

optional  
stainless  
steel

# MODEL ATEX

FOR USE IN HAZARDOUS AREAS AND EXPLOSIVE ATMOSPHERE

The ATEX 95a is regulated by the new European directive. Generally the explosive atmosphere is classified in 3 different zones.

## Zone 0:

A place in which an explosive atmosphere consists of a mixture of air and flammable substances in the form of gas, vapor or mist and is present frequently, continuously or for extended periods.

## Zone 20:

Is relevant for an explosive atmosphere in the form of clouds of combustible dust in air under the same conditions as above.

## Zone 1:

Described as a place in which an explosive atmosphere consists of a mixture of air with flammable substances in the form of gas, vapor or mist, and is likely to occur in normal operation occasionally.

## Zone 21:

Is relevant for an explosive atmosphere in the form of clouds of combustible dust in air under the same conditions as above.

## Zone 2:

A place in which an explosive atmosphere consists of a mixture of air with flammable substances in the form of gas, vapor or mist and is not likely to occur in normal operation but, if it does occur, it will persist for only a short period.

## Zone 22:

Relevant for an explosive atmosphere in the form of a cloud of combustible dust in air under the same conditions as above.

For the classified zones 1/21 and 2/22 the metal bellows couplings BK-EEX do have an accreditation according to ATEX 95a

## Assembling the BK-EEX metal bellows couplings

The coupling cross section is insulated throughout the outside under the use of a flange or cover plate. The cover has to be electrical conductive.

Min. sealing according to IP2X

**Tolerance:** On the hub/shaft connection must be within 0,01-0,05 mm

**Assembling:** To ensure a safe clamping, the tightening torque rates of the clamping screws (1) must be noticed at any time.

### ATTENTION!

A permanent observation of the driving and driven side must be ensured. A shut off must follow right afterwards.



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### Mounting, Design:

For security reasons all misalignment values and torque ratings are decreased by 20%

### Installation and Operation instructions:

Installation and operating instructions are an essential part of the BK-EEx metal bellows couplings.

Including the following facts:

- Design of the BK EEx metal bellows couplings
- Exact tightening torques and misalignment values
- How to put in operation
- Maintenance intervals
- Trouble shooting
- Marking of the coupling
- Declaration of conformity

### Identification:

All BK-EEx couplings are permanent labeled to display manufacturer and accreditation data.

### Example Accreditation data:



Type: BKL 150 EEx-2003  
II 2 G D  
EEx cT4/135°C  
Ser.No.: A 44305  
Tech.Ref.No.:2003/003RW

