



Certificate No.: FTZÚ 14 Ex 0004

about verification of non-electrical apparatus for potentially explosive gas atmospheres

This certificate is issued for: **Butterfly valves - type series 900**

Manufacturer: **ABO valve, s.r.o., Dalimilova 285/54, 783 35 Olomouc, Czech Republic**

Applicant: **ABO valve, s.r.o., Dalimilova 285/54, 783 35 Olomouc, Czech Republic**

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 following standards:

EN 13463-1:2009

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.

Apparatus marking: **II 1/2 GD TX**

This certificate is valid till: **30.04.2019**

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of certification body



Date of issue: 28.08.2014

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Annexes: --

This certificate is valid only for products described in this certificate and doesn't replace any other documents.
This certificate shall not be reproduced except in full without written approval of authorized entity (FTZÚ).



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 14 Ex 0004

Product: **Butterfly valves type series 900**

Manufacturer: **ABO valve, s.r.o.**

Address: **Dalimilova 285/54, 783 35 Olomouc, Czech Republic**

This supplementary certificate extends Certificate No. FTZÚ 14 Ex 0004 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: 28.06.2024

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**Physical-Technical Testing Institute
Ostrava – Radvanice**

Schedule

Supplementary Type Examination Certificate No. 3 to FTZÚ 14 Ex 0004

Description of product changes:

The subject of this supplementary certificate is:

- Extension of the certified product series:

This supplementary certificate extends the certified product series to include variants with a sealing seat made from EPDM-015, NBR-011, FPM-002, FLUCAST AB/T and FLUCAST AB/N elastomers. The construction other material design of the product remain unchanged.

The specific operating temperature ranges are determined by the material design of the butterfly valves and they are specified in the manufacturer's documentation supplied with the product.

- Change of the product marking by the manufacturer:

Product variants in design 9xxx or 9xxxxxx:

II 1/2 G Ex h IIC T6 ... T3 Ga/Gb

II 1/2 D Ex h IIIB T85 °C ... T200 °C Da/Db

Product variant in design 99xxxIIIC (variant with conductive seat and conductive coating):

II 1/2 G Ex h IIC T6 ... T3 Ga/Gb

II 1/2 D Ex h IIC T85 °C ... T200 °C Da/Db

The determination of the maximum surface temperature and/or the assignment of the temperature class of the product in relation to the operating temperature are given in the manufacturer's documentation supplied with the product.

- Extension of certificate validity:

This supplementary certificate extends the validity of the original Certificate and Supplements no. 1 ÷ no. 2 for an unlimited period. The used materials and the construction of the already certified product remain unchanged.

This supplementary, including the previous ones and the original certificate, is valid only for the manually operated butterfly valve. The valve equipped with an actuator, pneumatic or electric, is not subject to the certificate.

Responsible person:

Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 28.06.2024

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Physical-Technical Testing Institute
Ostrava – Radvanice

Schedule

Supplementary Type Examination Certificate No. 3 to FTZÚ 14 Ex 0004

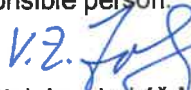
Description of product changes: (continue):

Overview of certified product variants:

9 x x x x x

<u>Coating variant:</u>	
No index =	Coating ROKOPOX MASTIC RK301-R
IIIC =	Conductive coating ALEXIT DECKLACK 412-11
<u>Material of the body:</u>	
No index =	Ductile iron 0.7040 (GGG40) with epoxy coating
CF8M =	Stainless steel 1.4408
WCB =	Carbon steel 1.0446 (A216 WCB)
LCC =	Low temperature carbon steel 1.1156 (LCC)
Al =	Aluminium EN AC43000 (C95500)
AlBr =	Aluminium bronze 2.0975 (C95800)
<u>Variant of the body:</u>	
B =	Inter-frame variant Wafer
T =	Inter-frame variant Lug
F =	Flanged design
<u>Disc material:</u>	
0 =	Brass 2.0402
2 =	Stainless steel 1.4308 (CF8)
3 =	Ductile iron 0.7040 (GGG40)
4 =	Stainless steel 1.4408 (CF8M)
5 =	Hastelloy
6 =	Stainless steel 1.4539 (Uranis B6)
<u>Seat material:</u>	
1 =	NBR-004/1
1 =	FLUCAST AB/N
2 =	EPDM-022
2 =	EPDM-015
2 =	FLUCAST AB/T
4 =	FPM-002
7 =	Epichlorhydrin (ECO-002)
9 =	NBR conductive
9 =	NBR-011
<u>Designation of the type series 900</u>	

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



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Conditions of use for hazardous areas:

1. The actual maximum temperature does not depend on the product itself but on its operating conditions, in particular on the operating medium temperature. The maximum temperature of butterfly valve in relation to the ignition temperature of explosive atmosphere will by comply with general requirements of EN 1127-1:2019, cl. 6.4.2.
2. The butterfly valve must be conductively connected to the grounded part of the downstream equipment and the measured value of the leakage resistance from the conductive and dissipative parts of the butterfly valve shall meet the requirements specified in CLC/TR 60079-32-1:2019, Article 13.
3. The ambient temperature range T_a for the butterfly valve equipped with a specific type of sealing seat is specified in the manufacturer's documentation supplied with the product.

Test report No.: 14Ex/0004/3

List of documentation: mentioned only updated documents

Number	Sheets	Date	Description
--	8	27.06.2024	Operating Instructions
--	2	21.05.2024	Product description
IMS-851-53	1	10.02.2024	Marking of seat
IMS-852-19	1	24.06.2024	Additional label
9XXXXXX00	1	21.05.2024	Drawing
9XXXXXX00	1	21.05.2024	Drawing

Responsible person:

V.2. J. J.
Dipl. Ing. Lukáš Martinák
Head of Certification Body



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