

Carbon Dioxide Fire Extinguisher kg 5 Class of fire 113B

EN3 conformity certificate nr. 3355-2005 EC Approved Certificate: CE-1370-PED-H-ABS001-09-ITA



Flammable liquids,
gasoline, oil etc.

Cylinder, CE marked PED 97/23/EC

The design cylinder is manufactured according to the directive 84/525/EEC or EN1964-1 and it has successfully achieved all the essential requirements according to the Pressure Equipment Directive 97/23/EC (PED).
 The cylinder is designed at a nominal pressure of 60 bars at 20°C and at a pressure of 174 bars at 60°C (maximum allowable pressure PS).
 The cylinder is made of 34CrMo4 steel and all the cylinders are hydraulic tested up to 250 bar .
 All the cylinders are CE marked according to dir. 97/23/CE. The quality of the fire extinguisher is guaranteed because the suppliers of the components are certified according ISO 9000 and they give us all the declarations of conformity.
 The cylinder is deeply sand blasted with metallic sand and painted with epoxy-polyester powder (the body Red color Ral 3000 and the ogive black color) resistant to the atmospheric agents and to the ultraviolet rays.
 Optional with footing

Valve M25x2 squeeze lever

The design valve is manufactured according to the EN3 part. 3.3.8.2. and the material is brass made, and it has exceeded the essential requirements of directive 97/23/EC; it is equipped with a safety device tuned from 190 to 240bars. A green safety seal is put on the valve to improve the optical check of it from far. On the valve is mounted a deep tube.

Discharge horn

The discharge horn is made in dielectric polypropylene. Inside there is a brass nozzle.
 This device act the transformation in gas of the extinguishing agent, so the jet can promptly extinguish the fire .

Extinguishing agent

Carbon dioxide is a odourless and color less gas. It weigh about 1.5 times the air; it does not wet, dirty and it does not damage objects.
 The CO2 used in the extinguishers is 99% pure and it is moisture-less. CO2 is compressed in liquid phase inside the high pressure cylinder. In normal conditions at 20°C, the pressure inside the cylinder is about 55-60 bar and 1 Kg of liquid CO2 produces approx 520 litres of vapor gas.

Discharge hose

Rubber SBS hose reinforced with steel wire connected to a discharge horn with brass nozzle. Its length allow you to act at a safety distance from the fire.



It may used
on fires with
live electricity



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Use

- 1) Pick up the extinguisher from the wall hanger and keep it in hand at the inferior leverage
 - 2) Pull out the safety pin (2) from the valve and keep in the other hand the handle of the horn (16)
 - 3) Squeeze the upper lever of the valve (1) and aim the jet at the base of the burning material, sweep the extinguishing agent right and left uniformly on the fire
- In case of fire of inflammable liquids don't approach too much. In some country training is requested to use extinguishers.

This extinguisher can be used on the fire classes B and also on electrical equipment up to 1000 Volt at 1 m distance minimum. The extinguisher reaches good result also with beginning fire rates A and C. In laboratory the extinguisher succeeded the dielectric test at 35 KV at 1 m distance.

Maintenance

Inspect monthly total weight, if it has decreased 10% or more proceed for refilling.
 Check obstructions into the horn and into the hose; if any, clean them with compressed air.
 Check if pin and seal are intact.
 Cylinder body must be tested at 250 bar every 10 years.
 Even after partial use the fire extinguisher must be refilled.
 The extinguisher must be tested and serviced according to the local regulations.

Technical specifications

Extinguishing agent : **Carbon dioxide**
 Propellant : **Carbon dioxide**
 Nominal charge : **5 kg**
 Discharge time ~ : **12 s**
 Jet length : **3.5 m**
 Operating pressure : **51.7 bar at 20°C**
 Test pressure according 97/23/EC : **250 bar**

Temperature range : **-30°C +60°C**

Dimensions

Height ~ : **735 mm**
 Width ~ : **180 mm**
 Diameter ~ : **136 mm**
 Weight ~ : **14 kg**



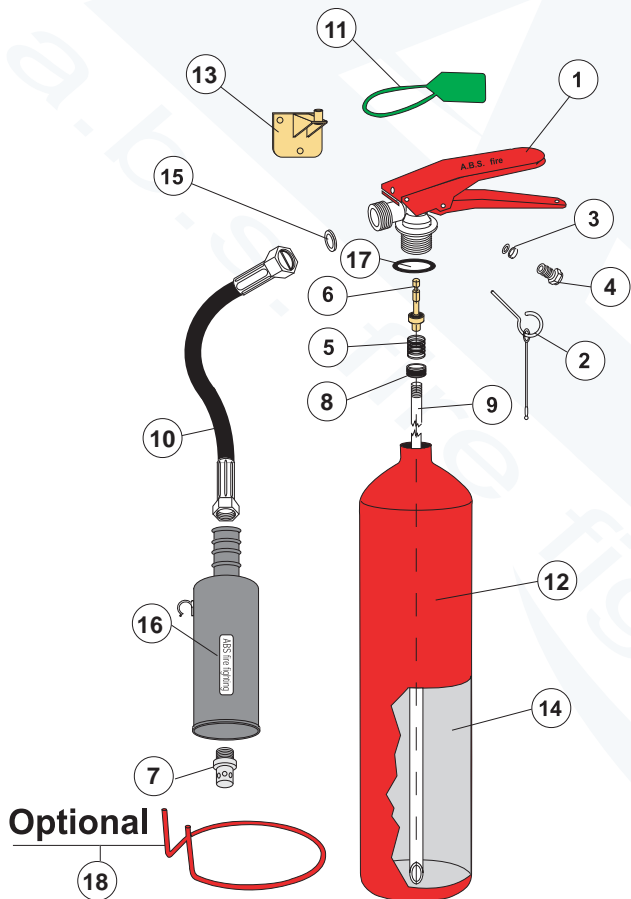
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Spare part list

| Pos. | Description | Code | Q.ty |
|------|-----------------------------|---------|------|
| 1 | Complete valve brass | 21819 | 1 |
| 2 | Safety pin | 21018 | 1 |
| 3 | Safety disc | 21020 | 1 |
| 4 | Safety nut | 21098 | 1 |
| 5 | Spring | 21019/S | 1 |
| 6 | Spindle | 21024 | 1 |
| 7 | Nozzle | 20010 | 1 |
| 8 | Spring lock ring | 21819/A | 1 |
| 9 | Siphon light alloy | 21703 | 1 |
| 10 | Discharge hose | 21633 | 1 |
| 11 | Safety seal | 28019 | 1 |
| 12 | Cylinder 34CrMo4 (7.5 lt) | 21108 | 1 |
| 13 | Extinguisher bracket | 21001 | 1 |
| 14 | Carbon Dioxide | 32001 | 5 kg |
| 15 | Gasket | 21036 | 1 |
| 16 | Discharge horn | 21029 | 1 |
| 17 | Oring of valve | 20083 | 1 |
| 18 | Metal ring steel (optional) | 20000 | 1 |



The use of non original spare parts may cause malfunctions loss

Maintenance and Guarantee

Maintenance must be made periodically by, trained and certified staff, according to the local regulations of the country where it is located. The extinguisher is guaranteed for 12 months from the date of the supply. The guarantee includes, repairing or replacement, as manufacturer option. Unit must be sent back to the factory free of charge, only when authorized written agreement with our sales office has been reached. The guarantee expires in case of tampering and bad maintenance made by not-authorized staff, or transport damages. It must be recharged only by staff authorized and certified by **a.b.s. S.r.l.**, use only genuine original spare parts.