



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 SEV 16.0005X** issue No.: **0** Certificate history:

Status: **Current**

Date of Issue: **2016-05-23** Page 1 of 3

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

Electrical Apparatus: **Solenoid coil M*Z45-***_*****
Optional accessory:

Type of Protection: **Intrinsic safety "ia"**

Marking: **Ex ia I Ma**
Ex ia IIC T5 Ga
Ex ia IIC T6 Ga

*Approved for issue on behalf of the IECEx
Certification Body:*

Martin Plüss

Position:

Manager Product Certification

*Signature:
(for printed version)*

Date:

2016-05-23

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.

Certificate issued by:

Electrosuisse div. Testing and Certification
Luppenstrasse 1
CH-8320 FEHRALTORF
Switzerland





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Page 2 of 3

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

Additional 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 : 2011 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 Edition: 6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-26 : 2014-10 Edition: 3.0	Explosive atmospheres – Part 26: Equipment with Equipment Protection Level (EPL) Ga

*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:
CH/SEV/ExTR16.0006/00

Quality Assessment Report:

CH/SEV/QAR16.0001/00



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Date of Issue: 2016-05-23

Issue No.: 0

Page 3 of 3

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Solenoid coil **Z45-***_***

The solenoid coils serve for actuation of hydraulic valves. At type M*Z45-*** the coil will be mounted on to the axial armature tube. The solenoid coils consist of a coil and a printed circuit board which are totally encapsulated inside a metal enclosure. The Group I version has optionally a connection box with terminals (type MKZ45-***) or with a connector (type MBZ45-***).

For Details see annexe to certificate.

CONDITIONS OF CERTIFICATION: YES as shown below:

For Group I types MBZ45-***, MDZ45-***, MGZ45-*** and MJZ45-*** the connector of the solenoid must be installed protected against Impact.