



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.: IECEx EPS 18.0038X Issue No: 0 Certificate history:
Issue No. 0 (2019-06-18)

Status: **Current**

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Date of Issue: **2019-06-18**

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

Equipment: **Solenoid for valve control type AC10 - .. - -**
Optional accessory: *None*

Type of Protection: **ia**

Marking:
Ex ia IIC T6/T4 Gb
Ex ia IIIC T135°C Db

Approved for issue on behalf of the IECEx
Certification Body:

Holger Schaffer

Position:

Certification Manager

Signature:
(for printed version)

Date:

2019-06-18



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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

Bureau Veritas Consumer Products Services Germany GmbH
Businesspark A96
86842 Türkheim
Germany





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Date of Issue: **2019-06-18** Page 2 of 3
Manufacturer: **Bürkert Werke GmbH & Co. KG**
Christian-Bürkert-Straße 13-17
74653 Ingelfingen
Germany

Additional Manufacturing location(s):

Bürkert Werke GmbH & Co. KG
Landauer Straße 24
74582 Gerabronn
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 apparatus 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

*This Certificate **does not** indicate compliance with electrical 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/EPS/ExTR18.0035/00](#)

Quality Assessment Report:

[DE/PTB/QAR07.0002/08](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The solenoid coil type AC10 - .. - . - is used to control valves, which regulate gaseous or fluid media.

The device is allowed to operate in potentially explosive atmosphere (gas, dust).

SPECIFIC CONDITIONS OF USE: YES as shown below:

The equipment has to be protected against electrostatic charge/ discharge. Refer the user manual with special conditions.

Annex

[IECEX EPS 18.0038X - Annex.pdf](#)



Electrical data:

Supply: In type of protection Intrinsic Safety only for the connection of certified intrinsically safe circuits.

Gas:

	Type AC10-...-5-... Type AC10-...-6-...		Type AC10-...-5-...	
	Single assembling		Block assembling	
Ex grouping	IIC			
Category	ia			
Temperature class	T6	T4	T6	T4
Max. input voltage U_i	35 V	35 V	35 V	35 V
Max. input current I_i	0,9 A	0,9 A	0,9 A	0,9 A
Max. input power P_i	0,9 W	2,5 W	0,65 W	1,5 W
Li, Ci negligible				

Dust:

	Type AC10-...-5-... Type AC10-...-6-...		Type AC10-...-5-...	
	Single assembling		Block assembling	
Ex grouping	IIIC			
Category	ia			
Temperature class	T135°C			
Max. input voltage U_i	35 V		35 V	
Max. input current I_i	0,9 A		0,9 A	
Max. input power P_i	0,68 W		0,68 W	
Li, Ci negligible				



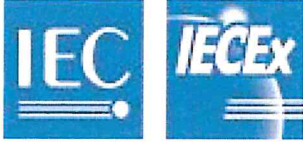
Ambient temperature range:

Single assembling:

VAR	Coil size	Temperature class/ Surface temperature	Ambient temperature range (°C) Gas/ dust	L x B x H (mm)	Coil resistance (R ₂₀ in Ω)		
					Standard	MT68	MU34
PX53	5	T6/135°C	-40 – 60/ 65°C	45x32x41	310	481	-
PX52	5	T4/ 135°C	-40 - 75/ 65°C	45x32x41	310	481	-
PX55	6	T6/135°C	-40 - 60/ 65°C	50x40x41	310	481	115
PX54	6	T4/ 135°C	-40 - 75/ 65°C	50x40x41	310	481	115

Block assembling:

VAR	Coil size	Temperature class/ Surface temperature	Ambient temperature range (°C) Gas/ dust	L x B x H (mm)	Coil resistance (R ₂₀ in Ω)		
					Standard	MT68	MU34
PX53	5	T6/135°C	-40 - 60/ 65°C	45x32x41	310	481	-
PX52	5	T4/ 135°C	-40 - 75/ 65°C	45x32x41	310	481	-



Annex to Certificate
IECEx EPS 18.0038X Issue No.: 0



Type key:

AC10 – SAS – SG - VAR

Object	Description	Value
Type	Bürkert typing	AC10
SAS	Interface between armature and solenoid	U3
SG	Size solenoid (32mm) (40mm)	5 6
SW	Winding solenoid	23IA 25IA 30IA 21IA 23IB
VAR	High resistance Specific construction Standard	MT68 MU34 n/a
VAR	Marking for Ex devices Coding of technical data and condition of use	PX52 PX53 PX54 PX55
VAR	Coding of cable length Example: 3m cable length	JW** JW10
VAR	Terminal box	JA12

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