

DIN EN 14055:2015-09 (E)

WC and urinal flushing cisterns (includes Amendment A1:2015)

Contents	Page
Foreword	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Classification	8
5 Requirements and test methods for class 1 products	8
5.1 Design	8
5.1.1 Flushing cistern equipment	8
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	10
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 leak tightness	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	24
5.3.10 Operating force	25
5.3.11 Impact force	26
6 Functional requirements and test methods for class 2 products	30
6.1 Inlet valve	30
6.2 Backflow prevention	30
6.3 Marking of flushing cistern	30
6.4 Warning pipe and overflow provision	30
6.5 Flush volume	30
6.5.1 Full flush	30
6.5.2 Reduced flush	31
6.6 Flush rate	31

6.7	Physical endurance and leakage of flushing device	31
6.8	Chemical endurance of flushing device	31
6.9	Durability	31
6.10	Test methods	31
6.10.1	Inlet valve tests	31
6.10.2	Warning pipe and overflow provisions	32
6.10.3	Flush volume test	32
6.10.4	Flush rate test	33
6.10.5	Physical endurance and leakage test of flushing device	34
6.10.6	Chemical endurance test of flushing device	35
6.10.7	Requirements for compatibility testing of class 2 products	35
7	Requirements and test methods for class 3 products	36
7.1	Requirements and test methods	36
7.2	Adjustment	36
8	Acoustic characteristics	36
9	Dangerous substances	36
10	Marking	36
11	Assessment and verification of constancy of performance - AVCP	39
11.1	General	39
11.2	Type testing	39
11.2.1	General	39
11.2.2	Test samples, testing and compliance criteria	40
11.3	Factory production control (FPC)	42
11.3.1	General	42
11.3.2	Equipment	42
11.3.3	Raw materials and components	42
11.3.4	Product testing and assessment	42
11.3.5	Non-complying products	42
11.3.6	Corrective action	43
	Annex ZA (informative) !Clauses of this European Standard addressing the provisions of the EU Construction Products Regulation"	44
	Bibliography	53