



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

Certificate No.:	IECEX BVS 11.0018X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 2	Issue 1 (2017-03-13) Issue 0 (2011-07-05)
Date of Issue:	2021-05-20		
Applicant:	Wandfluh AG Helkenstraße 13 3714 Frutigen Switzerland		
Equipment:	Solenoid type MKY45/18x60-*/L* ** * * * #*		
Optional accessory:			
Type of Protection:	Equipment protection by flameproof enclosures "d"		
Marking:	Ex db I Mb Ex db IIC T6/T4 Gb Ex tb IIIC T80°C/T130°C Db		

Approved for issue on behalf of the IECEX
Certification Body:

Dr Michael Wittler

Position:

Deputy Head of Certification Body

Signature:
(for printed version)

Date:

20.05.2021

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

 **DEKRA**
On the safe side.



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Manufacturer: **Wandfluh AG**
Helkenstraße 13
3714 Frutigen
Switzerland

Additional
manufacturing
locations:

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 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

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/ExTR11.0070/02](#)

Quality Assessment Report:

[CH/SEV/QAR16.0001/04](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Subject and Type

See Annex

Description

The solenoid, type MKY45/18x60-*/L* * * * #*, meets the requirements of the type of protection "Flameproof Enclosure" for group I and II and the requirements of the type of protection "Protection by enclosure" for group III. In connection with an axial conduit, which is not part of the solenoid, the solenoid is intended to operate valves in hydraulic circuits. The connection of the supply is made by a separately certified direct cable entry or a separately certified conduit system.

Listing of all components used referring to older standards:

None

Parameters

See Annex

SPECIFIC CONDITIONS OF USE: YES as shown below:

Some of the dimensions of the flameproof joints of this product exceed the permissible minimum values or go below the permissible maximum values which are given by IEC 60079-1:2014. For information concerning these dimensions contact the manufacturer.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- The range of this certificate is extended to Group II (type of protection Flameproof enclosure) and Group III (type of protection Protection by enclosure)
- IEC 60079-0 is up-dated to edition 7.0
- Non-ex-relevant M-Numbers not to be certified explicitly anymore
- Variant "K9" is manufactured with an encasement made of stainless steel ("bodyshell-box") instead of a coating made by thermal spraying
- The top cover screw is slightly modified to provide more internal space for larger terminals
- Maximum allowable ambient temperatures new evaluated, installation condition "stack assembly" with lesser distance permitted
- Electrical parameter slightly modified
- Information on marking plate changed
- Optional metal label included