

**IBExU Institut für Sicherheitstechnik GmbH**  
An-Institut der TU Bergakademie Freiberg

- [1] **1<sup>st</sup> Addition to**  
**EC-TYPE EXAMINATION CERTIFICATE IBExU12ATEX2171 X**  
according to Directive 94/9/EC, Annex III  
- Translation -



- [2] Protective system: **In-line detonation flame arrester**  
GROTH Type 7758A-DNxEG-35-...

| Size of flange connection<br>DN (inch) | Size of flange connection<br>DN (mm) | Element size<br>(EG)<br>(inch) | Element size<br>(EG)<br>(mm) | Operat. pressure p <sub>o</sub><br>up to bar (absolute) /<br>PSIA |
|--|--------------------------------------|--------------------------------|------------------------------|---|
| 6", 8", 10"                            | 150, 200, 250                        | 26"                            | 650                          | 1.188 / 17.2  |
| 6", 8", 10", 12"                       | 150, 200, 250, 300                   | 30"                            | 750                          | 1.188 / 17.2  |

- [3] Manufacturer: Groth Corporation
- [4] Address: 13650 North Promenade Blvd.  
Stafford, TX 77477  
USA

[5] **Addition/Modification**

The existing EC-Type Examination Certificate IBExU12ATEX2171 X of 26 November 2012 is supplemented with the in [2] mentioned type of in-line detonation flame arrester, which is flameproof against stable detonations without restriction, deflagrations and short-time burning on the flame arrester element at a maximum permissible operating pressure of 1.188 bar (absolute) (17.2 PSIA) with the element sizes 26" and 30" and the corresponding maximum permissible sizes of flange connection 10" (DN 250) and 12" (DN 300).

All other design characteristics of the in-line detonation flame arresters remain unchanged.

The addition refers to an enlargement of the element sizes of the protective system mentioned in [2].

[6] **Test report**

The proof of the explosion protection of the addition/modification mentioned in [5] is explained in the Test Report IB-12-2-139/1 of 28 June 2013. The test documents are part of the test report and are listed there.

[7] **Test result**

IBExU certifies that the protective system mentioned in [2] has been found to comply with the essential health and safety requirements given in Annex II of Directive 94/9/EC by compliance with EN ISO 16852:2010 and EN 1127-1:2011.

The marking of the protective system mentioned in [2] shall include the following:



This addition is only valid in combination with the EC-Type Examination Certificate IBExU12ATEX2171 X of 26 November 2012.

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Freiberg, 28 June 2013

Authorized for certifications  
- Explosion protection -

By order

(Dipl.-Ing. Willamowski)



Certificates without signature and seal are not valid.  
Certificates may only be duplicated completely and unchanged.  
In case of dispute, the German text shall prevail.