

INSTRUCTIONS USE AND MAINTENANCE

CARBON DYOXIDE FIRE EXTINGUISHER

Mod. KS 5 - KS 5A

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1. INSTALLATION

Install the fire extinguisher on the wall using the supplied bracket.

The fire extinguisher must be placed in the room to be protected so that it is:

- Clearly visible, easily accessible and not an obstacle to persons and / or vehicles in motion.
- In an ambient temperature of not less than -30 °C or above + 60 °C (temperature of use of the extinguisher).
- Keep away from sources of heat.
- Identified by an appropriate safety signs, in accordance with current legislation.
- Wall mounted at a height from the floor as to be easily picked up by anyone.
- For special installations or mobile structures using specific supports on demand.

2. OPERATION

In normal conditions the extinguisher is under pressure.

3. TORQUE FORCE

Use only certified manual torque wrenches.

The valve on the cylinder is screwed with a torque of (conic thread 150 ÷ 170 Nm) or (cylindrical thread 80 ÷ 120 Nm)

The hose is screwed with a tightening torque of 20 ÷ 25 Nm.

The dip tube is closed manually.

4. USE AND WARNINGS

4.1 WARNINGS

- Use fire extinguisher only in case of fire or training.
- Before use, read the instructions on the label of the extinguisher.
- Improper use could be dangerous.

This fire extinguisher can be used on fires of class:



Fires in liquid or solid material liquid (alcohol, ether, paint and solvents, mineral oils, fuels, etc.)

The disposal of the fire extinguisher is in accordance with the regulations. With regard to the container and the valve does not require any particular precautions, once that the extinguishing agent is emptied, the cylinder and the valve can be disposed in any landfill. The disposal should be carried out according to the regulations, must be performed by a company that makes the disposal of chemicals.

Approach the fire always upwind to a safe distance, direct the jet at the base of the flames, gradually advance to extinction by continuing to provide the outbreak. Pay attention to be switched on again. In the case where the quantity of extinguishing agent is not sufficient to extinguish the fire, get away, continuing to provide until the discharge of the extinguisher.

4.2 INSTRUCTIONS FOR USE



1. Remove the safety pin



2. Grip hose and aim at base of fire



3. Press lever fully down

5. RECHARGE INSTRUCTIONS

- Remove the fire extinguisher from the bracket.
- Check the hose pipe and other synthetic components for any cuts, deformities, discolorations, etc.
- The extinguisher must be completely depressurized before opening. The depressurization must be performed in the open air. Unscrew the hose and the valve and remove it together with the dip tube from the cylinder.
- Check the original part number and any eventual damages to the valve.
- If the test period of the cylinder has expired make provisions for a new control by a qualified person prior to filling up.
- Clean thoroughly the thread of the valve and wind it up with a P.T.F.E. tape according to the following method:
 1. Change the O-ring between the valve and the hose. For the cylindrical threads change the O-ring valve-cylinder. The tape must be suitable for carbon dioxide.
 2. Unwind the tape from the spool without stretching it, then cut it with a scissors or a sharp blade (do not tear).
 3. Hold the valve stem in a vertical position and press the end part of the P.T.F.E. tape (cut at a right-angle), with the thumb against the valve stem. Ensure that the tape is winded in a clockwise direction and that it mounts on the thread up to 3mm. Wind the tape tightly around the valve stem and make sure not to overstretch. Cover up all the length of the stem uniformly with approximately 3 - 3½ turns, then cut the tape (do not tear).
 4. Fold the protruded part of the tape on the thread conductor in a way the tape covers it all and does not slip upwards when it is screwed into the collar of the cylinder.

5. Check that the tape is winded well and uniformly along the length of the stem. It is very important that the P.T.F.E. tape covering is uniform and does not accumulate on the upper part of the thread.

- Lock securely the cylinder in a suitable vice. Screw the valve into the cylinder and tighten it manually.
- If the valve is hard to turn or doesn't turn at all, check if the thread of the valve is defective.
- Tighten the valve to 108 Nm.
- For filling-up follow the operating instructions of the filling plant. Fill up with CO₂ (tolerance – min kg 4,75 - max kg 5,00; purity grade 99 – 99.8 Vol. %)
- Attach the handle together with the safety pin and seal. Remove the coupling of the filling machine and assemble the hose pipe. Tighten together to 20 Nm.
- Perform the air tightness test with a leakage detecting spray.
- Use only replacement parts that correspond to the technical literature or the samples submitted in the certification test.
- Affix a sticker with the name and address of the controller and, if the employer in a clearly visible and indelible. Do not cover the label instructions.

6. INSTRUCTIONS FOR THE USER

PHASE	EVENT	DANGEROUS	PRECAUTIONS	MESURES
TRANSPORT AND INSTALLATION	FALL	BUMP	Carry in container which protects the product from bumping over.	
OPERATION	OVER-PRESSURE WEATHER/CORROSION	BURSTING REDUCING OF THE THICKNESS	The recharge should be done only using calibrated pressure reducers. Avoid: -Do not bump which can damage the painting -Washing and contact with corrosive materials	If corrosion is pointed out please call the maintenance company for an immediate hydraulic test.
MAINTENANCE	IMPROPER DEPRESSURIZATION	VIOLENT CAST OF COMPONENT OR PART OF THEM	The maintenance must be done by qualified company (in extinguishers maintenance)	The maintenance of the extinguisher must be done according to the local regulation
DISPOSAL	IMPROPER DEPRESSURIZATION	VIOLENT CAST OF COMPONENT OR PART OF THEM	The disposal must be done by qualified company (in chemical products disposal)	For the disposal of the extinguisher call only authorized company who make it according to the local regulations