FUSE ELEMENT PROBE

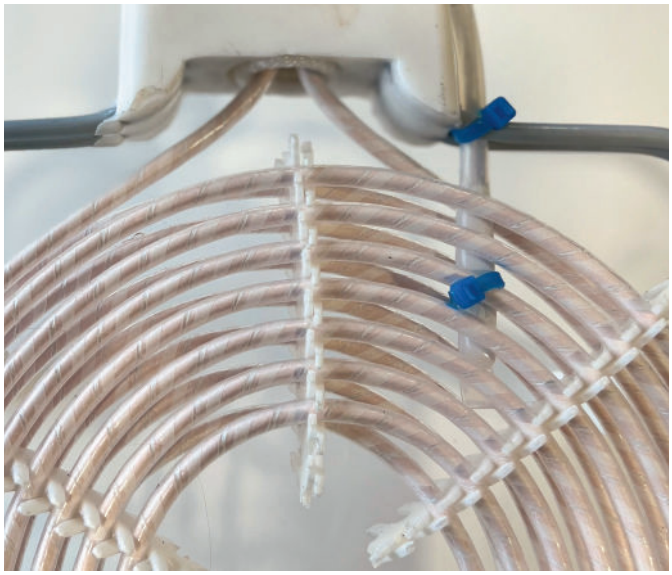
SAFETY FUSE PROBE

Our fuse probe is made up of a flexible cable with a Teflon® FEP coating along its entire length, containing two silicone-insulated conductors.

At the end is the sensitive element which is destroyed as soon as the maximum operating temperature is reached (94 or 121°C depending on the model chosen).

This thermal fuse protects the equipment against damage due to fire or abnormal excessive temperature by opening the control circuit of the heating element.

FUSE ELEMENT, CARACTERISTICS	
Maximum current	10 A
Voltage range	up to 25V
Operating temperature	94° or 121°C according model
Tolerance for 94°C model	± 5° C
Tolerance for 121°C	± 2°C



The probe is mounted along the non-heating part of the immersion heater (N cable) using PP (polypropylene) clamps. The sensitive part of the probe is inserted between the heating coils and held in place with 2 ETFE clamps.

OPERATING PRINCIPLE

The fuse probe is designed to act as a switch. It is imperative that only a control current and not a power current is passed through the probe (e.g. a potential-free contact).

If the temperature around the sensor's sensitive element is exceeded, the sensor is irreparably destroyed and cannot be reset.

The contact opens when the sensor's sensitive element overheats.

This opening cuts off the control circuit to which the sensor is connected and it is essential to stop the power supply to the associated immersion heater.

It is possible to equip immersion heaters already in service.

Choice of probe with aqueous solutions :

Model 94°C up to a maximum process temperature of 60°C

Model 121°C for temperatures above 60°C and up to 100°C

For viscous or poorly heat-conducting liquids, please consult us.

	Reference to order in case an immersion heater is already in service :	Reference to order together with the immersion heater to be equipped :
probe 94°c	**SF094FxxxxM2**	**SF094FxxxxT0**
prove 121°c	**SF121FxxxxM2**	**SF121FxxxxT0**
	Probe supplied with PP collars (one PP collar every 200mm + 2 ETFE collars)	**The xxxx correspond to the total length in mm and must be replaced by this value.**