



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 BVS 09.0047	issue No.:0	Certificate history:
Status:	Current		
Date of Issue:	2009-08-11	Page 1 of 3	
Applicant:	Wandfluh Hydraulik + Elektronik AG Helkenstrasse 13 3714 Frutigen Switzerland		
Electrical Apparatus: <i>Optional accessory:</i>	Solenoid coil type **Z45-***		
Type of Protection:	protection by intrinsic safety "i"		
Marking:	Ex ia I Ma Ex ia IIC T5 Ga Ex ia IIC T6 Ga		
<i>Approved for issue on behalf of the IECEx Certification Body:</i>	Dr. F. Eickhoff		
<i>Position:</i>	Deputy Head of Certification Body		
<i>Signature: (for printed version)</i>	_____		
<i>Date:</i>	_____		

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:

DEKRA EXAM GmbH
Dinnendahlstrasse 9
44809 Bochum
Germany

 **DEKRA**
DEKRA EXAM GmbH



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Certificate No.: IECEx BVS 09.0047

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Page 2 of 3

Manufacturer: **Wandfluh Hydraulik + Elektronik AG**
Helkenstrasse 13
3714 Frutigen
Switzerland

Manufacturing location(s):

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 electrical 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 : 2007-10 Explosive atmospheres - Part 0: Equipment - General requirements
Edition: 5

IEC 60079-11 : 2006 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition: 5

*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/BVS/ExTR09.0043/00](#)

Quality Assessment Report:
[DE/PTB/QAR09.0002/00](#)



IECEx Certificate of Conformity

Certificate No.: IECEx BVS 09.0047

Date of Issue: 2009-08-11

Issue No.: 0

Page 3 of 3

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Description

The solenoid coils serve for actuation of valves. At type M**Z45-*** the coil will be mounted on to the axial conduit and at type I**Z45-*** the coil will be flanged at a valve. The solenoid coils consist of a coil and a printed circuit board which are totally encapsulated inside a metal enclosure.

The Group II version has optionally a connection box with terminals (type *K*Z45-***) or with a connector (type *B*Z45-***).

Type designation

See Annex

CONDITIONS OF CERTIFICATION: NO

Annexe: [BVS_09_0047_Wandfluh_Annex.pdf](#)



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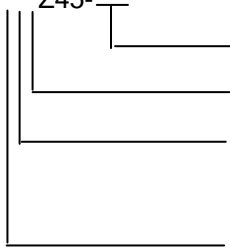


Certificate No.: IECEx BVS 09.0047
Annex
Page 1 of 1

Type designation

Instead of the *** in the complete denomination letters or numerals will be inserted which characterize modifications:

Type ***Z45-***



Numeral for coil resistance in Ohm

Index design

Electrical connection

K = terminals

B = connector

M = plug-in coil type

I = flange type