



# 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](http://www.iecex.com)

Certificate No.: **IECEX BVS 14.0009X** Page 1 of 5 Certificate history:  
Status: **Current** Issue No: 2 [Issue 1 \(2017-10-26\)](#)  
[Issue 0 \(2014-01-31\)](#)  
Date of Issue: 2023-08-16  
Applicant: **Bürkert Werke GmbH & Co. KG**  
Christian-Bürkert-Str. 13-17  
74653 Ingelfingen  
Germany  
Equipment: **Pneumatic control unit type 8690 up to 8696 and 8798**  
Optional accessory:  
Type of Protection: **Equipment dust ignition protection by enclosure "t", Equipment protection by increased safety "e"**  
Marking: Ex ec IIC T4 Gc  
Ex tc IIIC T135°C Dc

Approved for issue on behalf of the IECEx  
Certification Body:

**Dr Franz Eickhoff**

Position:

**Senior Lead Auditor, Certification Manager and officially  
recognised expert**

Signature:  
(for printed version)

  
2023-08-16

Date:  
(for printed version)

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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**  
Christian-Bürkert-Str. 13-17  
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 equipment 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 60079-31:2022](#) Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:3.0

[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 equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[DE/BVS/ExTR14.0012/02](#)

Quality Assessment Report:

[DE/PTB/QAR07.0002/12](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

### Subject and Type

Pneumatic control unit type 8690 up to 8696 and 8798

### Description

The pneumatic control unit is used to control pneumatic actuated process valves (e.g. stroke valves, as a seat or diaphragm valve).

The electronic is built in a plastic enclosure with transparent cover.

The electrical supply is carried out either via a separately certified cable entry or via a circular plug and socket connector (multipole).

The connection to the process valve is realized by special assembly kits which are not part of this test report.

The pneumatic connection is not part of this test report.

No use of components referring to older standards

### SPECIFIC CONDITIONS OF USE: YES as shown below:

1. For Equipment with round connector (Multipol) the mating connector supplied shall be used. This has to be used with a special locking clip which prevents the plug from being loosened without a tool.
2. Equipment with round connector (Multipol) has to be protected against mechanical energy > 4J.
3. Equipment with round connector (Multipol) have to be installed in a way that they are protected against UV radiation.
4. The connection to the control valve shall only be realized by special assembly kits. They shall be in accordance with all applicable clauses of EN 60079-0, EN 60079-7 and EN 60079-31. A minimum degree of protection IP 54 according to EN 60529 shall be ensured.
5. The pneumatic connection has to be realized with suitable elements.
6. The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1.
7. 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.
8. Parallel threads of less than 5 threads has to be provided by an additional seal or gasket to ensure the degree of protection. They shall be in accordance with all applicable clauses of EN 60079-0, EN 60079-7 and EN 60079-31.



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## Equipment (continued):

### Parameters

#### Electrical parameters

Nominal voltage	DC	24 V
Power loss pilot valve	app.	1 W

#### Thermal parameters

Permitted ambient temperature range

Types 8690, 8691, 8695	
with pilot valve	-10 °C...+55 °C
without pilot valve	-20 °C...+60 °C
Types 8692, 8693	-10 °C...+55 °C
Type 8694	-10 °C...+60 °C
Type 8696	-10 °C...+55 °C
Type 8798	-25 °C...+80 °C
Temperature class	T4
Maximum surface temperature T	135 °C



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## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Updating of the standards
- For the variants with round plug (multipole), the mating plug is supplied by the manufacturer and was included in the tests. This results in additional special conditions for use for these variants.
- Change of drawing numbers due to different filing system at the manufacturer.