



## Manually operated 2/2-way angle seat valve

- High flow rates
- Long service life
- Robust actuator with optional stroke limitation and locking
- Flow-optimised stainless steel valve body with socket, clamp or welded connection

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

### Can be combined with

|  |                                                                                                        |   |
|--|--------------------------------------------------------------------------------------------------------|---|
|  | <b>Type 2101</b><br>Pneumatically operated 2/2-way globe valve<br>ELEMENT for decentralised automation | ▶ |
|  | <b>Type 2000</b><br>Pneumatically operated 2/2-way angle seat valve<br>CLASSIC                         | ▶ |
|  | <b>Type 2921</b><br>Manually operated 2/2-way globe valve                                              | ▶ |
|  | <b>Type 2961</b><br>Manually operated 2-way globe control valve                                        | ▶ |
|  | <b>Type 8801</b><br>On/off valve systems<br>ELEMENT with decentralised automation – overview           | ▶ |
|  | <b>Type 8840</b><br>Modular process valve cluster – distributor and collector                          | ▶ |

### Type description

The Type 2920 angle seat valve consists of a manual actuator and a 2-way body made of high-quality stainless steel. With a flow-optimised valve body, the manually operated valve offers diverse usage options to shut off both neutral and aggressive gaseous and liquid media. The tried-and-tested self-adjusting packing gland guarantees optimal tightness and therefore enables low-maintenance operation, even at high switching cycles. Depending on the application, the soft PTFE or PEEK seal ensures a reliable valve seat seal, even under challenging operating conditions.

The actuator is made of high-quality plastic and is suitable for use in demanding environments. It possesses a visual position indicator and can be optionally equipped with stroke limitation and locking.

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## 1. General technical data

|                                                                                                       |                                                                                                                                    |
|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product properties</b>                                                                             |                                                                                                                                    |
| Dimensions                                                                                            | Further information can be found in chapter <a href="#">“4. Dimensions” on page 7</a>                                              |
| Material                                                                                              | Further information can be found in chapter <a href="#">“3. Materials” on page 6</a>                                               |
| Design                                                                                                | Angle seat valve on/off                                                                                                            |
| Nominal diameter                                                                                      | DN 10...DN 80, NPS 3/8...NPS 3                                                                                                     |
| Flow direction                                                                                        | Flow to open (below seat)                                                                                                          |
| <b>Performance data</b>                                                                               |                                                                                                                                    |
| Operating pressure                                                                                    | 0 bar(g)...25 bar(g) (see <a href="#">“5.1. Fluidic data” on page 11</a> )                                                         |
| Nominal pressure                                                                                      | PN 25 (DIN EN 1333), Class 150 (DIN EN 1759)                                                                                       |
| Seat leakage                                                                                          | Leakage rate A (DIN EN 12266 - 1), seat seal PTFE and PEEK, test medium air (see <a href="#">“5.1. Fluidic data” on page 11</a> )  |
| K <sub>v</sub> value                                                                                  | 1.6...140 m³/h (see <a href="#">“5.1. Fluidic data” on page 11</a> )                                                               |
| <b>Medium data</b>                                                                                    |                                                                                                                                    |
| Operating medium                                                                                      | Steam, water, neutral gases, alcohols, oils, fuels, hydraulic fluids, salt solutions, alkalis, organic solvents                    |
| Medium temperature                                                                                    | - 40 °C...+ 230 °C (see <a href="#">“5.2. Operating limits” on page 13</a> )                                                       |
| Viscosity                                                                                             | Max. 600 mm²/s                                                                                                                     |
| <b>Product connections</b>                                                                            |                                                                                                                                    |
| <b>Port connection</b>                                                                                |                                                                                                                                    |
| Threaded connection                                                                                   | G (DIN ISO 228 - 1)<br>NPT (ASME B1.20.1)<br>RC (ISO 7 - 1)                                                                        |
| Welded connection                                                                                     | DIN EN ISO 1127 / ISO 4200 / DIN 11866 series B<br>DIN 11850 - 2 / DIN 11866 series A<br>ASME BPE / DIN 11866 series C<br>SMS 3008 |
| Clamp connection                                                                                      | DIN 32676 series B (pipe: ISO 4200)<br>DIN 32676 series A (pipe: DIN 11850 - 2)<br>ASME BPE                                        |
| <b>Approvals and conformities</b>                                                                     |                                                                                                                                    |
| Further information can be found in chapter <a href="#">“2. Approvals and conformities” on page 4</a> |                                                                                                                                    |
| <b>Environment and installation</b>                                                                   |                                                                                                                                    |
| Ambient temperature                                                                                   | - 10 °C...+ 60 °C                                                                                                                  |
| Installation position                                                                                 | As required, preferably with actuator upright                                                                                      |

## 2. Approvals and conformities

### 2.1. General notes

- The approvals and conformities listed below must be stated when making enquiries. This is the only way to ensure that the product complies with all required specifications.
- Not all available variants can be supplied with the below mentioned approvals or conformities.

### 2.2. Conformity

In accordance with the Declaration of Conformity, the product is compliant with the EU Directives. This includes the following directives:

- Pressure Equipment Directive 2014/68/EU

### 2.3. 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.

### 2.4. Explosion protection

| Approval                                                                                                                                                                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                    |                    |    |    |                             |          |          |          |                     |                    |                    |                    |                            |          |          |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|----|----|-----------------------------|----------|----------|----------|---------------------|--------------------|--------------------|--------------------|----------------------------|----------|----------|----------|
| <br> | <p><b>Optional: Explosion protection (valid for the variable code PX51)</b><br/>As a category 2 device suitable for zone 1/21 and zone 2/22.</p> <p><b>ATEX:</b><br/>EPS 18 ATEX 2 008 X<br/>II 2G Ex h IIC T4...T2 Gb<br/>II 2D Ex h IIIC T135 °C...T300 °C Db</p> <p><b>IECEx:</b><br/>IECEx EPS 18.0007X<br/>Ex h IIC T4...T2 Gb<br/>Ex h IIIC T135 °C...T300 °C Db</p> <table><tr><td>Temperature class</td><td>T2</td><td>T3</td><td>T4</td></tr><tr><td>Maximum surface temperature</td><td>+ 300 °C</td><td>+ 200 °C</td><td>+ 135 °C</td></tr><tr><td>Ambient temperature</td><td>- 40 °C...+ 130 °C</td><td>- 40 °C...+ 130 °C</td><td>- 40 °C...+ 100 °C</td></tr><tr><td>Maximum medium temperature</td><td>+ 285 °C</td><td>+ 185 °C</td><td>+ 125 °C</td></tr></table> <p><b>Note:</b> The ambient and medium temperature range may be limited by non-ex-relevant specifications. Observe the Operating Instructions.</p> | Temperature class  | T2                 | T3 | T4 | Maximum surface temperature | + 300 °C | + 200 °C | + 135 °C | Ambient temperature | - 40 °C...+ 130 °C | - 40 °C...+ 130 °C | - 40 °C...+ 100 °C | Maximum medium temperature | + 285 °C | + 185 °C | + 125 °C |
| Temperature class                                                                                                                                                         | T2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | T3                 | T4                 |    |    |                             |          |          |          |                     |                    |                    |                    |                            |          |          |          |
| Maximum surface temperature                                                                                                                                               | + 300 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | + 200 °C           | + 135 °C           |    |    |                             |          |          |          |                     |                    |                    |                    |                            |          |          |          |
| Ambient temperature                                                                                                                                                       | - 40 °C...+ 130 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | - 40 °C...+ 130 °C | - 40 °C...+ 100 °C |    |    |                             |          |          |          |                     |                    |                    |                    |                            |          |          |          |
| Maximum medium temperature                                                                                                                                                | + 285 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | + 185 °C           | + 125 °C           |    |    |                             |          |          |          |                     |                    |                    |                    |                            |          |          |          |

### 2.5. Drinking water

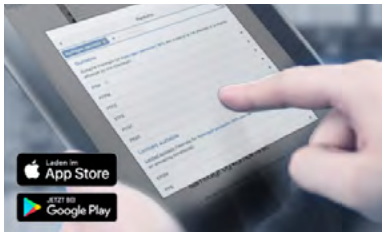
| Conformity                                                                          | Description                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p><b>Suitable for use in drinking water applications</b><br/>The materials comply with the assessment principles (UBA) for materials in contact with drinking water (TrinkwasserV).</p> <p><b>Stainless steel body</b><br/>PF39: Suitable for products with medium temperature up to 85 °C (hot water)</p> |

2.6. Foods and beverages/Hygiene

| Conformity                                                                        | Description                                                                                                                                                                                                                                                  |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FDA                                                                               | <b>FDA – Code of Federal Regulations (valid for the variable code PL02)</b><br>All wetted materials are compliant with the Code of Federal Regulations published by the FDA (Food and Drug Administration, USA) according to the manufacturer’s declaration. |
| USP                                                                               | <b>United States Pharmacopeial Convention (USP) (valid for the variable code PL04)</b><br>All wetted materials are biocompatible according to the manufacturer’s declaration.                                                                                |
|  | <b>EC Regulation 1935/2004 of the European Parliament and of the Council (valid for the variable code PL01, PL02)</b><br>All wetted materials are compliant with EC Regulation 1935/2004/EC according to the manufacturer’s declaration.                     |
|  | <b>China food GB Standards of the People’s Republic of China (valid for the variable code PL10)</b><br>All wetted materials are compliant with the requirement of China food GB Standards according to the manufacturer’s declaration.                       |

3. Materials

3.1. Bürkert resistApp

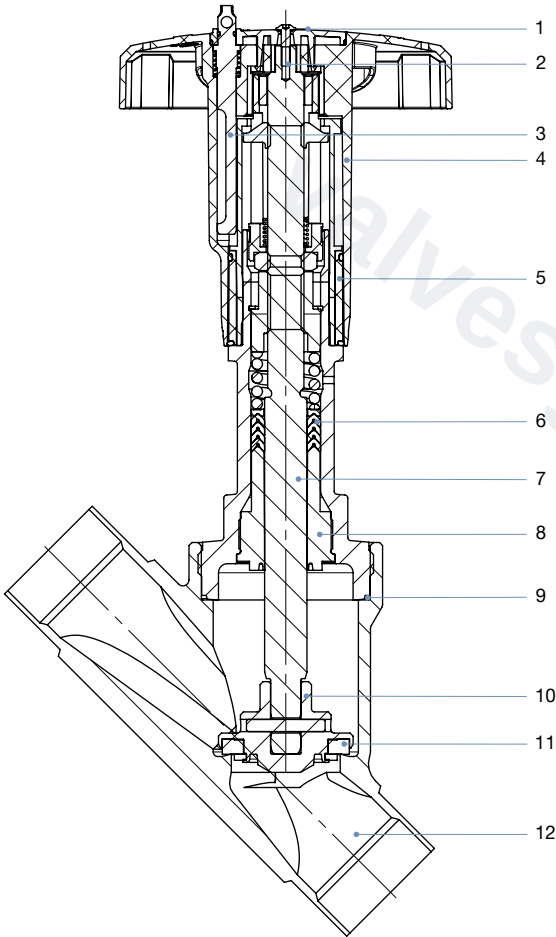


**Bürkert resistApp – Chemical resistance chart**

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](#)

3.2. Material specifications

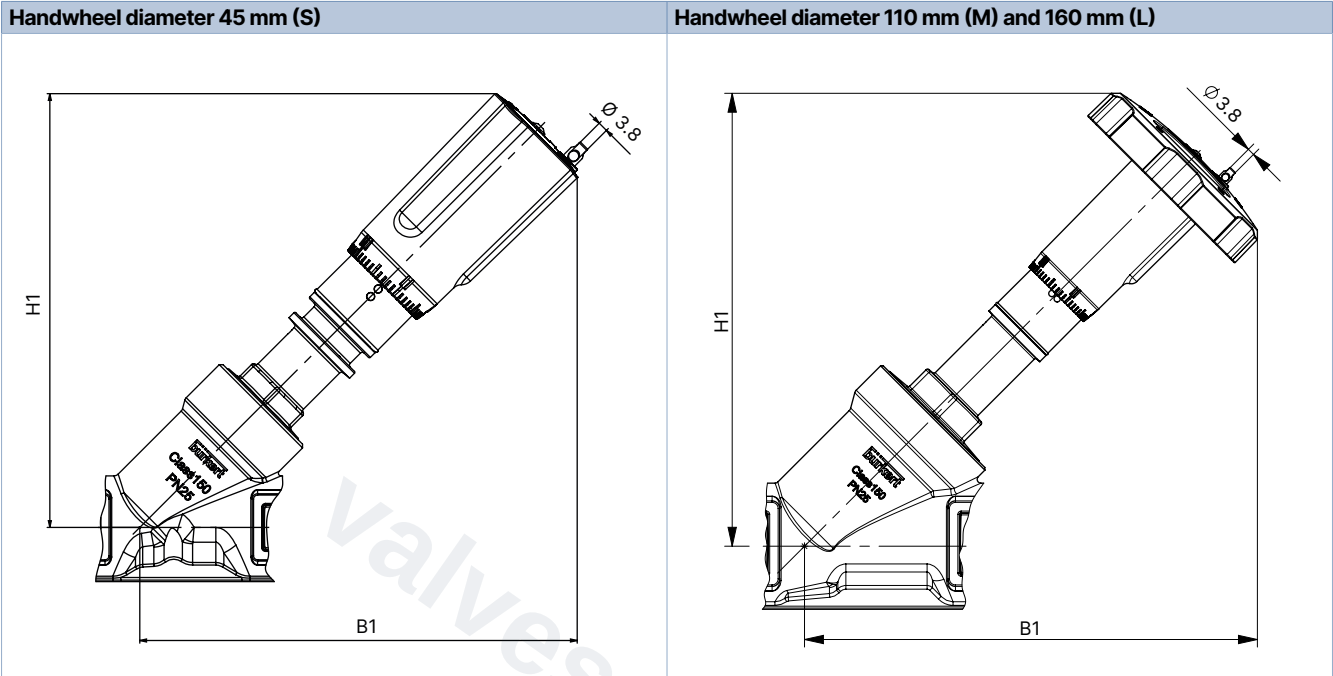


| No. | Element                               | Material                                                                         |
|-----|---------------------------------------|----------------------------------------------------------------------------------|
| 1   | Cover                                 | Polyamide (PA)                                                                   |
| 2   | Screw                                 | Stainless steel 1.4301                                                           |
| 3   | Lock pin                              | Stainless steel 1.4305                                                           |
| 4   | Handwheel                             | Polyphenylene sulfide (PPS)                                                      |
| 5   | Optical position indicator with scale | Polyamide (PA)                                                                   |
| 6   | Packing gland                         | PTFE V-rings (filled), with spring compensation                                  |
| 7   | Spindle                               | Stainless steel 1.4401 (316)/1.4404 (316L)                                       |
| 8   | Spindle guide                         | DN 15...DN 50: PEEK<br>DN 65...DN 80: Stainless steel 1.4401 (316)/1.4404 (316L) |
| 9   | Body seal                             | Graphite                                                                         |
| 10  | Swivel plate                          | Stainless steel 1.4401 (316)/1.4404 (316L)                                       |
| 11  | Seat seal (optional)                  | PTFE or PEEK                                                                     |
| 12  | Valve body                            | Stainless steel 316L/CF3M                                                        |

4. Dimensions

4.1. Actuator

**Note:**  
Dimensions in mm, unless otherwise stated

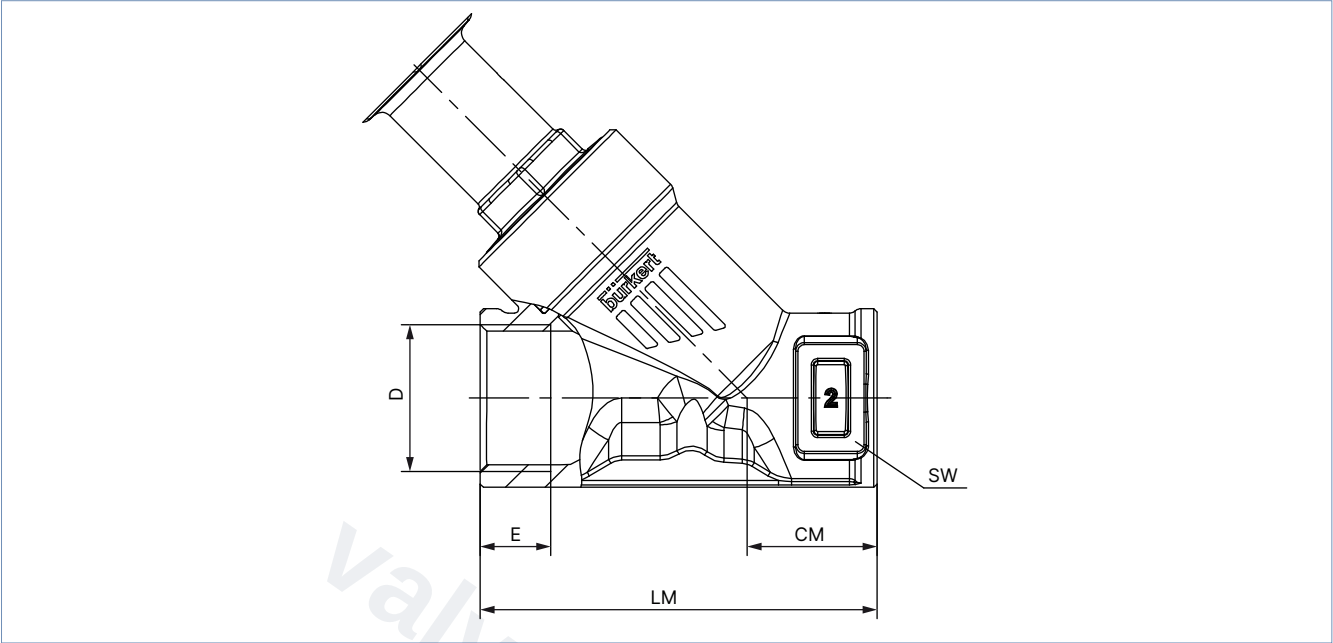


| Nominal connection size (pipe) |     | Handwheel diameter Ø           | B1 <sup>1.)</sup> | H1 <sup>1.)</sup> |
|--------------------------------|-----|--------------------------------|-------------------|-------------------|
| DN                             | NPS | [mm]                           |                   |                   |
| 15                             | ½   | 45 (S)                         | 148               | 148               |
| 20                             | ¾   | 45 (S)                         | 154               | 154               |
| 25                             | 1   | 45 (S)                         | 163               | 163               |
| 32                             | 1 ¼ | 45 (S)                         | 171               | 171               |
| 40                             | 1 ½ | 45 <sup>2.)</sup> (S), 110 (M) | 224               | 224               |
| 50                             | 2   | 110 (M)                        | 241               | 241               |
| 65                             | 2 ½ | 160 (L)                        | 290               | 290               |
| 80                             | 3   | 160 (L)                        | 308               | 310               |

1.) The dimensions for B and H are maximum dimensions and may be up to 6 mm less, depending on the nominal diameter and standard.  
2.) At an operating pressure of less than 16 bar

4.2. Body with threaded connection

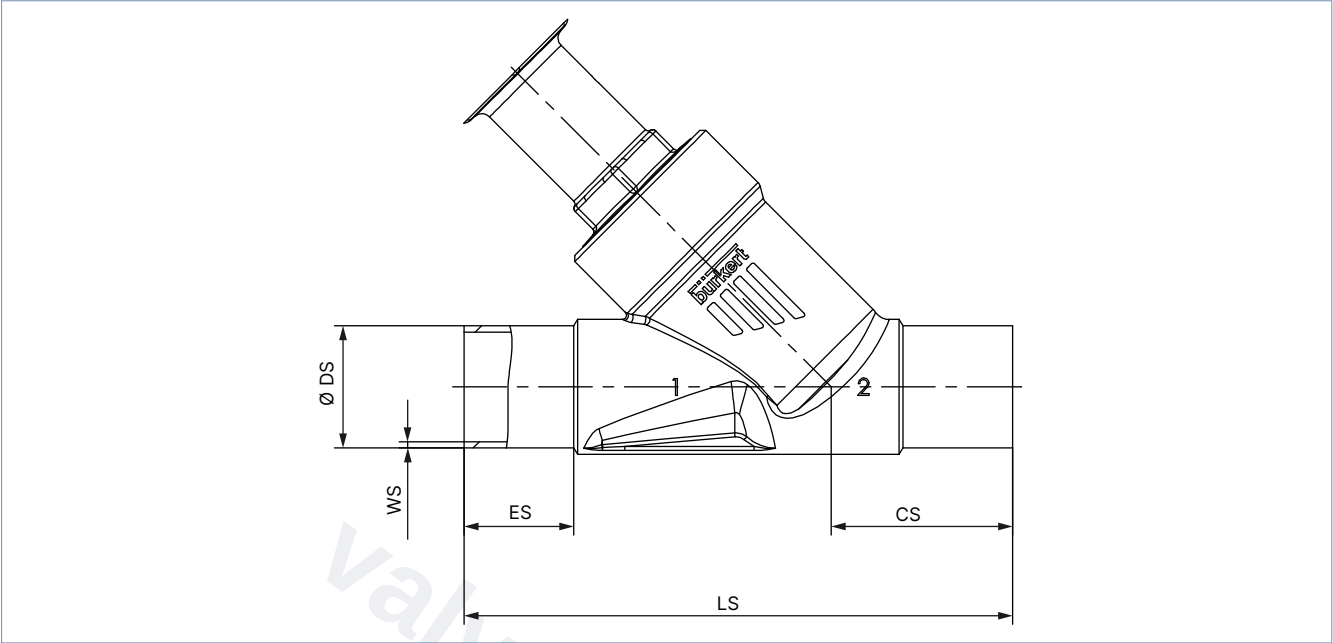
**Note:**  
Dimensions in mm, unless otherwise stated



| Nominal<br>diameter<br>(pipe) | G (DIN ISO 228 - 1), NPT (ASME B 1.20.1), Rc (ISO7 - 1) |     |      |       |      |     |     |
|-------------------------------|---------------------------------------------------------|-----|------|-------|------|-----|-----|
|                               | D                                                       | E   |      |       | CM   | LM  | SW  |
|                               | DN                                                      | NPS | [G]  | [NPT] |      |     |     |
| 15                            | ½                                                       | 14  | 13.7 | 13.2  | 24   | 65  | 27  |
| 20                            | ¾                                                       | 16  | 14.0 | 14.5  | 27   | 75  | 34  |
| 25                            | 1                                                       | 18  | 16.8 | 16.8  | 29.5 | 90  | 41  |
| 32                            | 1¼                                                      | 16  | 17.3 | 19.1  | 36   | 110 | 50  |
| 40                            | 1½                                                      | 18  | 17.3 | 19.1  | 35   | 120 | 55  |
| 50                            | 2                                                       | 24  | 17.6 | 23.4  | 45   | 150 | 70  |
| 65                            | 2½                                                      | 26  | 23.7 | 26.7  | 57   | 185 | 85  |
| 80                            | 3                                                       | 28  | –    | –     | 71   | 220 | 100 |

4.3. Body with welded connection

**Note:**  
Dimensions in mm, unless otherwise stated

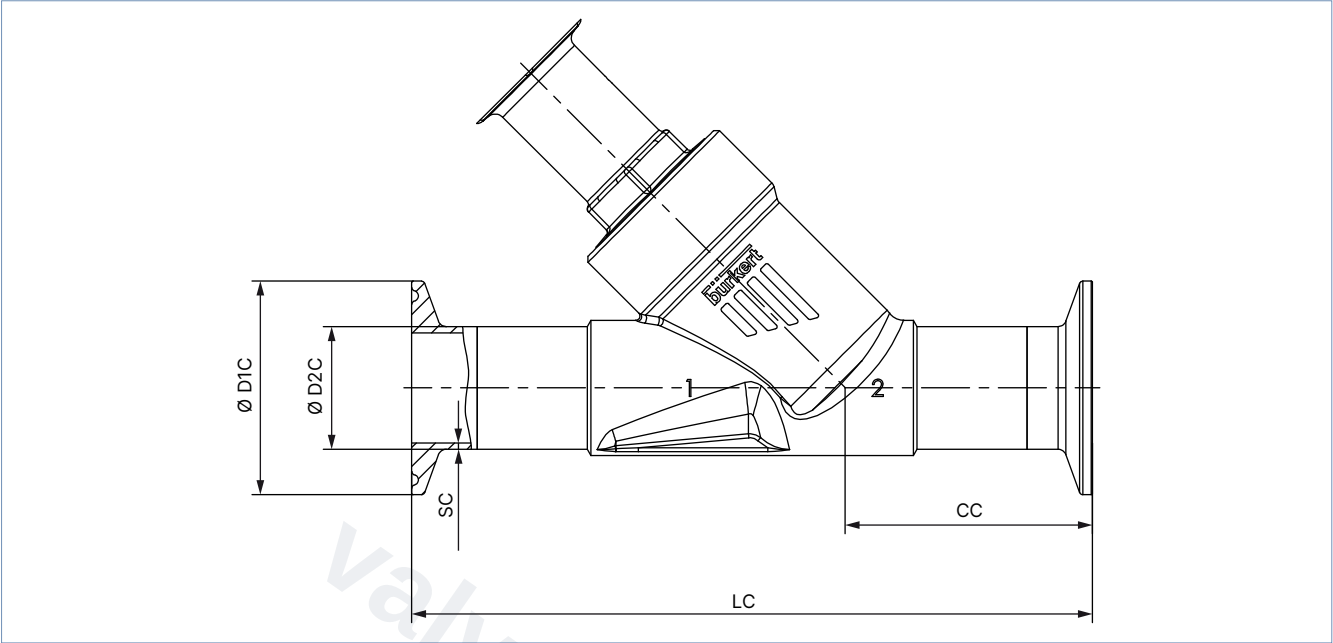


| Nominal diameter<br>(pipe) | DIN EN ISO 1127<br>ISO 4200<br>DIN 11866 series B |      |     |      |     | DIN 11850 - 2<br>DIN 11866 series A |      |     |      |     |
|----------------------------|---------------------------------------------------|------|-----|------|-----|-------------------------------------|------|-----|------|-----|
|                            | ES                                                | CS   | LS  | Ø DS | WS  | ES                                  | CS   | LS  | Ø DS | WS  |
| 15                         | 19                                                | 34   | 100 | 21.3 | 1.6 | 19                                  | 34   | 100 | 19   | 1.5 |
| 20                         | 20                                                | 39   | 115 | 26.9 | 1.6 | 20                                  | 39   | 115 | 23   | 1.5 |
| 25                         | 26                                                | 43   | 130 | 33.7 | 2.0 | 26                                  | 43   | 130 | 29   | 1.5 |
| 32                         | 26                                                | 45   | 145 | 42.4 | 2.0 | 26                                  | 45   | 145 | 35   | 1.5 |
| 40                         | 26                                                | 49   | 160 | 48.3 | 2.0 | 26                                  | 49   | 160 | 41   | 1.5 |
| 50                         | 26                                                | 50   | 175 | 60.3 | 2.0 | 26                                  | 50   | 175 | 53   | 1.5 |
| 65                         | 26                                                | 50   | 210 | 76.1 | 2.3 | 26                                  | 50   | 210 | 70   | 2   |
| 80                         | 26                                                | 88.5 | 266 | 88.9 | 2.3 | 26                                  | 88.5 | 266 | 85   | 2   |

| Nominal diameter<br>(pipe) | ASME BPE DIN 11866 series C |      |     |       |      |
|----------------------------|-----------------------------|------|-----|-------|------|
| NPS                        | ES                          | CS   | LS  | Ø DS  | WS   |
| 1/2                        | 30                          | 46   | 135 | 12.7  | 1.65 |
| 3/4                        | 30                          | 52   | 145 | 19.05 | 1.65 |
| 1                          | 30                          | 51   | 152 | 25.4  | 1.65 |
| 1 1/2                      | 30                          | 60   | 182 | 38.1  | 1.65 |
| 2                          | 30                          | 64   | 210 | 50.8  | 1.65 |
| 2 1/2                      | 26                          | 56   | 230 | 63.5  | 1.65 |
| 3                          | 26                          | 88.5 | 266 | 76.2  | 1.65 |

4.4. Body with clamp connection

**Note:**  
Dimensions in mm, unless otherwise stated



| Nominal diameter<br>(pipe) | Clamp: DIN 32676 series B                                  |      |        |        |     | Clamp: DIN 32676 series A<br>(DN 15, similar to DIN 32676 series B) |      |        |        |     |
|----------------------------|------------------------------------------------------------|------|--------|--------|-----|---------------------------------------------------------------------|------|--------|--------|-----|
|                            | Pipe:<br>DIN EN ISO 1127<br>ISO 4200<br>DIN 11866 series B |      |        |        |     | Pipe:<br>DIN 11850 - 2<br>DIN 11866 series A                        |      |        |        |     |
| DN                         | LC                                                         | CC   | Ø D1 C | Ø D2 C | SC  | LC                                                                  | CC   | Ø D1 C | Ø D2 C | SC  |
| 15                         | 156                                                        | 49.0 | 50.5   | 21.3   | 1.6 | 130                                                                 | 49.5 | 34.0   | 19     | 1.5 |
| 20                         | 150                                                        | 56.5 | 50.5   | 26.9   | 1.6 | 150                                                                 | 57.0 | 34.0   | 23     | 1.5 |
| 25                         | 160                                                        | 58.0 | 50.5   | 33.7   | 2.0 | 160                                                                 | 58.5 | 50.5   | 29     | 1.5 |
| 32                         | 200                                                        | 57.5 | 50.5   | 42.4   | 2.0 | 180                                                                 | 58.0 | 50.5   | 35     | 1.5 |
| 40                         | 200                                                        | 69.0 | 64.0   | 48.3   | 2.0 | 200                                                                 | 69.5 | 50.5   | 41     | 1.5 |
| 50                         | 230                                                        | 77.5 | 77.5   | 60.3   | 2.6 | 230                                                                 | 78.0 | 64.0   | 53     | 1.5 |

| Nominal diameter<br>(pipe) | Clamp: ASME BPE                         |      |        |        |      |
|----------------------------|-----------------------------------------|------|--------|--------|------|
|                            | Pipe:<br>ASME BPE<br>DIN 11866 series C |      |        |        |      |
| NPS                        | LC                                      | CC   | Ø D1 C | Ø D2 C | SC   |
| 1/2                        | 130                                     | 49.0 | 25.0   | 12.7   | 1.65 |
| 3/4                        | 150                                     | 56.5 | 25.0   | 19.05  | 1.65 |
| 1                          | 160                                     | 58.0 | 50.5   | 25.4   | 1.65 |
| 1 1/2                      | 200                                     | 69.0 | 50.5   | 38.1   | 1.65 |
| 2                          | 230                                     | 77.5 | 64.0   | 50.8   | 1.65 |

## 5. Performance specifications

### 5.1. Fluidic data

#### Overview of fluidic data for flow below seat (for liquids, steam and gases)

##### Note:

- $K_v$  value [ $m^3/h$ ]: measurement with water according to DIN EN 60534 - 2 - 4
- Seat leakage leakage rate A according to DIN EN 12266 - 1
- See ["7.2. Bürkert product filter" on page 15](#)
- Select the corresponding table according to the selected or required body.

#### Pipe threaded connection G, NPT, and RC

| Nominal diameter<br>(pipe connection) |       | Seat size | Handwheel diameter Ø | $K_v$ value wather | Operating pressure max.  |                            |
|---------------------------------------|-------|-----------|----------------------|--------------------|--------------------------|----------------------------|
|                                       |       |           |                      |                    | Valve seat seal          |                            |
| DN                                    | NPS   |           | [mm]                 | [ $m^3/h$ ]        | PTFE<br>[bar(g)]         | PEEK<br>[bar(g)]           |
| 8                                     | 1/4   | 15        | 45 (S)               | 2.6                | 25                       | 25                         |
| 10                                    | 3/8   |           |                      | 5.4                | 25                       | 25                         |
| 15                                    | 1/2   |           |                      | 5.4                | 25                       | 25                         |
| 20                                    | 3/4   | 20        | 110 (M)              | 11                 | 25                       | 25                         |
| 25                                    | 1     | 25        |                      | 20                 | 25                       | 25                         |
| 32                                    | 1 1/4 | 32        |                      | 30                 | 25                       | 25                         |
| 40                                    | 1 1/2 | 40        | 160 (L)              | 40                 | 16                       | 12.8                       |
| 50                                    | 2     | 50        |                      | 40                 | 25                       | 25                         |
| 65                                    | 2 1/2 | 65        |                      | 55                 | 25 (20 <sup>1)</sup> )   | 20                         |
| 80                                    | 3     | 80        | 140                  | 91                 | 24 (15 <sup>1)</sup> )   | 19 (15 <sup>1)</sup> )     |
|                                       |       |           |                      | 140                | 16 (12.5 <sup>1)</sup> ) | 12.8 (12.5 <sup>1)</sup> ) |

1.) In accordance with Pressure Equipment Directive 2014/68/EU for compressible fluids in Group 1 (dangerous gases and vapors in accordance with Article 4, Paragraph (1), c), i), first indent)

#### Welded connection DIN 11850 Series 2, DIN 11866 Series A, DIN EN 10357 Series A

| Nominal diameter<br>(pipe connection) |       | Seat size | Handwheel diameter Ø | $K_v$ value wather | Operating pressure max.  |                            |
|---------------------------------------|-------|-----------|----------------------|--------------------|--------------------------|----------------------------|
|                                       |       |           |                      |                    | Valve seat seal          |                            |
| DN                                    | NPS   |           | [mm]                 | [ $m^3/h$ ]        | PTFE<br>[bar(g)]         | PEEK<br>[bar(g)]           |
| 10                                    | 3/8   | 15        | 45 (S)               | 2.5                | 25                       | 25                         |
| 15                                    | 1/2   |           |                      | 5.4                | 25                       | 25                         |
| 20                                    | 3/4   | 20        | 110 (M)              | 11                 | 25                       | 25                         |
| 25                                    | 1     | 25        |                      | 18                 | 25                       | 25                         |
| 32                                    | 1 1/4 | 32        |                      | 26                 | 25                       | 25                         |
| 40                                    | 1 1/2 | 40        | 160 (L)              | 35                 | 16                       | 12.8                       |
| 50                                    | 2     | 50        |                      | 35                 | 25                       | 25                         |
| 65                                    | 2 1/2 | 65        |                      | 55                 | 25 (20 <sup>1)</sup> )   | 20                         |
| 80                                    | 3     | 80        | 140                  | 91                 | 24 (15 <sup>1)</sup> )   | 19 (15 <sup>1)</sup> )     |
|                                       |       |           |                      | 140                | 16 (12.5 <sup>1)</sup> ) | 12.8 (12.5 <sup>1)</sup> ) |

1.) In accordance with Pressure Equipment Directive 2014/68/EU for compressible fluids in Group 1 (dangerous gases and vapors in accordance with Article 4, Paragraph (1), c), i), first indent)

**Welded connection ISO 4200, DIN EN ISO 1127, DIN 11866 Series B / Flange DIN EN 1092 - 1 (PN 25)**

| Nominal diameter<br>(pipe connection) |     | Seat size | Handwheel diameter Ø | K <sub>v</sub> value wather | Operating pressure max.  |                            |
|---------------------------------------|-----|-----------|----------------------|-----------------------------|--------------------------|----------------------------|
|                                       |     |           |                      |                             | Valve seat seal          |                            |
| OD [mm]                               | NPS |           | [mm]                 | [m³/h]                      | PTFE                     | PEEK                       |
|                                       |     |           |                      |                             | [bar(g)]                 | [bar(g)]                   |
| 13.5                                  | -   | 15        | 45 (S)               | 2.5                         | 25                       | 25                         |
| 17.2                                  |     |           |                      | 5.4                         | 25                       | 25                         |
| 21.3                                  |     |           |                      | 5.4                         | 25                       | 25                         |
| 26.9                                  |     |           |                      | 11                          | 25                       | 25                         |
| 33.7                                  |     | 20        | 110 (M)              | 20                          | 25                       | 25                         |
| 42.4                                  |     | 25        |                      | 30                          | 25                       | 25                         |
| 48.3                                  |     | 32        |                      | 40                          | 16                       | 12.8                       |
| 60.3                                  |     | 40        |                      | 40                          | 25                       | 25                         |
| 76.1                                  |     | 50        | 160 (L)              | 55                          | 25 (20 <sup>1)</sup> )   | 20                         |
| 88.9                                  |     | 65        |                      | 91                          | 24 (15 <sup>1)</sup> )   | 19 (15 <sup>1)</sup> )     |
|                                       |     | 80        |                      | 140                         | 16 (12.5 <sup>1)</sup> ) | 12.8 (12.5 <sup>1)</sup> ) |

1.) In accordance with Pressure Equipment Directive 2014/68/EU for compressible fluids in Group 1 (dangerous gases and vapors in accordance with Article 4, Paragraph (1), c), i), first indent)

**Welded connection ASME BPE, DIN 11866 Series C / Clamp connection according to ASME BPE**

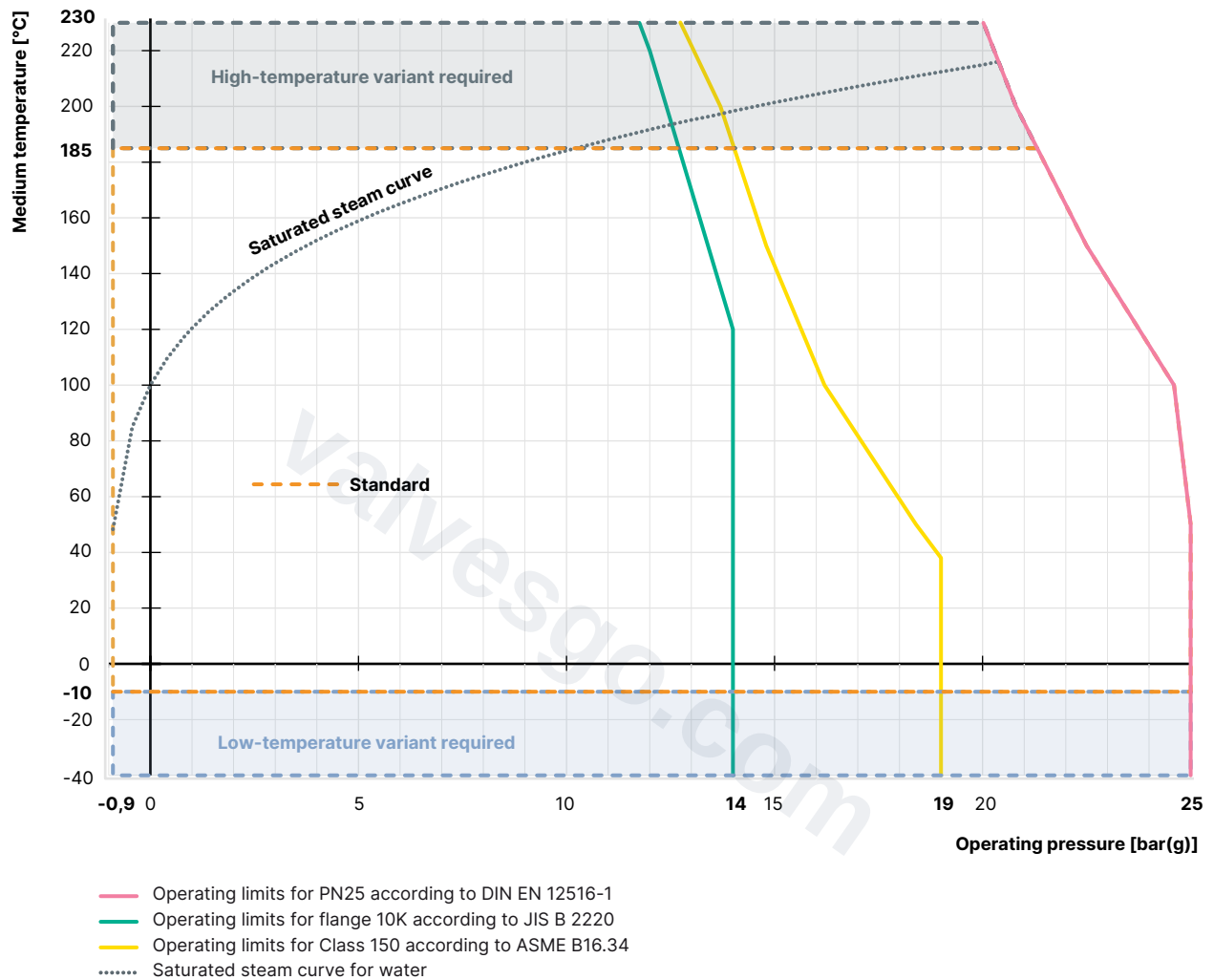
| Nominal diameter<br>(pipe connection) |       | Seat size | Handwheel diameter Ø | K <sub>v</sub> value wather | Operating pressure max.  |                            |
|---------------------------------------|-------|-----------|----------------------|-----------------------------|--------------------------|----------------------------|
|                                       |       |           |                      |                             | Valve seat seal          |                            |
| DN                                    | NPS   |           | [mm]                 | [m³/h]                      | PTFE                     | PEEK                       |
|                                       |       |           |                      |                             | [bar(g)]                 | [bar(g)]                   |
| 15                                    | 1/2   | 15        | 45 (S)               | 1.6                         | 25                       | 25                         |
| 20                                    | 3/4   | 20        |                      | 9.4                         | 25                       | 25                         |
| 25                                    | 1     | 25        |                      | 16                          | 25                       | 25                         |
| 40                                    | 1 1/2 | 40        |                      | 35                          | 16                       | 12.8                       |
|                                       |       |           | 110 (M)              | 35                          | 25                       | 25                         |
| 50                                    | 2     | 50        |                      | 55                          | 25 (20 <sup>1)</sup> )   | 20                         |
| 65                                    | 2 1/2 | 65        | 160 (L)              | 85                          | 24 (15 <sup>1)</sup> )   | 19 (15 <sup>1)</sup> )     |
| 80                                    | 3     |           |                      | 91                          | 24 (15 <sup>1)</sup> )   | 19 (15 <sup>1)</sup> )     |
| 80                                    | 3     | 80        |                      | 140                         | 16 (12.5 <sup>1)</sup> ) | 12.8 (12.5 <sup>1)</sup> ) |

1.) In accordance with Pressure Equipment Directive 2014/68/EU for compressible fluids in Group 1 (dangerous gases and vapors in accordance with Article 4, Paragraph (1), c), i), first indent)

## 5.2. Operating limits

### Operating limits for medium temperature and operating pressure

In addition to the maximum operating pressures, the operating range of Bürkert process valves is limited by the nominal pressure according to the relevant standard.



### Operating limits for optional variants

#### High-temperature variant

Thanks to an adaption of the spindle seal, this variant is suitable for applications with steam, neutral gases and other heat transfer mediums up to + 230 °C.

#### Water variant

For applications with water up to + 200 °C, a special configuration of the packing gland increases service life significantly. It is recommended for all water applications.

#### Drinking water variant

The materials comply with the assessment principles (UBA) for materials in contact with drinking water up to + 85 °C.

#### Low-temperature variant

Suitable for minimum medium temperatures down to - 40 °C

## 6. Product design and assembly

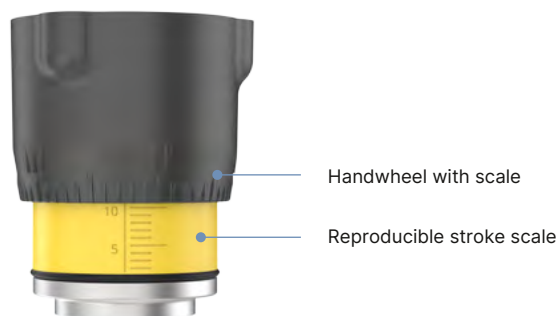
### 6.1. Product features

#### Note

Further information can be found in the **operating instructions Type 2920** ►.

#### Position indicator

When the valve is opened (turn the handwheel anti-clockwise), the yellow position indicator becomes visible.

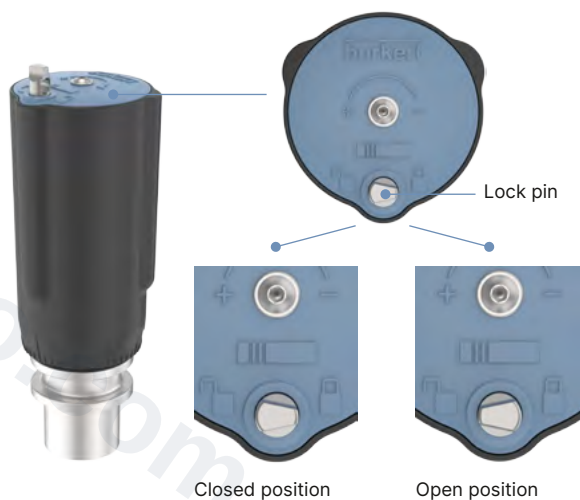


#### Interlock (optional)

The valve can be secured against unintentional or unauthorized operation.

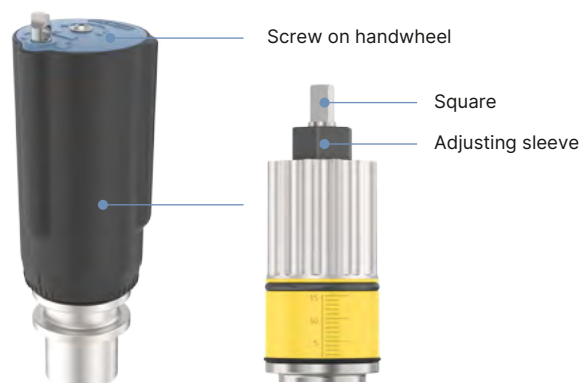
For this purpose, a securing pin can be pressed down and turned.

The locking pin has a hole (Ø 3.8) and can be secured with a padlock.



#### Stroke limitation (optional)

Both the minimum and the maximum position of the valve can be adjusted via an adjustment sleeve. The handwheel can be removed for this purpose.



7. Ordering information

7.1. 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](#)

7.2. Bürkert product filter



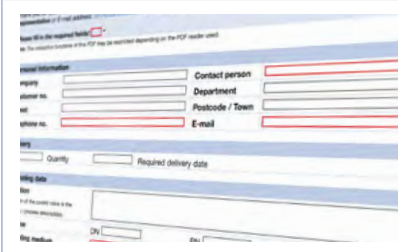
**Bürkert product filter – Get quickly to the right product**

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.

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7.3. Bürkert Product Enquiry Form

**Note:**  
Please see our Product Enquiry Form for a full explanation of our specification key.



**Bürkert Product Enquiry Form – Your enquiry quickly and compactly**

Would you like to make a specific product enquiry based on your technical requirements? Use our Product Enquiry Form for this purpose. There you will find all the relevant information for your Bürkert contact. This will enable us to provide you with the best possible advice.

[Fill out the form now](#)

7.4. Ordering chart accessories

Standard accessories

| Description                         | Article no. |
|-------------------------------------|-------------|
| 4-fold nylon lock with 3 mm shackle | 93719475    |