

## Necessary information for flame proof vacuum pumps to EC ATEX-directive

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 Oerlikon Leybold Vacuum 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 Oerlikon Leybold Vacuum or to your local sales representative. In case of uncertainties or questions please contact us.

---

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

### Information on operating conditions

For this information please refer to your explosion protection document. According to the ATEX-directive 137 (99/92/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 2 (cat. 22) 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 2 (cat. 22) is required

**please turn over ...**

### Information on pumped products and pump environment

For this information please refer also to your explosion protection document. Additional information can also be taken from Material Safety Data Sheets of the relevant substances. The temperature class means the auto-ignition temperature of the relevant product. For mixtures of products please mark for outside (o) and inside (i) the highest gas class and 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"/> IIB1 |                    | <input type="checkbox"/> T2 to max. 300 °C |
|            | <input type="checkbox"/> IIB2 |                    | <input type="checkbox"/> T3 to max. 200 °C |
|            | <input type="checkbox"/> IIB3 |                    | <input type="checkbox"/> T4 to max. 135 °C |
|            | <input type="checkbox"/> IIB  |                    | <input type="checkbox"/> T5 to max. 100 °C |
|            | <input type="checkbox"/> IIC  |                    | <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 maximum classification of:

- |            |                               |                    |  |
|------------|-------------------------------|--------------------|--|
| Gas class: | <input type="checkbox"/> IIA  | Temperature class: | <input type="checkbox"/> T1 to max. 450 °C |
|            | <input type="checkbox"/> IIB1 |                    | <input type="checkbox"/> T2 to max. 300 °C |
|            | <input type="checkbox"/> IIB2 |                    | <input type="checkbox"/> T3 to max. 200 °C |
|            | <input type="checkbox"/> IIB3 |                    | <input type="checkbox"/> T4 to max. 135 °C |
|            | <input type="checkbox"/> IIB  |                    | <input type="checkbox"/> T5 to max. 100 °C |
|            | <input type="checkbox"/> IIC  |                    | <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, corrosive, toxic or radioactive 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 Oerlikon Leybold Vacuum catalogue, pump data sheets and information in the quotation.

---

|                 |               |
|-----------------|---------------|
| Sender:         | Date:         |
| Name: _____     | Phone: _____  |
| Company: _____  | Fax: _____    |
| Dep.: _____     | E-Mail: _____ |
| ZIP/City: _____ |               |
| Street: _____   |               |

\_\_\_\_\_  
City, sign, company stamp