



Instruction Manual for Mica Band heaters

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1. General notes

H. Pepping Mica band heaters are manufactured in lots of dimensions and different voltages. They were developed in accordance with the directive 2014/35/EU of the European Parliament and of the council.

The mica band heater elements are just components, not fully operational equipment. The main use of the heating elements is in the plastic machinery.

The mica band heater Elements were tested electrically according to the norm DIN EN 60519-1 and DIN EN 60519-2 and mechanically by the manufacturer and are shipped from the factory in a safe technical delivery condition. For proper and safe operation, the installation and storage instructions must be followed.

2. Technical Data and storage

Voltage: According to the customers requirement

Power: According to the customers requirement

Materials: Heating Wire NiCr, mica insulation
clamp band FAL/Cooling Jacket FAL

Thickness: ~ 4,5 mm

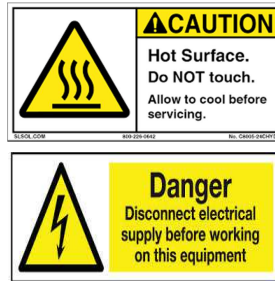
Operating Temperature up to 280°C Max

Measured at the surface of the heated side

Load up to 3,5 W/cm²

Heating elements should be stored at room temperature in a dry atmosphere

3. General Warning references and safety



Warning!!! Hot surface. Do not touch the mica band heater in operating mode.

Warning!!! Do not work on the mica band heater when it is connected to an electrical supply. Disconnect the heating band before working on it.

The mica band heater element should be installed by qualified personnel. The customer is responsible for the correct installation of the heating element.

For a proper operation and safety the mica band heater element and the heated block must be connected and grounded according to DIN EN 60204-1. The use of additional grounded connections may be required even if the mica band heater is already equipped with a ground connection wire.

The mica band heater element must be protected against contact, as it may become very hot during its operation

Appropriate measures must be taken in order to prevent an overheating of the HCC, e.g. by a temperature control system and the choice of an appropriate HCC power element and/or an overheating protection.

No flammable or explosive materials should come into contact with the mica band heater element. Even in case of malfunction, fire/explosion hazard must be prevented

4. Installation

4.1 Assembling the mica band heater on a cylinder

The mica band heater will be delivered with mounted screws. . Loose the screws at the mica band heater.

Mount the mica band heater around the cylinder/ tool; if you must spread the heater band to the diameter of the cylinder don't over-spread the mica band heater. The Maximum is the diameter of the tool or the cylinder. If the heater is overspread, there could be a damage on the Mikanit Insulation or the clamp band.

Tighten the screws, so that the heater can't be turned around the tool or the cylinder. If there are screws with tension springs, the springs should not be compressed completely together. If the tension spring is completely together, turn the screw a half turn back. Tension springs cannot regulate all extensions of the heater band. The heating elements must be checked periodically, if the heater band still fits on the cylinder

Assure that there is no split between the cylinder and the heater band. The form of the heater band must fit with the form of the cylinder. A misfit disrupts the thermal transfer and could destroy the heating band.

Mount the power cable (the installation must be made by qualified personnel) and heat the mica band heater. If the mica band heater is installed for the first time the maximum temperature allowed is 100° C for 30 minutes. After reaching this temperature repull the screws tight again. Then it can be brought on the desired temperature but the maximum is 280°C

4.2 Disassembling the mica band heater band from the cylinder/tool

Disconnect the mica band heater from electrical power.

Wait until the mica band heater is cooled down

Loose the screws at the mica band heater and spread them and take it off the cylinder.