



Certificate

EU - TYPE EXAMINATION CERTIFICATE (Translation)



- (1)
- (2) Equipment or Protective System Intended for use in potentially Explosive Atmospheres - **Directive 2014/34/EU**
- (3) Certificate Number: TÜV-A 18ATEX0060 X
- (4) Product: TurboRex®
- (5) Manufacturer: ibW Rührwerkstechnik GmbH
- (6) Address: Ferdinand-Porsche-Straße 36
75382 Althengstett
GERMANY
- (7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (8) TÜV AUSTRIA SERVICES GMBH, Notified Body number 0408, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report No. TUV-A 2018-TAD_000008_TurboRex®.
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN ISO 80079-36:2016 EN ISO 80079-37:2016

except in respect of those requirements listed at item 18 of the Schedule.
- (10) If the sign "X" is placed after the certificate number indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.
- (11) This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- (12) The marking of the product shall include the following:

Ex II 1/2 G Ex h IIB T3 Ga/Gb

Online Verification



Filderstadt
Ort
Place

29.04.2020
Datum
Date


Michael Reuschel
freigegeben durch
approved by

FM-INE-EXS-ExG-0200f Rev. 06

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18ATEX0060_2593_ENG_REV.01.
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(13)

ANNEX

(14)

EU - TYPE EXAMINATION TÜV-A 18ATEX0060 X

(15) **Description of Product**

TurboRex® DIN agitators are designed for use in open and closed containers. TurboRex® DIN agitators are used to stir liquids up to good flowable mediums.

The drive is located in zone 1, the sealing system in the boundary zone 0/1 and the agitator shaft and stirring element in zone 0.

The agitator assembly can be found in the point construction.

Technical data

Drive Power [kW]:	0,12-150
RPM [1/min]:	1 - 3000
Drive:	electrical / pneumatic
Gearbox Type:	Gear in category 2G, with gasgroup IIB or IIC also as temperature class T3 or T4
Bearing lantern:	with and without
Shaft feedthrough:	Distance lantern with flame arresting gap or mechanical seal

(16) **Test report**

TUV-A 2018-TAD_000008_TurboRex®.

(17) **Special conditions of use**

- The machine and the container must be integrated in the local equipotential bonding. All conductive parts must be grounded or connected to conductive parts. The bleeder resistor must be $\leq 10^6 \Omega$.
- The construction and installation must be carried out during initial commissioning in accordance with EN 60079-14 and EN 60079-17.
- Temperature monitoring, fill level monitoring as well as other monitoring devices must meet the requirements of EN 80079-37 ignition protections system b2 with regard to installation and execution.
- A safe zone separation (Zone 0 inside the tank / Zone 1 outside the tank) must be ensured by the operator by means of technical ventilation/ object extraction.
- Process-related ignition sources, in particular electrostatic discharges, which arise as a result of the stirring process, must be avoided. If electrostatic charging can't be avoided the inside of the container must be rendered inert. Only conductive liquids of the gas groups IIA and IIB are allowed to be stirred. The responsibility for this lies with the operator.
- If the conductivity is less than 10^{-8} S/m, measures must be taken. (e.g. inerting according to CEN/TR 15281 or, if possible, increasing the conductivity of the additives).

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g) The agitator can also be operated in pass-through mode.

(18) **Essential health and safety requirements**

Met by the standards mentioned above.

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