

DIN EN 14055:2018-12 (E)

WC and urinal flushing cisterns

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