



# Operating Instructions

## Stopping plug

> 8174/8



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## 2 General Information

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### 2.1 Manufacturer

R. STAHL Schaltgeräte GmbH  
Am Bahnhof 30  
74638 Waldenburg, Germany

Phone: +49 7942 943-0  
Fax: +49 7942 943-4333  
Internet: [www.stahl.de](http://www.stahl.de)

### 2.2 Information regarding the Operating Instructions

ID NO.: 165652 / 8174605300  
Publication Code: S-BA-8174/8-01-en-05/02/2009  
We reserve the right to make technical changes without notice.

### 2.3 Purpose of these instructions

Working in hazardous areas, the safety of personnel and plant depends on complying with all relevant safety regulations.

Assembly and maintenance staff working on installations therefore have a particular responsibility. They require precise knowledge of the applicable standards and regulations.

These instructions give a brief summary of the most important safety measures. They supplement the corresponding regulations which the staff responsible must study.

### 3 Safety instructions

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Use the stopping plug only for its intended purpose.

Incorrect or impermissible use or non-compliance with these instructions invalidates our warranty provision.

No changes to the stopping plug impairing its explosion protection are permitted.

Fit the stopping plug only if it is clean and undamaged.

**Observe the following when using the bushing:**

- ▶ National safety regulations
- ▶ National accident prevention regulations
- ▶ National installation regulations (e.g. IEC/EN 60079-14)
- ▶ Generally recognized technical regulations
- ▶ Safety guidelines in these operating instructions
- ▶ Characteristic values and rated operating conditions on the rating plate

The push-fit stopping plugs 8174/8 are only allowed to be fitted in the enclosure walls or threaded fittings from inside the Ex d space.

Damage may render the explosion protection ineffective.

### 4 Conformity to Standards

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The stopping plug complies with the following standards and regulations:

- ▶ Directive 94/9/EG
- ▶ IEC 60079-0, IEC 60079-1
- ▶ IEC 60947-4-1



The stopping plug is suitable for use in hazardous areas, zones 1 and 2.

### 5 Function

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The stopping plugs are Ex parts that seal unneeded threaded fittings for conductor bushings between enclosures of type of protection flameproof enclosure "d" and increased safety "e". They form an ignition-proof and explosion-proof termination.

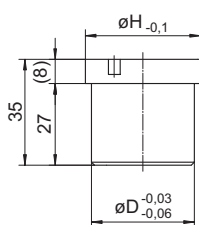
## 6 Technical Data

<b>Explosion protection</b>	
Gas explosion protection	 II 2 G Ex d II  I M 2 Ex d II
Gas explosion protection (IECEX)	Ex d II Ex d I
Certificates	
Gas explosion protection	PTB 01 ATEX 1065 U
IECEX certification	IECEX PTB 06.0081 U
Material	Brass
Ambient conditions	- 25 °C ... + 110 °C

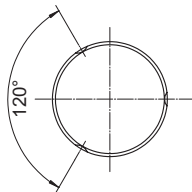
 **WARNING**

Please consult the manufacturer if operating conditions are non-standard.

**Dimension drawings** (all dimensions in mm) - subject to alterations



Type	H	D
8174/803-.....	38	34
8174/804-.....	48	41
8174/805-.....	58	48



06515E00

8174/8-..... Stopping plug

## 7 Assembly

Before you fit the threaded fittings and the stopping plugs in the enclosure, ensure that

- ▶ thread and gap limiting surfaces are not damaged
- ▶ gap limiting surfaces have not been worked on or painted after installation (flameproof enclosure)
- ▶ Insert stopping plug in the correct position in the empty threaded fitting.
- ▶ Fasten stopping plug to the threaded fitting using cylinder-head screws.

## 8 Transport and Storage

Transport and storage are only permitted in the original packing.

## 9 Repairs and Maintenance

Repairs and maintenance work are **not** allowed to be made to the threaded fitting or the stopping plug.

### ⚠ WARNING

Observe the relevant national regulations in the country of use!


The following points must be checked during maintenance:

- ▶ compliance with permitted temperatures (to IEC/EN 60079-0)
- ▶ damage to the threaded fitting or the sleeve

## 10 Accessories and Spare Parts

### ⚠ WARNING

Use only original accessories and spare parts from R. STAHL Schaltgeräte GmbH.

Designation	Illustration	Description	Order number	Weight kg
Allen screw	 05244E00	M 4 x 6 3 cylinder-head screws are required per stopping plug or threaded fitting	109806	0.002
Spring washer	 10004E00	M 4 3 spring washers are required per stopping plug or threaded fitting	110596	0.170

## 11 Disposal

Observe the national standards for refuse disposal.



We are pleased to answer any special questions you may have. Please contact your nearest R. STAHL representative.

12 Type Examination Certificate (Page 1)

**Physikalisch-Technische Bundesanstalt**  
Braunschweig und Berlin



(1) **EC-TYPE-EXAMINATION CERTIFICATE**  
(Translation)

- (2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres - **Directive 94/9/EC**  
(3) EC-type-examination Certificate Number:



**PTB 01 ATEX 1065 U**

- (4) Component: Non-sheathed cable bushing, type 8174/.....-.....  
(5) Manufacturer: R.STAHL Schaltgeräte GmbH  
(6) Address: D-74638 Waldenburg (Württ), Germany  
(7) This component and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.  
(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive.  
The examination and test results are recorded in the confidential report PTB Ex 01-11129 .  
(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
**EN 50014:1997 + A1 + A2      EN 50018:2000**  
(10) The sign "U" placed behind the certificate number indicates that this certificate should not be confounded with certificates issued for equipment or protective systems. This Component Certificate only serves as a basis for the issuing of certificates for equipment or protective systems.  
(11) This EC-type-examination Certificate relates only to the design, examination and tests of the specified component in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this component. These are not covered by this certificate.  
(12) The marking of the component shall include the following:

 **II 2 G EEx d II IM 2 EEx d I**

Zertifizierungsstelle Explosionsschutz

Braunschweig, January 22, 2002

By order:

  
Dr.-Ing. U. Klausmeyer  
Regierungsdirektor



sheet 1/3

EC-type-examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.

Physikalisch-Technische Bundesanstalt • Bundesallee 100 • D-38116 Braunschweig



13 Declaration of Conformity

**EG-Konformitätserklärung**  
*EC-Declaration of Conformity*  
*Déclaration de Conformité CE*



<b>Wir</b> ( <i>we; nous</i> )	
R. STAHL Schaltgeräte GmbH, Am Bahnhof 30, 74638 Waldenburg, Germany	<b>8174/...</b>
<b>erklären in alleiniger Verantwortung, dass das Produkt</b> <i>hereby declare in our sole responsibility, that the product</i> <i>déclarons, sous notre seule responsabilité, que le produit</i>	<b>Aderleitungsdurchführung</b> <i>Conductor bushing</i> <i>Traversée de cloison</i>
<b>mit der EG-Baumusterprüfbescheinigung:</b> <i>(under; EC-Type Examination Certificate:</i> <i>avec) Attestation d'examen CE de type:</i>	<b>PTB 01 ATEX 1065 U</b>
<b>auf das sich diese Erklärung bezieht, mit den folgenden Normen oder normativen Dokumenten übereinstimmt</b> <i>which is the subject of this declaration, is in conformity with the following standards or normative documents</i> <i>auquel cette déclaration se rapporte, est conforme aux normes ou aux documents normatifs suivants</i>	
<b>Bestimmungen der Richtlinie</b> <i>terms of the directive</i> <i>prescriptions de la directive</i>	<b>Nummer sowie Ausgabedatum der Norm</b> <i>Number and date of issue of the standard</i> <i>Numéro ainsi que date d'émission de la norme</i>
<b>94/9/EG: ATEX-Richtlinie</b> <i>94/9/EC: ATEX Directive</i> <i>94/9/CE: Directive ATEX</i>	EN 60079-0:2006 EN 60079-1:2007
<b>2004/108/EG: EMV-Richtlinie</b> <i>2004/108/EC: EMC Directive</i> <i>2004/108/CE: Directive CEM</i>	
<b>Qualitätssicherung Produktion:</b> <i>Production Quality Assessment:</i> <i>Assurance Qualité Production:</i>	PTB 96 ATEX Q006-4
<b>Kenn-Nr. der benannten Stelle / Notified Body number / N° de l'organisme de certification:</b> 0102	
Waldenburg, 14. Juli 2008	i.V.
<b>Ort und Datum</b> <i>Place and date</i> <i>Lieu et date</i>	<b>B. Limbacher</b> <b>Leiter Entwicklung</b> <i>Head of Development</i> <i>Directeur Développement</i>
	i.V.
	<b>Dr. S. Jung</b> <b>Leiter Qualitätsmanagement</b> <i>Director Quality Management Dept.</i> <i>Directeur Dept. Assurance de Qualité</i>



