



Certificate No.: FTZÚ 14 Ex 0024

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

This certificate is issued for: **Butterfly valves - type series 3E**

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:

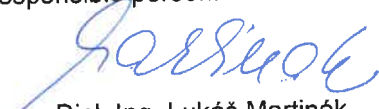
EN 13463-1:2009, EN 50303:2000

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 1G/2GD TX**
I M1

This certificate is valid till: **31.01.2020**

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of certification body



Date of issue: 12.12.2014

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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 Certificate No. 1

about verification of non-electrical apparatus for potentially explosive atmospheres
according to scheme 1a) of EN ISO/IEC 17067:2013

Type Certificate number:

FTZÚ 14 Ex 0024

Product: **Butterfly valves, 3E type series**

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**

This supplementary certificate extends Certificate No. FTZÚ 14 Ex 0024 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 ČSN EN ISO / IEC 17065: 2013 confirms that the above mentioned product is in conformity with the requirements of the following standards:

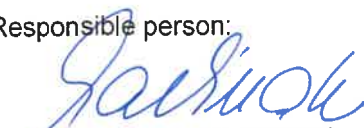
EN ISO 80079-36:2016, EN IEC 60079-0:2018

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 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.

This certificate is valid till: **31.01.2025**

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 28.01.2020

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

Supplementary Type Certificate No. 1 to FTZÚ 14 Ex 0024

**about verification of non-electrical apparatus for potentially explosive atmospheres
according to scheme 1a) of EN ISO/IEC 17067:2013**

Description of product changes:

The subject of this supplementary certificate is:

- product recertification according to the requirements of the mentioned standards,
- prolongation of certificate validity,
- extension of certified product series.

Originally certified product series is extended with double flange butterfly valves (DF variants), where the connecting flanges are part of the valve design. In the original valve series, the pipeline installation is carried out using external flanges. Other construction and material valve design are not underwent significant changes except for the way of securing the sealing for valves of DN 150 and higher size, where the sealing is secured by a seat fixed by flange to the valve body and by the lamellar ring fixed also by flange to the butterfly. The valves surface treatment is newly performed with CELEROL 962-15 paint.

The valves service temperature range is given by their material design, the maximum range is from -100 °C to +500 °C.

In compliance with the mentioned standards, (see title page of the certificate) the product marking is modified:

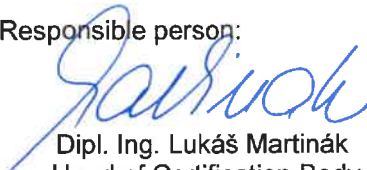
II 1/2G IIC 40°C ... 500°C Ga/Gb
II 1/2D IIIC T40°C ... T500°C Da/Db
I M1 I Ma

The following conditions apply to the surface temperature of product T in relation to its service temperature T_{service} :

$T_{\text{service}} < 40^{\circ}\text{C}$: $T=40^{\circ}\text{C}$

$T_{\text{service}} \geq 40^{\circ}\text{C}$: $T=T_{\text{service}}$

Responsible person:


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Head of Certification Body



Date of issue: 28.01.2020

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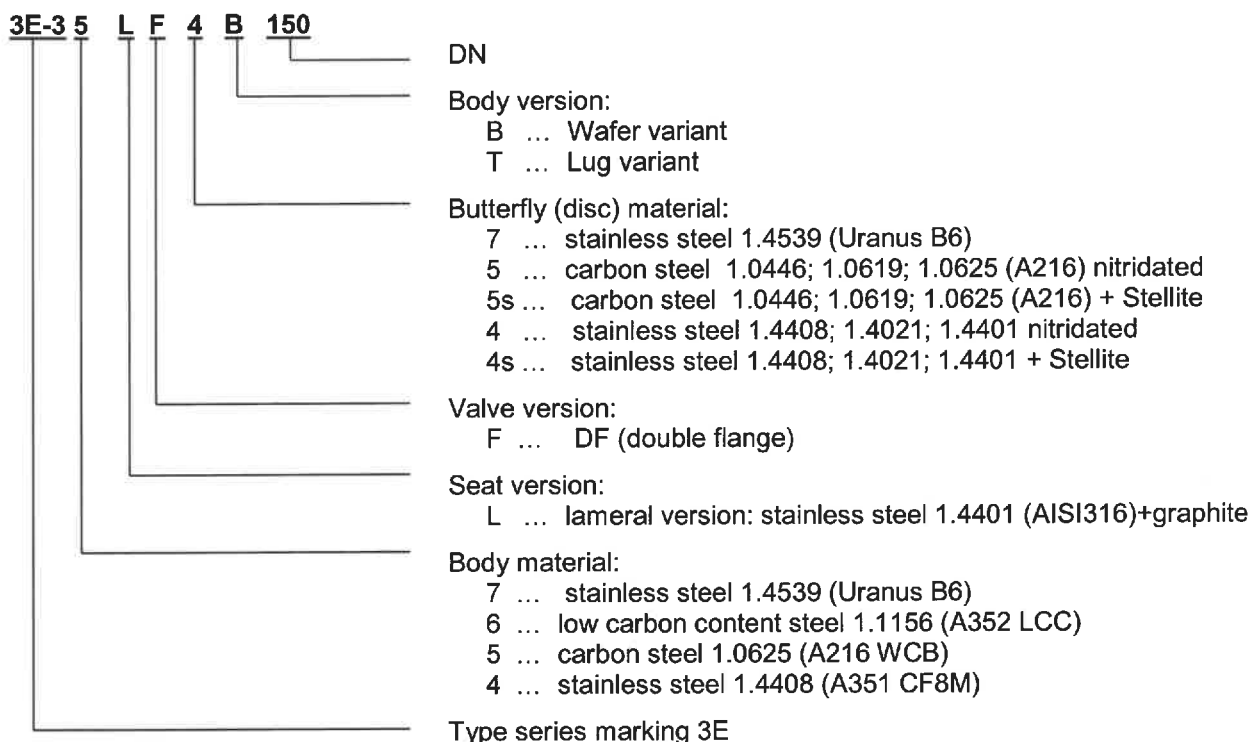


Physical-Technical Testing Institute
Ostrava – Radvanice

Supplementary Type Certificate No. 1 to FTZÚ 14 Ex 0024

about verification of non-electrical apparatus for potentially explosive atmospheres
according to scheme 1a) of EN ISO/IEC 17067:2013

Example of code marking and overview of approved variants of the butterfly valves:



Test report No.: 14/0024/1

Specific Conditions of Use: none

Essential conditions for use in hazardous areas:

1. The valve maximum temperature does not depend on the product itself, but on its operating conditions, in particular the operating medium temperature and ambient temperature. The valve maximum surface temperature in relation to the ignition temperature of explosive atmosphere will comply with the general requirements of EN 1127-1, cl. 6.4.2 or of EN 1127-2, cl.6.4.2 eventually.
2. The valve will be grounded through its earthing clamp. Grounding will meet the requirements of CLC/TR 60079-32-1, cl. 13.
3. Other essential safety requirements are covered by the standards listed on the title page of this document.

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