



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 SIR 06.0076X issue No.:1

Status: **Current**

Certificate history:
Issue No. 1 (2007-10-8)
Issue No. 0 (2006-9-27)

Date of Issue: **2007-10-08** Page 1 of 4

Applicant: **R. STAHL Schaltgeräte GmbH**
Am Bahnhof 30
74638 Waldenburg (Württ)
Germany

Electrical Apparatus: **8163/2-****-A2FRC-** Range of Cable Glands**
Optional accessory:

Type of Protection: **Flameproof, Increased Safety and Dust**

Marking: **Ex d IIC/Ex e II /Ex nR II or
Ex d IIC or
Ex e II or
Ex tD A21 IP66**

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

D R Stubbings BA MIET

Position:

Certification Manager

*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](http://www.iecex.com).

Certificate issued by:

SIRA Certification Service
South Hill
Chislehurst
Kent BR7 5EH
United Kingdom

sira
CERTIFICATION



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Manufacturer: **R. STAHL Schaltgeräte GmbH**
Am Bahnhof 30
74638 Waldenburg (Württ)
Germany

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 : 2004 Edition: 4.0 | Electrical apparatus for explosive gas atmospheres - Part 0: General requirements |
| IEC 60079-1 : 2003 Edition: 5 | Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosure 'd' |
| IEC 60079-15 : 2005-03 Edition: Ed 3 | Electrical apparatus for explosive gas atmospheres Part 15: Construction, test and Marking of Type of Protection "n" electrical apparatus |
| IEC 60079-7 : 2001 Edition: 3 | Electrical apparatus for explosive gas atmospheres - Part 7: Increased safety 'e' |
| IEC 61241-0 : 2004 Edition: 1 | Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements |
| IEC 61241-1 : 2004 Edition: 1 | Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD" |

*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:

[GB/SIR/ExTR06.0086/00](#)
[GB/SIR/ExTR07.0084/00](#)

Quality Assessment Report:

[DE/PTB/QAR06.0001/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The 8163/2-****-A2FRC-** range of cable glands are intended to terminate circular braided or unarmoured cables into enclosures without compromising the explosion protection provided by the enclosures in accordance with relevant codes of practice. They consist of a male-threaded front entry component, a compression nut and either an outer captivated or running coupling. The front entry component, fitted with an Evoprene Super G621 elastomeric sealing ring and a carbon steel 'C' clip (sizes 16 to 50), is intended to screw into an entry point of its associated enclosure. The seal actuation nut threads into the front entry component thereby effecting flameproof and environmental sealing onto the cable outer sheath. The outer running coupling is retained in the seal actuation nut using the carbon steel 'C' clip to allow free running thread connection to conduit.

For Gland Sizes refer to the Annexe

CONDITIONS OF CERTIFICATION: YES as shown below:

The 8163/2-****-A2FRC-** type cable glands shall only be used where the temperature, at the point of entry, is between -60°C to +130°C.
The 8163/2-****-A2FRC-** type cable glands are certified with one specific size of FLP sealing ring per gland size as supplied.
The 8163/2-****-A2FRC-** cable gland size 20s/16 cable entry is only suitable for fixed installations. Cables must be effectively clamped to prevent pulling or twisting.
The 8163/2-****-A2FRC-** type of cable gland entry component threads may need additional sealing to maintain the ingress protection rating as applicable to the associated equipment in which it will be attached.



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

This Issue introduced the following changes:

1. The introduction of Ex nR II and Ex tD marking

Annexe to: IECEx SIR 06.0076X Issue 1
Applicant: R.STAHL Schaltgeräte GmbH
Apparatus: 8163/2-****-A2FRC-** Range of Cable Glands



The 8163/2-****-A2FRC-** range of cable glands are intended to terminate circular braided or unarmoured cables into enclosures without compromising the explosion protection provided by the enclosures in accordance with relevant codes of practice. They consist of a male-threaded front entry component, a compression nut and either an outer captivated or running coupling. The front entry component, fitted with an Evoprene Super G621 elastomeric sealing ring and a carbon steel 'C' clip (sizes 16 to 50), is intended to screw into an entry point of its associated enclosure. The seal actuation nut threads into the front entry component thereby effecting flameproof and environmental sealing onto the cable outer sheath. The outer running coupling is retained in the seal actuation nut using the carbon steel 'C' clip to allow free running thread connection to conduit.

| Gland size | Entry thread | Cable outer sheath Ø | |
|------------|--------------|----------------------|-----------|
| | | Min. (mm) | Max. (mm) |
| 20s/16 | M20 x 1.5 | 3.2 | 8.7 |
| 20s | M20 x 1.5 | 6.1 | 11.7 |
| 20 | M20 x 1.5 | 6.5 | 14.0 |
| 25 | M25 x 1.5 | 11.1 | 20.0 |
| 32 | M32 x 1.5 | 17.0 | 26.3 |
| 40 | M40 x 1.5 | 23.5 | 32.2 |
| 50s | M50 x 1.5 | 31.0 | 38.2 |
| 50 | M50 x 1.5 | 35.6 | 44.1 |
| 63s | M63 x 1.5 | 41.5 | 50.0 |
| 63 | M63 x 1.5 | 47.2 | 56.0 |
| 75s | M75 x 1.5 | 54.0 | 62.0 |
| 75 | M75 x 1.5 | 61.1 | 68.0 |
| 90 | M90 x 2.0 | 66.6 | 80.0 |