



SLOVENSKI STANDARD
SIST EN 13402-3:2005
01-marec-2005

Size designation of clothes - Part 3: Measurements and intervals

Größenbezeichnung von Bekleidung - Teil 3: Maße und Sprungwerte

Désignation des tailles de vêtements - Partie 3: Mesures et intervalles

Ta slovenski standard je istoveten z: **EN 13402-3:2004**

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61.020 Uà|æ äæ Clothes

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 13402-3

November 2004

ICS 61.020

English version

Size designation of clothes - Part 3: Measurements and intervals

Désignation des tailles de vêtements - Partie 3: Mesures et intervalles

Größenbezeichnung von Bekleidung - Teil 3: Maße und Sprungwerte

This European Standard was approved by CEN on 14 October 2004.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

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 Central Secretariat has the same status as the official versions.

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

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Foreword

This document (EN 13402-3:2004) has been prepared by Technical Committee CEN/TC 248 "Textiles and textile products", the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by May 2005, and conflicting national standards shall be withdrawn at the latest by May 2005.

The standard comprises four parts:

Size designation of clothes

Part 1: Terms, definitions and body measurement procedure

Part 2: Primary and secondary dimensions

Part 3: Measurements and intervals

Part 4: Coding system

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

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Introduction

In order to size mass-produced clothes, the body size of the intended wearer has to be defined and identified with the nearest size on a table of standard sizes. In this system, the body size is defined by scales of the appropriate primary and, where necessary, secondary dimensions, using preferred numbers. A good degree of standardization is achieved by the establishment of open-ended size scales with fixed intervals in at least the primary dimension for each garment type. Where body shape is characterized by a number of girth dimensions and height, the primary dimension is placed on a size table, while the secondary dimensions are dependent variables. The nearest whole number in the tables for that dimension is used for purposes of size designation.

The tables of measures as described in this document constitute a first attempt at the grouping of body sizes appropriate to the European population. Garment size tables are readily compiled from this information. It is necessary to use an open system with inbuilt flexibility, because body shape and proportions for any one population group differ significantly.

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1 Scope

This document establishes a body sizing system to be used for compiling standard garment sizes for infants, men and boys, and women and girls. Garment dimensions are not contained in this document.

Examples of labelling clothing with the standard pictogram (see EN 13402-1) are given in Annex A (informative) in this document.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 13402-1, *Size designation of clothes — Part 1: Terms, definitions and body measurement procedure (ISO 3635:1981, modified)*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1 drop

chest-waist measurement

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the difference between chest girth and waist girth for men in centimetres, expressed with a negative value when the waist is smaller than the chest

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NOTE For a chest of 100 cm with a waist of 88 cm, the drop is -12.

3.2

primary dimension

body measurement, in centimetres, that shall be used in designating the size of a garment for the consumer

[EN 13402-1]

3.3

secondary dimension

body measurement, in centimetres, or in the case of pantyhose, body mass (kg) that may additionally be used in designating the size of a garment for the consumer

[EN 13402-1]

3.4

cup size

difference between the underbust girth and the bust girth

[EN 13402-2]

3.5

standard pictogram

pictorial symbol used to indicate the position on the body of the relevant dimensions

[EN 13402-1]

3.6

interval

difference between the value of two adjoining body measurements

EN 13402-3:2004 (E)**3.7****range**

range is calculated by using one half plus or half minus interval from the primary or secondary dimension measurement. If the interval is 1,5 cm or less no range will be shown in the pictogram. All ranges on the pictogram will be rounded down to whole numbers. In case of weights the range is shown in whole numbers

NOTE For examples, see Table 1a, 1b and 1c

3.8**lettercode**

embraces two bust or chest sizes, i.e. two intervals

4 Measurements and intervals**4.1 Women****4.1.1 General**

In order to accommodate variations in height by country and/or company, a system with 4 cm or 8 cm intervals for women is standardized, which means that a country and/or company may select any height from Table 1a with a range that may be extended to the left and right of Table 1a (see Annex A, Figure A.1).

NOTE For special kinds of clothing e.g. protective clothing, the appropriate size should be indicated by combining several body size ranges.

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Table 1a — Standard heights for women

Dimensions in centimetres

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Heights for women in cm with intervals of 4 cm

← 156	160	164	168	172	176	180	184	188 →
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Table 1b — Ranges for standard heights for women with 8 cm intervals

Dimensions in centimetres

Height	← 156	160	164	168	172	176	180	184	188 →
Range	—	156-164	—	164-172	—	172-180	—	180-188	—

Table 1c — Ranges for standard heights for women with 4 cm intervals

Dimensions in centimetres

Height	← 156	160	164	168	172	176	180	184	188 →
Range	154-158	158-162	162-166	166-170	170-174	174-178	178-182	182-186	186-190

As women may not have the exact heights detailed in Table 1a, a height range of $\pm 1/2$ interval is recommended for use on the pictogram in accordance with EN 13402-1.

In order to maintain maximum flexibility, it is left up to a country and/or company to choose 4 cm or 8 cm intervals, of which 8 cm is recommended for general use and intervals of 4 cm for trousers.

EXAMPLE If a country/company selects 168 cm with an 8 cm interval, the range on the pictogram would be 164 cm to 172 cm. If a country selects 168 cm with a 4 cm interval, the range on the pictogram would be 166 cm to 170 cm.

4.1.2 Flexible link between bust, waist and hip measurements for women

The standard sizing system allows each country/company to freely combine these three measurements as needed, although most countries will wish to use two lower or two higher waists or hips for a given bust according to the three lines of Table 2.

Different combinations are shown in the examples in Table 3a, 3b and 3c.

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Intervals

Bust: 4 cm Bust \geq 104 cm: 6 cm

Waist: 4 cm Waist \geq 88 cm: 6 cm

Hip: 4 cm Hip \geq 112 cm: 5 cm

Table 2 — Bust, waist and hip girth measurements for women

Dimensions in centimetres

Primary and secondary dimension	Girth measurements for women (bust 76 to 152)																Interval
	Bust girth	76	80	84	88	92	96	100	104	110	116	122	128	134	140	146	
Range	74-78	78-82	82-86	86-90	90-94	94-98	98-102	102-107	107-113	113-119	119-125	125-131	131-137	137-143	143-149	149-155	—

Waist girth	60	64	68	72	76	80	84	88	94	100	106	112	118	124	130	136	4 and 6
Range	58-62	62-66	66-70	70-74	74-78	78-82	82-86	86-91	91-97	97-103	103-109	109-115	115-121	121-127	127-133	133-139	—

Hip girth	84	88	92	96	100	104	108	112	117	122	127	132	137	142	147	152	4 and 5
Range	82-86	86-90	90-94	94-98	98-102	102-106	106-110	110-115	115-120	120-125	125-130	130-135	135-140	140-145	145-150	150-155	—

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Table 3a — Examples for flexible use of measurements and ranges

EXAMPLES A country/company might select the measurements with a range on the pictogram and as bust 104 cm has a changing interval, two different ranges might occur on the pictogram for bust, waist and hip (see Table 2):

Dimensions in centimetres

Combination in accordance with Table 2	Range	Combination in accordance with Table 2	Range
Bust: 88	Bust: 86 - 90	Bust: 104	Bust: 102 - 107
Waist: 72	Waist: 70 - 74	Waist: 88	Waist: 86 - 91
Hip: 96	Hip: 94 - 98	Hip: 112	Hip: 110 - 115

Table 3b — Examples for flexible use of measurements and ranges

Four examples are shown as follows:

Dimensions in centimetres

Bust: 88	Range: 86 - 90	Bust: 88	Range: 86 - 90
Waist: 68	Range: 66 - 70	Waist: 76	Range: 74 - 78
Hip: 96	Range: 94 - 98	Hip: 100	Range: 98 - 102

Bust: 104	Range: 102 - 107	Bust: 104	Range: 102 - 107
Waist: 84	Range: 82 - 86	Waist: 94	Range: 91 - 97
Hip: 108	Range: 106 - 110	Hip: 117	Range: 115 - 120

Table 3c — Examples for flexible use of hip measurements for different hip types

Dimensions in centimetres

Bust: 88	Bust: 88	Bust: 88	Bust: 88
Waist: 72	Waist: 72	Waist: 72	Waist: 72
Hip: 88	Hip: 92	Hip: 100	Hip: 104

EN 13402-3:2004 (E)**4.1.3 Sizes for bras, corsetry and swimwear with cups**

Table 4a gives the sizing system.

The bra size is determined by the underbust girth and bust girth and the cupsize is determined by the difference between bust and underbust girth.

The cupsize:	AA:	10 cm - 12 cm	(Difference between bust and underbust girth)
	A:	12 cm - 14 cm	
	B:	14 cm - 16 cm	
	C:	16 cm - 18 cm	
	D:	18 cm - 20 cm	
	E:	20 cm - 22 cm	
	F:	22 cm - 24 cm	
	G:	24 cm - 26 cm	
	H:	26 cm - 28 cm	

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