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Spolcisterner för WC och urinaler

WC and urinal flushing cisterns

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The European Standard EN 14055:2018 has the status of a Swedish Standard. This document contains the official version of EN 14055:2018.

This standard supersedes the SS-EN 14055:2010+A1:2015, edition 1.

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Denna standard är framtagen av kommittén för Sanitetsenheter, SIS/TK 198/AG 01.

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EUROPEAN STANDARD

EN 14055

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2018

ICS 91.140.70

Supersedes EN 14055:2010+A1:2015

English Version

WC and urinal flushing cisterns

Réservoirs de chasse d'eau pour WC et urinoir

Spülkästen für WC-Becken und Urinale

This European Standard was approved by CEN on 14 April 2018.

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 CEN-CENELEC 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 CEN-CENELEC Management Centre has the same status as the official versions.

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COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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SS-EN 14055:2018 (E)

Contents	Page
European foreword.....	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Classification	8
5 Characteristics and test methods for type 1 products	9
5.1 Design	9
5.1.1 Flushing cistern equipment	9
5.1.2 Water supply connection	9
5.1.3 Supply piping	9
5.1.4 Removable parts	9
5.1.5 Connecting dimensions	9
5.1.6 Flush pipes	11
5.2 Hydraulic and mechanical characteristics	13
5.2.1 Flush volume	13
5.2.2 Water-saving devices	14
5.2.3 Flush rate and impact force	14
5.2.4 Overflow	15
5.2.5 Inlet valve opening characteristics for water saving flushing	16
5.2.6 Safety margin - dimension “c”	16
5.2.7 Backflow prevention, air gap, safety margin - dimension “a”	17
5.2.8 Outlet valve leaktightness	17
5.2.9 Outlet valve reliability	17
5.2.10 Operating force	17
5.2.11 Durability	17
5.3 Test methods	18
5.3.1 General	18
5.3.2 Flush volume	18
5.3.3 Flush rate	19
5.3.4 Determination of the overflow capacity	23
5.3.5 Inlet valve opening characteristics	24
5.3.6 Determination of dimension “c”	24
5.3.7 Determination of dimension “a”	24
5.3.8 Outlet valve leak tightness	24
5.3.9 Outlet valve reliability test	25
5.3.10 Operating force	25
5.3.11 Impact force	27
6 Functional characteristics and test methods for type 2 products	31
6.1 Inlet valve	31
6.2 Backflow prevention	31
6.3 Marking of flushing cistern	31
6.4 Warning pipe and overflow provision	31
6.5 Flush volume	31
6.5.1 Full flush	31
6.5.2 Reduced flush	32

6.6	Flush rate.....	32
6.7	Physical endurance and leakage of flushing device.....	32
6.8	Chemical endurance of flushing device.....	32
6.9	Durability.....	32
6.10	Test methods.....	32
6.10.1	Inlet valve tests.....	32
6.10.2	Warning pipe and overflow provisions.....	33
6.10.3	Flush volume test.....	33
6.10.4	Flush rate test.....	34
6.10.5	Physical endurance and leakage test of flushing device.....	35
6.10.6	Chemical endurance test of flushing device.....	36
6.10.7	Requirements for compatibility testing of type 2 products.....	36
7	Characteristics and test methods for type 3 products.....	37
7.1	Characteristics and test methods.....	37
7.2	Adjustment.....	37
8	Acoustic characteristics.....	37
9	Dangerous substances.....	37
10	Marking.....	37
11	Assessment and verification of constancy of performance – AVCP.....	39
11.1	General.....	39
11.2	Type testing.....	40
11.2.1	General.....	40
11.2.2	Test samples, testing and compliance criteria.....	40
11.3	Factory production control (FPC).....	43
11.3.1	General.....	43
11.3.2	Equipment.....	43
11.3.3	Raw materials and components.....	43
11.3.4	Product testing and assessment.....	43
11.3.5	Non-complying products.....	43
11.3.6	Corrective action.....	44
Annex ZA	(informative) Relationship between this European Standard and the requirements of Regulation (EU) No. 305/2011.....	45
ZA.1	Scope and relevant characteristics.....	45
ZA.2	System of Assessment and Verification of Constancy of Performance (AVCP).....	46
ZA.3	Assignment of AVCP tasks.....	46
Bibliography	48

SS-EN 14055:2018 (E)

European foreword

This document (EN 14055:2018) has been prepared by Technical Committee CEN/TC 163 “Sanitary appliances”, the secretariat of which is held by UNI.

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 2019 and conflicting national standards shall be withdrawn at the latest by July 2020.

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

This document supersedes EN 14055:2010+A1:2015.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

For relationship with EU Construction Products Regulation, see informative Annex ZA, which is an integral part of this document.

The main changes introduced in EN 14055:2010+A1:2015 were the following:

- a) introduction of a new Annex ZA in accordance with the latest template (in the format of TF N 687 rev 1 of 2015-06-02);
- b) modification of the marking of products;
- c) editorial modifications as agreed between representatives of EU/DG Growth, CEN/TC 163 and FECS on 2016-07-07 in Brussels for citation of standard in OJEU.

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.

1 Scope

This European Standard specifies design, performance characteristics and the test methods for WC and urinal flushing cisterns with flushing mechanism, inlet valve and overflow.

This document covers flushing cisterns designed to be connected to drinking water installations inside buildings.

This standard does not cover automatic valveless siphon flushing cisterns for flushing urinals.

NOTE Flushing cisterns for one-piece WCs and close-coupled suites are covered by EN 997.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 997, *WC pans and WC suites with integral trap*

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

EN 13407:2015, *Wall-hung urinals - Functional requirements and test methods*

EN 14124, *Inlet valves for flushing cisterns with internal overflow*

BS 1212-2:1990, *Float operated valves - Specification for diaphragm type float operated valves (copper alloy body) (excluding floats)*

BS 1212-3:1990, *Float operated valves - Specification for diaphragm type float operated valves (plastics bodied) for cold water services only (excluding floats)*

BS 1212-4:2016, *Float operated valves - Specification for compact type float operated valves for WC flushing cisterns (including floats)*

3 Terms and definitions

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

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

3.1

valve-type flushing cistern

cistern with integral valve outlet device, for storage and discharge of a defined volume of flushing water for removal of excrement from a WC pan

3.2

valveless-type flushing cistern

cistern with integral syphonic actuated outlet device, for storage and discharge of a defined volume of flushing water for removal of excrement from a WC pan

Note 1 to entry: Both types of flushing cisterns are available, as detailed in Figure 1 below.

SS-EN 14055:2018 (E)

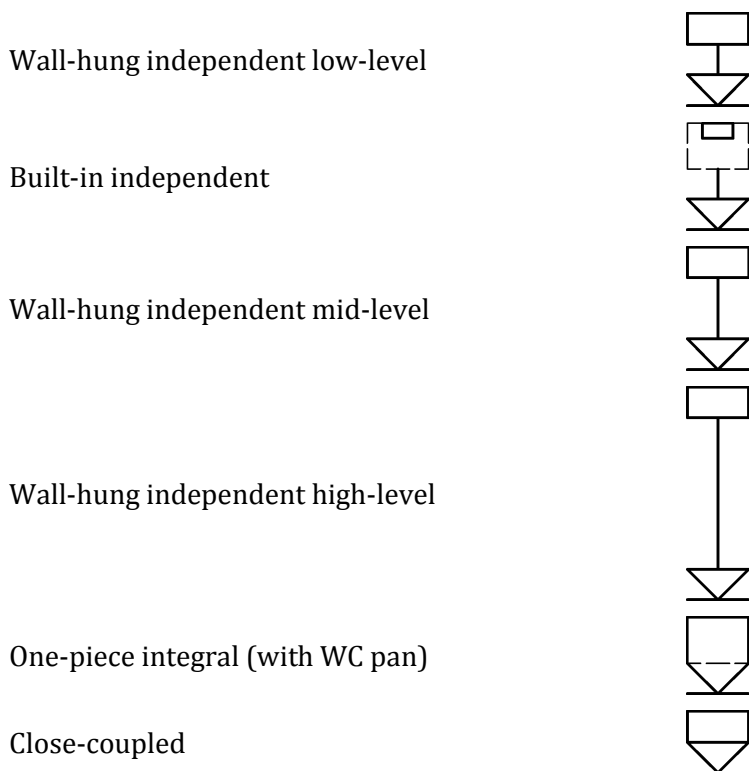


Figure 1 — types of flushing cisterns

3.3 close-coupled multiple use flushing cistern
close-coupled flushing cistern for use with different WC pans

3.4 independent flushing cistern
flushing cistern mounted separately from a WC pan or urinal

3.5 outlet valve
mechanism for opening and closing the outlet orifice of the flushing cistern

3.6 operating mechanism
mechanism to open, and if applicable, close the outlet valve

3.7 flush pipe
connecting pipe between a flushing cistern's outlet and a WC's or urinal's inlet

3.8 overflow
device enabling release of excess water from a flushing cistern when water reaches a pre-determined level

3.9

inlet valve

valve that controls and shuts off the flow of water into a flushing cistern

3.10

overflow level

water level corresponding to the upper edge of the overflow or to the lower edge of the overflow notch

3.11

maximum water level

highest water level reached after flow stabilisation, in the event of continuous supply, as a result of malfunction of the inlet valve

3.12

critical water level

highest water level in any part of the appliance, 2 s after the supply is cut off

3.13

residual water level

water level after a full flush is completed

3.14

adjustable residual water level

water level in a cistern, after (uninterrupted) flushing, when an outlet mechanism can be adjusted to the elevated residual water level

3.15

meniscus level

level resulting from surface tension of water during overflowing

3.16

nominal water level

water level when a flushing cistern is filled to the nominal flush volume

3.17

nominal flush volume

volume of water indicated, when a flushing cistern is filled to the nominal water level

3.18

flush volume

volume of water discharged from the flushing cistern during a flush cycle

3.19

safety margin

c

distance between the nominal water level determined by the manufacturer and the overflow level

3.20

flush rate

volume of water flowing out of a flushing cistern as a function of time

3.21

test height

distance between the seat of the outlet valve and the horizontal axis of the flush pipe