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**Rolling bearings — Radial bearings —  
Boundary dimensions, general plan**

*Roulements — Roulements radiaux — Dimensions d'encombrement,  
plan général*

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## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see [www.iso.org/directives](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see the following URL: [www.iso.org/iso/foreword.html](http://www.iso.org/iso/foreword.html).

This document was prepared by Technical Committee ISO/TC 4, *Rolling bearings*.

This fourth edition cancels and replaces the third edition (ISO 15:2011), which has been technically revised. The tables have been extended to incorporate dimensions of very large bearings.

## Introduction

The objective of this document is to restrict the number of radial bearing sizes just enough to ensure economic production, yet provide a sufficient number of sizes to satisfy present and future needs of bearing users.

These needs are comprehensive and varying. Therefore, this document needs to embrace a wide range of numerically determined sizes and proportions and can even be extended according to the guidelines given in [Annex A](#).

Tapered roller bearings, insert bearings and some types of needle roller bearings and instrument precision bearings standardized by ISO do not conform to this document because the dimensions given are not found to be optimal for the bearings in question.

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# Rolling bearings — Radial bearings — Boundary dimensions, general plan

## 1 Scope

This document specifies preferred boundary dimensions for radial bearings of the diameter series 7, 8, 9, 0, 1, 2, 3 and 4.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

ISO 464, *Rolling bearings — Radial bearings with locating snap ring — Dimensions, geometrical product specifications (GPS) and tolerance values*

ISO 5593, *Rolling bearings — Vocabulary*

ISO 12043, *Rolling bearings — Single-row cylindrical roller bearings — Chamfer dimensions for loose rib and non-rib sides*

ISO 12044, *Rolling bearings — Single-row angular contact ball bearings — Chamfer dimensions for outer ring non-thrust side*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 5593 apply.

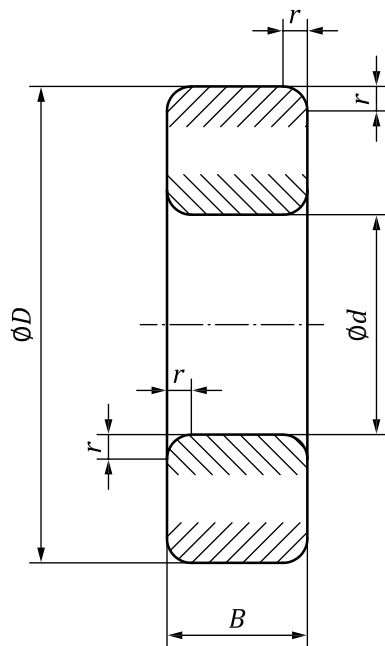
ISO and IEC maintain terminological databases for use in standardization at the following addresses:

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

## 4 Symbols

For the purposes of this document, the symbols given in ISO 15241<sup>[3]</sup> and the following apply.

The symbols shown in [Figure 1](#) and given in [Tables 1](#) to [8](#) denote nominal dimensions, unless specified otherwise.

**Key**

- $B$  bearing width  
 $D$  bearing outside diameter  
 $d$  bearing bore diameter  
 $r$  chamfer dimension  
 $r_{s \min}$  smallest permissible single chamfer dimension

**Figure 1 — Radial bearing****5 Boundary dimensions**

Boundary dimensions for radial bearings of the diameter series 7, 8, 9, 0, 1, 2, 3 and 4 are given in [Tables 1 to 8](#).

The chamfer dimensions given in [Tables 1 to 8](#) do not always apply to the following:

- the groove side of bearing rings with snap ring groove (these shall be in accordance with ISO 464);
- the loose rib and the non-rib sides of cylindrical roller bearing rings (the exceptions shall be in accordance with ISO 12043);
- the non-thrust side of angular contact bearing outer rings (these shall be in accordance with ISO 12044).

Chamfer dimension,  $r$ , applies at the corners indicated in [Figure 1](#) and is specified with  $r_{s \min}$  in [Tables 1 to 8](#).

The chamfer dimensions for inner rings of bearings with tapered bore may be smaller than those shown in [Tables 1 to 8](#).

The corresponding largest single chamfer dimensions to the  $r_{s \min}$  dimensions in [Tables 1 to 8](#) are given in ISO 582[2].

Table 1 — Diameter series 7

Dimensions in millimetres

| <i>d</i> | <i>D</i> | Dimension series |     |     |    | <i>r</i> <sub>s min</sub> |
|----------|----------|------------------|-----|-----|----|---------------------------|
|          |          | 17               | 27  | 37  | 47 |                           |
|          |          | <i>B</i>         |     |     |    |                           |
| 0,6      | 2        | 0,8              | —   | —   | —  | 0,05                      |
| 1        | 2,5      | 1                | —   | —   | —  | 0,05                      |
| 1,5      | 3        | 1                | —   | 1,8 | —  | 0,05                      |
| 2        | 4        | 1,2              | —   | 2   | —  | 0,05                      |
| 2,5      | 5        | 1,5              | 1,8 | 2,3 | —  | 0,08                      |
| 3        | 6        | 2                | 2,5 | 3   | —  | 0,08                      |
| 4        | 7        | 2                | 2,5 | 3   | —  | 0,08                      |
| 5        | 8        | 2                | 2,5 | 3   | —  | 0,08                      |
| 6        | 10       | 2,5              | 3   | 3,5 | —  | 0,1                       |
| 7        | 11       | 2,5              | 3   | 3,5 | —  | 0,1                       |
| 8        | 12       | 2,5              | —   | 3,5 | —  | 0,1                       |
| 9        | 14       | 3                | —   | 4,5 | —  | 0,1                       |
| 10       | 15       | 3                | —   | 4,5 | —  | 0,1                       |
| 12       | 18       | 4                | —   | 5   | —  | 0,2                       |
| 15       | 21       | 4                | —   | 5   | —  | 0,2                       |
| 17       | 23       | 4                | —   | 5   | —  | 0,2                       |
| 20       | 27       | 4                | —   | 5   | 7  | 0,2                       |
| 22       | 30       | 4                | —   | 5   | 7  | 0,2                       |
| 25       | 32       | 4                | —   | 5   | 7  | 0,2                       |
| 28       | 35       | 4                | —   | 5   | 7  | 0,2                       |
| 30       | 37       | 4                | —   | 5   | 7  | 0,2                       |
| 32       | 40       | 4                | —   | 6   | 8  | 0,2                       |
| 35       | 44       | 5                | —   | 7   | 9  | 0,3                       |
| 40       | 50       | 6                | —   | 8   | 10 | 0,3                       |
| 45       | 55       | 6                | —   | 8   | 10 | 0,3                       |
| 50       | 62       | 6                | —   | 10  | 12 | 0,3                       |
| 55       | 68       | 7                | —   | 10  | 13 | 0,3                       |
| 60       | 75       | 7                | —   | 12  | 15 | 0,3                       |
| 65       | 80       | 7                | —   | 12  | 15 | 0,3                       |
| 70       | 85       | 7                | —   | 12  | 15 | 0,3                       |
| 75       | 90       | 7                | —   | 12  | 15 | 0,3                       |
| 80       | 95       | 7                | —   | 12  | 15 | 0,3                       |
| 85       | 105      | 10               | —   | 15  | —  | 0,6                       |
| 90       | 110      | 10               | —   | 15  | —  | 0,6                       |
| 95       | 115      | 10               | —   | 15  | —  | 0,6                       |
| 100      | 120      | 10               | —   | 15  | —  | 0,6                       |
| 105      | 125      | 10               | —   | 15  | —  | 0,6                       |

Table 1 (continued)

| <i>d</i> | <i>D</i> | Dimension series |    |    |    | <i>r</i> <sub>S</sub> min |
|----------|----------|------------------|----|----|----|---------------------------|
|          |          | 17               | 27 | 37 | 47 |                           |
|          |          | <i>B</i>         |    |    |    |                           |
| 110      | 135      | 13               | —  | 19 | —  | 1                         |
| 120      | 145      | 13               | —  | 19 | —  | 1                         |
| 130      | 160      | 16               | —  | 23 | —  | 1                         |
| 140      | 170      | 16               | —  | 23 | —  | 1                         |
| 150      | 180      | 16               | —  | 23 | —  | 1                         |
| 160      | 190      | 16               | —  | 23 | —  | 1                         |
| 170      | 200      | 16               | —  | 23 | —  | 1                         |
| 180      | 215      | 18               | —  | 26 | —  | 1,1                       |
| 190      | 230      | 20               | —  | 30 | —  | 1,1                       |
| 200      | 240      | 20               | —  | 30 | —  | 1,1                       |

Table 2 — Diameter series 8

Dimensions in millimetres

| <i>d</i> | <i>D</i> | Dimension series |     |     |     |    |    |    |     | <i>r<sub>s</sub> min</i> |
|----------|----------|------------------|-----|-----|-----|----|----|----|-----|--------------------------|
|          |          | 08               | 18  | 28  | 38  | 48 | 58 | 68 | 08  | 18 to 68                 |
|          |          | <i>B</i>         |     |     |     |    |    |    |     |                          |
| 0,6      | 2,5      | —                | 1   | —   | 1,4 | —  | —  | —  | —   | 0,05                     |
| 1        | 3        | —                | 1   | —   | 1,5 | —  | —  | —  | —   | 0,05                     |
| 1,5      | 4        | —                | 1,2 | —   | 2   | —  | —  | —  | —   | 0,05                     |
| 2        | 5        | —                | 1,5 | —   | 2,3 | —  | —  | —  | —   | 0,08                     |
| 2,5      | 6        | —                | 1,8 | —   | 2,6 | —  | —  | —  | —   | 0,08                     |
| 3        | 7        | —                | 2   | —   | 3   | —  | —  | —  | —   | 0,1                      |
| 4        | 9        | —                | 2,5 | 3,5 | 4   | —  | —  | —  | —   | 0,1                      |
| 5        | 11       | —                | 3   | 4   | 5   | —  | —  | —  | —   | 0,15                     |
| 6        | 13       | —                | 3,5 | 5   | 6   | —  | —  | —  | —   | 0,15                     |
| 7        | 14       | —                | 3,5 | 5   | 6   | —  | —  | —  | —   | 0,15                     |
| 8        | 16       | —                | 4   | 5   | 6   | 8  | —  | —  | —   | 0,2                      |
| 9        | 17       | —                | 4   | 5   | 6   | 8  | —  | —  | —   | 0,2                      |
| 10       | 19       | —                | 5   | 6   | 7   | 9  | —  | —  | —   | 0,3                      |
| 12       | 21       | —                | 5   | 6   | 7   | 9  | —  | —  | —   | 0,3                      |
| 15       | 24       | —                | 5   | 6   | 7   | 9  | —  | —  | —   | 0,3                      |
| 17       | 26       | —                | 5   | 6   | 7   | 9  | —  | —  | —   | 0,3                      |
| 20       | 32       | 4                | 7   | 8   | 10  | 12 | 16 | 22 | 0,3 | 0,3                      |
| 22       | 34       | 4                | 7   | —   | 10  | —  | 16 | 22 | 0,3 | 0,3                      |
| 25       | 37       | 4                | 7   | 8   | 10  | 12 | 16 | 22 | 0,3 | 0,3                      |
| 28       | 40       | 4                | 7   | —   | 10  | —  | 16 | 22 | 0,3 | 0,3                      |

Table 2 (continued)

| <i>d</i> | <i>D</i> | Dimension series |    |    |    |    |     |     |                          |          |
|----------|----------|------------------|----|----|----|----|-----|-----|--------------------------|----------|
|          |          | 08               | 18 | 28 | 38 | 48 | 58  | 68  | 08                       | 18 to 68 |
|          |          | <i>B</i>         |    |    |    |    |     |     | <i>r<sub>s</sub> min</i> |          |
| 30       | 42       | 4                | 7  | 8  | 10 | 12 | 16  | 22  | 0,3                      | 0,3      |
| 32       | 44       | 4                | 7  | —  | 10 | —  | 16  | 22  | 0,3                      | 0,3      |
| 35       | 47       | 4                | 7  | 8  | 10 | 12 | 16  | 22  | 0,3                      | 0,3      |
| 40       | 52       | 4                | 7  | 8  | 10 | 12 | 16  | 22  | 0,3                      | 0,3      |
| 45       | 58       | 4                | 7  | 8  | 10 | 13 | 18  | 23  | 0,3                      | 0,3      |
| 50       | 65       | 5                | 7  | 10 | 12 | 15 | 20  | 27  | 0,3                      | 0,3      |
| 55       | 72       | 7                | 9  | 11 | 13 | 17 | 23  | 30  | 0,3                      | 0,3      |
| 60       | 78       | 7                | 10 | 12 | 14 | 18 | 24  | 32  | 0,3                      | 0,3      |
| 65       | 85       | 7                | 10 | 13 | 15 | 20 | 27  | 36  | 0,3                      | 0,6      |
| 70       | 90       | 8                | 10 | 13 | 15 | 20 | 27  | 36  | 0,3                      | 0,6      |
| 75       | 95       | 8                | 10 | 13 | 15 | 20 | 27  | 36  | 0,3                      | 0,6      |
| 80       | 100      | 8                | 10 | 13 | 15 | 20 | 27  | 36  | 0,3                      | 0,6      |
| 85       | 110      | 9                | 13 | 16 | 19 | 25 | 34  | 45  | 0,3                      | 1        |
| 90       | 115      | 9                | 13 | 16 | 19 | 25 | 34  | 45  | 0,3                      | 1        |
| 95       | 120      | 9                | 13 | 16 | 19 | 25 | 34  | 45  | 0,3                      | 1        |
| 100      | 125      | 9                | 13 | 16 | 19 | 25 | 34  | 45  | 0,3                      | 1        |
| 105      | 130      | 9                | 13 | 16 | 19 | 25 | 34  | 45  | 0,3                      | 1        |
| 110      | 140      | 10               | 16 | 19 | 23 | 30 | 40  | 54  | 0,6                      | 1        |
| 120      | 150      | 10               | 16 | 19 | 23 | 30 | 40  | 54  | 0,6                      | 1        |
| 130      | 165      | 11               | 18 | 22 | 26 | 35 | 46  | 63  | 0,6                      | 1,1      |
| 140      | 175      | 11               | 18 | 22 | 26 | 35 | 46  | 63  | 0,6                      | 1,1      |
| 150      | 190      | 13               | 20 | 24 | 30 | 40 | 54  | 71  | 0,6                      | 1,1      |
| 160      | 200      | 13               | 20 | 24 | 30 | 40 | 54  | 71  | 0,6                      | 1,1      |
| 170      | 215      | 14               | 22 | 27 | 34 | 45 | 60  | 80  | 0,6                      | 1,1      |
| 180      | 225      | 14               | 22 | 27 | 34 | 45 | 60  | 80  | 0,6                      | 1,1      |
| 190      | 240      | 16               | 24 | 30 | 37 | 50 | 67  | 90  | 1                        | 1,5      |
| 200      | 250      | 16               | 24 | 30 | 37 | 50 | 67  | 90  | 1                        | 1,5      |
| 220      | 270      | 16               | 24 | 30 | 37 | 50 | 67  | 90  | 1                        | 1,5      |
| 240      | 300      | 19               | 28 | 36 | 45 | 60 | 80  | 109 | 1                        | 2        |
| 260      | 320      | 19               | 28 | 36 | 45 | 60 | 80  | 109 | 1                        | 2        |
| 280      | 350      | 22               | 33 | 42 | 52 | 69 | 95  | 125 | 1,1                      | 2        |
| 300      | 380      | 25               | 38 | 48 | 60 | 80 | 109 | 145 | 1,5                      | 2,1      |
| 320      | 400      | 25               | 38 | 48 | 60 | 80 | 109 | 145 | 1,5                      | 2,1      |
| 340      | 420      | 25               | 38 | 48 | 60 | 80 | 109 | 145 | 1,5                      | 2,1      |
| 360      | 440      | 25               | 38 | 48 | 60 | 80 | 109 | 145 | 1,5                      | 2,1      |

Table 2 (continued)

| <i>d</i> | <i>D</i> | Dimension series |     |     |     |     |     |     |                          |          |
|----------|----------|------------------|-----|-----|-----|-----|-----|-----|--------------------------|----------|
|          |          | 08               | 18  | 28  | 38  | 48  | 58  | 68  | 08                       | 18 to 68 |
|          |          | <i>B</i>         |     |     |     |     |     |     | <i>r<sub>s</sub></i> min |          |
| 380      | 480      | 31               | 46  | 60  | 75  | 100 | 136 | 180 | 2                        | 2,1      |
| 400      | 500      | 31               | 46  | 60  | 75  | 100 | 136 | 180 | 2                        | 2,1      |
| 420      | 520      | 31               | 46  | 60  | 75  | 100 | 136 | 180 | 2                        | 2,1      |
| 440      | 540      | 31               | 46  | 60  | 75  | 100 | 136 | 180 | 2                        | 2,1      |
| 460      | 580      | 37               | 56  | 72  | 90  | 118 | 160 | 218 | 2,1                      | 3        |
| 480      | 600      | 37               | 56  | 72  | 90  | 118 | 160 | 218 | 2,1                      | 3        |
| 500      | 620      | 37               | 56  | 72  | 90  | 118 | 160 | 218 | 2,1                      | 3        |
| 530      | 650      | 37               | 56  | 72  | 90  | 118 | 160 | 218 | 2,1                      | 3        |
| 560      | 680      | 37               | 56  | 72  | 90  | 118 | 160 | 218 | 2,1                      | 3        |
| 600      | 730      | 42               | 60  | 78  | 98  | 128 | 175 | 236 | 3                        | 3        |
| 630      | 780      | 48               | 69  | 88  | 112 | 150 | 200 | 272 | 3                        | 4        |
| 670      | 820      | 48               | 69  | 88  | 112 | 150 | 200 | 272 | 3                        | 4        |
| 710      | 870      | 50               | 74  | 95  | 118 | 160 | 218 | 290 | 4                        | 4        |
| 750      | 920      | 54               | 78  | 100 | 128 | 170 | 230 | 308 | 4                        | 5        |
| 800      | 980      | 57               | 82  | 106 | 136 | 180 | 243 | 325 | 4                        | 5        |
| 850      | 1 030    | 57               | 82  | 106 | 136 | 180 | 243 | 325 | 4                        | 5        |
| 900      | 1 090    | 60               | 85  | 112 | 140 | 190 | 258 | 345 | 5                        | 5        |
| 950      | 1 150    | 63               | 90  | 118 | 150 | 200 | 272 | 355 | 5                        | 5        |
| 1 000    | 1 220    | 71               | 100 | 128 | 165 | 218 | 300 | 400 | 5                        | 6        |
| 1 060    | 1 280    | 71               | 100 | 128 | 165 | 218 | 300 | 400 | 5                        | 6        |
| 1 120    | 1 360    | 78               | 106 | 140 | 180 | 243 | 325 | 438 | 5                        | 6        |
| 1 180    | 1 420    | 78               | 106 | 140 | 180 | 243 | 325 | 438 | 5                        | 6        |
| 1 250    | 1 500    | 80               | 112 | 145 | 185 | 250 | 335 | 450 | 6                        | 6        |
| 1 320    | 1 600    | 88               | 122 | 165 | 206 | 280 | 375 | 500 | 6                        | 6        |
| 1 400    | 1 700    | 95               | 132 | 175 | 224 | 300 | 400 | 545 | 6                        | 7,5      |
| 1 500    | 1 820    | 103              | 140 | 185 | 243 | 315 | —   | —   | 6                        | 7,5      |
| 1 600    | 1 950    | 112              | 155 | 200 | 265 | 345 | —   | —   | 7,5                      | 7,5      |
| 1 700    | 2 060    | 115              | 160 | 206 | 272 | 355 | —   | —   | 7,5                      | 7,5      |
| 1 800    | 2 180    | 122              | 165 | 218 | 290 | 375 | —   | —   | 7,5                      | 9,5      |
| 1 900    | 2 300    | 128              | 175 | 230 | 300 | 400 | —   | —   | 7,5                      | 9,5      |
| 2 000    | 2 430    | 136              | 190 | 250 | 325 | 425 | —   | —   | 7,5                      | 9,5      |
| 2 120    | 2 560    | 140              | 195 | 250 | 335 | 437 | —   | —   | 9,5                      | 12       |
| 2 240    | 2 710    | 150              | 206 | 272 | 355 | 475 | —   | —   | 9,5                      | 12       |
| 2 360    | 2 850    | 155              | 218 | 280 | 365 | 487 | —   | —   | 9,5                      | 15       |
| 2 500    | 3 010    | 165              | 224 | 290 | 387 | 515 | —   | —   | 9,5                      | 15       |

Table 2 (continued)

| <i>d</i>     | <i>D</i> | Dimension series |     |     |     |     |    |    |                          |          |
|--------------|----------|------------------|-----|-----|-----|-----|----|----|--------------------------|----------|
|              |          | 08               | 18  | 28  | 38  | 48  | 58 | 68 | 08                       | 18 to 68 |
|              |          | <i>B</i>         |     |     |     |     |    |    | <i>r<sub>s</sub> min</i> |          |
| <b>2 650</b> | 3 190    | 175              | 236 | 307 | 400 | 545 | —  | —  | 12                       | 15       |
| <b>2 800</b> | 3 370    | 180              | 250 | 325 | 425 | 580 | —  | —  | 12                       | 15       |
| <b>3 000</b> | 3 610    | 195              | 265 | 355 | 462 | 615 | —  | —  | 12                       | 15       |
| <b>3 150</b> | 3 780    | 200              | 280 | 365 | 475 | 630 | —  | —  | 12                       | 19       |
| <b>3 350</b> | 4 020    | 212              | 290 | 387 | 500 | 670 | —  | —  | 12                       | 19       |
| <b>3 550</b> | 4 260    | 230              | 315 | 412 | 530 | 710 | —  | —  | 15                       | 19       |
| <b>3 750</b> | 4 490    | 236              | 325 | 425 | 560 | 750 | —  | —  | 15                       | 19       |
| <b>4 000</b> | 4 790    | 250              | 345 | 450 | 600 | 800 | —  | —  | 15                       | 19       |

Table 3 — Diameter series 9

Dimensions in millimetres

| <i>d</i>   | <i>D</i> | Dimension series |     |     |     |    |    |    |                          |          |          |
|------------|----------|------------------|-----|-----|-----|----|----|----|--------------------------|----------|----------|
|            |          | 09               | 19  | 29  | 39  | 49 | 59 | 69 | 09                       | 19 to 39 | 49 to 69 |
|            |          | <i>B</i>         |     |     |     |    |    |    | <i>r<sub>s</sub> min</i> |          |          |
| <b>1</b>   | 4        | —                | 1,6 | —   | 2,3 | —  | —  | —  | —                        | 0,1      | —        |
| <b>1,5</b> | 5        | —                | 2   | —   | 2,6 | —  | —  | —  | —                        | 0,15     | —        |
| <b>2</b>   | 6        | —                | 2,3 | —   | 3   | —  | —  | —  | —                        | 0,15     | —        |
| <b>2,5</b> | 7        | —                | 2,5 | —   | 3,5 | —  | —  | —  | —                        | 0,15     | —        |
| <b>3</b>   | 8        | —                | 3   | —   | 4   | —  | —  | —  | —                        | 0,15     | —        |
| <b>4</b>   | 11       | —                | 4   | —   | 5   | —  | —  | —  | —                        | 0,15     | —        |
| <b>5</b>   | 13       | —                | 4   | —   | 6   | 10 | —  | —  | —                        | 0,2      | 0,15     |
| <b>6</b>   | 15       | —                | 5   | —   | 7   | 10 | —  | —  | —                        | 0,2      | 0,15     |
| <b>7</b>   | 17       | —                | 5   | —   | 7   | 10 | —  | —  | —                        | 0,3      | 0,15     |
| <b>8</b>   | 19       | —                | 6   | —   | 9   | 11 | —  | —  | —                        | 0,3      | 0,2      |
| <b>9</b>   | 20       | —                | 6   | —   | 9   | 11 | —  | —  | —                        | 0,3      | 0,3      |
| <b>10</b>  | 22       | —                | 6   | 8   | 10  | 13 | 16 | 22 | —                        | 0,3      | 0,3      |
| <b>12</b>  | 24       | —                | 6   | 8   | 10  | 13 | 16 | 22 | —                        | 0,3      | 0,3      |
| <b>15</b>  | 28       | —                | 7   | 8,5 | 10  | 13 | 18 | 23 | —                        | 0,3      | 0,3      |
| <b>17</b>  | 30       | —                | 7   | 8,5 | 10  | 13 | 18 | 23 | —                        | 0,3      | 0,3      |
| <b>20</b>  | 37       | 7                | 9   | 11  | 13  | 17 | 23 | 30 | 0,3                      | 0,3      | 0,3      |
| <b>22</b>  | 39       | 7                | 9   | 11  | 13  | 17 | 23 | 30 | 0,3                      | 0,3      | 0,3      |
| <b>25</b>  | 42       | 7                | 9   | 11  | 13  | 17 | 23 | 30 | 0,3                      | 0,3      | 0,3      |
| <b>28</b>  | 45       | 7                | 9   | 11  | 13  | 17 | 23 | 30 | 0,3                      | 0,3      | 0,3      |
| <b>30</b>  | 47       | 7                | 9   | 11  | 13  | 17 | 23 | 30 | 0,3                      | 0,3      | 0,3      |
| <b>32</b>  | 52       | 7                | 10  | 13  | 15  | 20 | 27 | 36 | 0,3                      | 0,6      | 0,6      |
| <b>35</b>  | 55       | 7                | 10  | 13  | 15  | 20 | 27 | 36 | 0,3                      | 0,6      | 0,6      |
| <b>40</b>  | 62       | 8                | 12  | 14  | 16  | 22 | 30 | 40 | 0,3                      | 0,6      | 0,6      |

Table 3 (continued)

| <i>d</i>   | <i>D</i> | Dimension series |    |    |     |     |     |     |                           |          |          |
|------------|----------|------------------|----|----|-----|-----|-----|-----|---------------------------|----------|----------|
|            |          | 09               | 19 | 29 | 39  | 49  | 59  | 69  | 09                        | 19 to 39 | 49 to 69 |
|            |          | <i>B</i>         |    |    |     |     |     |     | <i>r</i> <sub>s</sub> min |          |          |
| <b>45</b>  | 68       | 8                | 12 | 14 | 16  | 22  | 30  | 40  | 0,3                       | 0,6      | 0,6      |
| <b>50</b>  | 72       | 8                | 12 | 14 | 16  | 22  | 30  | 40  | 0,3                       | 0,6      | 0,6      |
| <b>55</b>  | 80       | 9                | 13 | 16 | 19  | 25  | 34  | 45  | 0,3                       | 1        | 1        |
| <b>60</b>  | 85       | 9                | 13 | 16 | 19  | 25  | 34  | 45  | 0,3                       | 1        | 1        |
| <b>65</b>  | 90       | 9                | 13 | 16 | 19  | 25  | 34  | 45  | 0,3                       | 1        | 1        |
| <b>70</b>  | 100      | 10               | 16 | 19 | 23  | 30  | 40  | 54  | 0,6                       | 1        | 1        |
| <b>75</b>  | 105      | 10               | 16 | 19 | 23  | 30  | 40  | 54  | 0,6                       | 1        | 1        |
| <b>80</b>  | 110      | 10               | 16 | 19 | 23  | 30  | 40  | 54  | 0,6                       | 1        | 1        |
| <b>85</b>  | 120      | 11               | 18 | 22 | 26  | 35  | 46  | 63  | 0,6                       | 1,1      | 1,1      |
| <b>90</b>  | 125      | 11               | 18 | 22 | 26  | 35  | 46  | 63  | 0,6                       | 1,1      | 1,1      |
| <b>95</b>  | 130      | 11               | 18 | 22 | 26  | 35  | 46  | 63  | 0,6                       | 1,1      | 1,1      |
| <b>100</b> | 140      | 13               | 20 | 24 | 30  | 40  | 54  | 71  | 0,6                       | 1,1      | 1,1      |
| <b>105</b> | 145      | 13               | 20 | 24 | 30  | 40  | 54  | 71  | 0,6                       | 1,1      | 1,1      |
| <b>110</b> | 150      | 13               | 20 | 24 | 30  | 40  | 54  | 71  | 0,6                       | 1,1      | 1,1      |
| <b>120</b> | 165      | 14               | 22 | 27 | 34  | 45  | 60  | 80  | 0,6                       | 1,1      | 1,1      |
| <b>130</b> | 180      | 16               | 24 | 30 | 37  | 50  | 67  | 90  | 1                         | 1,5      | 1,5      |
| <b>140</b> | 190      | 16               | 24 | 30 | 37  | 50  | 67  | 90  | 1                         | 1,5      | 1,5      |
| <b>150</b> | 210      | 19               | 28 | 36 | 45  | 60  | 80  | 109 | 1                         | 2        | 2        |
| <b>160</b> | 220      | 19               | 28 | 36 | 45  | 60  | 80  | 109 | 1                         | 2        | 2        |
| <b>170</b> | 230      | 19               | 28 | 36 | 45  | 60  | 80  | 109 | 1                         | 2        | 2        |
| <b>180</b> | 250      | 22               | 33 | 42 | 52  | 69  | 95  | 125 | 1,1                       | 2        | 2        |
| <b>190</b> | 260      | 22               | 33 | 42 | 52  | 69  | 95  | 125 | 1,1                       | 2        | 2        |
| <b>200</b> | 280      | 25               | 38 | 48 | 60  | 80  | 109 | 145 | 1,5                       | 2,1      | 2,1      |
| <b>220</b> | 300      | 25               | 38 | 48 | 60  | 80  | 109 | 145 | 1,5                       | 2,1      | 2,1      |
| <b>240</b> | 320      | 25               | 38 | 48 | 60  | 80  | 109 | 145 | 1,5                       | 2,1      | 2,1      |
| <b>260</b> | 360      | 31               | 46 | 60 | 75  | 100 | 136 | 180 | 2                         | 2,1      | 2,1      |
| <b>280</b> | 380      | 31               | 46 | 60 | 75  | 100 | 136 | 180 | 2                         | 2,1      | 2,1      |
| <b>300</b> | 420      | 37               | 56 | 72 | 90  | 118 | 160 | 218 | 2,1                       | 3        | 3        |
| <b>320</b> | 440      | 37               | 56 | 72 | 90  | 118 | 160 | 218 | 2,1                       | 3        | 3        |
| <b>340</b> | 460      | 37               | 56 | 72 | 90  | 118 | 160 | 218 | 2,1                       | 3        | 3        |
| <b>360</b> | 480      | 37               | 56 | 72 | 90  | 118 | 160 | 218 | 2,1                       | 3        | 3        |
| <b>380</b> | 520      | 44               | 65 | 82 | 106 | 140 | 190 | 250 | 3                         | 4        | 4        |
| <b>400</b> | 540      | 44               | 65 | 82 | 106 | 140 | 190 | 250 | 3                         | 4        | 4        |
| <b>420</b> | 560      | 44               | 65 | 82 | 106 | 140 | 190 | 250 | 3                         | 4        | 4        |
| <b>440</b> | 600      | 50               | 74 | 95 | 118 | 160 | 218 | 290 | 4                         | 4        | 4        |

Table 3 (continued)

| <i>d</i>     | <i>D</i> | Dimension series |     |     |     |     |     |     |                |          |          |
|--------------|----------|------------------|-----|-----|-----|-----|-----|-----|----------------|----------|----------|
|              |          | 09               | 19  | 29  | 39  | 49  | 59  | 69  | 09             | 19 to 39 | 49 to 69 |
|              |          | <i>B</i>         |     |     |     |     |     |     | <i>r</i> s min |          |          |
| <b>460</b>   | 620      | 50               | 74  | 95  | 118 | 160 | 218 | 290 | 4              | 4        | 4        |
| <b>480</b>   | 650      | 54               | 78  | 100 | 128 | 170 | 230 | 308 | 4              | 5        | 5        |
| <b>500</b>   | 670      | 54               | 78  | 100 | 128 | 170 | 230 | 308 | 4              | 5        | 5        |
| <b>530</b>   | 710      | 57               | 82  | 106 | 136 | 180 | 243 | 325 | 4              | 5        | 5        |
| <b>560</b>   | 750      | 60               | 85  | 112 | 140 | 190 | 258 | 345 | 5              | 5        | 5        |
| <b>600</b>   | 800      | 63               | 90  | 118 | 150 | 200 | 272 | 355 | 5              | 5        | 5        |
| <b>630</b>   | 850      | 71               | 100 | 128 | 165 | 218 | 300 | 400 | 5              | 6        | 6        |
| <b>670</b>   | 900      | 73               | 103 | 136 | 170 | 230 | 308 | 412 | 5              | 6        | 6        |
| <b>710</b>   | 950      | 78               | 106 | 140 | 180 | 243 | 325 | 438 | 5              | 6        | 6        |
| <b>750</b>   | 1 000    | 80               | 112 | 145 | 185 | 250 | 335 | 450 | 6              | 6        | 6        |
| <b>800</b>   | 1 060    | 82               | 115 | 150 | 195 | 258 | 355 | 462 | 6              | 6        | 6        |
| <b>850</b>   | 1 120    | 85               | 118 | 155 | 200 | 272 | 365 | 488 | 6              | 6        | 6        |
| <b>900</b>   | 1 180    | 88               | 122 | 165 | 206 | 280 | 375 | 500 | 6              | 6        | 6        |
| <b>950</b>   | 1 250    | 95               | 132 | 175 | 224 | 300 | 400 | 545 | 6              | 7,5      | 7,5      |
| <b>1 000</b> | 1 320    | 103              | 140 | 185 | 236 | 315 | 438 | 580 | 6              | 7,5      | 7,5      |
| <b>1 060</b> | 1 400    | 109              | 150 | 195 | 250 | 335 | 462 | 615 | 7,5            | 7,5      | 7,5      |
| <b>1 120</b> | 1 460    | 109              | 150 | 195 | 250 | 335 | 462 | 615 | 7,5            | 7,5      | 7,5      |
| <b>1 180</b> | 1 540    | 115              | 160 | 206 | 272 | 355 | 488 | 650 | 7,5            | 7,5      | 7,5      |
| <b>1 250</b> | 1 630    | 122              | 170 | 218 | 280 | 375 | 515 | 690 | 7,5            | 7,5      | 7,5      |
| <b>1 320</b> | 1 720    | 128              | 175 | 230 | 300 | 400 | 545 | 710 | 7,5            | 7,5      | 7,5      |
| <b>1 400</b> | 1 820    | 136              | 185 | 243 | 315 | 425 | —   | —   | 9,5            | 9,5      | 9,5      |
| <b>1 500</b> | 1 950    | 145              | 195 | 258 | 335 | 450 | —   | —   | 9,5            | 9,5      | 9,5      |
| <b>1 600</b> | 2 060    | 145              | 200 | 265 | 345 | 462 | —   | —   | 9,5            | 9,5      | 9,5      |
| <b>1 700</b> | 2 180    | 155              | 212 | 280 | 355 | 475 | —   | —   | 9,5            | 9,5      | 9,5      |
| <b>1 800</b> | 2 300    | 160              | 218 | 290 | 375 | 500 | —   | —   | 9,5            | 12       | 12       |
| <b>1 900</b> | 2 430    | 170              | 230 | 308 | 400 | 530 | —   | —   | 9,5            | 12       | 12       |
| <b>2 000</b> | 2 580    | 185              | 258 | 335 | 437 | 580 | —   | —   | 12             | 15       | 19       |
| <b>2 120</b> | 2 730    | 195              | 265 | 355 | 462 | 615 | —   | —   | 12             | 19       | 19       |
| <b>2 240</b> | 2 880    | 206              | 280 | 365 | 475 | 650 | —   | —   | 12             | 19       | 19       |
| <b>2 360</b> | 3 030    | 212              | 290 | 387 | 500 | 670 | —   | —   | 12             | 19       | 19       |
| <b>2 500</b> | 3 210    | 230              | 315 | 412 | 530 | 710 | —   | —   | 15             | 19       | 19       |
| <b>2 650</b> | 3 400    | 243              | 335 | 437 | 560 | 750 | —   | —   | 15             | 19       | 19       |
| <b>2 800</b> | 3 580    | 250              | 345 | 450 | 580 | 775 | —   | —   | 15             | 19       | 19       |
| <b>3 000</b> | 3 840    | 265              | 365 | 487 | 630 | 850 | —   | —   | 15             | 19       | 19       |
| <b>3 150</b> | 4 020    | 280              | 387 | 500 | 650 | 875 | —   | —   | 19             | 19       | 19       |

Table 3 (continued)

| <i>d</i> | <i>D</i> | Dimension series |     |     |     |       |    |    |                          |          |          |
|----------|----------|------------------|-----|-----|-----|-------|----|----|--------------------------|----------|----------|
|          |          | 09               | 19  | 29  | 39  | 49    | 59 | 69 | 09                       | 19 to 39 | 49 to 69 |
|          |          | <i>B</i>         |     |     |     |       |    |    | <i>r<sub>s</sub></i> min |          |          |
| 3 350    | 4 270    | 290              | 400 | 530 | 690 | 925   | —  | —  | 19                       | 19       | 19       |
| 3 550    | 4 520    | 307              | 425 | 560 | 730 | 975   | —  | —  | 19                       | 19       | 19       |
| 3 750    | 4 770    | 325              | 450 | 580 | 775 | 1 030 | —  | —  | 19                       | 19       | 19       |

Table 4 — Diameter series 0

Dimensions in millimetres

| <i>d</i> | <i>D</i> | Dimension series |     |    |     |    |    |    |                           |          |
|----------|----------|------------------|-----|----|-----|----|----|----|---------------------------|----------|
|          |          | 00               | 10  | 20 | 30  | 40 | 50 | 60 | 00                        | 10 to 60 |
|          |          | <i>B</i>         |     |    |     |    |    |    | <i>r</i> <sub>s</sub> min |          |
| 1,5      | 6        | —                | 2,5 | —  | 3   | —  | —  | —  | —                         | 0,15     |
| 2        | 7        | —                | 2,8 | —  | 3,5 | —  | —  | —  | —                         | 0,15     |
| 2,5      | 8        | —                | 2,8 | —  | 4   | —  | —  | —  | —                         | 0,15     |
| 3        | 9        | —                | 3   | —  | 5   | —  | —  | —  | —                         | 0,15     |
| 4        | 12       | —                | 4   | —  | 6   | —  | —  | —  | —                         | 0,2      |
| 5        | 14       | —                | 5   | —  | 7   | —  | —  | —  | —                         | 0,2      |
| 6        | 17       | —                | 6   | —  | 9   | —  | —  | —  | —                         | 0,3      |
| 7        | 19       | —                | 6   | 8  | 10  | —  | —  | —  | —                         | 0,3      |
| 8        | 22       | —                | 7   | 9  | 11  | 14 | 19 | 25 | —                         | 0,3      |
| 9        | 24       | —                | 7   | 10 | 12  | 15 | 20 | 27 | —                         | 0,3      |
| 10       | 26       | —                | 8   | 10 | 12  | 16 | 21 | 29 | —                         | 0,3      |
| 12       | 28       | 7                | 8   | 10 | 12  | 16 | 21 | 29 | 0,3                       | 0,3      |
| 15       | 32       | 8                | 9   | 11 | 13  | 17 | 23 | 30 | 0,3                       | 0,3      |
| 17       | 35       | 8                | 10  | 12 | 14  | 18 | 24 | 32 | 0,3                       | 0,3      |
| 20       | 42       | 8                | 12  | 14 | 16  | 22 | 30 | 40 | 0,3                       | 0,6      |
| 22       | 44       | 8                | 12  | 14 | 16  | 22 | 30 | 40 | 0,3                       | 0,6      |
| 25       | 47       | 8                | 12  | 14 | 16  | 22 | 30 | 40 | 0,3                       | 0,6      |
| 28       | 52       | 8                | 12  | 15 | 18  | 24 | 32 | 43 | 0,3                       | 0,6      |
| 30       | 55       | 9                | 13  | 16 | 19  | 25 | 34 | 45 | 0,3                       | 1        |
| 32       | 58       | 9                | 13  | 16 | 20  | 26 | 35 | 47 | 0,3                       | 1        |
| 35       | 62       | 9                | 14  | 17 | 20  | 27 | 36 | 48 | 0,3                       | 1        |
| 40       | 68       | 9                | 15  | 18 | 21  | 28 | 38 | 50 | 0,3                       | 1        |
| 45       | 75       | 10               | 16  | 19 | 23  | 30 | 40 | 54 | 0,6                       | 1        |
| 50       | 80       | 10               | 16  | 19 | 23  | 30 | 40 | 54 | 0,6                       | 1        |
| 55       | 90       | 11               | 18  | 22 | 26  | 35 | 46 | 63 | 0,6                       | 1,1      |
| 60       | 95       | 11               | 18  | 22 | 26  | 35 | 46 | 63 | 0,6                       | 1,1      |
| 65       | 100      | 11               | 18  | 22 | 26  | 35 | 46 | 63 | 0,6                       | 1,1      |

Table 4 (continued)

| <i>d</i> | <i>D</i> | Dimension series |     |     |     |     |     |     |                          |          |
|----------|----------|------------------|-----|-----|-----|-----|-----|-----|--------------------------|----------|
|          |          | 00               | 10  | 20  | 30  | 40  | 50  | 60  | 00                       | 10 to 60 |
|          |          | <i>B</i>         |     |     |     |     |     |     | <i>r<sub>s</sub> min</i> |          |
| 70       | 110      | 13               | 20  | 24  | 30  | 40  | 54  | 71  | 0,6                      | 1,1      |
| 75       | 115      | 13               | 20  | 24  | 30  | 40  | 54  | 71  | 0,6                      | 1,1      |
| 80       | 125      | 14               | 22  | 27  | 34  | 45  | 60  | 80  | 0,6                      | 1,1      |
| 85       | 130      | 14               | 22  | 27  | 34  | 45  | 60  | 80  | 0,6                      | 1,1      |
| 90       | 140      | 16               | 24  | 30  | 37  | 50  | 67  | 90  | 1                        | 1,5      |
| 95       | 145      | 16               | 24  | 30  | 37  | 50  | 67  | 90  | 1                        | 1,5      |
| 100      | 150      | 16               | 24  | 30  | 37  | 50  | 67  | 90  | 1                        | 1,5      |
| 105      | 160      | 18               | 26  | 33  | 41  | 56  | 75  | 100 | 1                        | 2        |
| 110      | 170      | 19               | 28  | 36  | 45  | 60  | 80  | 109 | 1                        | 2        |
| 120      | 180      | 19               | 28  | 36  | 46  | 60  | 80  | 109 | 1                        | 2        |
| 130      | 200      | 22               | 33  | 42  | 52  | 69  | 95  | 125 | 1,1                      | 2        |
| 140      | 210      | 22               | 33  | 42  | 53  | 69  | 95  | 125 | 1,1                      | 2        |
| 150      | 225      | 24               | 35  | 45  | 56  | 75  | 100 | 136 | 1,1                      | 2,1      |
| 160      | 240      | 25               | 38  | 48  | 60  | 80  | 109 | 145 | 1,5                      | 2,1      |
| 170      | 260      | 28               | 42  | 54  | 67  | 90  | 122 | 160 | 1,5                      | 2,1      |
| 180      | 280      | 31               | 46  | 60  | 74  | 100 | 136 | 180 | 2                        | 2,1      |
| 190      | 290      | 31               | 46  | 60  | 75  | 100 | 136 | 180 | 2                        | 2,1      |
| 200      | 310      | 34               | 51  | 66  | 82  | 109 | 150 | 200 | 2                        | 2,1      |
| 220      | 340      | 37               | 56  | 72  | 90  | 118 | 160 | 218 | 2,1                      | 3        |
| 240      | 360      | 37               | 56  | 72  | 92  | 118 | 160 | 218 | 2,1                      | 3        |
| 260      | 400      | 44               | 65  | 82  | 104 | 140 | 190 | 250 | 3                        | 4        |
| 280      | 420      | 44               | 65  | 82  | 106 | 140 | 190 | 250 | 3                        | 4        |
| 300      | 460      | 50               | 74  | 95  | 118 | 160 | 218 | 290 | 4                        | 4        |
| 320      | 480      | 50               | 74  | 95  | 121 | 160 | 218 | 290 | 4                        | 4        |
| 340      | 520      | 57               | 82  | 106 | 133 | 180 | 243 | 325 | 4                        | 5        |
| 360      | 540      | 57               | 82  | 106 | 134 | 180 | 243 | 325 | 4                        | 5        |
| 380      | 560      | 57               | 82  | 106 | 135 | 180 | 243 | 325 | 4                        | 5        |
| 400      | 600      | 63               | 90  | 118 | 148 | 200 | 272 | 355 | 5                        | 5        |
| 420      | 620      | 63               | 90  | 118 | 150 | 200 | 272 | 355 | 5                        | 5        |
| 440      | 650      | 67               | 94  | 122 | 157 | 212 | 280 | 375 | 5                        | 6        |
| 460      | 680      | 71               | 100 | 128 | 163 | 218 | 300 | 400 | 5                        | 6        |
| 480      | 700      | 71               | 100 | 128 | 165 | 218 | 300 | 400 | 5                        | 6        |
| 500      | 720      | 71               | 100 | 128 | 167 | 218 | 300 | 400 | 5                        | 6        |
| 530      | 780      | 80               | 112 | 145 | 185 | 250 | 335 | 450 | 6                        | 6        |
| 560      | 820      | 82               | 115 | 150 | 195 | 258 | 355 | 462 | 6                        | 6        |

Table 4 (continued)

| <i>d</i>     | <i>D</i> | Dimension series |     |     |       |       |     |     |                          |          |
|--------------|----------|------------------|-----|-----|-------|-------|-----|-----|--------------------------|----------|
|              |          | 00               | 10  | 20  | 30    | 40    | 50  | 60  | 00                       | 10 to 60 |
|              |          | <i>B</i>         |     |     |       |       |     |     | <i>r<sub>s</sub></i> min |          |
| <b>600</b>   | 870      | 85               | 118 | 155 | 200   | 272   | 365 | 488 | 6                        | 6        |
| <b>630</b>   | 920      | 92               | 128 | 170 | 212   | 290   | 388 | 515 | 6                        | 7,5      |
| <b>670</b>   | 980      | 100              | 136 | 180 | 230   | 308   | 425 | 560 | 6                        | 7,5      |
| <b>710</b>   | 1 030    | 103              | 140 | 185 | 236   | 315   | 438 | 580 | 6                        | 7,5      |
| <b>750</b>   | 1 090    | 109              | 150 | 195 | 250   | 335   | 462 | 615 | 7,5                      | 7,5      |
| <b>800</b>   | 1 150    | 112              | 155 | 200 | 258   | 345   | 475 | 630 | 7,5                      | 7,5      |
| <b>850</b>   | 1 220    | 118              | 165 | 212 | 272   | 365   | 500 | 670 | 7,5                      | 7,5      |
| <b>900</b>   | 1 280    | 122              | 170 | 218 | 280   | 375   | 515 | 690 | 7,5                      | 7,5      |
| <b>950</b>   | 1 360    | 132              | 180 | 236 | 300   | 412   | 560 | 730 | 7,5                      | 7,5      |
| <b>1 000</b> | 1 420    | 136              | 185 | 243 | 308   | 412   | 560 | 750 | 7,5                      | 7,5      |
| <b>1 060</b> | 1 500    | 140              | 195 | 250 | 325   | 438   | 600 | 800 | 9,5                      | 9,5      |
| <b>1 120</b> | 1 580    | 145              | 200 | 265 | 345   | 462   | 615 | 825 | 9,5                      | 9,5      |
| <b>1 180</b> | 1 660    | 155              | 212 | 272 | 355   | 475   | 650 | 875 | 9,5                      | 9,5      |
| <b>1 250</b> | 1 750    | 160              | 218 | 290 | 375   | 500   | —   | —   | 9,5                      | 9,5      |
| <b>1 320</b> | 1 850    | 170              | 230 | 300 | 400   | 530   | —   | —   | 12                       | 12       |
| <b>1 400</b> | 1 950    | 175              | 243 | 315 | 412   | 545   | —   | —   | 12                       | 12       |
| <b>1 500</b> | 2 120    | 200              | 272 | 355 | 462   | 615   | —   | —   | 12                       | 12       |
| <b>1 600</b> | 2 240    | 206              | 280 | 365 | 475   | 630   | —   | —   | 12                       | 12       |
| <b>1 700</b> | 2 360    | 212              | 290 | 375 | 500   | 650   | —   | —   | 15                       | 15       |
| <b>1 800</b> | 2 500    | 224              | 308 | 400 | 530   | 690   | —   | —   | 15                       | 15       |
| <b>1 900</b> | 2 650    | 243              | 335 | 437 | 560   | 750   | —   | —   | 15                       | 19       |
| <b>2 000</b> | 2 790    | 250              | 345 | 450 | 600   | 800   | —   | —   | 15                       | 19       |
| <b>2 120</b> | 2 950    | 265              | 365 | 475 | 630   | 825   | —   | —   | 15                       | 19       |
| <b>2 240</b> | 3 110    | 280              | 387 | 500 | 650   | 875   | —   | —   | 19                       | 19       |
| <b>2 360</b> | 3 270    | 290              | 400 | 530 | 690   | 900   | —   | —   | 19                       | 19       |
| <b>2 500</b> | 3 460    | 307              | 425 | 545 | 730   | 950   | —   | —   | 19                       | 19       |
| <b>2 650</b> | 3 660    | 325              | 450 | 580 | 750   | 1 000 | —   | —   | 19                       | 19       |
| <b>2 800</b> | 3 860    | 335              | 462 | 615 | 800   | 1 060 | —   | —   | 19                       | 19       |
| <b>3 000</b> | 4 130    | 365              | 500 | 650 | 850   | 1 120 | —   | —   | 19                       | 19       |
| <b>3 150</b> | 4 330    | 375              | 515 | 670 | 875   | 1 180 | —   | —   | 19                       | 19       |
| <b>3 350</b> | 4 600    | 400              | 545 | 710 | 950   | 1 250 | —   | —   | 19                       | 19       |
| <b>3 550</b> | 4 870    | 425              | 580 | 750 | 1 000 | 1 320 | —   | —   | 19                       | 19       |

Table 5 — Diameter series 1

Dimensions in millimetres

| <i>d</i> | <i>D</i> | Dimension series |    |    |    |     |     |     |                          |          |
|----------|----------|------------------|----|----|----|-----|-----|-----|--------------------------|----------|
|          |          | 01               | 11 | 21 | 31 | 41  | 51  | 61  | 01                       | 11 to 61 |
|          |          | <i>B</i>         |    |    |    |     |     |     | <i>r<sub>s</sub> min</i> |          |
| 5        | 15       | —                | —  | —  | 7  | —   | —   | —   | —                        | 0,3      |
| 6        | 18       | —                | —  | 8  | 10 | —   | —   | —   | —                        | 0,3      |
| 7        | 21       | —                | —  | 9  | 11 | 14  | 19  | 25  | —                        | 0,3      |
| 8        | 23       | —                | —  | 10 | 12 | 15  | 20  | 27  | —                        | 0,3      |
| 9        | 25       | —                | —  | 10 | 12 | 16  | 21  | 29  | —                        | 0,3      |
| 10       | 28       | —                | —  | 12 | 14 | 18  | 24  | 32  | —                        | 0,3      |
| 12       | 30       | —                | —  | 12 | 14 | 18  | 24  | 32  | —                        | 0,3      |
| 15       | 33       | —                | —  | 12 | 14 | 18  | 24  | 32  | —                        | 0,3      |
| 17       | 37       | —                | —  | 13 | 15 | 20  | 27  | 36  | —                        | 0,6      |
| 20       | 44       | —                | —  | 15 | 18 | 24  | 32  | 43  | —                        | 0,6      |
| 22       | 47       | —                | —  | 16 | 19 | 25  | 34  | 45  | —                        | 1        |
| 25       | 50       | —                | —  | 16 | 19 | 25  | 34  | 45  | —                        | 1        |
| 28       | 55       | —                | —  | 17 | 20 | 27  | 36  | 48  | —                        | 1        |
| 30       | 58       | —                | —  | 18 | 21 | 28  | 38  | 50  | —                        | 1        |
| 32       | 62       | —                | —  | 19 | 23 | 30  | 40  | 54  | —                        | 1        |
| 35       | 68       | —                | —  | 21 | 25 | 33  | 43  | 60  | —                        | 1,1      |
| 40       | 75       | —                | —  | 22 | 26 | 35  | 46  | 63  | —                        | 1,1      |
| 45       | 80       | —                | —  | 22 | 26 | 35  | 46  | 63  | —                        | 1,1      |
| 50       | 85       | —                | —  | 22 | 26 | 35  | 46  | 63  | —                        | 1,1      |
| 55       | 95       | —                | —  | 24 | 30 | 40  | 54  | 71  | —                        | 1,1      |
| 60       | 100      | —                | —  | 24 | 30 | 40  | 54  | 71  | —                        | 1,1      |
| 65       | 110      | —                | —  | 27 | 34 | 45  | 60  | 80  | —                        | 1,5      |
| 70       | 115      | —                | —  | 27 | 34 | 45  | 60  | 80  | —                        | 1,5      |
| 75       | 125      | —                | —  | 30 | 37 | 50  | 67  | 90  | —                        | 1,5      |
| 80       | 130      | —                | —  | 30 | 37 | 50  | 67  | 90  | —                        | 1,5      |
| 85       | 140      | —                | —  | 31 | 41 | 56  | 75  | 100 | —                        | 1,5      |
| 90       | 150      | —                | —  | 33 | 45 | 60  | 80  | 109 | —                        | 2        |
| 95       | 160      | —                | —  | 39 | 52 | 65  | 88  | 118 | —                        | 2        |
| 100      | 165      | 21               | 30 | 39 | 52 | 65  | 88  | 118 | 1,1                      | 2        |
| 105      | 175      | 22               | 33 | 42 | 56 | 69  | 95  | 125 | 1,1                      | 2        |
| 110      | 180      | 22               | 33 | 42 | 56 | 69  | 95  | 125 | 1,1                      | 2        |
| 120      | 200      | 25               | 38 | 48 | 62 | 80  | 109 | 145 | 1,5                      | 2        |
| 130      | 210      | 25               | 38 | 48 | 64 | 80  | 109 | 145 | 1,5                      | 2        |
| 140      | 225      | 27               | 40 | 50 | 68 | 85  | 115 | 155 | 1,5                      | 2,1      |
| 150      | 250      | 31               | 46 | 60 | 80 | 100 | 136 | 180 | 2                        | 2,1      |

Table 5 (continued)

| <i>d</i> | <i>D</i> | Dimension series |     |     |     |     |     |     |                          |          |
|----------|----------|------------------|-----|-----|-----|-----|-----|-----|--------------------------|----------|
|          |          | 01               | 11  | 21  | 31  | 41  | 51  | 61  | 01                       | 11 to 61 |
|          |          | <i>B</i>         |     |     |     |     |     |     | <i>r<sub>s</sub> min</i> |          |
| 160      | 270      | 34               | 51  | 66  | 86  | 109 | 150 | 200 | 2                        | 2,1      |
| 170      | 280      | 34               | 51  | 66  | 88  | 109 | 150 | 200 | 2                        | 2,1      |
| 180      | 300      | 37               | 56  | 72  | 96  | 118 | 160 | 218 | 2,1                      | 3        |
| 190      | 320      | 42               | 60  | 78  | 104 | 128 | 175 | 236 | 3                        | 3        |
| 200      | 340      | 44               | 65  | 82  | 112 | 140 | 190 | 250 | 3                        | 3        |
| 220      | 370      | 48               | 69  | 88  | 120 | 150 | 200 | 272 | 3                        | 4        |
| 240      | 400      | 50               | 74  | 95  | 128 | 160 | 218 | 290 | 4                        | 4        |
| 260      | 440      | 57               | 82  | 106 | 144 | 180 | 243 | 325 | 4                        | 4        |
| 280      | 460      | 57               | 82  | 106 | 146 | 180 | 243 | 325 | 4                        | 5        |
| 300      | 500      | 63               | 90  | 118 | 160 | 200 | 272 | 355 | 5                        | 5        |
| 320      | 540      | 71               | 100 | 128 | 176 | 218 | 300 | 400 | 5                        | 5        |
| 340      | 580      | 78               | 106 | 140 | 190 | 243 | 325 | 438 | 5                        | 5        |
| 360      | 600      | 78               | 106 | 140 | 192 | 243 | 325 | 438 | 5                        | 5        |
| 380      | 620      | 78               | 106 | 140 | 194 | 243 | 325 | 438 | 5                        | 5        |
| 400      | 650      | 80               | 112 | 145 | 200 | 250 | 335 | 450 | 6                        | 6        |
| 420      | 700      | 88               | 122 | 165 | 224 | 280 | 375 | 500 | 6                        | 6        |
| 440      | 720      | 88               | 122 | 165 | 226 | 280 | 375 | 500 | 6                        | 6        |
| 460      | 760      | 95               | 132 | 175 | 240 | 300 | 400 | 545 | 6                        | 7,5      |
| 480      | 790      | 100              | 136 | 180 | 248 | 308 | 425 | 560 | 6                        | 7,5      |
| 500      | 830      | 106              | 145 | 190 | 264 | 325 | 450 | 600 | 7,5                      | 7,5      |
| 530      | 870      | 109              | 150 | 195 | 272 | 335 | 462 | 615 | 7,5                      | 7,5      |
| 560      | 920      | 115              | 160 | 206 | 280 | 355 | 488 | 650 | 7,5                      | 7,5      |
| 600      | 980      | 122              | 170 | 218 | 300 | 375 | 515 | 690 | 7,5                      | 7,5      |
| 630      | 1 030    | 128              | 175 | 230 | 315 | 400 | 545 | 710 | 7,5                      | 7,5      |
| 670      | 1 090    | 136              | 185 | 243 | 336 | 412 | 560 | 750 | 7,5                      | 7,5      |
| 710      | 1 150    | 140              | 195 | 250 | 345 | 438 | 600 | 800 | 9,5                      | 9,5      |
| 750      | 1 220    | 150              | 206 | 272 | 365 | 475 | 630 | —   | 9,5                      | 9,5      |
| 800      | 1 280    | 155              | 212 | 272 | 375 | 475 | 650 | —   | 9,5                      | 9,5      |
| 850      | 1 360    | 165              | 224 | 290 | 400 | 500 | 690 | —   | 12                       | 12       |
| 900      | 1 420    | 165              | 230 | 300 | 412 | 515 | 710 | —   | 12                       | 12       |
| 950      | 1 500    | 175              | 243 | 315 | 438 | 545 | 750 | —   | 12                       | 12       |
| 1 000    | 1 580    | 185              | 258 | 335 | 462 | 580 | 775 | —   | 12                       | 12       |
| 1 060    | 1 660    | 190              | 265 | 345 | 475 | 600 | 800 | —   | 12                       | 15       |
| 1 120    | 1 750    | 200              | 280 | 365 | 475 | 630 | —   | —   | 12                       | 15       |
| 1 180    | 1 850    | 212              | 290 | 388 | 500 | 670 | —   | —   | 12                       | 15       |

Table 5 (continued)

| <i>d</i> | <i>D</i> | Dimension series |     |     |       |       |    |    |                          |          |
|----------|----------|------------------|-----|-----|-------|-------|----|----|--------------------------|----------|
|          |          | 01               | 11  | 21  | 31    | 41    | 51 | 61 | 01                       | 11 to 61 |
|          |          | <i>B</i>         |     |     |       |       |    |    | <i>r<sub>s</sub></i> min |          |
| 1 250    | 1 950    | 224              | 308 | 400 | 530   | 710   | —  | —  | 15                       | 15       |
| 1 320    | 2 060    | 236              | 325 | 425 | 560   | 750   | —  | —  | 15                       | 15       |
| 1 400    | 2 180    | 250              | 345 | 450 | 580   | 775   | —  | —  | 15                       | 19       |
| 1 500    | 2 300    | 258              | 355 | 462 | 600   | 800   | —  | —  | 15                       | 19       |
| 1 600    | 2 460    | 272              | 375 | 500 | 650   | 850   | —  | —  | 19                       | 19       |
| 1 700    | 2 600    | 290              | 400 | 515 | 670   | 900   | —  | —  | 19                       | 19       |
| 1 800    | 2 750    | 307              | 412 | 545 | 710   | 950   | —  | —  | 19                       | 19       |
| 1 900    | 2 900    | 325              | 437 | 580 | 750   | 1 000 | —  | —  | 19                       | 19       |
| 2 000    | 3 050    | 335              | 462 | 600 | 800   | 1 060 | —  | —  | 19                       | 19       |
| 2 120    | 3 220    | 355              | 487 | 630 | 825   | 1 090 | —  | —  | 19                       | 19       |
| 2 240    | 3 400    | 375              | 515 | 670 | 875   | 1 150 | —  | —  | 19                       | 19       |
| 2 360    | 3 580    | 387              | 530 | 710 | 925   | 1 220 | —  | —  | 19                       | 19       |
| 2 500    | 3 780    | 412              | 560 | 730 | 950   | 1 280 | —  | —  | 19                       | 19       |
| 2 650    | 4 000    | 437              | 600 | 775 | 1 000 | 1 360 | —  | —  | 19                       | 19       |
| 2 800    | 4 220    | 450              | 630 | 825 | 1 060 | 1 400 | —  | —  | 19                       | 19       |
| 3 000    | 4 510    | 487              | 670 | 875 | 1 120 | 1 500 | —  | —  | 19                       | 19       |
| 3 150    | 4 730    | 500              | 690 | 900 | 1 180 | 1 600 | —  | —  | 19                       | 19       |

Table 6 — Diameter series 2

Dimensions in millimetres

| <i>d</i> | <i>D</i> | Dimension series |    |    |    |      |    |    |    |                          |          |
|----------|----------|------------------|----|----|----|------|----|----|----|--------------------------|----------|
|          |          | 82               | 02 | 12 | 22 | 32   | 42 | 52 | 62 | 82                       | 02 to 62 |
|          |          | <i>B</i>         |    |    |    |      |    |    |    | <i>r<sub>s</sub></i> min |          |
| 3        | 10       | 2,5              | 4  | —  | —  | 5    | —  | —  | —  | 0,1                      | 0,15     |
| 4        | 13       | 3                | 5  | —  | —  | 7    | —  | —  | —  | 0,15                     | 0,2      |
| 5        | 16       | 3,5              | 5  | —  | —  | 8    | —  | —  | —  | 0,15                     | 0,3      |
| 6        | 19       | 4                | 6  | —  | —  | 10   | —  | 18 | 23 | 0,2                      | 0,3      |
| 7        | 22       | 5                | 7  | —  | —  | 11   | —  | 20 | 27 | 0,3                      | 0,3      |
| 8        | 24       | 5                | 8  | —  | —  | 12   | —  | 21 | 29 | 0,3                      | 0,3      |
| 9        | 26       | 6                | 8  | —  | —  | 13   | —  | 23 | 30 | 0,3                      | 0,3      |
| 10       | 30       | 7                | 9  | —  | 14 | 14,3 | —  | 27 | 36 | 0,3                      | 0,6      |
| 12       | 32       | 7                | 10 | —  | 14 | 15,9 | —  | 27 | 36 | 0,3                      | 0,6      |
| 15       | 35       | 8                | 11 | —  | 14 | 15,9 | 20 | 27 | 36 | 0,3                      | 0,6      |
| 17       | 40       | 8                | 12 | —  | 16 | 17,5 | 22 | 30 | 40 | 0,3                      | 0,6      |
| 20       | 47       | 9                | 14 | —  | 18 | 20,6 | 27 | 36 | 48 | 0,3                      | 1        |
| 22       | 50       | 9                | 14 | —  | 18 | 20,6 | 27 | 36 | 48 | 0,3                      | 1        |

Table 6 (continued)

| <i>d</i> | <i>D</i> | Dimension series |    |     |     |      |     |     |     |                          |          |
|----------|----------|------------------|----|-----|-----|------|-----|-----|-----|--------------------------|----------|
|          |          | 82               | 02 | 12  | 22  | 32   | 42  | 52  | 62  | 82                       | 02 to 62 |
|          |          | <i>B</i>         |    |     |     |      |     |     |     | <i>r<sub>s</sub></i> min |          |
| 25       | 52       | 10               | 15 | —   | 18  | 20,6 | 27  | 36  | 48  | 0,3                      | 1        |
| 28       | 58       | 10               | 16 | —   | 19  | 23   | 30  | 40  | 54  | 0,6                      | 1        |
| 30       | 62       | 10               | 16 | —   | 20  | 23,8 | 32  | 43  | 58  | 0,6                      | 1        |
| 32       | 65       | 11               | 17 | —   | 21  | 25   | 33  | 43  | 60  | 0,6                      | 1        |
| 35       | 72       | 12               | 17 | —   | 23  | 27   | 37  | 50  | 67  | 0,6                      | 1,1      |
| 40       | 80       | 13               | 18 | —   | 23  | 30,2 | 40  | 54  | 71  | 0,6                      | 1,1      |
| 45       | 85       | 13               | 19 | —   | 23  | 30,2 | 40  | 54  | 71  | 0,6                      | 1,1      |
| 50       | 90       | 13               | 20 | —   | 23  | 30,2 | 40  | 54  | 71  | 0,6                      | 1,1      |
| 55       | 100      | 14               | 21 | —   | 25  | 33,3 | 45  | 60  | 80  | 0,6                      | 1,5      |
| 60       | 110      | 16               | 22 | —   | 28  | 36,5 | 50  | 67  | 90  | 1                        | 1,5      |
| 65       | 120      | 18               | 23 | —   | 31  | 38,1 | 56  | 75  | 100 | 1                        | 1,5      |
| 70       | 125      | 18               | 24 | —   | 31  | 39,7 | 56  | 75  | 100 | 1                        | 1,5      |
| 75       | 130      | 18               | 25 | —   | 31  | 41,3 | 56  | 75  | 100 | 1                        | 1,5      |
| 80       | 140      | 19               | 26 | —   | 33  | 44,4 | 60  | 80  | 109 | 1                        | 2        |
| 85       | 150      | 21               | 28 | —   | 36  | 49,2 | 65  | 88  | 118 | 1,1                      | 2        |
| 90       | 160      | 22               | 30 | —   | 40  | 52,4 | 69  | 95  | 125 | 1,1                      | 2        |
| 95       | 170      | 24               | 32 | —   | 43  | 55,6 | 75  | 100 | 136 | 1,1                      | 2,1      |
| 100      | 180      | 25               | 34 | —   | 46  | 60,3 | 80  | 109 | 145 | 1,5                      | 2,1      |
| 105      | 190      | 27               | 36 | —   | 50  | 65,1 | 85  | 115 | 155 | 1,5                      | 2,1      |
| 110      | 200      | 28               | 38 | —   | 53  | 69,8 | 90  | 122 | 160 | 1,5                      | 2,1      |
| 120      | 215      | —                | 40 | 42  | 58  | 76   | 95  | 128 | 170 | —                        | 2,1      |
| 130      | 230      | —                | 40 | 46  | 64  | 80   | 100 | 136 | 180 | —                        | 3        |
| 140      | 250      | —                | 42 | 50  | 68  | 88   | 109 | 150 | 200 | —                        | 3        |
| 150      | 270      | —                | 45 | 54  | 73  | 96   | 118 | 160 | 218 | —                        | 3        |
| 160      | 290      | —                | 48 | 58  | 80  | 104  | 128 | 175 | 236 | —                        | 3        |
| 170      | 310      | —                | 52 | 62  | 86  | 110  | 140 | 190 | 250 | —                        | 4        |
| 180      | 320      | —                | 52 | 62  | 86  | 112  | 140 | 190 | 250 | —                        | 4        |
| 190      | 340      | —                | 55 | 65  | 92  | 120  | 150 | 200 | 272 | —                        | 4        |
| 200      | 360      | —                | 58 | 70  | 98  | 128  | 160 | 218 | 290 | —                        | 4        |
| 220      | 400      | —                | 65 | 78  | 108 | 144  | 180 | 243 | 325 | —                        | 4        |
| 240      | 440      | —                | 72 | 85  | 120 | 160  | 200 | 272 | 355 | —                        | 4        |
| 260      | 480      | —                | 80 | 90  | 130 | 174  | 218 | 300 | 400 | —                        | 5        |
| 280      | 500      | —                | 80 | 90  | 130 | 176  | 218 | 300 | 400 | —                        | 5        |
| 300      | 540      | —                | 85 | 98  | 140 | 192  | 243 | 325 | 438 | —                        | 5        |
| 320      | 580      | —                | 92 | 105 | 150 | 208  | 258 | 355 | 462 | —                        | 5        |

Table 6 (continued)

| <i>d</i>     | <i>D</i> | Dimension series |     |     |     |       |       |     |     |                           |          |
|--------------|----------|------------------|-----|-----|-----|-------|-------|-----|-----|---------------------------|----------|
|              |          | 82               | 02  | 12  | 22  | 32    | 42    | 52  | 62  | 82                        | 02 to 62 |
|              |          | <i>B</i>         |     |     |     |       |       |     |     | <i>r</i> <sub>s min</sub> |          |
| <b>340</b>   | 620      | —                | 92  | 118 | 165 | 224   | 280   | 375 | 500 | —                         | 6        |
| <b>360</b>   | 650      | —                | 95  | 122 | 170 | 232   | 290   | 388 | 515 | —                         | 6        |
| <b>380</b>   | 680      | —                | 95  | 132 | 175 | 240   | 300   | 400 | 545 | —                         | 6        |
| <b>400</b>   | 720      | —                | 103 | 140 | 185 | 256   | 315   | 438 | 580 | —                         | 6        |
| <b>420</b>   | 760      | —                | 109 | 150 | 195 | 272   | 335   | 462 | 615 | —                         | 7,5      |
| <b>440</b>   | 790      | —                | 112 | 155 | 200 | 280   | 345   | 475 | 630 | —                         | 7,5      |
| <b>460</b>   | 830      | —                | 118 | 165 | 212 | 296   | 365   | 500 | 670 | —                         | 7,5      |
| <b>480</b>   | 870      | —                | 125 | 170 | 224 | 310   | 388   | 530 | 710 | —                         | 7,5      |
| <b>500</b>   | 920      | —                | 136 | 185 | 243 | 336   | 412   | 560 | 750 | —                         | 7,5      |
| <b>530</b>   | 980      | —                | 145 | 200 | 258 | 355   | 450   | 600 | —   | —                         | 9,5      |
| <b>560</b>   | 1 030    | —                | 150 | 206 | 272 | 365   | 475   | 630 | —   | —                         | 9,5      |
| <b>600</b>   | 1 090    | —                | 155 | 212 | 280 | 388   | 488   | 670 | —   | —                         | 9,5      |
| <b>630</b>   | 1 150    | —                | 165 | 230 | 300 | 412   | 515   | 710 | —   | —                         | 12       |
| <b>670</b>   | 1 220    | —                | 175 | 243 | 315 | 438   | 545   | 750 | —   | —                         | 12       |
| <b>710</b>   | 1 280    | —                | 180 | 250 | 325 | 450   | 560   | 775 | —   | —                         | 12       |
| <b>750</b>   | 1 360    | —                | 195 | 265 | 345 | 475   | 615   | 825 | —   | —                         | 15       |
| <b>800</b>   | 1 420    | —                | 200 | 272 | 355 | 488   | 615   | —   | —   | —                         | 15       |
| <b>850</b>   | 1 500    | —                | 206 | 280 | 375 | 515   | 650   | —   | —   | —                         | 15       |
| <b>900</b>   | 1 580    | —                | 218 | 300 | 388 | 515   | 670   | —   | —   | —                         | 15       |
| <b>950</b>   | 1 660    | —                | 230 | 315 | 412 | 530   | 710   | —   | —   | —                         | 15       |
| <b>1 000</b> | 1 750    | —                | 243 | 330 | 425 | 560   | 750   | —   | —   | —                         | 15       |
| <b>1 060</b> | 1 840    | —                | 250 | 345 | 450 | 580   | 775   | —   | —   | —                         | 15       |
| <b>1 120</b> | 1 940    | —                | 265 | 365 | 475 | 615   | 825   | —   | —   | —                         | 15       |
| <b>1 180</b> | 2 040    | —                | 272 | 375 | 500 | 650   | 850   | —   | —   | —                         | 19       |
| <b>1 250</b> | 2 160    | —                | 290 | 400 | 530 | 690   | 900   | —   | —   | —                         | 19       |
| <b>1 320</b> | 2 270    | —                | 307 | 412 | 545 | 710   | 950   | —   | —   | —                         | 19       |
| <b>1 400</b> | 2 400    | —                | 325 | 437 | 580 | 750   | 1 000 | —   | —   | —                         | 19       |
| <b>1 500</b> | 2 570    | —                | 345 | 475 | 615 | 800   | 1 060 | —   | —   | —                         | 19       |
| <b>1 600</b> | 2 730    | —                | 365 | 500 | 650 | 850   | 1 120 | —   | —   | —                         | 19       |
| <b>1 700</b> | 2 900    | —                | 387 | 530 | 690 | 900   | 1 220 | —   | —   | —                         | 19       |
| <b>1 800</b> | 3 060    | —                | 400 | 560 | 730 | 950   | 1 250 | —   | —   | —                         | 19       |
| <b>1 900</b> | 3 220    | —                | 425 | 580 | 750 | 1 000 | 1 320 | —   | —   | —                         | 19       |
| <b>2 000</b> | 3 380    | —                | 437 | 600 | 800 | 1 030 | 1 400 | —   | —   | —                         | 19       |
| <b>2 120</b> | 3 580    | —                | 462 | 650 | 850 | 1 090 | 1 450 | —   | —   | —                         | 19       |
| <b>2 240</b> | 3 770    | —                | 487 | 670 | 875 | 1 150 | 1 550 | —   | —   | —                         | 19       |

Table 6 (continued)

| <i>d</i> | <i>D</i> | Dimension series |     |     |       |       |       |    |    |                          |          |
|----------|----------|------------------|-----|-----|-------|-------|-------|----|----|--------------------------|----------|
|          |          | 82               | 02  | 12  | 22    | 32    | 42    | 52 | 62 | 82                       | 02 to 62 |
|          |          | <i>B</i>         |     |     |       |       |       |    |    | <i>r<sub>s</sub></i> min |          |
| 2 360    | 3 970    | —                | 515 | 710 | 925   | 1 220 | 1 600 | —  | —  | —                        | 19       |
| 2 500    | 4 190    | —                | 545 | 750 | 975   | 1 280 | 1 700 | —  | —  | —                        | 19       |
| 2 650    | 4 430    | —                | 560 | 775 | 1 030 | 1 320 | 1 800 | —  | —  | —                        | 19       |
| 2 800    | 4 670    | —                | 600 | 825 | 1 090 | 1 400 | 1 850 | —  | —  | —                        | 19       |
| 3 000    | 4 990    | —                | 630 | 875 | 1 150 | 1 500 | 2 000 | —  | —  | —                        | 19       |

Table 7 — Diameter series 3

Dimensions in millimetres

| <i>d</i> | <i>D</i> | Dimension series |    |    |    |      |                           |          |
|----------|----------|------------------|----|----|----|------|---------------------------|----------|
|          |          | 83               | 03 | 13 | 23 | 33   | 83                        | 03 to 33 |
|          |          | <i>B</i>         |    |    |    |      | <i>r</i> <sub>s</sub> min |          |
| 3        | 13       | —                | 5  | —  | —  | 7    | —                         | 0,2      |
| 4        | 16       | —                | 5  | —  | —  | 9    | —                         | 0,3      |
| 5        | 19       | —                | 6  | —  | —  | 10   | —                         | 0,3      |
| 6        | 22       | —                | 7  | —  | 11 | 13   | —                         | 0,3      |
| 7        | 26       | —                | 9  | —  | 13 | 15   | —                         | 0,3      |
| 8        | 28       | —                | 9  | —  | 13 | 15   | —                         | 0,3      |
| 9        | 30       | —                | 10 | —  | 14 | 16   | —                         | 0,6      |
| 10       | 35       | 9                | 11 | —  | 17 | 19   | 0,3                       | 0,6      |
| 12       | 37       | 9                | 12 | —  | 17 | 19   | 0,3                       | 1        |
| 15       | 42       | 9                | 13 | —  | 17 | 19   | 0,3                       | 1        |
| 17       | 47       | 10               | 14 | —  | 19 | 22,2 | 0,6                       | 1        |
| 20       | 52       | 10               | 15 | —  | 21 | 22,2 | 0,6                       | 1,1      |
| 22       | 56       | 11               | 16 | —  | 21 | 25   | 0,6                       | 1,1      |
| 25       | 62       | 12               | 17 | —  | 24 | 25,4 | 0,6                       | 1,1      |
| 28       | 68       | 13               | 18 | —  | 24 | 30   | 0,6                       | 1,1      |
| 30       | 72       | 13               | 19 | —  | 27 | 30,2 | 0,6                       | 1,1      |
| 32       | 75       | 14               | 20 | —  | 28 | 32   | 0,6                       | 1,1      |
| 35       | 80       | 14               | 21 | —  | 31 | 34,9 | 0,6                       | 1,5      |
| 40       | 90       | 16               | 23 | —  | 33 | 36,5 | 1                         | 1,5      |
| 45       | 100      | 17               | 25 | —  | 36 | 39,7 | 1                         | 1,5      |
| 50       | 110      | 19               | 27 | —  | 40 | 44,4 | 1                         | 2        |
| 55       | 120      | 21               | 29 | —  | 43 | 49,2 | 1,1                       | 2        |
| 60       | 130      | 22               | 31 | —  | 46 | 54   | 1,1                       | 2,1      |
| 65       | 140      | 24               | 33 | —  | 48 | 58,7 | 1,1                       | 2,1      |
| 70       | 150      | 25               | 35 | —  | 51 | 63,5 | 1,5                       | 2,1      |

Table 7 (continued)

| <i>d</i> | <i>D</i> | Dimension series |     |     |     |      |                          |          |
|----------|----------|------------------|-----|-----|-----|------|--------------------------|----------|
|          |          | 83               | 03  | 13  | 23  | 33   | 83                       | 03 to 33 |
|          |          | <i>B</i>         |     |     |     |      | <i>r<sub>s</sub> min</i> |          |
| 75       | 160      | 27               | 37  | —   | 55  | 68,3 | 1,5                      | 2,1      |
| 80       | 170      | 28               | 39  | —   | 58  | 68,3 | 1,5                      | 2,1      |
| 85       | 180      | 30               | 41  | —   | 60  | 73   | 2                        | 3        |
| 90       | 190      | 30               | 43  | —   | 64  | 73   | 2                        | 3        |
| 95       | 200      | 33               | 45  | —   | 67  | 77,8 | 2                        | 3        |
| 100      | 215      | 36               | 47  | 51  | 73  | 82,6 | 2,1                      | 3        |
| 105      | 225      | 37               | 49  | 53  | 77  | 87,3 | 2,1                      | 3        |
| 110      | 240      | 42               | 50  | 57  | 80  | 92,1 | 3                        | 3        |
| 120      | 260      | 44               | 55  | 62  | 86  | 106  | 3                        | 3        |
| 130      | 280      | 48               | 58  | 66  | 93  | 112  | 3                        | 4        |
| 140      | 300      | 50               | 62  | 70  | 102 | 118  | 4                        | 4        |
| 150      | 320      | —                | 65  | 75  | 108 | 128  | —                        | 4        |
| 160      | 340      | —                | 68  | 79  | 114 | 136  | —                        | 4        |
| 170      | 360      | —                | 72  | 84  | 120 | 140  | —                        | 4        |
| 180      | 380      | —                | 75  | 88  | 126 | 150  | —                        | 4        |
| 190      | 400      | —                | 78  | 92  | 132 | 155  | —                        | 5        |
| 200      | 420      | —                | 80  | 97  | 138 | 165  | —                        | 5        |
| 220      | 460      | —                | 88  | 106 | 145 | 180  | —                        | 5        |
| 240      | 500      | —                | 95  | 114 | 155 | 195  | —                        | 5        |
| 260      | 540      | —                | 102 | 123 | 165 | 206  | —                        | 6        |
| 280      | 580      | —                | 108 | 132 | 175 | 224  | —                        | 6        |
| 300      | 620      | —                | 109 | 140 | 185 | 236  | —                        | 7,5      |
| 320      | 670      | —                | 112 | 155 | 200 | 258  | —                        | 7,5      |
| 340      | 710      | —                | 118 | 165 | 212 | 272  | —                        | 7,5      |
| 360      | 750      | —                | 125 | 170 | 224 | 290  | —                        | 7,5      |
| 380      | 780      | —                | 128 | 175 | 230 | 300  | —                        | 7,5      |
| 400      | 820      | —                | 136 | 185 | 243 | 308  | —                        | 7,5      |
| 420      | 850      | —                | 136 | 190 | 250 | 315  | —                        | 9,5      |
| 440      | 900      | —                | 145 | 200 | 265 | 345  | —                        | 9,5      |
| 460      | 950      | —                | 155 | 212 | 280 | 365  | —                        | 9,5      |
| 480      | 980      | —                | 160 | 218 | 290 | 375  | —                        | 9,5      |
| 500      | 1 030    | —                | 170 | 230 | 300 | 388  | —                        | 12       |
| 530      | 1 090    | —                | 180 | 243 | 325 | 412  | —                        | 12       |
| 560      | 1 150    | —                | 190 | 258 | 335 | 438  | —                        | 12       |
| 600      | 1 220    | —                | 200 | 272 | 355 | 462  | —                        | 15       |