



Instruction Manual for band heaters with ceramic Insulation

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1. General notes

H.Pepping band heaters with ceramic insulation 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 Heating elements are just components, not fully operational equipment. The main use of the heating elements is in the plastic machinery.

The heating 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 a proper and a safe utilization, these 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, Ceramic Insulation

Jacket FAL

Thickness: ~11mm

Operating Temperature up to 350°C Max

Measured at the surface of the heated side

Load up to 6,5 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 heating band in operating mode.



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

The ceramic insulated heating 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 heating element and 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 heater is already equipped with a ground connection wire.

The heating 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 heater, e.g. by a temperature control system, the choice of an appropriate heating power element and an overheating protection.

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

4. Installation

4.1 Assembling the heater band on a cylinder

The heating band will be delivered with mounted screws. Loose the screws.

Mount the ceramic heaters around the cylinder; if you must spread the heater bands to the diameter of the cylinder don't over-spread the ceramic heater bands. The maximum is the diameter of the cylinder. Overspreading could damage the heater 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 bands must fit with the form of the cylinder. A misfit disrupts the thermal transfer and could destroy the heating band. To bolt over the screws could destroy the ceramic heater band too.**

Mount the power cable (the installation must be made by qualified personnel) and heat the Heater band up to temperature. If the heater band 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 with a maximum of 400°C

4.2 Disassembling the heater band from the cylinder

Disconnect the heater band from electrical power.

Wait until the heater band is cooled down

Loose the screws at the heating band, spread it and take it off the cylinder/tool.