	Formulaire	COM FORM 2003 Rév. 00	
	Questionnaire for explosion proof immersion heaters, type TP.ADF and TP.DN type	Revision date : 2023/03/09	Page 1/5

GENERAL CUSTOMER INFORMATION :

Company :
 Contact : Function :
 Address :
 Postal code : City :
 Tel. : E-mail address :
 Customer reference : Branch of industry :

DESCRIPTION OF THE OPERATING ATMOSPHERE :

It is the responsibility of the user to inform the manufacturer of the immersion heater of the group, category, ambient temperature and temperature class of the atmosphere in which the equipment will be used.

1. Atmosphere group and zone :


Group : Groupe II :
 Zone : Occasional risk Gas zone 1 : Dust zone 21* :
 Accidental risk Gas zone 2 : Dust zone 22* :


** Important :*

- Immersion heaters equipped with M77 screw cap are certified for use in zones 1,2, 21 and 22..
- Immersion heaters with DN 80 to DN100 flange are certified for use in zones 1, 2, 21 and 22.
- Immersion heaters with flange DN 100 to DN300 are certified for use in zones 1 and 2 **only**.

Acim Jouanin ATEX immersion heaters are designed to be used :

- On group II installations (surface industry).
- In areas where explosive atmospheres caused by gasses, vapors, mists or air/dust mixtures are unlikely to occur,
- Areas where explosive atmospheres are only likely to occur irregularly and for a short time

 Our heaters are not certified to operate in Group I (mines)

 Our heaters are not certified to operate in gas zone 0, nor in dust zone 20.

2. Gases and/or dusts likely to be present in the environment:

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Important :

- Immersion heaters with M77 screw cap: suitable for gases IIA to IIC and dusts IIIA to IIIC.
- Immersion heaters equipped with a flange DN 80 to DN100: compatible with gas IIA to IIC and dust IIIA to IIIC.
- Immersion heaters with flange DN 100 to DN300: compatible with gas IIA to IIC **only**.



3. Temperature class (marking temperature) of the atmosphere in which the material will be used?

Temperature class	T1 <input type="checkbox"/>	T2 <input type="checkbox"/>	T3 <input type="checkbox"/>	T4 <input type="checkbox"/>	T5 <input type="checkbox"/>	T6 <input type="checkbox"/>
Marking temperature	450°C	300°C	200°C	135°C	100°C	85°C
Maximum temperature of the security device	420°C	275°C	175°C	120°C	90°C	75°C
Maximum temperature of the fluid to heat	To be determined depending on the application. It will be below the temperature of the security.					

The safety devices of the immersion heaters are deliberately set to a value below the class limit temperature.

4. Ambient temperature :

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Important :

- Immersion heaters with M77 screw cap certified for -20°C to +60°C
- Immersion heaters with flange DN 80 to DN100 certified for an environment between -20°C and +60°C
- Immersion heaters with flange DN 100 to DN300 certified for an environment between -20°C and +40°C **only**.

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DESCRIPTION OF THE APPLICATION

5. Use of explosion proof immersion heaters :

- Heating of a stagnant liquid (tank, drum, reservoir...)
Description of the application :

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- Heating of a circulation fluid (circulation heaters ...).
Description of the application:

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- Other uses

Description of the application:

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.....
.....



6. Characteristics of the product to be heated:

- Product name / nature of the heated product :
 - Technical characteristics :

- Heating of a stagnant liquid :
 - Initial temperature (°C) :
 - Final temperature (°C) :
 - Volume (m³) :
 - Operating pressure (bars) :

- Heating of a circulating liquid:
 - Initial temperature (°C) :
 - Final temperature (°C) :
 - Outflow (m³/h) :
 - Operating pressure (bars) :

- Additional information :



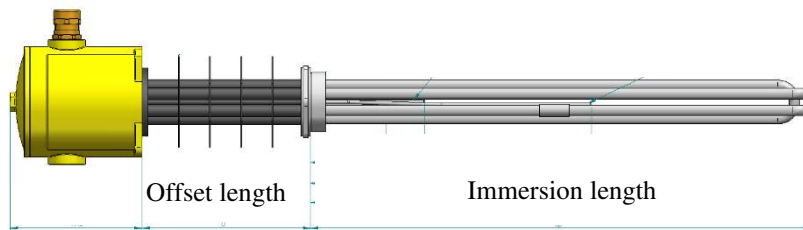
DESCRIPTION AND INSTALLATION OF THE IMMERSION HEATER

7. Mounting and interface between the heater and the installation:

- Interface
 - Flange mounting Shape and dimensions :
 - Mounting with screw plug Thread :

• Offset length

Information: Depending on the temperature class, the offset length between the connection cover and the fixing device will be : Class T1 and T2: 220 mm (4 fins) / Class T3 to T6: 120 mm (2 fins)



Drawing of a class T2 heater with screw cap

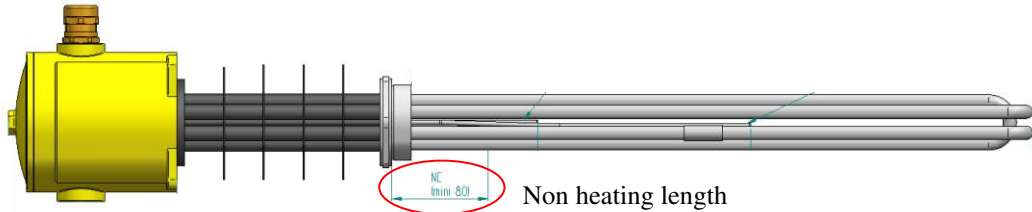


- Non heating length (NC)

All immersion heaters have a minimum non-heating length of 80 mm under the fixing device (screw cap or flange). Is this sufficient to ensure that the entire active part is in a thermal free exchange zone? Confirmation :

Otherwise, specify the non-heating length required for the application (mm) :

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Drawing of a class T2 heater with screw cap

- Necessary treatments on heating elements (e.g. pickling, passivation, halar coating ...) :

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- Additional information about the installation :

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- Would you like to attach a diagram of your installation to this form ?

Yes Name of the file :

Important: When planning the installation of the immersion heater, it is necessary to provide the necessary space to allow the extraction of the immersion heater from the vessel. This distance must be at least the overall length of the immersion heater (including the immersion length + offset and connection box).

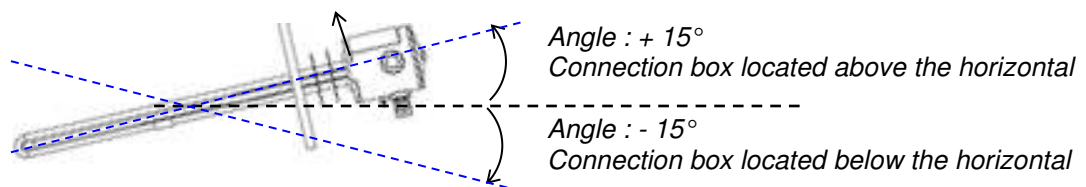
8. Operating position of the immersion heater

- Horizontal
- Vertical, with the connection box facing downwards
- Vertical, with the connection box facing upwards
- Inclined (Specify angle from horizontal and direction)

Angle : Box located above the horizontal :

Box located below the horizontal :

Example : inclined



9. What is the requested supply voltage?

- 230 V single-phase 230 V three-phase 400V three-phase
- Other (please specify) :

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VALIDATIONS

10. Confirmation of the using requirements:

10.1 – For stagnant liquids, check the level above the heating part, ensuring that the heating length is always submerged.

Confirmation :

10.2 – For circulating fluids, check the minimum design flow rate over the entire heating section.

Confirmation :

10.3 – The connections of the thermal safety devices (thermocouple probe on controller, thermostat contacts on power contactor, etc...) have been provided in the electrical diagram of the installation.

Confirmation :

10.4 – The action of the safety devices determines a total and irreversible cut-off of the electrical power supply to the immersion heater, requiring intervention by qualified personnel.

Confirmation :

10.5 – The type of thermal safety devices is left to the choice of the manufacturer.

Confirmation :

Otherwise, specify the type of thermal safety devices imposed by the application:

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10.6 – The space available for the immersion heater to be removed (called "clearance") is sufficient considering the immersion length, the offset, the size of the connection box. The mass of the immersion heater should also be considered.

Confirmation :

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Date :

Name :

Signature :

