



NSAI
Standards

Irish Standard
I.S. EN 983:1996+A1:2008

Safety of machinery - Safety requirements for fluid power systems and their components - Pneumatics

I.S. EN 983:1996+A1:2008

Incorporating amendments/corrigenda issued since publication:

EN 983:1996/A1:2008

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English Version

Safety of machinery - Safety requirements for fluid power systems and their components - Pneumatics

Sécurité des machines - Prescriptions de sécurité relatives
aux systèmes et leurs composants de transmissions
hydrauliques et pneumatiques - Pneumatique

Sicherheit von Maschinen - Sicherheitstechnische
Anforderungen an fluidtechnische Anlagen und deren
Bauteile - Pneumatik

This European Standard was approved by CEN on 11 March 1996 and includes Amendment 1 approved by CEN on 27 July 2008.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN Management Centre has the same status as the official versions.

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





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Foreword

This document (EN 983:1996+A1:2008) has been prepared by Technical Committee CEN/TC 114 "Safety of machinery", the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by March 2009, and conflicting standards shall be withdrawn at the latest by December 2009.

This document includes Amendment 1, approved by CEN on 2008-07-27.

This document supersedes EN 983:1996.

The start and finish of text introduced or altered by amendment is indicated in the text by tags **A1** and **A1**.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

A1 For relationship with EU Directive(s), see informative Annexes ZA and ZB, which are integral parts of this document. **A1**

It was developed to contribute towards unification of safety regulations and procedures in the various member countries for each aspect dealt within the field of pneumatics for fluid power systems and their components. This Standard utilizes the most recently validated technical information from established technical sources (e.g. CEN, ISO, national standards and European documents).

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

Introduction

This standard is a type B2 standard (according to EN 292-1) and contains the general requirements for pneumatic systems and their components on machinery. For type C standard makers, it is a basis for the development of specific requirements on dedicated machines. If no type C standards are available, it is a basis for the manufacturers when constructing machines that include pneumatic systems and their components.

In developing this standard, safety related requirements out of ISO 4414 were selected as well as additional safety related requirements.

Equivalent safety requirements for hydraulic systems are defined in EN 982 "Safety of machinery – Safety requirements for fluid power systems and their components – Hydraulics".

1 Scope

This standard applies to pneumatic systems and their components on machinery. It identifies hazards and factors which affect the safety of systems and their components when they are put to their intended use.

Gas bottles and receivers are excluded from the scope of this standard. For receivers see EN 286-1.

The principles specified apply to the design, construction and modification of new systems and their components and aspects of use including:

- Assembly
- Installation
- Adjustment
- Operation
- Cleaning
- Maintenance.

Components are covered in the standard but only to the extent that safety requirements are given to allow the components to be safely integrated into a system's design.

The standard applies to systems and their components on machinery that are manufactured after the date of the adoption of this standard.

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