

Translation

# Type Examination Certificate

Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014

Type Examination Certificate Number: **BVS 14 ATEX E 008 X** Issue: **01**

Equipment: **Pneumatic Control Unit type 8690 up to 8696 and 8798**

Manufacturer: **Bürkert Werke GmbH & Co. KG**

Address: **Christian-Bürkert-Str.13-17, 74653 Ingelfingen, Germany**

This product and any acceptable variations thereto are specified in the appendix to this certificate and the documents referred to therein.

DEKRA Testing and Certification GmbH certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive. The examination and test results are recorded in the confidential Report No. BVS PP 14.2024 EU. This issue of the Type Examination Certificate replaces the previous issue of the Type Examination Certificate BVS 14 ATEX E 008 X including supplement 1.

The Essential Health and Safety Requirements are assured in consideration of:

<b>EN IEC 60079-0:2018</b>	<b>General requirements</b>
<b>EN IEC 60079-7:2015+A1:2018</b>	<b>Increased Safety "e"</b>
<b>IEC 60079-31:2022</b>	<b>Protection by Enclosure "t"</b>

Where additional criteria beyond those given here have been used, they are listed at item 18 in the Schedule.

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed under item 17 of this certificate.

This Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

The marking of the product shall include the following:

 **II 3G Ex ec IIC T4 Gc**  
**II 3D Ex tc IIIC T135°C Dc**

DEKRA Testing and Certification GmbH  
Bochum, 2023-08-01

Signed: Oliver Brumm

Managing Director

13 **Appendix**

14 **Type Examination Certificate**

**BVS 14 ATEX E 008 X Issue 01**

15 **Product description**

15.1 **Subject and type**

Pneumatic Control Unit type 8690 up to 8696 and 8798

15.2 **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.

**Reason. for this issue:**

- 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.

No components used referring to older standards.

15.3 **Parameters**

15.3.1 **Electrical parameters**

Nominal voltage	DC	24 V
power loss pilot valve	ca.	1 W

15.3.2 **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

**16 Report Number**

BVS PP 14.2024 EU, as of 2023-08-01

**17 Specific Conditions of Use**

- 17.1 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.
- 17.2 Equipment with round connector (Multipol) has to be protected against mechanical energy > 4J.
- 17.3 Equipment with round connector (Multipol) have to be installed in a way that they are protected against UV radiation.
- 17.4 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 IEC 60079-0, EN IEC 60079-7 and IEC 60079-31. A minimum degree of protection IP 54 according to EN 60529 shall be ensured.
- 17.5 The pneumatic connection has to be realized with suitable elements.
- 17.6 The equipment shall only be used in an area of at least pollution degree 2, as defined in EN 60664-1.
- 17.7 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.
- 17.8 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 IEC 60079-0, EN IEC 60079-7 and IEC 60079-31.

**18 Essential Health and Safety Requirements**

Met by compliance with the requirements mentioned in item 9.

The standard IEC 60079-31:2022 is safety-related equivalent to the harmonized standard EN 60079-31:2014 for this device.

**19 Remarks and additional information**

Drawings and documents are listed in the confidential report.

We confirm the correctness of the translation from the German original.  
 In the case of arbitration only the German wording shall be valid and binding.

DEKRA Testing and Certification GmbH  
 Bochum, 2023-08-01  
 BVS-Hk/MGR A 20201119 / 3420790

  
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 Managing Director