



Physical-Technical Testing Institute
Ostrava - Radvanice

SUPPLEMENTARY TYPE EXAMINATION CERTIFICATE No. 3

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

Type Examination Certificate number:

FTZÚ 08 Ex 0003

Product: **Three way ball valve type series KM 93xx.x...AF (AR; BF; BR; AS; HT; SB)...**

Manufacturer: **KE-ARM, s.r.o.**

Address: **Pekařská 1639/79A, 747 05 Opava, Czech Republic**

This supplementary certificate extends Certificate No. FTZÚ 08 Ex 0003 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 IEC 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 atmospheres. 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



Date of issue: 31.03.2023

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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



Schedule

Supplementary Type Examination Certificate No. 3 to FTZÚ 08 Ex 0003

Description of product changes:

The subject of this supplementary certificate is:

- Modification of the product
- Prolongation of certificate validity
- Evaluation according to the newest standards

The modification of the product marking consists in the application of a surface treatment to the product. The new marking of the product to be coated changes the explosion group IIC to the new explosion group IIB (indicated by the symbol ** and the description). In addition, some ball valve components have been added with new HT and SB designations and alternative seat materials (POM and NYLON), a full list of which can be found in the product documentation.

This supplement prolongs indefinitely the validity of the product certificate, verified according to the requirements of these standards.

The product has been evaluated according to the newest standard EN IEC 60079-0:2018. Instruction manual has been updated.

The certified product is without production, material and construction changes. 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).

Dependence of ball valve size on its type of protection and EPL:

i) Ball valve seat materials:
POM, NYLON, PTFE PEEK or DEVLON V

Size	Type of protection and EPL
DN10 to DN100	Ex h IIC** T6...T1 Ga Ex h IIIC T* °C Da Ex h I Ma
DN125 to DN300	Ex h IIB T6...T1 Ga Ex h IIIC T* °C Da Ex h IIC T6...T1 Gb Ex h I Ma

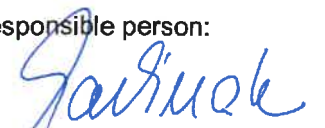
ii) Ball valve seat materials: PTFE+25%carbon, carbon + Sb or metal

Size	Type of protection and EPL
DN 10 to DN300	Ex h IIC** T6...T1 Ga Ex h IIIC T* °C Da Ex h I Ma

*) The actual maximum temperature does not depend on the product itself but on its operating conditions, especially the temperature of the working medium. The maximum operating temperature range is given by the construction material and is given in the relevant operating instructions and product data sheets.

**) If the product is provided with non-conductive surface treatment according to CLC/TR 60079-32-1:2019 Article 6.3.4, the explosion group of the product changes from IIC to IIB. The new designation of the product to be coated will be Ex h IIB T6...T1 Ga.

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Conditions for safe use in hazardous area:

1. The actual maximum temperature of ball valve, in relation to the ignition temperature of explosive atmosphere will comply with general requirements of EN 1127-1 cl. 6.4.2, eventually EN 1127-2 cl.6.4.2.
2. Ball valves will be conductively connected to the grounded part of associated apparatus.

Test report No.: 08Ex/0003/3

List of documentation: mentioned only updated documents

Number	Ver.	Sheets	Date	Description
23JDP001	--	1	28.03.2023	Manufacturer's declaration on the extension of the coating system and material of seat
MPP-01CZ	3	18	07.12.2021	Assembly operating instructions "Kulové kohouty KM 91; Kulové kohouty trojcestné KM 93; Kulové kohouty trojcestné KM 93; Kulové kohouty čtyřcestné KM 94"
KE-ARM/1658-030.3	4	1	--	Label
--	--	3	--	Technical list of paint „JV-01 antikorozi-thermo 600“
--	--	3	--	Technical list of paint „2K Akryl Antikor“
--	--	3	--	Technical list of paint „2K JV-02“
--	--	1	--	Technical list of material „POM“
--	--	6	--	Technical list of material „NYLON 6.6“
--	--	6	--	Technical list of material „NYLON“
--	--	1	29.04.2015	Declaration „Používané nátěrové systémy“

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