



## Hose fittings

- Excellent sealing connection with platinum-cured silicone hoses BBS-04
- All materials in contact with media can be traced
- Reusable hose fittings
- Suitable for CIP and SIP

Product variants described in the data sheet may differ from the product presentation and description.

## Can be combined with

|                                                                                     |                                                                                                                  |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
|   | <b>Type BBS-04</b> ▶<br>Platinum-cured peroxide-free silicone hose                                               |
|  | <b>Type BBS-05</b> ▶<br>Clamp connection with welded connection according to DIN 11864-3 and BBS-Sterile contour |
|  | <b>Type BBS-06</b> ▶<br>Sterile contour flange connection according to DIN 11864-2 with welded connection        |
|  | <b>Type BBS-07</b> ▶<br>Sterile contour block flange                                                             |

## Type description

These hose fittings are specially designed for use with BBS-04 silicone hoses. Depending on the required hose size the corresponding connection is to be selected.

The hose fittings are part of the BBS modular system.

## Table of contents

|                                                                    |          |
|--------------------------------------------------------------------|----------|
| <b>1. General technical data</b>                                   | <b>3</b> |
| <b>2. Approvals and conformities</b>                               | <b>3</b> |
| 2.1. Conformity .....                                              | 3        |
| 2.2. Standards .....                                               | 3        |
| <b>3. Materials</b>                                                | <b>3</b> |
| 3.1. Bürkert resistApp .....                                       | 3        |
| <b>4. Dimensions</b>                                               | <b>4</b> |
| 4.1. Hose union with welded connection .....                       | 4        |
| 4.2. Hose union with clamp connection according to DIN 32676 ..... | 5        |
| 4.3. Hose union with BBS sterile contour (male) .....              | 6        |
| 4.4. Hose union with BBS sterile clamp connection (male) .....     | 7        |
| 4.5. Hose union with BBS sterile clamp connection (female) .....   | 8        |
| <b>5. Device/Process connections</b>                               | <b>9</b> |
| 5.1. Suitable hoses for hose unions .....                          | 9        |
| <b>6. Ordering information</b>                                     | <b>9</b> |
| 6.1. Bürkert eShop .....                                           | 9        |
| 6.2. Bürkert product filter .....                                  | 10       |
| 6.3. Ordering chart .....                                          | 10       |

## 1. General technical data

|                                                    |                                                                                                 |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------|
| <b>Product properties</b>                          |                                                                                                 |
| Dimensions                                         | Further information can be found in chapter "4. Dimensions" on page 4.                          |
| <b>Materials</b>                                   |                                                                                                 |
| Wetted                                             | Stainless steel 1.4435/316L<br>Special materials on request                                     |
| Non-wetted                                         | Stainless steel 1.4305/303 or equivalent                                                        |
| Surface quality                                    | Wetted surface: RA < Ra 0.76 µm (ASME BPE SF3),<br>other surfaces on request                    |
| <b>Performance data</b>                            |                                                                                                 |
| Operating pressure                                 | See <b>datasheet Type BBS- 04</b> ►                                                             |
| <b>Medium data</b>                                 |                                                                                                 |
| Operating medium                                   | Gases or liquids                                                                                |
| Medium temperature                                 | See <b>datasheet Type BBS- 04</b> ►                                                             |
| <b>Process/Port connection &amp; communication</b> |                                                                                                 |
| Nominal diameter                                   | DIN DN 08...DN 50<br>ISO DN 08...DN 50<br>ASME DN ¼"...DN 2"<br>Customised solutions on request |
| <b>Approvals and conformities</b>                  |                                                                                                 |
| Certificate                                        | Material certificate 3.1                                                                        |
| <b>Environment and installation</b>                |                                                                                                 |
| Ambient temperature                                | - 20...+ 80 °C                                                                                  |

## 2. Approvals and conformities

### 2.1. Conformity

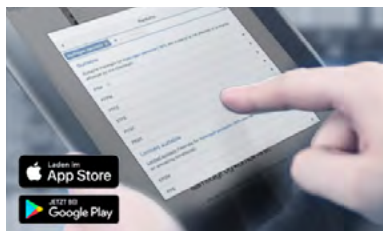
In accordance with the Declaration of Conformity, the product is compliant with the EU Directives.

### 2.2. Standards

The applied standards which are used to demonstrate compliance with the EU Directives are listed in the EU-Type Examination Certificate and/or the EU Declaration of Conformity.

## 3. Materials

### 3.1. Bürkert resistApp



#### Bürkert resistApp – Chemical resistance chart

You want to ensure the reliability and durability of the materials in your individual application case? Verify your combination of media and materials on our website or in our resistApp.

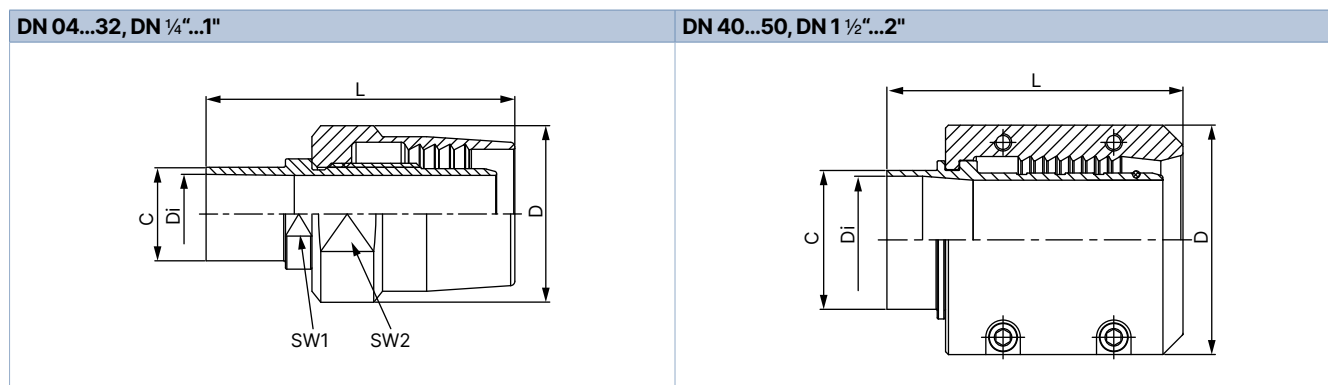
[Start chemical resistance check](#)

## 4. Dimensions

### 4.1. Hose union with welded connection

**Note:**

A completely gap-free connection feature can only be guaranteed in combination with BBS- 04 silicone hoses. Further information can be found in **datasheet Type BBS- 04** ▶s.

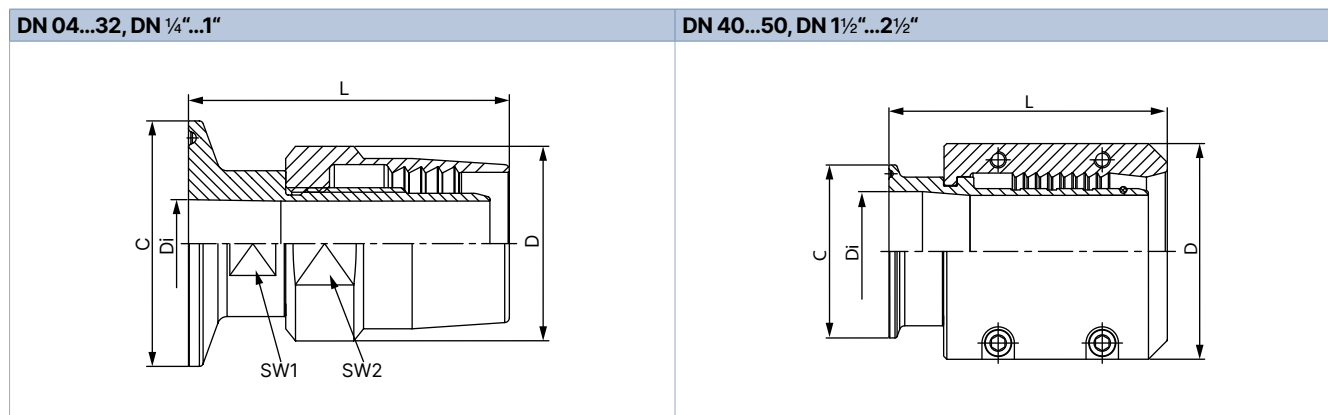


| Nominal diameter | C [mm] | Di [mm] | L [mm] | D [mm] | SW1 [mm] | SW2 [mm] | Article no. |
|------------------|--------|---------|--------|--------|----------|----------|-------------|
| <b>DIN</b>       |        |         |        |        |          |          |             |
| DN 08            | 10     | 8       | 50     | 22     | 13       | 20       | 742290      |
| DN 10            | 12     | 10      | 54     | 27.7   | 15       | 24       | 742292      |
| DN 10            | 13     | 10      | 54     | 27.7   | 15       | 24       | 742293      |
| DN 15            | 19     | 16      | 61.5   | 29.7   | 21       | 27       | 742295      |
| DN 20            | 23     | 20      | 73     | 38.6   | 24       | 36       | 742296      |
| DN 25            | 29     | 26      | 84     | 49.5   | 32       | 46       | 743772      |
| DN 32            | 35     | 32      | 96     | 57     | 41       | 55       | 742298      |
| DN 40            | 41     | 38      | 98.7   | 74     | –        | –        | 742299      |
| DN 50            | 53     | 50      | 114    | 92     | –        | –        | 742300      |
| <b>ISO</b>       |        |         |        |        |          |          |             |
| DN 08            | 13.5   | 10.3    | 54     | 27.7   | 14       | 24       | 742302      |
| DN 10            | 17.2   | 14      | 61.5   | 29.7   | 19       | 27       | 742304      |
| DN 15            | 21.3   | 18.1    | 70     | 38.6   | 22       | 36       | 742306      |
| DN 20            | 26.9   | 23.7    | 84     | 49.5   | 32       | 46       | 742308      |
| DN 25            | 33.7   | 29.7    | 96     | 57     | 41       | 55       | 742309      |
| DN 32            | 42.4   | 38.4    | 85.6   | 74     | –        | –        | 742310      |
| DN 40            | 48.3   | 44.3    | 102.8  | 79.8   | –        | –        | 742311      |
| DN 50            | 60.3   | 56.3    | 114    | 92     | –        | –        | 742312      |
| <b>ASME</b>      |        |         |        |        |          |          |             |
| DN ¼"            | 6.35   | 4.57    | 42.3   | 22     | 22       | 17       | 742313      |
| DN ⅜"            | 9.53   | 7.75    | 54     | 27.7   | 14       | 24       | 742314      |
| DN ½"            | 12.7   | 9.4     | 64     | 29.7   | 32       | 27       | 742315      |
| DN ¾"            | 19.05  | 15.75   | 78.9   | 38.6   | 22       | 36       | 742316      |
| DN 1"            | 25.4   | 22.1    | 95     | 49.5   | 32       | 46       | 742317      |
| DN 1½"           | 38.1   | 34.8    | 100.8  | 74     | –        | –        | 742318      |
| DN 2"            | 50.8   | 47.5    | 101.8  | 79.8   | –        | –        | 742319      |

#### 4.2. Hose union with clamp connection according to DIN 32676

**Note:**

A completely gap-free connection feature can only be guaranteed in combination with BBS-04 silicone hoses. Further information can be found in **datasheet Type BBS-04** ►.

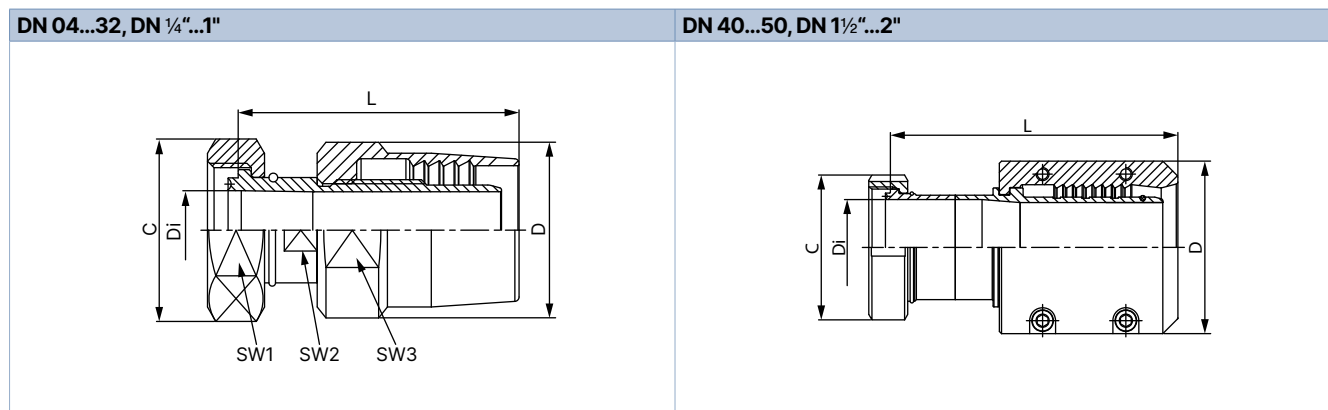


| Nominal diameter | C [mm] | Di [mm] | L [mm] | D [mm] | SW1 [mm] | SW2 [mm] | Article no. |
|------------------|--------|---------|--------|--------|----------|----------|-------------|
| <b>DIN</b>       |        |         |        |        |          |          |             |
| DN 08            | 25     | 8       | 39.5   | 22     | 17       | 20       | 742106      |
| DN 10            | 25     | 10      | 49     | 21.7   | 17       | 24       | 742107      |
| DN 15            | 34     | 16      | 50     | 29.7   | 19       | 27       | 742108      |
| DN 20            | 34     | 20      | 64     | 38.6   | 22       | 36       | 742109      |
| DN 25            | 50.5   | 26      | 78.5   | 49.5   | 32       | 46       | 742111      |
| DN 32            | 50.5   | 32      | 90     | 56     | 41       | 54       | 744803      |
| DN 40            | 50.5   | 38      | 89.7   | 74     | –        | –        | 742112      |
| DN 50            | 64     | 50      | 122.5  | 92     | –        | –        | 742114      |
| <b>ISO</b>       |        |         |        |        |          |          |             |
| DN 08            | 25     | 10.3    | 49     | 21.7   | 17       | 24       | 742223      |
| DN 10            | 34     | 10      | 49     | 27.7   | 17       | 24       | 742153      |
| DN 15            | 50.5   | 18.1    | 66     | 40     | 27       | 36       | 742119      |
| DN 20            | 50.5   | 23.7    | 78.5   | 49.5   | 32       | 46       | 742226      |
| DN 25            | 50.5   | 29.7    | 96     | 57     | 41       | 55       | 742127      |
| DN 32            | 64     | 38.4    | 89.7   | 74     | –        | –        | 742135      |
| DN 40            | 64     | 44.3    | 101.8  | 78.8   | –        | –        | 742139      |
| DN 50            | 77.5   | 56.3    | 124    | 92     | –        | –        | 742140      |
| <b>ASME</b>      |        |         |        |        |          |          |             |
| DN 1/4"          | 25     | 4.57    | 38.5   | 19.8   | 14       | 17       | 743031      |
| DN 3/8"          | 25     | 7.75    | 49     | 21.7   | 17       | 24       | 741989      |
| DN 1/2"          | 25     | 9.4     | 50     | 29.7   | 19       | 27       | 741993      |
| DN 3/4"          | 25     | 15.75   | 66     | 40     | 27       | 36       | 741995      |
| DN 1"            | 50.5   | 22.1    | 78.5   | 49.5   | 32       | 46       | 742001      |
| DN 1 1/2"        | 50.5   | 34.8    | 92.9   | 74     | –        | –        | 742007      |
| DN 2"            | 64     | 47.5    | 102    | 79.8   | –        | –        | 742017      |
| DN 2 1/2"        | 77.5   | 60.2    | 123    | 92     | –        | –        | 743239      |

### 4.3. Hose union with BBS sterile contour (male)

**Note:**

A completely gap-free connection feature can only be guaranteed in combination with BBS-04 silicone hoses. Further information can be found in **datasheet Type BBS-04** ►.

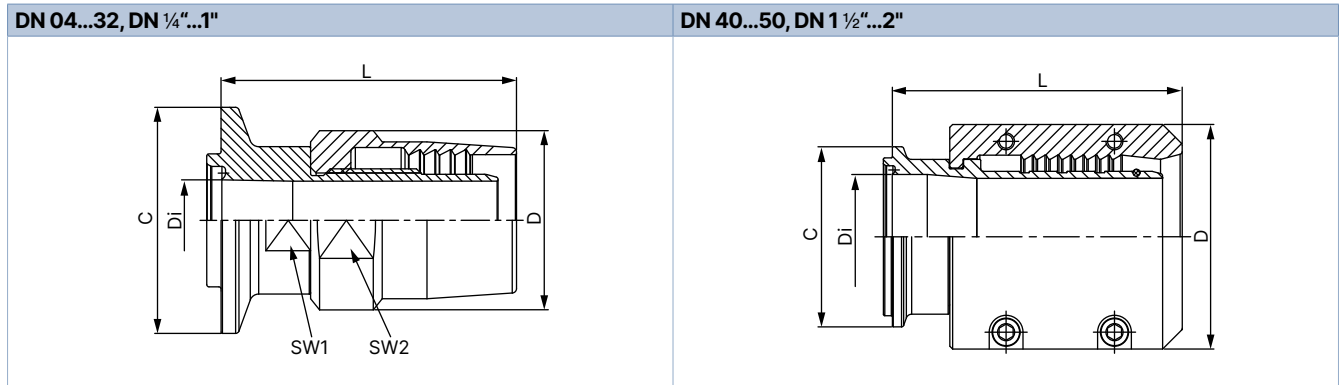


| Nominal diameter | C [mm] | Di [mm] | L [mm] | D [mm] | SW1 [mm] | SW2 [mm] | SW3 [mm] | Article no. |
|------------------|--------|---------|--------|--------|----------|----------|----------|-------------|
| <b>DIN</b>       |        |         |        |        |          |          |          |             |
| DN 04            | 21.9   | 4       | 40     | 17.8   | 19       | 8        | 14       | 742027      |
| DN 06            | 21.9   | 6       | 40     | 19.8   | 19       | 10       | 17       | 742030      |
| DN 08            | 24.5   | 8       | 42.3   | 22     | 22       | 11       | 20       | 742034      |
| DN 10            | 31.2   | 10      | 49     | 27.7   | 27       | 14       | 24       | 742056      |
| DN 15            | 36.5   | 16      | 52     | 29.7   | 36       | 21       | 27       | 742040      |
| DN 20            | 48.3   | 20      | 65     | 38.6   | 42       | 22       | 36       | 742042      |
| DN 25            | 52     | 26      | 77     | 49.5   | –        | 32       | 46       | 742043      |
| DN 32            | 62     | 32      | 87.7   | 56     | –        | 41       | 54       | 742046      |
| DN 40            | 67     | 38      | 152.5  | 79.8   | –        | –        | –        | 742048      |
| DN 50            | 80     | 50      | 169.4  | 92     | –        | –        | –        | 742050      |
| <b>ISO</b>       |        |         |        |        |          |          |          |             |
| DN 08            | 31.2   | 10.3    | 49     | 27.7   | 27       | 14       | 24       | 742056      |
| DN 10            | 36.5   | 14      | 52     | 29.7   | 32       | 19       | 27       | 742066      |
| DN 15            | 41.6   | 18.1    | 64     | 38.6   | 36       | 22       | 36       | 742072      |
| DN 20            | 48     | 23.7    | 79.3   | 49.5   | 42       | 28       | 46       | 742083      |
| DN 25            | 52     | 29.7    | 121    | 57     | 46       | 32       | 55       | 742086      |
| DN 32            | 62     | 38.4    | 111    | 74     | –        | –        | –        | 742088      |
| DN 40            | 67     | 44.3    | 132.8  | 79.8   | –        | –        | –        | 742090      |
| DN 50            | 80     | 56.3    | 144    | 92     | –        | –        | –        | 742091      |
| <b>ASME</b>      |        |         |        |        |          |          |          |             |
| DN 1/4"          | 21.9   | 4.57    | 42.3   | 22     | 22       | 11       | 17       | 742092      |
| DN 3/8"          | 21.9   | 7.7     | 49     | 27.7   | 27       | 14       | 24       | 742093      |
| DN 1/2"          | 24.5   | 9.4     | 52     | 29.7   | 32       | 19       | 27       | 742094      |
| DN 3/4"          | 31.2   | 15.75   | 65     | 38.6   | 42       | 22       | 36       | 742095      |
| DN 1"            | 36.5   | 22.1    | 79.3   | 49.5   | 42       | 28       | 46       | 742096      |
| DN 1 1/2"        | 62     | 34.8    | 133.4  | 74     | –        | –        | –        | 742097      |
| DN 2"            | 80     | 47.5    | 144.6  | 79.8   | –        | –        | –        | 744798      |

#### 4.4. Hose union with BBS sterile clamp connection (male)

##### Note:

A completely gap-free connection feature can only be guaranteed in combination with BBS-04 silicone hoses. Further information can be found in **datasheet Type BBS-04** ►

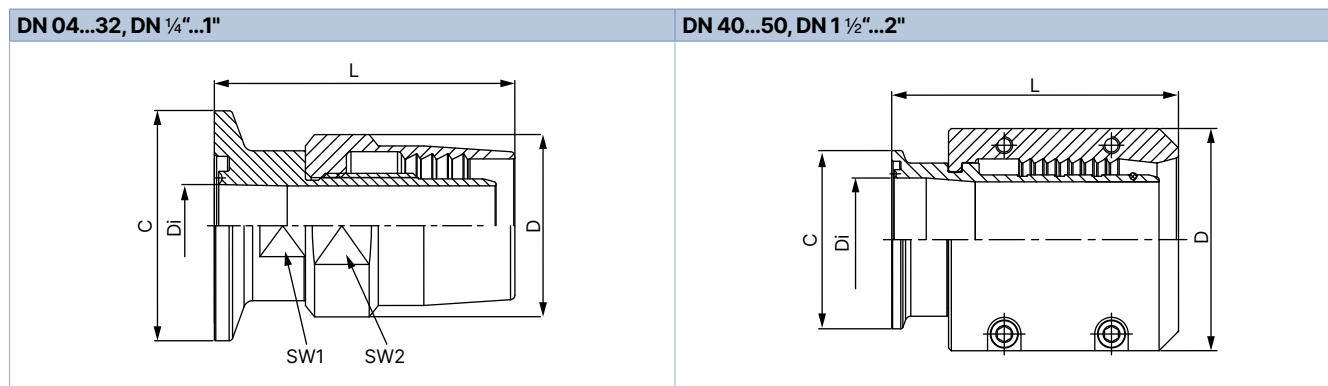


| Nominal diameter | C<br>[mm] | Di<br>[mm] | L<br>[mm] | D<br>[mm] | SW1<br>[mm] | SW2<br>[mm] | Article no.                                                                                  |
|------------------|-----------|------------|-----------|-----------|-------------|-------------|----------------------------------------------------------------------------------------------|
| <b>DIN</b>       |           |            |           |           |             |             |                                                                                              |
| DN 04            | 25        | 4          | 36.25     | 17.8      | 10          | 14          | 731524    |
| DN 06            | 25        | 6          | 38.5      | 19.8      | 14          | 17          | 731526    |
| DN 08            | 25        | 8          | 39.5      | 22        | 11          | 20          | 731528   |
| DN 10            | 25        | 10         | 48.8      | 27.7      | 17          | 24          | 731534  |
| DN 15            | 50.5      | 16         | 52        | 29.7      | 21          | 27          | 744899  |
| DN 20            | 50.5      | 20         | 63.8      | 38.6      | 22          | 36          | 731535  |
| DN 25            | 50.5      | 26         | 78.5      | 49.5      | 32          | 46          | 731537  |
| DN 32            | 64        | 32         | 90        | 56        | 41          | 54          | 744900  |
| DN 40            | 50.5      | 38         | 89.7      | 74        | –           | –           | 731539  |
| DN 50            | 64        | 50         | 112.5     | 92        | –           | –           | 731541  |
| <b>ISO</b>       |           |            |           |           |             |             |                                                                                              |
| DN 08            | 25        | 10.3       | 52        | 27.7      | 17          | 24          | 731471  |
| DN 10            | 50.5      | 14         | 52        | 29.7      | 19          | 27          | 742534  |
| DN 15            | 50.5      | 18.1       | 66        | 38.6      | 27          | 36          | 742536  |
| DN 20            | 50.5      | 23.7       | 80.5      | 50        | 27          | 46          | 744894  |
| DN 25            | 50.5      | 29.7       | 97        | 56        | 41          | 54          | 731485  |
| DN 32            | 64        | 38.4       | 110       | 90        | –           | –           | 731489  |
| DN 40            | 64        | 44.3       | 130       | 79.8      | –           | –           | 731495  |
| DN 50            | 77.5      | 56.3       | 146.6     | 92        | –           | –           | 747797  |
| <b>ASME</b>      |           |            |           |           |             |             |                                                                                              |
| DN 1/4"          | 25        | 4.57       | 38.4      | 19.8      | 14          | 17          | 731501  |
| DN 3/8"          | 25        | 7.75       | 39.5      | 22        | 14          | 20          | 747826  |
| DN 1/2"          | 25        | 9.4        | 50.5      | 29.7      | 19          | 27          | 731503  |
| DN 3/4"          | 50.5      | 15.75      | 66        | 40        | 27          | 36          | 731505  |
| DN 1"            | 50.5      | 22.10      | 80.5      | 49.5      | 32          | 46          | 731510  |
| DN 1 1/2"        | 50.5      | 34.8       | 94.1      | 74        | –           | –           | 731512  |
| DN 2"            | 64        | 47.5       | 102.8     | 79.8      | –           | –           | 731514  |

#### 4.5. Hose union with BBS sterile clamp connection (female)

**Note:**

A completely gap-free connection feature can only be guaranteed in combination with BBS-04 silicone hoses. Further information can be found in **datasheet Type BBS-04** ►.



| Nominal diameter | C [mm] | Di [mm] | L [mm] | D [mm] | SW1 [mm] | SW2 [mm] | Article no. |
|------------------|--------|---------|--------|--------|----------|----------|-------------|
| <b>DIN</b>       |        |         |        |        |          |          |             |
| DN 08            | 25     | 8       | 39.5   | 22     | 17       | 20       | 742576      |
| DN 10            | 25     | 10      | 48.8   | 27.7   | 17       | 24       | 742578      |
| DN 15            | 50.5   | 16      | 52     | 29.7   | 21       | 27       | 744908      |
| DN 20            | 50.5   | 20      | 63.8   | 38.6   | 22       | 36       | 742580      |
| DN 25            | 50.5   | 26      | 78.5   | 49.5   | 32       | 46       | 742581      |
| DN 32            | 64     | 32      | 90     | 56     | 41       | 54       | 744909      |
| DN 40            | 50.5   | 38      | 89.7   | 74     | –        | –        | 742582      |
| DN 50            | 64     | 50      | 112.5  | 92     | –        | –        | 742583      |
| <b>ISO</b>       |        |         |        |        |          |          |             |
| DN 08            | 25     | 10.3    | 48.9   | 27.7   | 17       | 24       | 742543      |
| DN 10            | 50.5   | 14      | 52     | 29.7   | 19       | 27       | 742549      |
| DN 15            | 50.5   | 18.1    | 66     | 38.6   | 27       | 36       | 742551      |
| DN 20            | 50.5   | 23.7    | 80.5   | 49.5   | 32       | 46       | 744902      |
| DN 25            | 50.5   | 29.7    | 97     | 57     | 41       | 55       | 742554      |
| DN 32            | 64     | 38.4    | 85.7   | 75     | –        | –        | 742558      |
| DN 40            | 64     | 44.3    | 103.4  | 79.8   | –        | –        | 742561      |
| DN 50            | 77.5   | 56.3    | 122.5  | 92     | –        | –        | 742563      |
| <b>ASME</b>      |        |         |        |        |          |          |             |
| DN 1/4"          | 25     | 4.57    | 38.4   | 19.8   | 14       | 17       | 742564      |
| DN 3/8"          | 25     | 7.75    | 39.5   | 22     | 11       | 20       | 744903      |
| DN 1/2"          | 25     | 9.4     | 52     | 29.7   | 17       | 27       | 742566      |
| DN 3/4"          | 25     | 15.75   | 65.8   | 38.6   | 22       | 36       | 742567      |
| DN 1"            | 50.5   | 22.1    | 77.5   | 49.5   | 32       | 46       | 742569      |
| DN 1 1/2"        | 50.5   | 34.8    | 94.3   | 74     | –        | –        | 742570      |
| DN 2"            | 64.0   | 47.5    | 102.8  | 79.8   | –        | –        | 742571      |



## 5. Device/Process connections

### 5.1. Suitable hoses for hose unions

**Note:**

A completely gap-free connection feature can only be guaranteed in combination with BBS- 04 silicone hoses. Further information can be found in **datasheet Type BBS- 04** ►.

| Nominal diameter | Inner Ø x wall thickness<br>[mm] | Functional part parameter |
|------------------|----------------------------------|---------------------------|
| <b>DIN</b>       |                                  |                           |
| DN 08            | 8 × 3.2                          | IC                        |
| DN 10            | 10 × 4.75                        | ID                        |
| DN 15            | 12.7 × 4.75                      | IE                        |
| DN 20            | 19 × 5.8                         | IF                        |
| DN 25            | 25.4 × 6.35                      | IG                        |
| DN 32            | 32 × 7                           | IH                        |
| DN 40            | 38 × 7                           | II                        |
| DN 50            | 55 × 7                           | IK                        |
| <b>ISO</b>       |                                  |                           |
| DN 08            | 10 × 4.75                        | ID                        |
| DN 10            | 12.7 × 4.75                      | IE                        |
| DN 15            | 19 × 5.8                         | IF                        |
| DN 20            | 25.4 × 6.35                      | IG                        |
| DN 25            | 32 × 7                           | IH                        |
| DN 32            | 38 × 7                           | II                        |
| DN 40            | 45 × 7                           | IJ                        |
| DN 50            | 55 × 7                           | IK                        |
| <b>ASME</b>      |                                  |                           |
| DN ¼"            | 5 × 2.5                          | IA                        |
| DN ⅜"            | 8 × 3.2                          | IC                        |
| DN 1½"           | 12.7 × 4.75                      | IE                        |
| DN ¾"            | 19 × 5.8                         | IF                        |
| DN 1"            | 25.4 × 6.35                      | IG                        |
| DN 1½"           | 38 × 7                           | II                        |
| DN 2"            | 45 × 7                           | IJ                        |

## 6. Ordering information

### 6.1. Bürkert eShop



#### Bürkert eShop – Easy ordering and quick delivery

You want to find your desired Bürkert product or spare part quickly and order directly? Our online shop is available for you 24/7. Sign up and enjoy all the benefits.

[Order online now](#)

## 6.2. Bürkert product filter



### Bürkert product filter – Get quickly to the right product

You want to select products comfortably based on your technical requirements? Use the Bürkert product filter and find suitable articles for your application quickly and easily.

[Try out our product filter](#)

## 6.3. Ordering chart

### Note:

Further information can be found in chapter **"4. Dimensions"** on page 4.