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### Označevanje velikosti oblačil - 3. del: Mere in koraki

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  
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#### **ICS:**

61.020

Oblachila

Clothes

**SIST EN 13402-3:2013**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
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**EN 13402-3**

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English Version

**Size designation of clothes - Part 3: Body measurements and intervals**

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

Größenbezeichnung von Bekleidung - Teil 3: Körpermaße und Sprungwerte

This European Standard was approved by CEN on 12 July 2013.

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

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## Foreword

This document (EN 13402-3:2013) 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of an identical text or by endorsement, at the latest by April 2014, and conflicting national standards shall be withdrawn at the latest by April 2014.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 13402-3:2004.

Within the revised version, the values and intervals are adjusted to current sizing surveys carried out in the Netherlands, France, Sweden, Germany and Romania.

EN 13402, *Size designation of clothes*, consists of the following parts:

- *Part 1: Terms, definitions and body measurement procedure (ISO 3635:1981 modified);*
- *Part 2: Primary and secondary dimensions;*
- *Part 3: Body measurements and intervals (the present document);*
- *Part 4: Coding system*<sup>1)</sup>.

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

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<sup>1)</sup> In preparation.

## 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 characterised by a number of girth dimensions and height, the primary dimension is placed on a size table, while the secondary dimensions are 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. Body measurement 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 varies. As the results of the sizing surveys of the different countries vary, the tables in this document provide the required flexibility.

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## EN 13402-3:2013 (E)

## 1 Scope

This European Standard establishes tables for body measurements and intervals to be used for compiling standard garment sizes for men, women, boys, girls and infants. 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 documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 13402-2, *Size designation of clothes — Part 2: Primary and secondary dimensions*

## 3 Terms and definitions

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

### 3.1

#### drop

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

Note 1 to entry: 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 is used to designate the size of a garment for the consumer

[SOURCE: EN 13402-1:2001, 3.1, modified]

### 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

[SOURCE: EN 13402-1:2001, 3.2, modified]

### 3.4

#### cup size

difference between the underbust girth and the bust girth

### 3.5

#### standard pictogram

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

[SOURCE: EN 13402-1:2001, 3.3]

### 3.6

#### interval

difference between the values of two adjoining body measurements



**3.7****range**

coverage of one size, calculated by using one half plus or half minus the interval

**3.8****letter code**

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

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

In order to accommodate variations in height by country/company, a system with 4 cm or 8 cm intervals for men is standardized, which means that a country/company may select any height from Tables 1 and 2 with a range that may be extended to the left and right of Tables 1 and 2 (see Annex A, Figure A.1).

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 1 — Heights for men**

Dimensions in centimetres

Height	156		160		164		168		172		176		180		184		188		192		196		200		204		208	
Range	154	158	158	162	162	166	166	170	170	174	174	178	178	182	182	186	186	190	190	194	194	198	198	202	202	206	206	210
<b>Intervals</b>	<b>4</b>		<b>4</b>		<b>4</b>		<b>4</b>		<b>4</b>		<b>4</b>		<b>4</b>		<b>4</b>		<b>4</b>		<b>4</b>		<b>4</b>		<b>4</b>		<b>4</b>		<b>4</b>	

**Table 2 — Alternative of ranges for heights for men with 8 cm intervals**

Dimensions in centimetres

Height	160		168		176		184		192		200		208	
Range	156	164	164	172	172	180	180	188	188	196	196	204	204	212
<b>Intervals</b>	<b>8</b>		<b>8</b>		<b>8</b>		<b>8</b>		<b>8</b>		<b>8</b>		<b>8</b>	

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## 4.1.2 Intervals

Intervals listed in the tables define the differences between two adjoining body measurements.

## 4.1.3 Range

Range is calculated by using one half plus or half minus the 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.

EXAMPLE For a height of 156 cm the range is 154 cm to 158 cm (see Table 3).

**Table 3 — Example of height range for men**

Height	156	
Range	154	158
Interval	4	4

## 4.1.4 Flexible link between chest/waist and waist/hip measurements for men

## 4.1.4.1 General

The standard sizing system allows each country/company freely to combine chest and waist measurements and waist and hip measurement according to its requirements. To attain the required flexibility, correlated to the primary measurements chest or waist, a range of alternatives are defined which are possible to combine. The alternatives are differentiated by coding with letters: Table 4 provides 14 alternatives named from C to Q (except I and O) for waist; Table 8 provides 8 alternatives named from C to K (except I and O) for waist and hip.

The alternatives could for instance be expanded to an alternative A for smaller waists/hips and from K/k to O/o for larger hips.

The flexibility of the system allows by combining different hip and waist alternatives to build up the individual figure types of each country/company. It is also possible to change the alternatives between the sizes (see examples in Table 4).

During one alternative, the drop type changes, because the intervals for chest and waist are different from chest 108 cm.

## 4.1.4.2 Flexible use of chest-waist values for various drops

Countries/companies may wish to use a choice of chest and waist girth measurements for drop type minus 12, which have the above shown choices of chest and waist (drop minus 12 cm is the difference between chest and waist).

## 4.1.4.3 Flexible link between waist and hip girth measurements for men

For products like trousers, which cover the lower body, waist is the primary measurement and defines the size. To determine differentiations between various figure types, hip as secondary measurement is required. Table 8 contains a range of alternatives, which allows defining the whole range of individual figure types of different countries or companies.

The alternatives are to use as shown by the examples in Table 5.

#### 4.1.4.4 Flexible link between neck and chest girth measurements for men

Neck is the primary measurement for men's shirts. Table 6 shows five different alternatives for neck/chest combinations. The alternatives allow the flexible use of neck/chest combinations for each country/company. The alternatives are expandable down to alternative A and up to alternative K for instance. The principle of flexible use is the same as for choosing waist alternatives.

#### 4.1.4.5 Alternatives of arm length in correlation to chest and body height for men

Table 7 contains a range of arm lengths related to neck girth. For each neck size, 12 alternatives are available: C to O. The alternatives are expandable after the same systematic as the other measurements. The correlation to neck is static between the different sizes. Nevertheless by changing the alternative for the arm length, required flexibility is provided.

Alternative arm length relationships may be used other than those listed in Table 7.

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Table 4 — Chest and waist measurements for men – garments for upper body

Dimensions in centimetres

Chest girth - primary dimension																																		
Mean value	76		80		84		88		92		96		100		104		108		112		116		120		124		128		132		136			
Range	74	78	78	82	82	86	86	90	90	94	94	98	98	102	102	106	106	110	110	114	114	118	118	122	122	126	126	130	130	134	134	138		
Intervals	4		4		4		4		4		4		4		4		4		4		4		4		4		4		4		4			
Alternative	Waist girth - primary and secondary dimension																																	
C	58		62		66		70		74		78		82		86		91		96		101		106		111		116		121		126			
Range	56	60	60	64	64	68	68	72	72	76	76	80	80	84	84	89	89	94	94	99	99	104	104	109	109	114	114	119	119	124	124	129		
D	60		64		68		72		76		80		84		88		93		98		103		108		113		118		123		128			
Range	58	62	62	66	66	70	70	74	74	78	78	82	82	86	86	91	91	96	96	101	101	106	106	111	111	116	116	121	121	126	126	131		
E	62		66		70		74		78		82		86		90		95		100		105		110		115		120		125		130			
Range	60	64	64	68	68	72	72	76	76	80	80	84	84	88	88	94	93	98	98	103	103	108	108	113	113	118	118	123	123	128	128	133		
F	64		68		72		76		80		84		88		92		97		102		107		112		117		122		127		132			
Range	62	66	66	70	70	74	74	78	78	82	82	86	86	90	90	95	95	100	100	105	105	110	110	115	115	120	120	125	125	130	130	135		
G	66		70		74		78		82		86		90		94		99		104		109		114		119		124		129		134			
Range	64	68	68	72	72	76	76	80	80	84	84	88	88	92	92	97	97	102	102	107	107	112	112	117	117	122	122	127	127	132	132	137		
H	68		72		76		80		84		88		92		96		101		106		111		116		121		126		131		136			
Range	66	70	70	74	74	78	78	82	82	86	86	90	90	94	94	99	99	104	104	109	109	114	114	119	119	124	124	129	129	134	134	139		
J	70		74		78		82		86		90		94		98		103		108		113		118		123		128		133		138			
Range	68	72	72	76	76	80	80	84	84	88	88	92	92	96	96	101	101	106	106	111	111	116	116	121	121	126	126	131	131	136	136	141		
K	72		76		80		84		88		92		96		100		105		110		115		120		125		130		135		140			
Range	70	74	74	78	78	82	82	86	86	90	90	94	94	98	98	103	103	108	108	113	113	118	118	123	123	128	128	133	133	138	138	143		
L	74		78		82		86		90		94		98		102		107		112		117		122		127		132		137		142			
Range	72	76	76	80	80	84	84	88	88	92	92	96	96	100	100	105	105	110	110	115	115	120	120	125	125	130	130	135	135	140	140	145		
M	76		80		84		88		92		96		100		104		109		114		119		124		129		134		139		144			
Range	74	78	78	82	82	86	86	90	90	94	94	98	98	102	102	107	107	112	112	117	117	122	122	127	127	132	132	137	137	142	142	147		
N	78		82		86		90		94		98		102		106		111		116		121		126		131		136		141		146			
Range	76	80	80	84	84	88	88	92	92	96	96	100	100	104	104	109	109	114	114	119	119	124	124	129	129	134	134	139	139	144	144	149		
P	80		84		88		92		96		100		104		108		113		118		123		128		133		138		143		148			
Range	78	82	82	86	86	90	90	94	94	98	98	102	102	106	106	111	111	116	116	121	121	126	126	131	131	136	136	141	141	146	146	151		
Q	82		86		90		94		98		102		106		110		115		120		125		130		135		140		145		150			
Range	80	84	84	88	88	92	92	96	96	100	100	104	104	108	108	112	112	118	118	123	123	128	128	133	133	138	138	143	143	148	148	153		
R	84		88		92		96		100		104		108		112		117		122		127		132		137		142		147		152			
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		
Intervals	4		4		4		4		4		4		4		5		5		5		5		5		5		5		5		5			

Table 5 — Examples for flexible use of measurements

Dimensions in centimetres

Chest girth - primary dimension																										
Mean value	76		80		84		88		92		96		100		104		108		112		116		120		124	
Range	74	78	78	82	82	86	86	90	90	94	94	98	98	102	102	106	106	110	110	114	114	118	118	122	122	126
Intervals	4		4		4		4		4		4		4		4		4		4		4		4		4	

  

Alternative	Waist girth - primary and secondary dimension																									
G	66		70		74		78		82		86		90		94		99		104		109		114		119	
Range	64	68	68	72	72	76	76	80	80	84	84	88	88	92	92	97	97	102	102	107	107	112	112	117	117	122
Intervals	4		4		4		4		4		4		4		5		5		5		5		5		5	

EXAMPLE 1 Choice of the alternative G for waist during the sizes → drop type minus 10 for chests smaller than 108 – for chests larger than 104 the drop type changes with each size.

Chest girth - primary dimension																		
Mean value	76		80		84		88		92		96		100		104		108	
Range	74	78	78	82	82	86	86	90	90	94	94	98	98	102	102	106	106	110
Intervals	4	4		4		4		4		4		4		4		4		4

Chest girth - primary dimension									
Mean value	112		116		120		124		
Range	110	114	114	118	118	122	122	126	130
Intervals	4	4		4		4		4	

Alternative	Waist girth - secondary dimension																	
G	66		70		74		78		82		86		90		94		99	
Range	64	68	68	72	72	76	76	80	80	84	84	88	88	92	92	96	96	101
Intervals	4	4		4		4		4		4		4		4		5		5

Alternative	Waist girth - secondary dimension							
F	102		107		112		117	
Range	101	104	104	109	109	114	114	119
Intervals	3	5		5		5		5

EXAMPLE 2 Choice of different waist alternatives during the sizes: it shows waist alternative G until chest 108 and F for larger chests. By choosing a smaller waist alternative, changing of drop type for larger chests can be reduced.