



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Ex COMPONENT CERTIFICATE

Certificate No.:	IECEx BVS 20.0024U	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 2	Issue 1 (2025-06-13) Issue 0 (2020-06-22)
Date of Issue:	2026-01-05		
Applicant:	Bürkert Werke GmbH & Co. KG Christian Bürkert Str. 13 - 17 74653 Ingelfingen Germany		
Ex Component:	Valve island type 8652*		

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **Dust ignition protection by enclosure "t"; Increased safety "e"**

Marking: Ex ec IIC Gc
Ex tc IIIC Dc


Approved for issue on behalf of the IECEx
Certification Body:

Deniz Pezzutto

Position:

Certification Manager

Signature:
(for printed version)

2026-01-05


Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

DEKRA Testing and Certification GmbH
Certification Body
Dinnendahlstrasse 9
44809 Bochum
Germany





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Manufacturer: **Bürkert Werke GmbH & Co. KG**
Christian-Bürkert-Str. 13-17
74653 Ingelfingen
Germany

Manufacturing locations: **Bürkert Werke GmbH & Co. KG**
Keltenstraße 10
74653 Ingelfingen
Germany

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended

STANDARDS :

The component and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the component listed has successfully met the examination and test requirements as recorded in:

Test Report:

[DE/BVS/ExTR20.0031/01](#)

Quality Assessment Report:

[HR/FIDI/QAR25.0003/01](#)



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Ex Component(s) covered by this certificate is described below:

Subject and Type

Valve island type 8652*

The * represents various variants which are precisely specified in the manufacturer's documentation and have no influence on explosion protection.

Description

The valve island type 8652* is used to control pneumatic systems via a given fieldbus system.

It consists of electrical and pneumatic components and has a modular design in various configurations.

The interface to the fieldbus system is provided by the device head (gateway type ME43).

For use in zone 2 / zone 22, the valve terminal must be installed in a housing/cabinet.

Parameters

supply voltage	DC	24 V (±10 %)
maximum quantity of magnetic valves		48
limits of service temperature (at the mounting seal)		-10 °C ...+80 °C

SCHEDULE OF LIMITATIONS:

1. The Valve island type 8652* has to be built in an enclosure fulfilling the relevant requirements of IEC 60079-0 and IEC 60079-7 ("ec") and/or IEC 60079-0 and IEC 60079-31 ("tc") and has a degree of protection of at least IP64.
2. The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1.
3. Transient protection shall be provided that is set at a level not exceeding 140 % of the peak rated voltage value at the supply terminals to the equipment.
4. The connection terminals shall only be plugged and unplugged in a de-energized state.
5. The power supply of the valve island must fulfil PELV criteria.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Change of the relevant QAR
- Electronic modules (with or without digital inputs) can now optionally be replaced by a blank cover optionally with an alternative feed-in module
- Internal LED driver can now optionally be replaced by single FETs
- Optional Profinet S2 and bUS/CANopen protocols are added (modification in software)
- Optional use of smaller backplanes with identical functions while reducing the number of interfaces
- Optional use of 3/2-way valves for emulation of an 8640 valve island
- Optional use of connection module with threaded connection added
- Optional use of compact supply manifolds (16, 20 and 24 folds) combined with mechanical fitted adapters and gaskets
- Optional use of another plastic material for an internal protective cover
- Optional use of a dummy plug