Physical-Technical Testing Institute
Ostrava - Radvanice

Supplementary Type Examination Certificate No. 3

about verification of the non-electrical apparatus used for potentially explosive atmosphere according to the Certification Scheme A

Type Examination Certificate number:

FTZÚ 08 Ex 0024X

Product: **Ball valves type series FM2 and FN2**

Manufacturer: **ADLER S.p.A**

Address: **Viale Borletti 14, 20010 Santo Stefano Ticino (Milano), Italy**

This supplementary certificate extends Certificate No. FTZÚ 08 Ex 0024X to apply to products designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

Physical-Technical Testing Institute, Certification Body No. 3051 accredited by ČIA o.p.s. Prague according to EN ISO / IEC 17065:2012 confirms that the above mentioned product is in conformity with the requirements of the following standards:

EN ISO 80079-36:2016, EN 60079-0:2018

Manufacturer (or applicant) listed in the certificate is responsible for product conformity assurance in accordance with its specification (documentation) listed in this certificate and for successful performance of all specified routine tests and verification.

This supplementary certificate relates only to verification of non-electrical apparatus used for potentially explosive atmosphere. Further requirements can be applied to the manufacturing process and supply of this product. These are not covered by this certificate.

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body

FYZIKÁLNĚ TECHNICKÝ ZKUŠEBNÍ ÚSTAV, s.p. • OSTRAVA-RADVANICE •

Date of issue: 22.12.2023

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Physical-Technical Testing Institute, s.p., Pikartská 1337/7, 716 07 Ostrava - Radvanice, Czech Republic
tel.: +420 595 223 111, +420 604 203 525, e-mail: ftzu@ftzu.cz, www.ftzu.cz

Physical-Technical Testing Institute
Ostrava – Radvanice

Schedule

Supplementary Type Examination Certificate No. 3 to FTZÚ 08 Ex 0024X

Description of product changes:

The subject of this supplementary certificate is:

- Assessment according to the newest editions of standards.
- Change of certificate validity:
  The validity of the certificate has no time limitation.

There were no construction or material changes done on the product.

Product marking remains the same: **Ex h IIC T6 ...T2 Ga**
Ex h IIIC T85°C ...T240°C Da

The description of the product:

The ball valves type series FM2 and FN2 are full flow split body ball valves, designed for application in hazardous areas with explosive gas, mist and dusts during delivery of liquids with presence their vapours.

Maximum operating temperature range is -28.8 °C to +240 °C. Operating temperature range of a particular ball valve is determined by the material of used seals and seats. Possible materials of valve seats are PTFE, RPTFE, HDPE, PEEK, DELRIN. Painted ball valves variants have a paint thickness of less than 0.2 mm.

The product construction complies with the safety requirements of Annex II of the ATEX 2014/34/EU Directive, related to an adequate equipment level protection (EPL).

Approved variants of ball valves, including FIRE SAFE variants:

Fx2 - xxx - xx - xx

- xx: 10; 16; 25; 40 … rated pressure PN
- xx: 15; 20; 25; 32; 40; 50; 65; 80; 100; 125; 150; 200; 250 … rated inside diameter DN
- xxx: ETE … stainless steel variant; STN … carbon steel variant
- Fx2: FM2 ... DIN 32 02 F4/F5 variant; FN2 ... DIN 32 02 F1/ISO 5752L variant

Responsible person:
Dipl. Ing. Lukáš Martinák
Head of Certification Body

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Test report No.: 08Ex/0024/3

Specific Conditions of Use:

1. Painted ball valves variants can be only used in applications, where the risk of creation of propagating brush discharges is avoided.
2. The actual maximum temperature of ball valve, in relation to the ignition temperature of explosive atmosphere, has to comply with general requirements of EN 1127-1 cl. 6.4.2.
3. Ball valves has to be conductively connected to the grounded part of associated apparatus.
4. The maximum allowed layer of combustible dust on the surface of ball valve is 5 mm.
5. In case that temperature of the used medium will be higher than 95°C, ball valves equipped with seat made of Tecaform AH natural (DERLIN) or Polyethylene HD (HDPE) mustn't be used.

List of documentation:

There is mentioned only updated documents; the others are listed in original certificate and in supplementary certificates 1 and 2.

Document No.:	Revision	Date:	Description:
--	0	Dec. 2023	Ball Valves Manual
616_D	-	21.12.2023	Drawing - nameplate

Responsible person:

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Head of Certification Body

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