

ATEX Questionnaire

Necessary information for flame proof vacuum pumps to EU ATEX-Producerdirective 2014/34/EU

Thank you for your interest in our vacuum pumps certified to the ATEX-directive. In order to select a vacuum pump best suited for your application and for legal reasons Leybold needs the following information.

Please answer the questions with care and completely. Please fill in the required information or mark the answers as appropriate. Send the questionnaire by fax or E-Mail to your contact person in Leybold or to your local sales representative. In case of uncertainties or questions please use the following contact data:

Phone: +49 (0)221 347 1112

Fax: +49 (0)221 347 1245

E-Mail: sales.vacuum@leybold.com

Information on the required pump

Please select the required pump type and the needed pumping speed first:

- | | |
|--|-------------------------|
| <input type="checkbox"/> TRIVAC - two stage rotary vane pump | _____ m ³ /h |
| <input type="checkbox"/> SOGEVAC - single stage rotary vane pump | _____ m ³ /h |
| <input type="checkbox"/> SCREWLINE - dry compressing screw type pump | _____ m ³ /h |
| <input type="checkbox"/> RUVAC - roots pump | _____ m ³ /h |

Information on operating conditions

For this information please refer to your explosion protection document. According to the ATEX-workplace directive (1999/92/EC) the user of a plant is obliged to create such a document. In this the zoning has to be specified. Please consider that zoning has to be made separately for the outer environment (installation location) (o) and also for the inside (i) of your plant.

The pump will be installed in an outer environment (o) which is for gases specified as

- non potentially explosive atmosphere
- potentially explosive atmosphere of zone 0 zone 1 zone 2
- In addition a certification for dust in zone 22 (cat. 3) is required

Inside the pump (i) the gas atmosphere is specified as

- non potentially explosive atmosphere
- potentially explosive atmosphere of zone 0 zone 1 zone 2
- In addition a certification for dust in zone 22 (cat. 3) is required

please turn over ...

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Information on pumped products and pump environment

For information about gas class and temperature class please refer to your explosion protection document, the relevant material data sheet or data from the internet. For mixtures of different gases or substances please always cross the gas class with the lowest experimental safe gap height and the temperature class with the lowest auto ignition temperature.

The pump will be installed in an outer environment (o) with the following gas and temperature classes:

- | | | | |
|------------|---|--------------------|--|
| Gas class: | <input type="checkbox"/> IIA | Temperature class: | <input type="checkbox"/> T1 to max. 450 °C |
| | <input type="checkbox"/> IIB | | <input type="checkbox"/> T2 to max. 300 °C |
| | <input type="checkbox"/> IIB3 | | <input type="checkbox"/> T3 to max. 200 °C |
| | <input type="checkbox"/> IIB+H ₂ | | <input type="checkbox"/> T4 to max. 135 °C |
| | <input type="checkbox"/> IIC | | <input type="checkbox"/> T5 to max. 100 °C |
| | | | <input type="checkbox"/> T6 to max. 85 °C |

With the pump the following gases (i) will be pumped.

(Name and/or chemical formula - also CAS-No., if available):

The products have a classification of:

- | | | | |
|------------|---|--------------------|--|
| Gas class: | <input type="checkbox"/> IIA | Temperature class: | <input type="checkbox"/> T1 to max. 450 °C |
| | <input type="checkbox"/> IIB | | <input type="checkbox"/> T2 to max. 300 °C |
| | <input type="checkbox"/> IIB3 | | <input type="checkbox"/> T3 to max. 200 °C |
| | <input type="checkbox"/> IIB+H ₂ | | <input type="checkbox"/> T4 to max. 135 °C |
| | <input type="checkbox"/> IIC | | <input type="checkbox"/> T5 to max. 100 °C |
| | | | <input type="checkbox"/> T6 to max. 85 °C |

Please check if the material of construction of the pump is compatible with the pumped products. This is very important for aggressive and corrosive media. It is also important for the outer environment of the pump. Please refer for material of construction in contact with pumped products to the actual Leybold catalog, pump data sheets and information in the quotation.

Sender: _____

Date: _____

Name: _____

Phone: _____

Company: _____

Fax: _____

Dep.: _____

E-Mail: _____

ZIP/City: _____

Street: _____

City, sign, company stamp