

Devices to prevent pollution by backflow of potable
water - Air gap with non-circular overflow
(unrestricted) - Family A - Type B

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 13077:2018 sisaldab Euroopa standardi EN 13077:2018 ingliskeelset teksti.	This Estonian standard EVS-EN 13077:2018 consists of the English text of the European standard EN 13077:2018.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
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English Version

Devices to prevent pollution by backflow of potable water
- Air gap with non-circular overflow (unrestricted) -
Family A - Type B

Dispositifs de protection contre la pollution de l'eau
potable par retour - Surverse avec trop-plein non
circulaire (totale) - Famille A, type B

Sicherungseinrichtungen zum Schutz des Trinkwassers
gegen Verschmutzung durch Rückfließen - Freier
Auslauf mit nicht kreisförmigem Überlauf
(uneingeschränkt) - Familie A - Typ B

This European Standard was approved by CEN on 26 February 2018.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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European foreword

This document (EN 13077:2018) has been prepared by Technical Committee CEN/TC 164 “Water supply”, the secretariat of which is held by AFNOR.

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of an identical text or by endorsement, at the latest by September 2018, and conflicting national standards shall be withdrawn at the latest by September 2018.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN not be held responsible for identifying any or all such patent rights.

This document supersedes EN 13077:2008.

Compared to the previous edition of the document the following changes have been made:

- a) the scope has been adjusted;
- b) Figure 3 was updated and redrawn;
- c) terms and definitions were updated;
- d) mainly Clause 7 was revised and improved;
- e) the entire standard was revised editorially.

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, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Introduction

In respect of potential adverse effects on the quality of water intended for human consumption, caused by the product covered by this European Standard:

- a) this European Standard provides no information as to whether the product may be used without restriction in any of the Member State of the EU or EFTA;
- b) it should be noted that, while awaiting the adoption of verifiable European criteria, existing national regulations concerning the use and/or the characteristics of this product remain in force.

1 Scope

This European Standard specifies the characteristics and the requirements of air gap with non-circular overflow (unrestricted) Family A, Type B for nominal flow velocity not exceeding 3 m/s. Air gaps are devices for protection of potable water in water installations from pollution by backflow. This European Standard applies to air gaps in factory-assembled products and to constructed air gaps *in situ*, and defines requirements and methods to verify and ensure compliance with this European Standard during normal working use.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 806-1, *Specifications for installations inside buildings conveying water for human consumption — Part 1: General*

EN 1717:2000, *Protection against pollution of potable water in water installations and general requirements of devices to prevent pollution by backflow*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 806-1 and EN 1717:2000 and the following apply.

3.1

air gap with non-circular overflow (unrestricted) Family A, Type B (“AB” air gap)

permanent and vertical distance between the lowest point of the inlet orifice and the critical water level of the receiving vessel having an overflow which is non-circular in design

Note 1 to entry: See Figure 1 for the design principle.

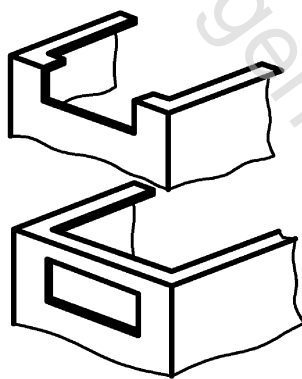


Figure 1 — Design principle

3.2

spillover level

level at which water will start to overflow the receiving vessel with all outlets closed