



Physical-Technical Testing Institute
Ostrava - Radvanice

Supplement No. 2 to Certificate No.: FTZÚ 08 Ex 0002

about verification of non-electrical apparatus for potentially explosive atmospheres

This certificate is issued for: **Straight flow ball valve type series
KM 91xx.x...AF (AR; BF; BR; AS)...**

Manufacturer: **KE-ARM, s.r.o., Pekařská 1639/79A, 747 05 Opava, Czech Republic**

Applicant: **KE-ARM, s.r.o., Pekařská 1639/79A, 747 05 Opava, Czech Republic**

This supplement of certificate is valid for: - recertification according to the specified standard
- prolongation of certificate validity

Above mentioned product and any of its variant are specified in documentation, list of which is in this certificate.

FTZÚ – National testing authority No. 210 confirms that product comply with requirements of following standards:

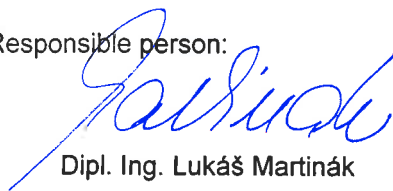
EN ISO 80079-36:2016, EN 60079-0:2012+A11:2013

Product marking: - see table shown in the product description

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 certificate is valid till: **30.04.2023**

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of certification body



Date of issue: 30.04.2018

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Annexes: --

This certificate is valid only for products described in this certificate and doesn't replace any other documents.
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Product description:

Ball valves type KM 91xx.x ..., construction variants AF; AR; BF; BR; AS are "antistatic" straight flow ball valves, primarily designed for the transport of flammable liquids and gases in areas with explosive atmospheres consisted of flammable gases, vapours or dusts.

This supplement prolongs certificate validity of the product verified according to requirements of mentioned standards. Some of the ball valve components are complemented by new material alternatives: body, cover and other metal parts materials have been expanded with additional steel grades, the complete list of which is part of the product documentation. Rest of the product construction remains unchanged. According to the mentioned standards the product marking is modified.

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 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

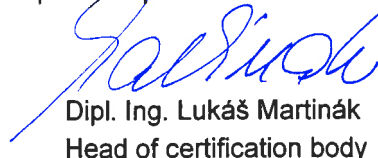
ii) ball valve seat materials PTFE+25%carbon, carbon + Sb or metal

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.

Report No.: 08/0002/2

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of certification body



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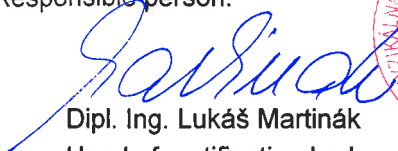
Conditions for safe use in hazardous area:

1. The actual maximum temperature of ball valve, in relation to the ignition temperature of explosive atmosphere will by 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.

List of documentation (only updated documentation listed):

Number	Version	Sheets	Date	Description
MP/03	V2R0	11	01.09.2017	Guideline "Kódové značení přímých kulových kohoutů"
MP/14	V2R0	15	01.05.2018	Guideline "Metodika realizace armatur do prostředí s nebezpečím výbuchu dle ČSN EN ISO 80079-36, splňující konstrukční požadavky NV č.116/2016 Sb. a směrnice 2014/34/EU"
MPP/01	V2R3	16	01.05.2018	Assembly operating instructions "Kulové kohouty KM 91; Kulové kohouty trojcestné KM 93; Kulové kohouty trojcestné KM 93; Kulové kohouty čtyřcestné KM 94"
NÁV/06	V1R3	11	05.03.2018	Ruling "Zkoušení kulových kohoutů KM 91 dle API 598 nebo API Spec 6D"
NÁV/08	V1R3	9	05.03.2018	Ruling "Zkoušení kulových kohoutů KM 91 dle ČSN EN 12266-1, 2"
--	R1	1	--	Material list of metal parts of ball valves

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