

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

**EN 14491:2006/AC**

November 2008

Novembre 2008

November 2008

ICS 13.230

English version  
Version Française  
Deutsche Fassung

## Dust explosion venting protective systems

Systèmes de protection par évent contre  
les explosions de poussières

Schutzsysteme zur Druckentlastung von  
Staubexplosionen

This corrigendum becomes effective on 19 November 2008 for incorporation in the three official language versions of the EN.

Ce corrigendum prendra effet le 19 novembre 2008 pour incorporation dans les trois versions linguistiques officielles de la EN.

Die Berichtigung tritt am 19. November 2008 zur Einarbeitung in die drei offiziellen Sprachfassungen der EN in Kraft.



EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Ref. No.: EN 14491:2006/AC:2008 D/E/F

## 1 Modification to 5.4, Protection of pipelines and interconnected enclosures

Replace Equation (6) with:

"

$$L = D \times \left( 88,57 - 81,99 \times e^{-0,1640 \times p_L} \right), \text{ applicable to } (L/D \text{ ratios}) \text{ no greater than } 50; \quad (6)$$

".

## 2 Modification to 5.6, Influences of vent ducts

In the paragraph after Equation (11), replace "Vent duct/ratios..." with "Vent duct ratios...".

Replace the text:

"Vent duct with gradual bend.  
(radius of curvature/duct diameter) > 2"

in Figure 1 with the following:

"Vent duct with gradual bend.  
(radius of curvature/duct diameter) > 2".

Replace the text "90° end" in Figure 2 with "90° bend".

## 3 Modification to 7.2.3, Pressure effects

In the sentence above Equation (17), replace: "... $P_R$ ..." with "... $p_R$ ...".

## 4 Modification to 7.2.4, Deflectors

Replace the 4<sup>th</sup> paragraph:

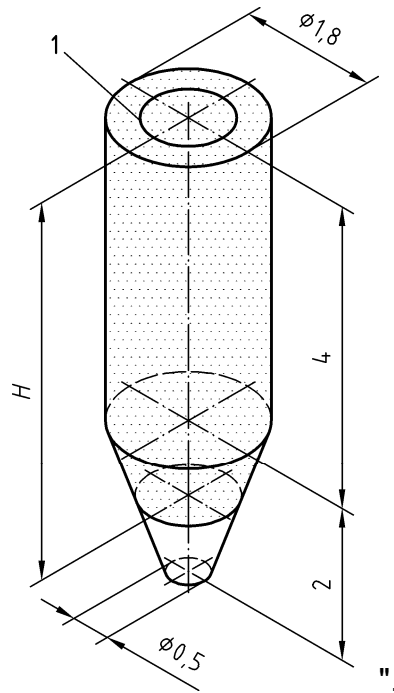
"Deflectors shall not normally be installed when the enclosure volume is greater than 20 m<sup>3</sup>."

with the following paragraph:

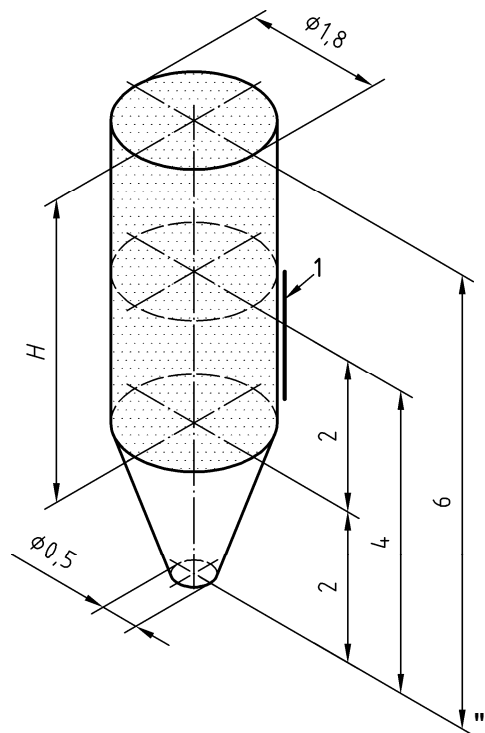
"The presented design criteria shall only be used for enclosure volumes up to 20 m<sup>3</sup>."

## 5 Modification to Annex A, Estimating the L/D ratio when calculating vent areas for elongated enclosures

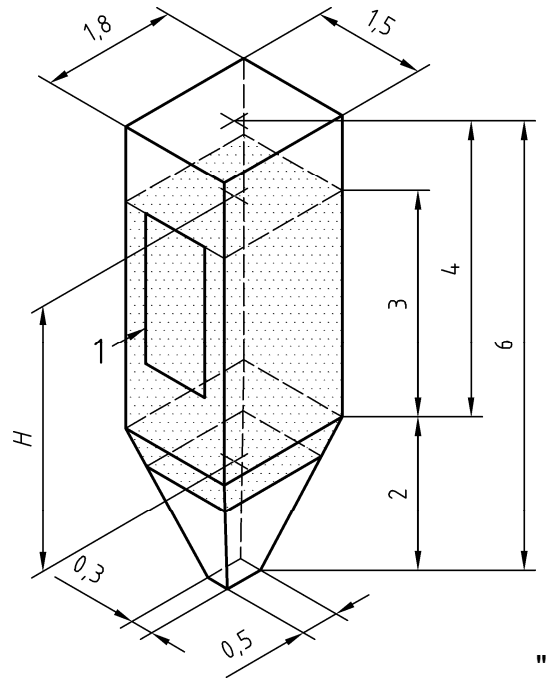
Replace Figure A.3 with the following figure: "



Replace Figure A.4 with the following figure:



Replace Figure A.5 with the following figure: "



## 6 Modification to the Bibliography

Replace in [7] "...Sutter, G.,..." with "... Suter, G.,...".