plastic seal
- 7 - Container
- 8 - Screen - print



## 2. Function

BFE belongs to a group of fire extinguishers under constant pressure (nitrogen as a propellant). At the withdrawal of the fuse and the activation of the fire extinguisher valve, the nitrogen pushes the Bonpet liquid through the pressure pipe to the extinguishing nozzle.

Since the method of extinguishing depends on several factors, inter alia, on the type and location of the fire or means at which the fire occurred, we give you some basic extinguishing instructions with BFE:

- take care of your own safety and the safety of people in the vicinity before firefighting;
- activate the fire extinguisher in accordance with instructions which are described descriptively and with the pictograms indicated on the main label of the fire extinguisher;
- start firefighting from a sufficient distance and then approach fire and continue to extinguish;
- when extinguishing Class A (solid) fires, the jet is directed to the fire;
- when extinguishing Class B and F (flammable liquids and cooking oils / fats) fires, point the jet slightly above the burning surface and not directly into the burning liquid;
- always extinguish the fire in the direction of the wind;
- after using the fire extinguisher, take it to an authorized service centre.

### Bonpet liquid activation

The components of Bonpet liquid cause a fast transport of the heat on a chemical part, using water when they get in contact with hot surface. Wet chemicals decompose into gasses (CO<sub>2</sub>, N<sub>2</sub>) which suffocate fire directly on burning surface, by preventing fire to get to the oxygen. The gasses suffocate fire directly on burning surface (intensive cooling and approximately 60-times bigger volume comparing to the size of a drop) due to this relatively small quantity of chemicals is needed to effectively put out a fire.

Non-decomposed components of Bonpet liquid that remains on the surface after the fire has been extinguished, have the ability to disintegrate and cool the surface, if there is a slight increase of temperature.

Bonpet liquid is suitable for fire class A, B in F and the consequences from the fire class C.

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### 3. Technical characteristics

#### Bonpet Liquid

Physical state	Liquid
Colour	Slightly coloured liquid
Smell	Slight ammonia smell
pH	~ 8,5
Density	1,1000 – 1,1500 g/ml
Flammability	Not flammable
Solubility in water at 20°C v g/l	Completely soluble in water
Freezing point	-14,5°C
Boiling point	103°C
Flashpoint	Non-existent
Explosion point	Non-existent
Ignition temperature	Non-existent
Decomposition temperature	Above 300°C
Decomposition products	N <sub>2</sub> , CO <sub>2</sub> , H <sub>2</sub> O

#### BFE

Operating range	0°C – 60°C
Freezing (nominal)	-9,5°C
Pumping gas	Nitrogen ( N <sub>2</sub> )
Extinguishing agent	BONPET extinguishing liquid
Fire extinguisher container	Steel with PVC coating inside
Working pressure	15 bar at 20°C
<b>BFE 2L</b>	
Height	375 mm
Weight	4 kg
Extinguishing capacity	8A, 55B, 25F
<b>BFE 6L</b>	
Height	580 mm
Weight	10,2 kg
Extinguishing capacity	27A, 144B, 75F

\* Fires caused by electrical devices to 1000V extinguish from a distance at least of 1 meter!

### 4. Guarantee and Life expectancy

Guarantee with regular maintenance: **2 years**

Guarantee of Bonpet Liquid	5 years
Life expectancy	20 years, with regular maintenance

After 5 years the liquid must be changed. The chemical characteristics are changing as the result of the aging.

### The guarantee is not taken into account due to:

- failure to comply with the instructions for use
- repairs or service of BFE by unauthorized persons
- improper maintenance of the fire extinguisher
- use of non-original spare parts
- failure to observe service intervals
- mechanical damage to the fire extinguisher and its parts
- negligent handling of the fire extinguisher

## 5. Maintenance and service intervals of BFE

After each use BFE must be inspected by an authorised maintenance. Also, any interference in terms of repairs or remedying errors may only be carried out by an authorized repairer who must use only original spare parts for its purpose. BFE must be serviced regularly according to the manufacturer's instructions.

Regular service must be done after 24 months after the date of purchase and then every 12 months. The lifetime of BFE is 20 years, while service and spare parts are guaranteed for 10 years.

## 6. Labeling

Each BFE has a label with basic information:

- The name of the manufacturer
- Product type
- Fire extinguishing capacity
- Scope and method of use
- Information of mandatory servicing
- Date of manufacture (month and year)



## 7. How to install Bonpet BFE 2lt and 6lt

The fire extinguisher must always be installed in a well-visible and accessible place with the appropriate (attached) brackets. The selection and installation should be in accordance with the Rules on the selection and installation of fire extinguishers Ur. list RS No 67/05 or 0.8 - 1.2 m above the ground (measured distance of the valve to the ground).

The location of the fire extinguisher must be marked according to SIST1013.

## 8. Additional documents and certificates

- MPA Dresden Certificate, KB 185/14 Compliance Certificate for Water-Based Extinguishing - Bonpet;
- Bonpet Safety Data Sheet (based on the Hygiene Institute report, Germany);
- Declaration of Conformity of the product;
- Maintenance instructions;

### Bonpet BFE 2lt and 6lt are compatible with:

- The Pressure Equipment Regulations, or the PED 97/23 / EC Directive, the B and C1 certification process.
  - A type certificate was issued by the notified body Bureau Veritas Italy  
Quality of production monitored by the Bureau Veritas Italy notified body  
Quality certificate number N ° CE-1370-PED-C1-BON 001-16-SVN
- Standard EN 3-7: 2004 + A1: 2007.
- Good engineering practice.

Quality assurance and fire extinguishers under the terms of the PED Directive are supervised by Bureau Veritas Italy, Via Miramare 15, 20126 Milan - Italy.

Number of notified body: 1370

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