

DIN EN 16475-3:2019-03 (E)

Chimneys - Accessories - Part 3: Draught regulators, standstill opening devices and combined secondary air devices - Requirements and test methods (includes Amendment A1:2018)

Contents		Page
European foreword		5
Introduction		6
1	Scope	7
2	Normative references	7
3	Terms and definitions	7
4	Product characteristics	8
4.1	General	8
4.2	Dimensions and tolerances	8
4.3	Mechanical resistance and stability	8
4.4	Thermal performance	8
4.4.1	Reaction to fire	8
4.4.2	Fire resistance (internal to external)	8
4.5	Hygiene, health and environment	9
4.5.1	Gas tightness	9
4.5.2	Condensate resistance	9
4.5.3	Corrosion resistance	9
4.5.4	Dangerous substances	9
4.6	Additional criteria for chimney operation	10
4.6.1	Determination of the draught regulator group	10
4.6.2	Adjustability and function of the draught regulator	11
4.6.3	Durability of the standstill opening device	11
4.7	Electrical requirements	11
4.7.1	Motor	11
4.7.2	Limit switches	11
5	Testing, assessment and sampling methods	12
5.1	Thermal performance	12
5.1.1	General	12
5.1.2	Test Assembly	13
5.1.3	Test procedure	14
5.1.4	Standstill opening device durability test	15
5.2	Gas tightness	15
5.2.1	Test assembly	15
5.2.2	Test Procedure	16
5.2.3	Test results	16
5.3	Additional criteria for chimney operation	16
5.3.1	Adjustability of the draught regulator	16
5.3.2	Draught regulator group test	17
6	Assessment and verification of constancy of performance (AVCP)	17
6.1	General	17
6.2	Type testing	17
6.2.1	General	17
6.2.2	Test samples, testing and compliance criteria	18

6.2.3	Test reports	19
6.2.4	Shared other party results	19
6.2.5	Cascading determination of the product type results	20
6.3	Factory production control (FPC)	21
6.3.1	General	21
6.3.2	Requirements	21
6.3.3	Product specific requirements	24
6.3.4	Initial inspection of factory and of FPC	24
6.3.5	Continuous surveillance of FPC	25
6.3.6	Procedure for modifications	25
7	Manufacturer's declaration for type test	25
8	Product information	26
8.1	Manufacturer's instructions	26
8.2	Minimum information to be included in the manufacturer's instructions	26
9	Classification and designation	26
9.1	General	26
9.2	Temperature classes and test temperature	27
9.3	Corrosion resistance	27
9.4	Soot fire resistance and distance to combustible material	27
9.5	Draught regulator groups and whether it is a standstill opening device	27
10	Marking, labelling and packaging	27
10.1	Draught regulator and standstill opening device	27
10.2	Packaging	28
Annex A (normative) Choice of sizes for type test and sampling		29
A.1	Thermal testing	29
A.2	Gas tightness	29
A.3	Condensate resistance	29
A.4	Determination of the group	29
A.5	Adjustability	29
A.6	Durability of standstill opening device	29
A.7	Samples	29
A.8	Factory production control system	29
A.9	Further type testing	29
Annex B (informative) Sampling for factory productions control		30
B.1	Sampling plans	30
B.1.1	General	30
B.1.2	Acceptable quality level (AQL)	30
B.1.3	The inspection level	30
B.1.4	Normal, tightened or reduce inspection	30
B.1.5	Single, double, multiple or sequential sampling	30
B.1.6	Batch quantity	30
B.2	Inspection levels and procedures	30
B.2.1	Incoming material	30
B.2.2	In-process inspection	31
B.2.3	Finished goods checks	31
Annex C (normative) Factory production control		32
C.1	Introduction	32
C.2	Materials, including coatings	32
C.3	Seals and sealants	32
C.4	Manufacturing checks	32
C.4.1	Dimensions	32
C.4.2	Other checks	32

Annex D (informative) Recommended range of application	33
D.1 Tables for the selection of the draught regulator group Height against diameter	33
Annex E (informative) Examples of products	35
E.1 Without standstill opening device	35
Annex ZA (informative) Relationship of this European Standard with Regulation (EU) No.305/2011 ..	37
ZA.1 Scope and relevant characteristics	37
ZA.2 System of Assessment and Verification of Constancy of Performance (AVCP)	38
ZA.3 Assignment of AVCP tasks	38
Bibliography	41