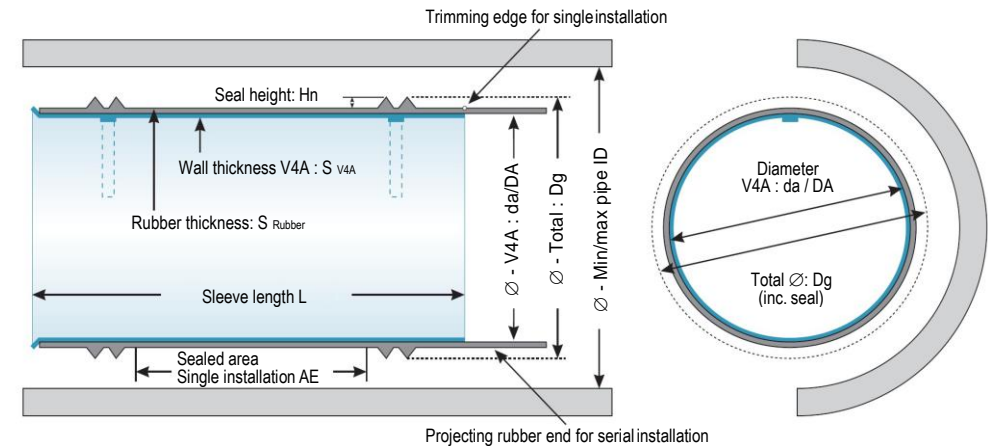


# 3.1 Appendix 1

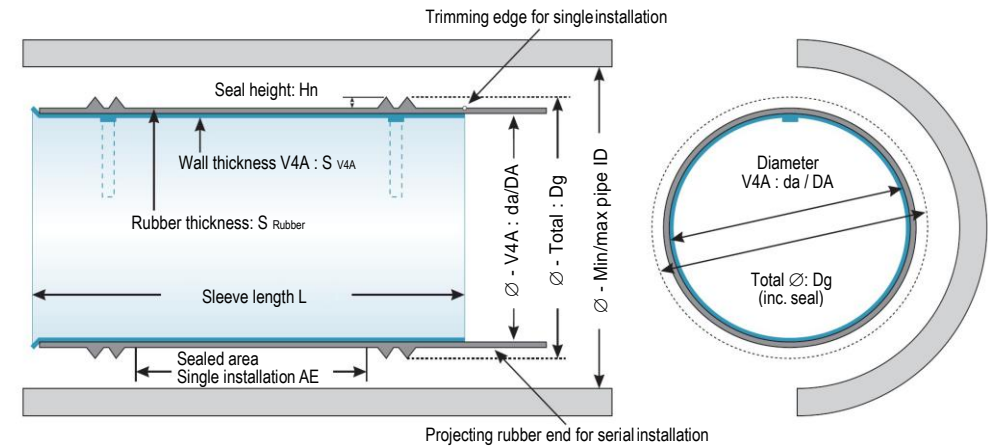
## Technical data sheet



| Quick-Lock sleeve DN | Rubber jacket DN | Sleeve length | Total diameter rolled | Suitable for pipes from / to |              | Sealed area Single installation | Packer                  | Wheelbase               | Stainless steel sleeve |                    |                           | Rubber jacket    |                 | Total weight | Stock item |
|----------------------|------------------|---------------|-----------------------|------------------------------|--------------|---------------------------------|-------------------------|-------------------------|------------------------|--------------------|---------------------------|------------------|-----------------|--------------|------------|
|                      |                  |               |                       | Pipe ID min.                 | Pipe ID max. |                                 |                         |                         | Wall thickness s       | V4A pipe rolled da | Max. expanded diameter DA | Rubber thickness | Height of seals |              |            |
| mm                   |                  | mm            | mm                    | mm                           | mm           | mm                              |                         |                         | mm                     | mm                 | mm                        | mm               | mm              | kg           |            |
| Designation:         |                  | L             | Dg                    | DN min                       | DN max       | AE                              | VP                      | RS                      | S V4A                  | da                 | DA                        | S Rubber         | Hn              | G            |            |
| 150                  | 150              | 400           | 130                   | 145                          | 154          | 300                             | VP 150-200              | RS 150                  | 1                      | 117.5              | 149                       | 2                | 4.0             | 2.3          | X          |
| 158                  | 150              | 400           | 138                   | 153                          | 163          | 300                             | VP 150-200              | RS 158                  | 1                      | 125.5              | 158                       | 2                | 4.0             | 2.5          |            |
| 176                  | 176              | 400           | 152                   | 170                          | 181          | 285                             | VP 150-200              | RS 176                  | 1.2                    | 140.0              | 176                       | 2                | 4.0             | 3.0          |            |
| 188                  | 188              | 400           | 161                   | 183                          | 194          | 290                             | VP 150-200 / VP 200-300 | RS 188 / RS 188         | 1.2                    | 147.0              | 188                       | 2                | 5.0             | 3.2          | X          |
| 200                  | 200              | 400           | 168                   | 194                          | 206          | 290                             | VP 150-200 / VP 200-300 | RS 200 / RS 200         | 1.2                    | 154.0              | 201                       | 2                | 5.0             | 3.3          | X          |
| 210                  | 200              | 400           | 177                   | 204                          | 218          | 290                             | VP 150-200 / VP 200-300 | RS 210 / RS 210         | 1.2                    | 163.0              | 212                       | 2                | 5.0             | 3.5          |            |
| 225                  | 225              | 400           | 194                   | 218                          | 233          | 280                             | VP 200-300 / VP 250-300 | RS 225+SPV 300 / RS 225 | 1.2                    | 180.0              | 227                       | 2                | 5.0             | 3.9          | X          |
| 240                  | 250              | 400           | 196                   | 233                          | 248          | 280                             | VP 200-300 / VP 250-300 | RS 240+SPV 300 / RS 240 | 1.2                    | 182.0              | 242                       | 2                | 5.0             | 4.2          | X          |
| 250                  | 250              | 400           | 210                   | 242                          | 258          | 280                             | VP 200-300 / VP 250-300 | RS 250 / RS 250         | 1.2                    | 194.0              | 252                       | 2                | 6.0             | 4.4          | X          |
| 276                  | 276              | 400           | 229                   | 268                          | 282          | 280                             | VP 200-300 / VP 250-300 | RS 275+SPV 300 / RS 275 | 1.2                    | 213.0              | 276                       | 2                | 6.0             | 4.6          |            |
| 286                  | 276              | 400           | 236                   | 277                          | 292          | 280                             | VP 200-300 / VP 250-300 | RS 286+SPV 300 / RS 286 | 1.2                    | 220.0              | 286                       | 2                | 7.0             | 5.4          |            |
| 300                  | 300              | 400           | 252                   | 290                          | 312          | 270                             | VP 200-300 / VP 250-300 | RS 250+SPV 300 / RS 300 | 1.2                    | 234.0              | 305                       | 2                | 7.0             | 5.4          | X          |
| 315                  | 300              | 400           | 258                   | 305                          | 322          | 270                             | VP 200-300 / VP 250-300 | RS 250+SPV 300 / RS 300 | 1.5                    | 240.0              | 315                       | 2                | 7.0             | 6.6          |            |
| 330                  | 300              | 400           | 272                   | 320                          | 342          | 270                             | VP 200-300              | RS 330                  | 1.5                    | 254.0              | 335                       | 2                | 7.0             | 7.0          |            |

# 3.1 Appendix 1

## Technical data sheet



| Quick-Lock sleeve DN | Rubber jacket DN | Sleeve length | Total diameter rolled | Suitable for pipes from / to |              | Sealed area Single installation | Packer                  | Wheelbase               | Stainless steel sleeve |                    |                           | Rubber jacket    |                 | Total weight | Stock item |
|----------------------|------------------|---------------|-----------------------|------------------------------|--------------|---------------------------------|-------------------------|-------------------------|------------------------|--------------------|---------------------------|------------------|-----------------|--------------|------------|
|                      |                  |               |                       | Pipe ID min.                 | Pipe ID max. |                                 |                         |                         | Wall thickness s       | V4A pipe rolled da | Max. expanded diameter DA | Rubber thickness | Height of seals |              |            |
| mm                   | mm               | mm            | mm                    | mm                           | mm           | mm                              |                         |                         | mm                     | mm                 | mm                        | mm               | mm              | kg           |            |
| Designation:         | Desig.           | L             | Dg                    | DN min                       | DN max       | AE                              | VP                      | RS                      | S V4A                  | da                 | DA                        | S Rubber         | Hn              | G            |            |
| 350                  | 350              | 400           | 308                   | 340                          | 362          | 280                             | VP 350-500              | RS 350                  | 1.5                    | 290                | 355                       | 2                | 7               | 7.3          | X          |
| 380                  | 350              | 400           | 318                   | 365                          | 384          | 270                             | VP 350-500              | RS 380                  | 1.5                    | 300                | 377                       | 2                | 7               | 7.7          | X          |
| 400                  | 400              | 400           | 347                   | 387                          | 412          | 270                             | VP 350-500              | RS 400                  | 1.5                    | 327                | 406                       | 2                | 8               | 8.9          | X          |
| 450                  | 450              | 500           | 382                   | 435                          | 461          | 340                             | VP 350-500              | RS 400+SPV 450          | 2                      | 362                | 455                       | 2                | 8               | 15.9         | X          |
| 480                  | 450              | 500           | 408                   | 465                          | 488          | 330                             | VP 350-500              | RS 480+SPV 500          | 2                      | 388                | 480                       | 2                | 8               | 16.6         |            |
| 500                  | 500              | 500           | 446                   | 485                          | 513          | 330                             | VP 350-500 / VP 500-600 | RS 400+SPV 500 / RS 500 | 2                      | 424                | 505                       | 2                | 9               | 16.8         | X          |
| 524                  | 500              | 500           | 448                   | 495                          | 532          | 320                             | VP 500-600              | RS 500                  | 2                      | 426                | 524                       | 2                | 9               | 17.6         |            |
| 560                  | 500              | 500           | 477                   | 540                          | 568          | 310                             | VP 500-600              | RS 560                  | 2                      | 455                | 560                       | 2                | 9               | 20.2         |            |
| 600                  | 600              | 500           | 536                   | 580                          | 615          | 330                             | VP 500-600/ VP 600-700  | RS 500+SPV 600 / RS 600 | 2                      | 515                | 607                       | 2.5              | 8               | 20.2         | X          |
| 600 NL               | 600              | 500           | 511                   | 575                          | 618          | 330                             | VP 500-600 / VP 600-700 | RS 500+SPV 600 / RS 600 | 2                      | 490                | 610                       | 2.5              | 8               | 21.0         | X          |
| 650                  | 600              | 500           | 586                   | 630                          | 665          | 310                             | VP 600-700              | RS 650                  | 2                      | 565                | 658                       | 2.5              | 8               | 22.0         |            |
| 700                  | 700              | 485           | 593                   | 675                          | 725          | 300                             | VP 600-700 / VP 700-800 | RS 600+SPV 700 / RS 700 | 2                      | 570                | 713                       | 2.5              | 9               | 24.0         | X          |
| 750 <sup>2</sup>     | 700              | 485           | 618                   | 720                          | 762          | 280                             | VP 700-800              | RS 750                  | 2                      | 595                | 750                       | 2.5              | 9               | 25.2         |            |
| 800 <sup>3**</sup>   | 800              | 485           | 718                   | 780                          | 827          | 290                             | VP 700-800              | RS 700+SPV 800          | 2                      | 695 <sup>**</sup>  | 815                       | 2.5              | 9               | 27.0         |            |

<sup>2/3</sup> Not included in certification under building law

<sup>\*\*</sup> Special sleeve rolled up to 695 mm, cone section usually has to be removed from manhole.