



# 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 16.0091X**

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Certificate history:

Status: **Current**

Issue No: 2

Issue 1 (2020-05-11)

Issue 0 (2016-12-19)

Date of Issue: 2025-06-13

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

Equipment: **Positioner type 879\***

Optional accessory:

Type of Protection: **Intrinsic safety "i", Dust ignition protection by enclosure "t", Increased safety "e"**

Marking: **Ex ec ic IIC T4 Gc**  
**Ex tc IIIC T135°C Dc**

Approved for issue on behalf of the IECEx  
Certification Body:

**Dr Michael Wittler**

Position:

**Deputy Head of Certification Body**

Signature:  
(for printed version)

Date:  
(for printed version)

2025-06-13

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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**  
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 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 60079-11:2011** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition: 6.0
- 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 equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

**DE/BVS/ExTR16.0090/01**

Quality Assessment Report:

**HR/FIDI/QAR25.0003/00**



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

### Subject and Type

See Annex

## Description

The positioner type 879\* is used to control 3<sup>rd</sup> party valves (linear and rotary actuators). It will be mounted via special assembly kits at the pneumatic actuator of the control valve.

The positioner type 8791 is different to the type 8792. It is a version without a display and therefore without some functions. The type 8793 is a version of the 8792 with an additional process controller.

There are two possibilities for all variants to connect the wires, cable glands or circular connectors, also two kind of input signals, norm signal or fieldbus.

The Remote Version is a positioner without an integrated stroke measurement system. This one could be connected to an external measurement system.

## Parameters

### Electrical data

type 8792/8793	DC	24 V $\pm$ 10 %	
type 8791	DC	24 V $\pm$ 25 %	or
	DC	30 V	bus power via AS interface
current			
type 8791	max.	190 mA	
types 8792/8793	max.	210 mA	

### Thermal data

permitted ambient temperature range	0 °C up to + 60 °C
temperature class (gas)	T4
max. surface temperature (dust)	135 °C

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

1. The equipment shall not be used in dust atmospheres with strong charge generating processes leading to propagating brush discharges.
2. The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60994-1.
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. For the variant with cable plug this plug is provided by the end user in the end use application. This plug is no part of this test report and shall be in accordance with all applicable clauses of IEC 60079-0, IEC 60079-7 and IEC 60079-31. A minimum degree of protection IP65 according to IEC 60529 shall be ensured.
5. For devices with round connector (multipole) a special safety clip shall be used preventing the disconnection of the plug without tool.
6. The remote version type 8791 can be carried out without the cover of the housing in case it is mounted in a control cabinet fulfilling all relevant aspects of IEC 60079-0, IEC 60079-7 and IEC 60079-31.



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

- Correction of the applicant name and manufacturing location
- Change of the linked QAR

**Annex:**

[BVS\\_16\\_0091X\\_Bürkert\\_Annex\\_2.pdf](#)



# IECEX Certificate of Conformity



**Certificate No.:** IECEx BVS 16.0091X issue No: 2

**Annex**

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## Subject and Type

Positioner Type 879a bc de fghi j k lm no p q r s tuvw

a	Type	1	side/remote control basic
		2	side/remote control
		3	side/remote control PID
bc	Pneumatic function	00	without valve
		D3	double acting QNn=100 l/min
		E1	single acting DN 0,6
de	Proximity switch	00	without
fghi	Flange pattern	RM01	Remote Version
		FA06	= NAMUR-Flange
j	Supply voltage	E	DC 24 V
		3	via Bus
		T	DC 24 V galvanically isolated actuator supply
k	Driving	A	4 – 20 mA
		F	0 - 10 V, 0 – 5 V, 4 – 20 mA, 0 – 20 mA adjustable
		N	seriell (via Bus)
lm	Electr. Connection	KD	cable entry
		MP	Multipol
no	Fluidic connectors	GI	G 1/4
p	Operation / Configuration	0	without
		T	Keyboard and display internally
q	Inputs / Outputs	0	without
		A	1 analog output
		B	1 analog output + 2 Binary outputs
		C	2 Binary outputs
		D	1 Binary outputs
		E	1 Binary outputs + 1 analog output
		F	1 binary input+ 1 analog output + 2 Binary outputs
		G	1 binary input + 2 Binary outputs
r	Additional functions	0	without
		A	optional 4 ... 20mA (without PID) or RS485 interface for ext. WMNS (with PID)
		Q	Potentiometer input for external WMS (Pot.)
		R	RS485 interface for external digital WMS
		0	without
s	Communication	A	AS-Interface 31 slaves
		C	AS-Interface 62 slaves analog profile
		D	Device Net
		Y	Profibus DP-V1
		G	büS
		I	Service-büS + Ethernet IP
		J	Service-büS + Profinet
		K	Service-büS + Modbus TCP
		L	Service-büS
tuvw	Variable Code	Q	Service-büS + IO-Link
		PX45	