



**SLOVENSKI STANDARD**  
**SIST EN 4840-002:2024**

**01-februar-2024**

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**Aeronavtika - Toplotno skrčljive ulite forme - 002. del: Indeks standardov in dimenzij izdelkov**

Aerospace series - Heat shrinkable moulded shapes - Part 002: Index of product standards and product dimensions

Luft-und Raumfahrt - Wärmeschrumpfende Formteile - Teil 002: Übersicht über die Produktnormen und Produktabmessungen

Série aérospatiale - Manchons thermorétractables - Partie 002 : Index des normes de produits et dimensions des produits

**Ta slovenski standard je istoveten z: EN 4840-002:2023**

SIST EN 4840-002:2024

**ICS:**

29.035.20	Plastični in gumeni izolacijski materiali	Plastics and rubber insulating materials
49.060	Letalska in vesoljska električna oprema in sistemi	Aerospace electric equipment and systems

**SIST EN 4840-002:2024**

**en,fr,de**



ICS 29.035.20; 49.060

English Version

## Aerospace series - Heat shrinkable moulded shapes - Part 002: Index of product standards and product dimensions

Série aérospatiale - Manchons thermorétractables -  
Partie 002 : Index des normes de produits et  
dimensions des produits

Luft- und Raumfahrt - Wärmeschrumpfende Formteile -  
Teil 002: Übersicht über die Produktnormen und  
Produktabmessungen

This European Standard was approved by CEN on 30 October 2022.

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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.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

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## European foreword

This document (EN 4840-002:2023) has been prepared by the Aerospace and Defence Industries Association of Europe — Standardization (ASD-STAN).

After enquiries and votes carried out in accordance with the rules of this Association, this document has received the approval of the National Associations and the Official Services of the member countries of ASD-STAN, prior to its presentation to CEN.

This document shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2024, and conflicting national standards shall be withdrawn at the latest by June 2024.

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.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this document: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

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## EN 4840-002:2023 (E)

### 1 Scope

This document lists the product standards, covered by technical specification EN 4840-001, for heat-shrinkable moulded shapes.

### 2 Normative references

There are no normative references in this document.

### 3 Terms and definitions

No terms and definitions are listed in this document.

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

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

### 4 Index of product standards

EN 4840-001, *Aerospace series — Heat-shrinkable moulded shapes — Part 001: Technical specification*

EN 4840-101, *Aerospace series — Heat-shrinkable moulded shapes — Part 101: Polyolefin, semi-rigid, limited fire hazard — Temperature range -30 °C to 105 °C — Product standard*

EN 4840-102, *Aerospace series — Heat-shrinkable moulded shapes — Part 102: Elastomeric, semi-rigid, temperature range -75 °C to 150 °C — Product standard*

EN 4840-103, *Aerospace series — Heat-shrinkable moulded shapes — Part 103: Fluoroelastomeric, temperature range -55 °C to 200 °C — Product standard*

### 5 Product dimensions

See Figure 1 to Figure 23 and Table 1 to Table 23.

<https://standards.iteh.ai/catalog/standards/sist/d942493c-8958-421a-aad6-d4255b863675/sist-en-4840-002-2024>

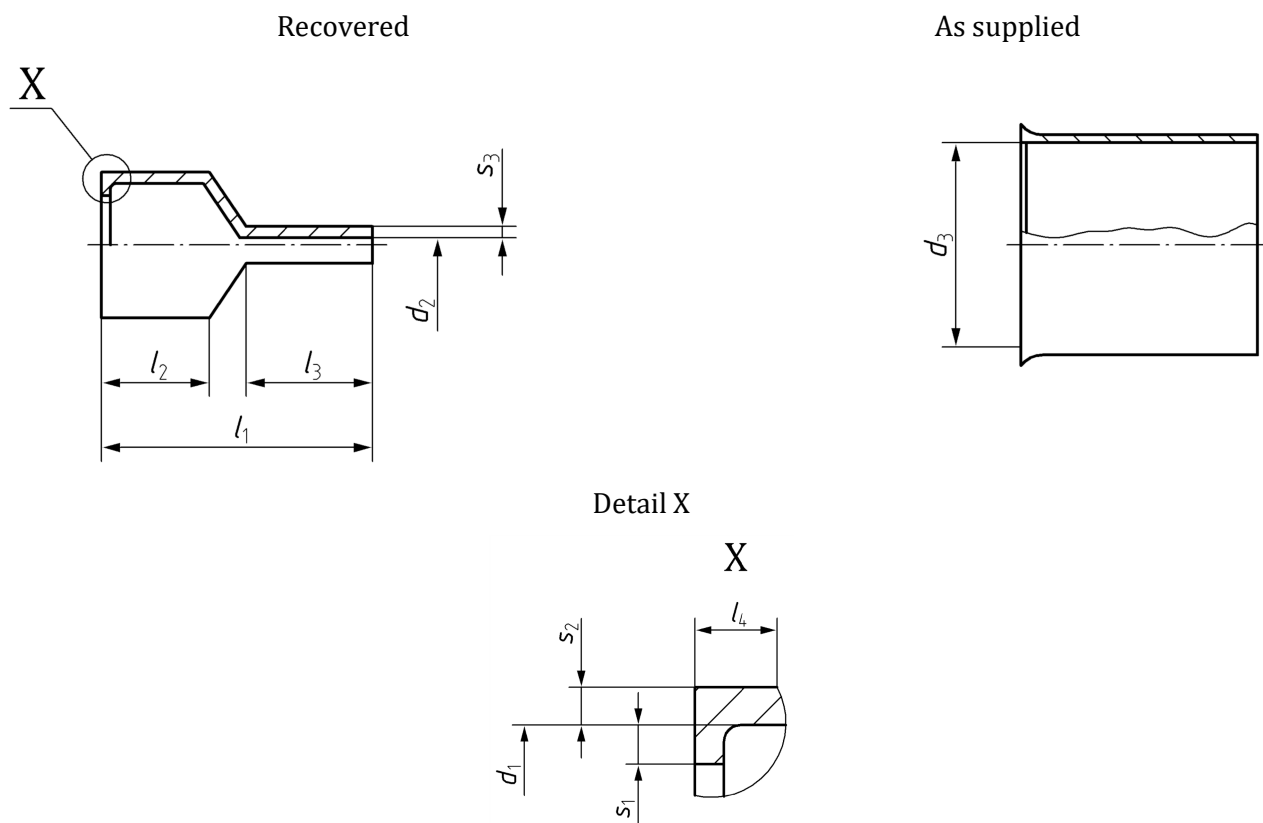


Figure 1 — Style AA (small lipped bottle)

Table 1 — Style AA

Dimensions are in millimetres

Size code	$d_1$ Max.	$d_2$ Max.	$d_3$ Min. <sup>a</sup>	$l_1$ $\pm 10\%$	$l_2$ ref	$l_3$ ref	$l_4$ Max.	$s_1$ $\pm 20\%$	$s_2$ $\pm 20\%$	$s_3$ $\pm 30\%$	Mass g Max. <sup>b</sup>
01	5,2	1,5	9	20	4	6,6	0,8	0,35	0,8	0,6	1,5
02	5,8	1,2	10	19	11	4,5	1,5	0,5	0,8	0,5	1,5
03	5,5	2	9	25	14	5	2	1	1	0,7	1,5
04	7	3	12	25	14	7,5	2	1	1,1	0,7	1,5
05	8	3,5	17	30	19	10	2	1	1,3	0,7	1,5
06	6,9	3,0	17	29	14	11	2	1	1,3	0,7	1,5
07	6,9	3,0	17	39	24	11	2	1	1,3	0,7	1,5

These parts may be available with drain holes or with eyelets for connector protection caps. Refer to the individual manufacturer for details.

<sup>a</sup> Shapes made from some material types may be supplied with a reduced  $d_3$  diameter. Refer to the individual manufacturer for exact dimensions.

<sup>b</sup> The values of mass may be higher for some material types. Refer to the individual manufacturer.

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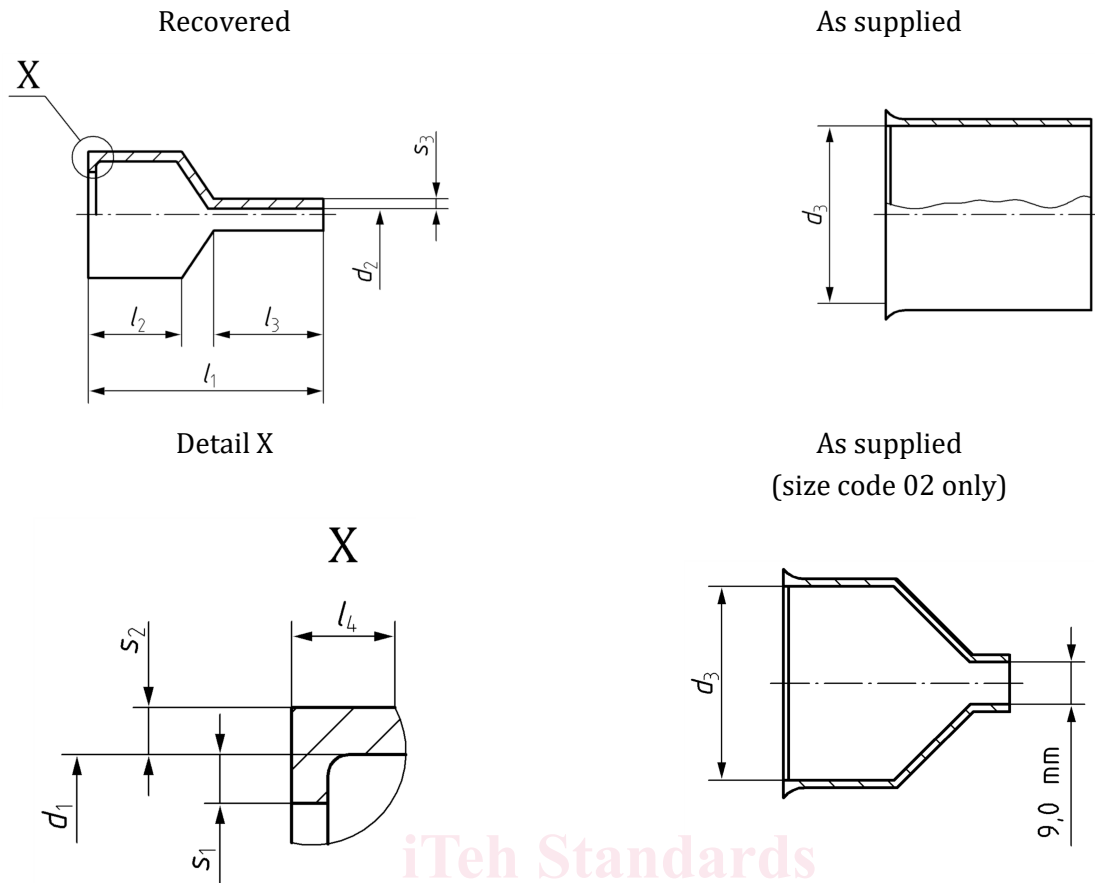


Figure 2 — Style A (lipped short bottle with short body)

Table 2 — Style A

Dimensions are in millimetres

Size code	$d_1$ Max.	$d_2$ Max.	$d_3$ Min. <sup>a</sup>	$l_1$ $\pm 10\%$	$l_2$ ref	$l_3$ ref	$l_4$ Max.	$s_1$ $\pm 20\%$	$s_2$ $\pm 20\%$	$s_3$ $\pm 30\%$	Mass g Max. <sup>b</sup>
01	10,5	6,0	24,0	26,0	9,0	10,0	3,3	1,0	1,6	c	1,6
02	14,0	3,5	25,0	40,0	13,0	16,0			1,8	c	3,3
03	14,0	6,0	30,0	43,0	20,0	13,0			1,8	1,0	4,5
04	18,0	7,0	31,0	47,0	15,0	18,0		1,8	5,5		
05	22,5	8,5	36,0	60,0	22,0	20,0		2,0	10,0		
06	28,0	10,0	43,0	60,0	21,0	20,0		1,7	2,2		12,7
07	35,0	16,0	60,0	90,0	32,0	38,0		1,7	3,2	1,5	29,5
08	45,0	17,0	66,0	130,0	50,0	50,0		2,0	3,8	2,0	71,5
09	58,0	27,0	82,0	137,0	37,0	62,0		2,0	3,8	3,8	100,0

These parts may be available with drain holes or with eyelets for connector protection caps. Refer to the individual manufacturer for details.

<sup>a</sup> Shapes made from some material types may be supplied with a reduced  $d_3$  diameter. Refer to the individual manufacturer for exact dimensions.

<sup>b</sup> The values of mass may be higher for some material types. Refer to the individual manufacturer.

<sup>c</sup> For these small shapes, this dimension shall be between 0,35 mm and 1,0 mm.



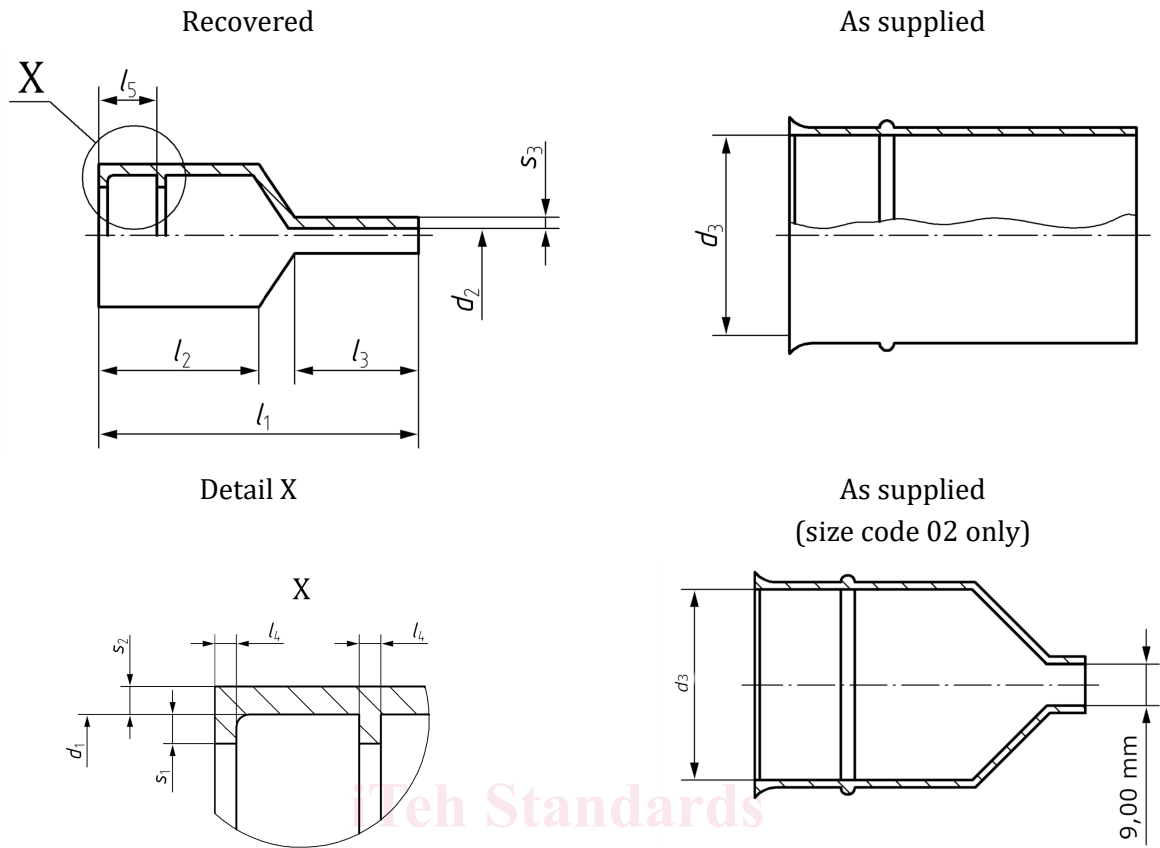


Figure 3 — Style B (lipped straight bottle with medium body)

Table 3 — Style B

Dimensions are in millimetres

Size code	$d_1$ Max.	$d_2$ Max.	$d_3$ Min. <sup>a</sup>	$l_1$ $\pm 10\%$	$l_2$ ref	$l_3$ ref	$l_4^b$ Max.	$l_5$ $\pm 10\%$	$s_1$ $\pm 20\%$	$s_2$ $\pm 20\%$	$s_3$ $\pm 30\%$	Mass g Max. <sup>c</sup>
01	10,5	6,0	24,0	38,0	21,0	10,0	3,3	12,0	1,0	1,6	d	2,8
02	14,0	3,5	25,0	55,0	28,0	16,0		14,0		1,8	d	4,4
03	14,0	6,0	30,0	55,0	32,0	13,0		12,0		1,8	1,0	5,5
04	18,0	7,0	31,0	67,0	35,0	18,0		20,0	1,8	8,3		
05	22,5	8,5	36,0	80,0	42,0	20,0			2,0	14,5		
06	28,0	10,0	43,0	79,0	41,0	20,0			1,7	2,2	18,0	
07	35,0	16,0	60,0	110,0	52,0	38,0		1,7	3,2	1,5	41,0	
08	45,0	17,0	66,0	150,0	70,0	50,0		2,0	3,8	2,0	87,0	
09	58,0	27,0	82,0	158,0	58,0	62,0		2,0	3,8	3,8	121,0	

These parts may be available with drain holes or with eyelets for connector protection caps. Refer to the individual manufacturer for details.

<sup>a</sup> Shapes made from some material types may be supplied with a reduced  $d_3$  diameter. Refer to the individual manufacturer for exact dimensions.

<sup>b</sup> The innermost lip is optional.

<sup>c</sup> The values of mass may be higher for some material types. Refer to the individual manufacturer.

<sup>d</sup> For these small shapes, this dimension shall be between 0,35 mm and 1,0 mm.

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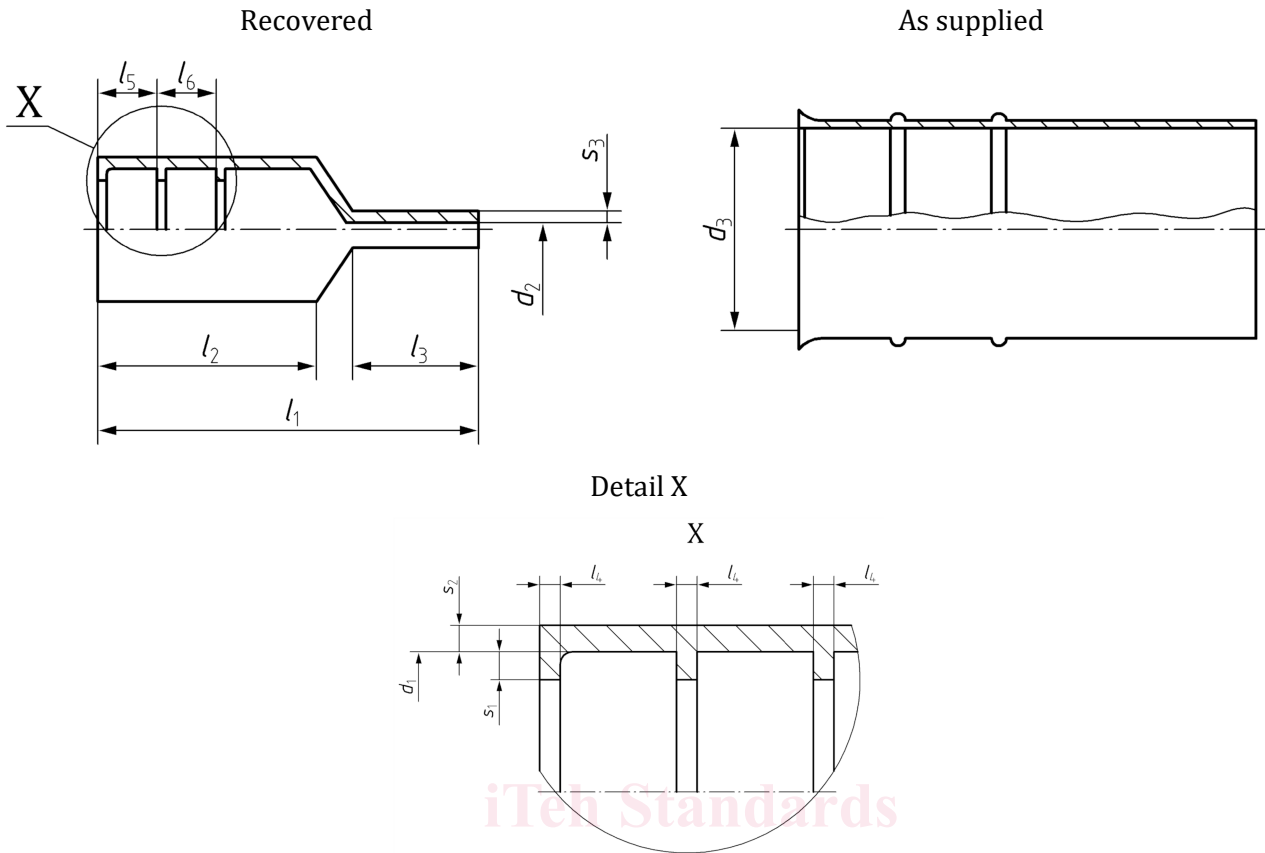


Figure 4 — Style C (lipped straight bottle with long body)

Table 4 — Style C

Dimensions are in millimetres

Size code	$d_1$ Max.	$d_2$ Max.	$d_3$ Min. <sup>a</sup>	$l_1$ $\pm 10\%$	$l_2$ ref	$l_3$ ref	$l_4$ Max.	$l_5^b$ $\pm 10\%$	$l_6^b$ $\pm 10\%$	$s_1$ $\pm 20\%$	$s_2$ $\pm 20\%$	$s_3$ $\pm 30\%$	Mass g Max. <sup>c</sup>
01	28,0	10,0	43,0	99,0	61,0	20,0	3,3	20,0	20,0	1,7	2,2	1,0	24,5
02	35,0	16,0	60,0	130,0	72,0	38,0				1,7	3,2	1,5	50,0
03	45,0	17,0	66,0	171,0	90,0	50,0				2,0	3,8	2,0	103,0
04	58,0	27,0	82,0	213,0	113,0	62,0				2,0	3,8	3,8	184,0

These parts may be available with drain holes or with eyelets for connector protection caps. Refer to the individual manufacturer for details.

<sup>a</sup> Shapes made from some material types may be supplied with a reduced  $d_3$  diameter. Refer to the individual manufacturer for exact dimensions.

<sup>b</sup> The innermost lip is optional.

<sup>c</sup> The values of mass may be higher for some material types. Refer to the individual manufacturer.

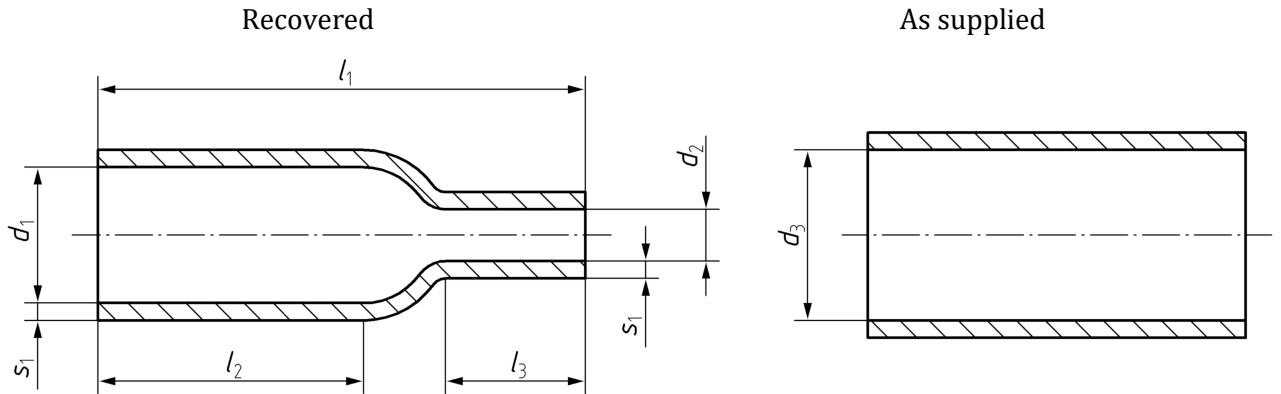


Figure 5 — Style D (non-lipped straight bottle)

Table 5 — Style D

Dimensions are in millimetres

Size code	$d_1$ Max.	$d_2$ Max.	$d_3$ Min. <sup>a</sup>	$l_1$ $\pm 10\%$	$l_2$ ref	$l_3$ ref	$s_1$ $\pm 20\%$	Mass g Max. <sup>b</sup>
01	8,0	3,8	16,0	25,4	14,2	6,0	1,3	1,2
02	10,5	5,6	23,0	38,1	22,0	9,5	1,5	3,3
03	14,5	6,6	28,0	52,5	27,0	15,0	1,8	4,3
04	18,0	7,5	31,0	66,0	37,0	18,0	1,8	7,7
05	24,5	8,6	36,0	73,7	42,0	17,0	1,8	13,6
06	28,5	9,9	42,0	97,0	58,0	21,0	2,0	21,7
07	35,5	16,0	51,0	127,0	65,0	41,0	3,2	54,5
08	44,5	20,3	66,0	160,5	91,0	48,0	3,8	105,0
09	57,5	27,0	81,0	210,0	115,0	61,5	4,2	199,0

These parts may be available with drain holes or with eyelets for connector protection caps. Refer to the individual manufacturer for details.

<sup>a</sup> Shapes made from some material types may be supplied with a reduced  $d_3$  diameter. Refer to the individual manufacturer for exact dimensions.

<sup>b</sup> The values of mass may be higher for some material types. Refer to the individual manufacturer.