Gas welding equipment - Safety devices - Part 1: Incorporating a flame (flashback) arrestor

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EESTI STANDARDI EESSÕNA **NATIONAL FOREWORD**

Käesolev Eesti standard EVS-EN 730-1:2002 sisaldab Euroopa standardi EN 730-1:2002 ingliskeelset teksti. Käesolev dokument on jõustatud 15.11.2002 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes. Standard on kättesaadav Eesti standardiorganisatsioonist.	This Estonian standard EVS-EN 730-1:2002 consists of the English text of the European standard EN 730-1:2002. This document is endorsed on 15.11.2002 with the notification being published in the official publication of the Estonian national standardisation organisation. The standard is available from Estonian standardisation organisation.

Käsitlusala: This Part of this European Standard specifies the general requirements and tests for safety devices for fuel gases and oxygen or compressed air incorporating a flame (flashback) arrestor used downstream of manifold, cylinder and (or) pipeline outlet regulators, and upstream of blowpipes for welding, cutting and allied processes	**Scope:** This Part of this European Standard specifies the general requirements and tests for safety devices for fuel gases and oxygen or compressed air incorporating a flame (flashback) arrestor used downstream of manifold, cylinder and (or) pipeline outlet regulators, and upstream of blowpipes for welding, cutting and allied processes

ICS 25.160.30

Võtmesõnad: definitions, fire cut off systems, flame traps, flow measurement, flow rates, gas welding, gaseous fuels, line pressure, marking, oxygen, oxygen cutting, safety, safety devices, specification (approval), specifications, stopping, testing, welding equipment

EUROPEAN STANDARD

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EUROPÄISCHE NORM

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English version

Gas welding equipment - Safety devices - Part 1: Incorporating a flame (flashback) arrestor

Matériel de soudage aux gaz - Dispositifs de sécurité - Partie 1: Avec arrêt de flamme

Gasschweißgeräte - Sicherheitseinrichtungen - Teil 1: Mit integrierter Flammensperre

This European Standard was approved by CEN on 8 August 2002.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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Foreword

This document EN 730-1:2002 has been prepared by Technical Committee CEN/TC 121 "Welding", the secretariat of which is held by DS.

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 April 2003, and conflicting national standards shall be withdrawn at the latest by April 2003.

This European Standard "*Gas welding equipment – Safety devices*" consists of the following Parts:

— *Part 1: Incorporating a flame (flashback) arrestor.*

— *Part 2: Not incorporating a flame (flashback) arrestor.*

This Part and EN 730-2 supersedes EN 730:1995.

Annexes A, B and C are informative.

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

1 Scope

This Part of this European Standard specifies the general requirements and tests for safety devices for fuel gases and oxygen or compressed air incorporating a flame (flashback) arrestor used downstream of manifold, cylinder and (or) pipeline outlet regulators, and upstream of blowpipes for welding, cutting and allied processes.

This standard does not specify the location of these devices in the gas system.

This standard does not include requirements for safety devices which do not incorporate a flame arrestor which are covered by EN 730-2.

This standard does not cover the use of safety devices incorporating flame arrestors for applications with premixed oxy/fuel or air/fuel gas supply systems, for example downstream of gas mixers or a generator to produce hydrogen/oxygen mixture by electrolytic decomposition of water.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text, and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

EN 560, *Gas welding equipment — Hose connections for equipment for welding, cutting and allied processes.*

EN 561, *Gas welding equipment — Quick-action coupling with shut-off valves for welding, cutting and allied processes.*

EN 730-2, *Gas welding equipment — Safety devices — Part 2: Not incorporating a flame (flashback) arrester.*

EN 29090, *Gas tightness of equipment for gas welding and allied processes (ISO 9090:1989).*

EN 29539, *Materials for equipment used in gas welding, cutting and allied processes (ISO 9539:1988).*

ISO 554, *Standard atmospheres for conditioning and/or testing — Specifications.*

3 Terms and definitions

For the purposes of this European Standard, the following terms and definitions apply.

3.1
flame arrestor
device which quenches a flame front

EXAMPLE The good thermal conductivity, high porosity and small pore size (larger surface) of sintered metal elements lead to flame quenching.