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 FTZU 14.0005U	Issue No: 1	Certificate history:
			Issue No. 1 (2014-06-30)
Status:	**Current**	Page 1 of 6	Issue No. 0 (2014-02-26)
Date of Issue:	**2014-06-30**		

Applicant: **RIBCO S.r.l.**
Via dei Mille, 12
20061 Carugate - MI
Italy

Electrical Apparatus: **Empty enclosures types R...; RI...; RJ...; RO...; ROI...; ROJ...; SRI...; SROI; EMH90***

Optional accessory:

Type of Protection: **Flameproof enclosure "d", Dust ignition protection "t"**

Marking:

Ex d IIC Gb

Ex tb IIIC Db

Ex d I Mb (stainless steel or brass variant only)

Approved for issue on behalf of the IECEx Certification Body: Dipl.Ing. Lukáš Martinák

Position: Head of Certification Body

Signature:
(for printed version)

Date:

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:

Fyzikalne technicky zkusebni ustav
(Physical -Technical Testing Institute)
Pikartska 7
71607 Ostrava - Radvanice
Czech Republic

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Manufacturer:	**RIBCO S.r.l.** Via dei Mille, 12 20061 Carugate - MI **Italy**	
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 60079-1 : 2007-04 Edition:6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2008 Edition:1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'

*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:

CZ/FTZU/ExTR14.0005/00 CZ/FTZU/ExTR14.0005/01

Quality Assessment Report:

IT/CES/QAR11.0001/02

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The product is Ex component.
The empty enclosures types R…, RO…, RI…, RJ…, ROI…, ROJ…, SRI…, SROI… are aluminium, brass or stainless steel enclosures with threaded cover with or without sight glass. Enclosure can be alternatively prolonged by threaded extension. Extension and cover are locked by screws with hex socket and are sealed with o-rings.
Enclosure is equipped with 1 to 5 NPT or Metric threaded holes.

The object of this issue No. 1 is as follow:

Extension of empty type series enclosure by aluminium enclosure with threaded cover with sight glass type EMH90*. Enclosure is equipped with one Metric M25x1,5 (type EMH90M) threaded entry or with one ¾" NPT threaded entry (type EMH90N).

Construction and technical parameters of enclosures types R…; RI…; RJ…; RO…; ROI…; ROJ…; SRI…;SROI remain unchanged.
Technical specification:
Degree of protection: IP66
Service temperature: -40°C ÷ 110°C with EPDM O-ring
-50°C ÷ 160°C with Silicone O-ring
Routine overpressure tests are not required for types R…, RI…, RJ… , for RO…; ROI…; ROJ…; SRI…;SROI types is required 20 bar test, for type EMH90* is required 13 bar routine overpressure test .

CONDITIONS OF CERTIFICATION: NO

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EQUIPMENT (continued):

Type designation:
(a) (b) (c) (d)

(a) – Type:
R* Aluminium enclosure without sight glass
R*I stainless steal enclosure without sight glass;
R*J brass enclosure without sight glass
RO* Aluminium enclosure with sight glass
RO*I stainless steal enclosure with sight glass;
RO*J brass enclosure with sight glass
SR*I stainless steel enclosure without sight glass, with soldered threaded hole
SRO*I stainless steel enclosure with sight glass, with soldered threaded hole
* Number and position of threaded holes – A; B; C; L; D;M;T;W;X;XA
(b) – Dimension of cable entries

1 – 1/2” NPT	20 – M20x1.5
2 – 3/4" NPT	25 – M25x1.5
3 – 1” NPT	32 – M32x1.5
4 – 1.1/4” NPT	40 – M40x1.5
5 – 1.1/2” NPT	50 – M50x1.5
6 – 2” NPT	63 – M63x1.5

K – Mixed
(c) Size of the enclosure – 4; 6; 6A; 7; 8; 9
(d) – Internal height of enclosure.
EMH90M one metric M25 x 1,5 threaded entry
EMH90N one 3/4" NPT threaded entry

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

Extension of type series by enclosures type EMH90*. Construction and technical parameters of enclosures types R…; RI…; RJ…; RO…; ROI…; ROJ…; SRI…;SROI remain unchanged.

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Additional information:

Schedule of limitations:

1) Maximum numbers of holes, their size and position are given in manual No. IS-CROI-00, IS-CRO-00 and IS-CEMH-00.

2) A circuit breakers or contactors containing oil filling and apparatus producing turbulences are not allowed to be installed inside of the enclosure.

3) The empty enclosure can be used for electrical equipment designed for ambient temperature not exceed range from -40°C ÷ 85°C (with EPDM O-ring) and -50°C ÷ 85°C (with silicone O-ring).

4) Apparatus installed inside of enclosure can has any lay-out, which ensures, that in any cross-section area will be at leas 40% of area free.

5) Service temperature range for sight glass is from -50°C to +160°C. Service temperature for EPDM o-ring is from -40°C to +110°C and service temperature for Silicone O-ring is from -50°C to +160°C.

6) Appropriate certify cable glands for direct entry has to be used.

7) Mechanical resistance for types RJ…, ROJ… matches to low risk of mechanical danger, for component group I.

8) Component must be installed to avoided a risk from propagating brush discharges.