

DIN EN 3-8:2007-02 (E)

Portable fire extinguishers - Part 8: Additional requirements to EN 3-7 for the construction, resistance to pressure and mechanical tests for extinguishers with a maximum allowable pressure equal to or lower than 30 bar

Contents		Page
Foreword		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	6
4	Symbols and abbreviations	6
5	Materials	7
5.1	Materials for bodies	7
5.2	Materials for the bodies of operating devices and filling caps	7
5.3	Materials for other components	7
6	Experimental design method and prototype testing	7
6.1	General	7
6.2	Experimental design	8
6.3	Prototype testing	9
6.4	Overfill pressure test (for water based media cartridge operated extinguishers only)	13
6.5	Resistance to impact	13
7	Manufacturing	13
7.1	General requirements	13
7.2	Welded and brazed parts	13
7.3	Traceability	14
8	Inspection and testing during production	14
8.1	Final examination	14
8.2	Burst test	15
9	Marking	16
9.1	General	16
9.2	Body	16
9.3	Extinguisher	16
Annex A (informative)	Classification of the different parts of an extinguisher subject to internal pressure	17
Annex B (normative)	Pressures	18
Annex C (normative)	Impact test	19
C.1	Resistance to impact by falling weight)	19
Annex D (normative)	Specification for plastics components (except hoses, pistols and nozzles)	20
D.1	General	20
D.2	Requirements for plastics components subject to pressure	20

Annex E (normative) Propellant gas cartridges volume less than 0,12 l	24
E.1 Refillable cartridge	24
E.2 Non-refillable cartridges	25
E.3 Marking	25
Annex F (informative) Propellant gas cartridges volume equal to or greater than 0,12 l but less than 0,5 l	26
F.1 Construction	26
F.2 Pressure test	26
F.3 Marking	26
Annex G (normative) Overfill pressure test	28
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 97/23/EC	29
Figure 1 -- Crushing test for long bodies	10
Figure 2 -- Crushing test for short bodies	11
Table 1 -- Number of bodies to be sampled	15
Table 2 -- Batch sampling plan following failure	16
Table A.1 -- Classification	17
Figure B.1 -- Scheme of pressure	18
Table D.1 -- Drop height for hammer test	22
Figure D.1 -- Example of thread profile	23
Table ZA.1 -- Correspondence between this European Standard and Directive 97/23/EC	29