



## 2/2-way diaphragm valve with manually operated actuator (FullFunction)

- Valve body and diaphragm are available in different materials and variants
- Wetted surfaces from  $Ra \leq 0.38 \mu m \dots \leq 1.6 \mu m$  (optionally electropolished)
- Available in all common connection sizes and variants
- Integrated locking
- Minimum and maximum stroke limitation



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

### Can be combined with

|                                                                                     |                                                                                                                                 |   |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|---|
|   | <b>Type SV02</b><br>Diaphragms                                                                                                  | ► |
|  | <b>Type 2933</b><br>2/2-way diaphragm valve with manually operated actuator (basic)                                             | ► |
|  | <b>Type 2974</b><br>T-diaphragm valve with manually operated actuator (FullFunction)                                            | ► |
|  | <b>Type 2975</b><br>Tank bottom diaphragm valve with manually operated actuator (FullFunction)                                  | ► |
|  | <b>Type 2103</b><br>2/2-way diaphragm valve with pneumatic stainless steel actuator (Type ELEMENT) for decentralised automation | ► |
|  | <b>Type 8098</b><br>FLOWave SAW flowmeter                                                                                       | ► |

### Type description

The Type 2973 manually operated diaphragm valve consists of a manually operated actuator, a diaphragm and a 2-way body. The manual actuator with plastic handwheel ensures use in hygienic or aggressive ambient conditions. The flow-optimised valve body with minimum dead space enables high flow values and a wide range of possible applications. The valve body and the diaphragms are available in all common materials and variants. The actuator has a compact, autoclavable design and is compatible with all other Bürkert diaphragm valves. An explosion-proof ATEX/IECEx device variant is available. The manual actuator possesses a visual position indicator with reproducible stroke scale. The actuator also possesses an adjustable minimum and maximum stroke limitation and/or locking. The manual actuator can be optionally equipped with sensors for position feedback.

## Table of contents

|                                                                    |           |
|--------------------------------------------------------------------|-----------|
| <b>1. General technical data</b>                                   | <b>3</b>  |
| <b>2. Approvals and conformities</b>                               | <b>4</b>  |
| 2.1. General notes .....                                           | 4         |
| 2.2. Conformity .....                                              | 4         |
| 2.3. Standards .....                                               | 4         |
| 2.4. Explosion protection .....                                    | 4         |
| 2.5. Foods and beverages/Hygiene .....                             | 4         |
| 2.6. Others .....                                                  | 5         |
| <b>3. Materials</b>                                                | <b>6</b>  |
| 3.1. Bürkert resistApp .....                                       | 6         |
| 3.2. Material specifications .....                                 | 6         |
| 3.3. Example of available diaphragm materials .....                | 7         |
| <b>4. Dimensions</b>                                               | <b>8</b>  |
| 4.1. Manual actuator .....                                         | 8         |
| Diaphragm size 15...25 .....                                       | 8         |
| Diaphragm size 32...50 .....                                       | 9         |
| 4.2. Forged steel valve body (VS) with welded connection .....     | 10        |
| 4.3. Forged steel valve body (VS) with clamp connection .....      | 11        |
| 4.4. Tube valve body (VP) with welded connection .....             | 12        |
| 4.5. Tube valve body (VP) with clamp connection .....              | 13        |
| 4.6. Tube valve body (VP) with threaded connection .....           | 14        |
| 4.7. Tube valve body (VP) with flange connection .....             | 15        |
| 4.8. Cast valve body (VG) with welded connection .....             | 16        |
| 4.9. Cast valve body (VG) with clamp connection .....              | 18        |
| 4.10. Plastic valve body (PV, PP, PD) with spigot connection ..... | 19        |
| 4.11. Plastic valve body (PW, PV, PP, PD) with true union .....    | 21        |
| 4.12. Plastic valve body (PV, PP, PD) with flange connection ..... | 24        |
| <b>5. Performance specifications</b>                               | <b>26</b> |
| 5.1. Flow characteristics .....                                    | 26        |
| Forged steel valve body (VS) .....                                 | 26        |
| Tube valve body (VP) .....                                         | 26        |
| Cast valve body (VG) .....                                         | 26        |
| Plastic valve body (PW, PV, PP, PD) .....                          | 27        |
| 5.2. Medium pressure .....                                         | 27        |
| 5.3. Pressure temperature diagram for plastic body .....           | 28        |
| <b>6. Ordering information</b>                                     | <b>29</b> |
| 6.1. Bürkert eShop .....                                           | 29        |
| 6.2. Bürkert product filter .....                                  | 29        |
| 6.3. Bürkert Product Enquiry Form .....                            | 29        |

## 1. General technical data

| Product properties                                                |                                                                                                                                                                                                                                                                   |
|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dimensions                                                        | Further information can be found in chapter "4. Dimensions" on page 8.                                                                                                                                                                                            |
| <b>Material<sup>1.)</sup></b>                                     |                                                                                                                                                                                                                                                                   |
| Forged steel valve body (VS) <sup>1.)</sup>                       | Forged stainless steel 1.4435 in accordance with BN2 DIN EN 10222 - 5, F316L in accordance with to ASTM, A182/A182M and 316L in accordance with to ASME BPE                                                                                                       |
| Tube valve body (VP) <sup>1.)</sup>                               | Stainless steel tube 1.4435-BN2 / UNS S31603 (316L) according to DIN 11866, ASTM A269 / A270, DIN EN 10217 - 7 / 10216 - 5                                                                                                                                        |
| Cast valve body (VG) <sup>1.)</sup>                               | Stainless steel precision casting 1.4435 / 316L                                                                                                                                                                                                                   |
| Plastic valve body (PW, PV, PP, PD) <sup>1.)</sup>                | PVC-C, PVC-U, PP, PVDF                                                                                                                                                                                                                                            |
| Diaphragm                                                         | EPDM (AD) <sup>1.)</sup> , PTFE/EPDM (EA) <sup>1.)</sup> , Advanced PTFE/EPDM (EU) <sup>1.)</sup> , laminate of GYLON® and EPDM (ER) <sup>1.)</sup>                                                                                                               |
| Actuator (diaphragm bonnet/handwheel)                             | Stainless steel/PPS                                                                                                                                                                                                                                               |
| Diaphragm size                                                    | 15...50 (65...100 see <b>Type 3232</b> ▶ and <b>Type 3233</b> ▶)                                                                                                                                                                                                  |
| <b>Standard surface quality<sup>2.)</sup></b>                     |                                                                                                                                                                                                                                                                   |
| Forged steel valve body (VS) <sup>1.)</sup>                       | Internally electrically polished: Ra ≤ 0.38 µm (NO17) <sup>1.)</sup> (ASME BPE SF4 / DIN HE4) (externally forged surface electrically polished)<br>Internally mechanically polished: Ra ≤ 0.5 µm (NO14) <sup>1.)</sup> (ASME BPE SF1) (externally forged surface) |
| Tube valve body (VP) <sup>1.)</sup>                               | Internally electrically polished: Ra ≤ 0.38 µm (NO17) <sup>1.)</sup> (ASME BPE SF4 / DIN HE4) (externally electrically polished)<br>Internally glass bead blasted: Ra ≤ 1.6 µm (NO05) <sup>1.)</sup> (externally glass bead blasted (NO01) <sup>1.)</sup> )       |
| Cast valve body (VG) <sup>1.)</sup>                               | Internally electrically polished: Ra ≤ 0.6 µm (NO16) <sup>1.)</sup> (ASME BPE SF6) (externally cast surface electrically polished)<br>Internally mechanically polished: Ra ≤ 0.76 µm (NO06) <sup>1.)</sup> (ASME BPE SF3 / DIN H2) (externally cast surface)      |
| Medium data                                                       |                                                                                                                                                                                                                                                                   |
| Operating medium                                                  | Neutral gases and liquids, highly purified, sterile, aggressive or abrasive mediums (see <b>resistance chart</b> ▶)                                                                                                                                               |
| <b>Medium temperature</b>                                         |                                                                                                                                                                                                                                                                   |
| EPDM (AD) <sup>1.)</sup>                                          | - 10...+ 143 °C (steam sterilisation + 150 °C for 60 min)                                                                                                                                                                                                         |
| PTFE/EPDM (EA) <sup>1.)</sup>                                     | - 10...+ 130 °C (steam sterilisation + 140 °C for 60 min)                                                                                                                                                                                                         |
| Advanced PTFE/EPDM (EU) <sup>1.)</sup>                            | - 5...+ 143 °C (steam sterilisation + 150 °C for 60 min)                                                                                                                                                                                                          |
| Laminate of GYLON® and EPDM (ER) <sup>1.)</sup>                   | - 5...+ 130 °C (steam sterilisation + 140 °C for 60 min)                                                                                                                                                                                                          |
| Product connections                                               |                                                                                                                                                                                                                                                                   |
| <b>Port connection<sup>2.)</sup></b>                              |                                                                                                                                                                                                                                                                   |
| Nominal diameter                                                  | DN 08...DN 65 (¼"...2 ½")                                                                                                                                                                                                                                         |
| <b>Stainless steel valve body<sup>3.)</sup></b>                   |                                                                                                                                                                                                                                                                   |
| Welded connection <sup>2.)</sup>                                  | DIN EN ISO 1127 / ISO 4200 / DIN 11866 series B<br>DIN 11850 - 2 / DIN 11866 series A / DIN EN 10357 series A<br>ASME BPE / DIN 11866 series C                                                                                                                    |
| Clamp connection <sup>2.)</sup>                                   | DIN 32676 series A (DIN pipe)<br>DIN 32676 series B (ISO pipe)<br>ASME BPE                                                                                                                                                                                        |
| Environment and installation                                      |                                                                                                                                                                                                                                                                   |
| Installation position                                             | See <b>operating instructions Type 2973</b> ▶                                                                                                                                                                                                                     |
| <b>Ambient temperature: actuator (diaphragm bonnet/handwheel)</b> |                                                                                                                                                                                                                                                                   |
| Stainless steel/PPS                                               | - 10...+ 130 °C (short-term up to + 150 °C), autoclavable                                                                                                                                                                                                         |

1.) This information is part of the product key (see "6.3. Bürkert Product Enquiry Form" on page 29).

2.) Further variants are available on request.

3.) Tube valve body (VP) also available with flange and threaded connections

## 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.

### 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 IIC 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 IIC T135 °C...T300 °C Db</p> <table><tr><th>Temperature class</th><th>T2</th><th>T3</th><th>T4</th></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...+ 130 °C</td><td>- 40...+ 130 °C</td><td>- 40...+ 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...+ 130 °C | - 40...+ 130 °C | - 40...+ 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...+ 130 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | - 40...+ 130 °C   | - 40...+ 100 °C |    |    |                             |          |          |          |                     |                 |                 |                 |                            |          |          |          |
| Maximum medium temperature                                                                                                                                                | + 285 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | + 185 °C          | + 125 °C        |    |    |                             |          |          |          |                     |                 |                 |                 |                            |          |          |          |

### 2.5. Foods and beverages/Hygiene

| Conformity                                                                          | Description                                                                                                                                                                                                                                                                                    |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FDA                                                                                 | <p><b>FDA – Code of Federal Regulations</b><br/>The diaphragms made of EPDM (AD), PTFE/EPDM (EA), Advanced PTFE/EPDM (EU) and laminate of GYLON® and EPDM (ER) comply with the Code of Federal Regulations published by the FDA (Food and Drug Administration, USA).</p>                       |
| USP                                                                                 | <p><b>United States Pharmacopeial Convention (USP)</b><br/>The diaphragms made of EPDM (AD), PTFE/EPDM (EA), Advanced PTFE/EPDM (EU) and laminate of GYLON® and EPDM (ER) are tested according to USP Class VI.</p>                                                                            |
|  | <p><b>EC Regulation 1935/2004 of the European Parliament and of the Council</b><br/>The diaphragms made of EPDM (AD), PTFE/EPDM (EA), Advanced PTFE/EPDM (EU) and laminate of GYLON® and EPDM (ER) are suitable for use with food and beverages (according to EC Regulation 1935/2004/EC).</p> |

2.6. Others

| Approval | Description                                                                     |
|----------|---------------------------------------------------------------------------------|
| TA Luft  | Technical instruction on air quality control (valid for the variable code PM01) |

DTS 1000597497 EN Version: D Status: RL (released | freigegeben | valide) printed: 01.06.2026

3. Materials

3.1. Bürkert resistApp



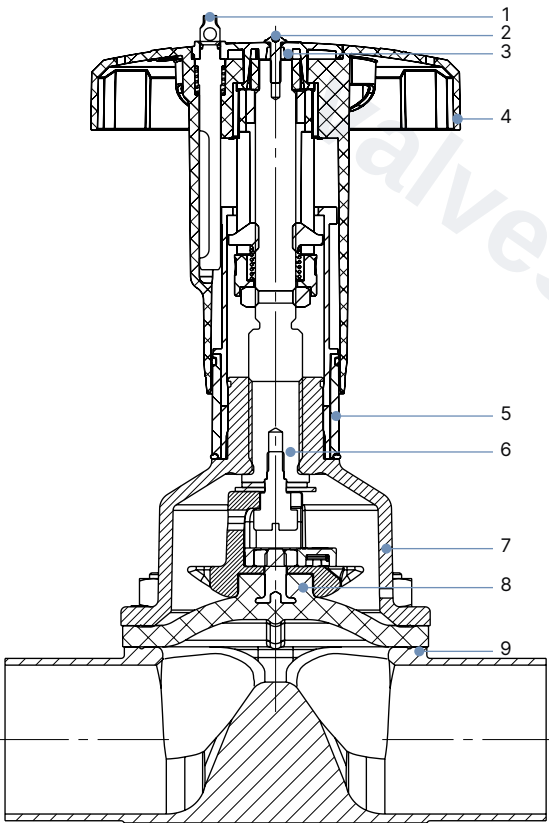
**Bürkert resistApp – Chemical resistance chart**

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

**Note:**  
Your product variant may differ from this illustration depending on the body and interface options.



| No. | Element                   | Material                                                                                   |
|-----|---------------------------|--------------------------------------------------------------------------------------------|
| 1   | Lock pin                  | Stainless steel 1.4305                                                                     |
| 2   | Screw                     | Stainless steel A2                                                                         |
| 3   | Handwheel cover           | Polyamide (PA)                                                                             |
| 4   | Handwheel                 | Polyphenylene sulphide (PPS)                                                               |
| 5   | Visual position indicator | Polyamide (PA)                                                                             |
| 6   | Valve spindle             | Stainless steel 1.4305                                                                     |
| 7   | Diaphragm socket          | Stainless steel 1.4308                                                                     |
| 8   | Diaphragm                 | EPDM (AD), PTFE/EPDM (EA),<br>Advanced PTFE/EPDM (EU),<br>Laminate of GYLON® and EPDM (ER) |
| 9   | Valve body                | See "1. General technical data" on<br>page 3.                                              |

### 3.3. Example of available diaphragm materials

The diaphragms have been developed to meet the unique challenges of hygienic and sterile requirements. Bürkert offers diaphragms with precise material composition and high accuracy. Bürkert diaphragms are available in a wide range of materials which have been tested and proven in applications in the food and beverage, biotechnology, pharmaceutical and cosmetics industries. Diaphragms are tested during development and production to ensure reliability under difficult process conditions.



- EPDM (AD)
- PTFE/EPDM (EA)
- Advanced PTFE/EPDM (EU)
- Laminate of GYLON® and EPDM (ER)

Further information can be found in our flyer "Diaphragm competence for hygienic applications" on our **website** ►.

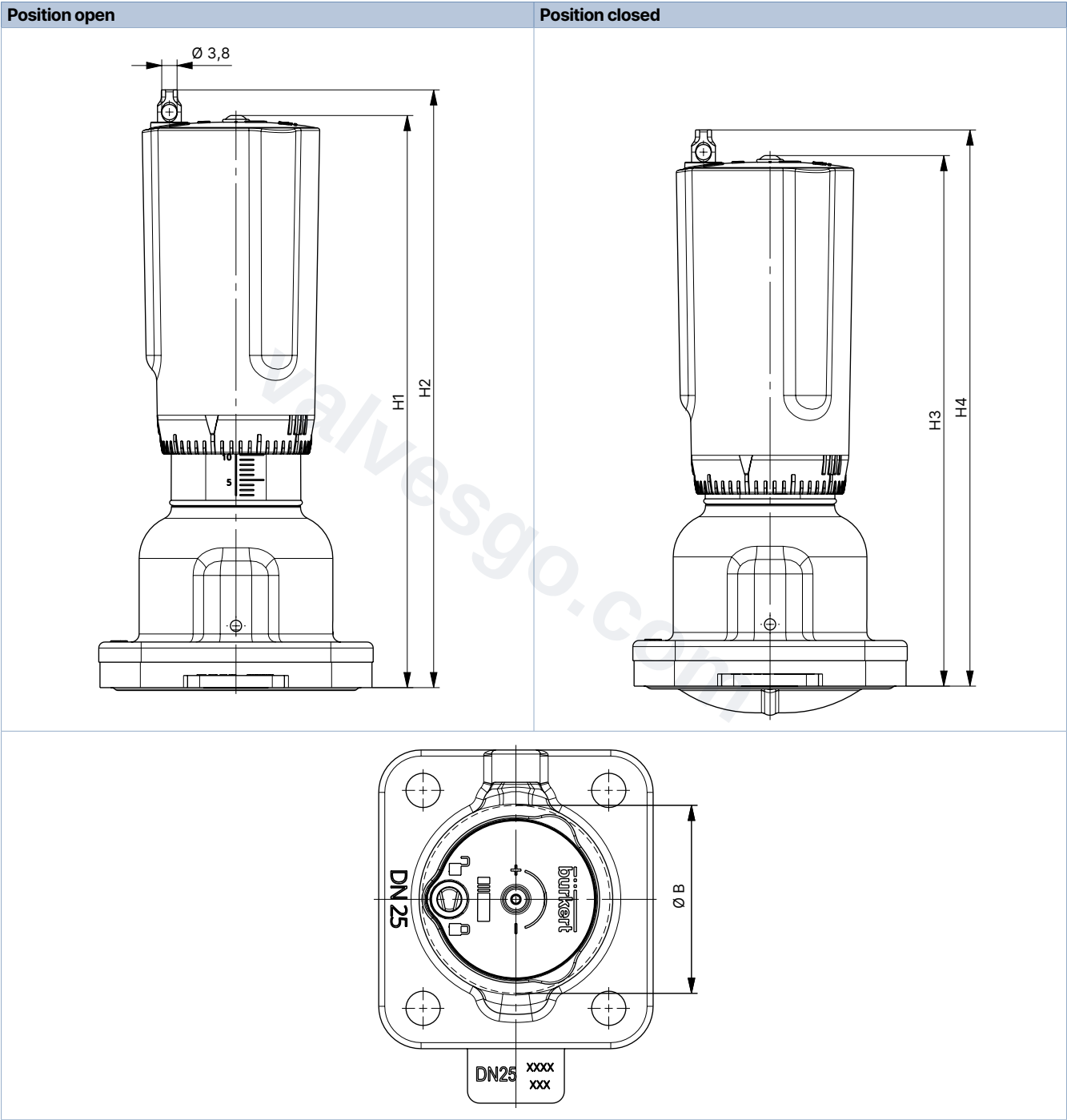
4. Dimensions

4.1. Manual actuator

Diaphragm size 15...25

Note:

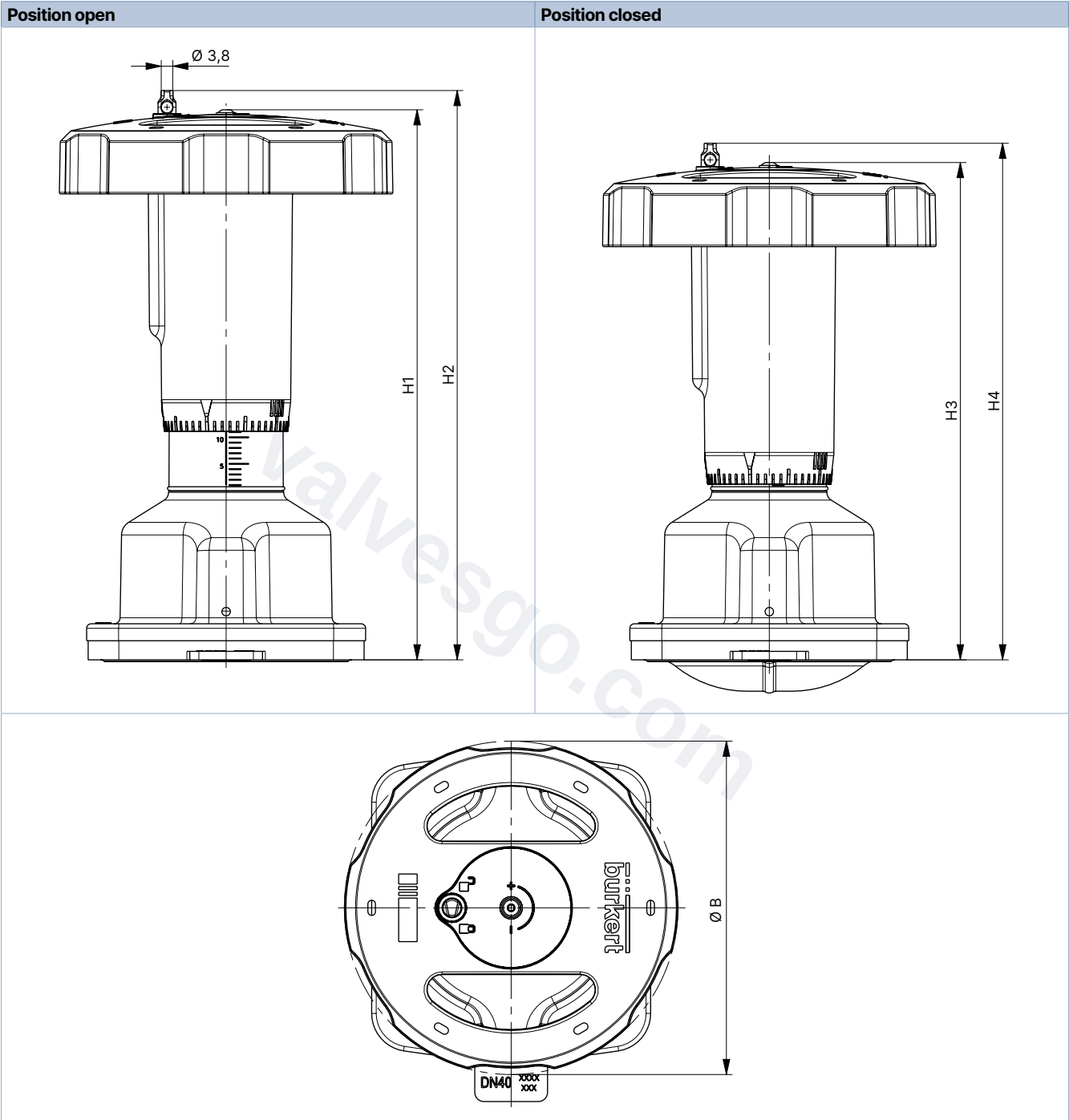
Dimensions in mm, unless otherwise stated



| Diaphragm size | H1  | H2  | H3  | H4  | Ø B |
|----------------|-----|-----|-----|-----|-----|
| 15             | 127 | 133 | 121 | 127 | 45  |
| 20             | 138 | 144 | 129 | 135 | 45  |
| 25             | 143 | 149 | 133 | 139 | 45  |

Diaphragm size 32...50

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

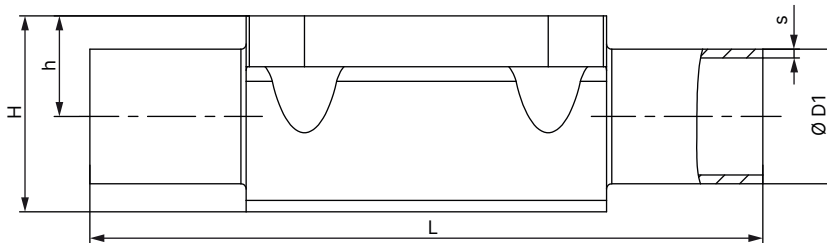


| Diaphragm size | H1  | H2  | H3  | H4  | Ø B |
|----------------|-----|-----|-----|-----|-----|
| 32             | 177 | 183 | 163 | 169 | 110 |
| 40             | 182 | 188 | 164 | 170 | 110 |
| 50             | 197 | 203 | 173 | 179 | 110 |

#### 4.2. Forged steel valve body (VS) with welded connection

**Note:**

- Dimensions in mm, unless otherwise stated
- Further information on the drainage angle can be found in the "Supplementary instructions Type 2xxx 3xxx" on our website (see **operating instructions Type 2973** ►).



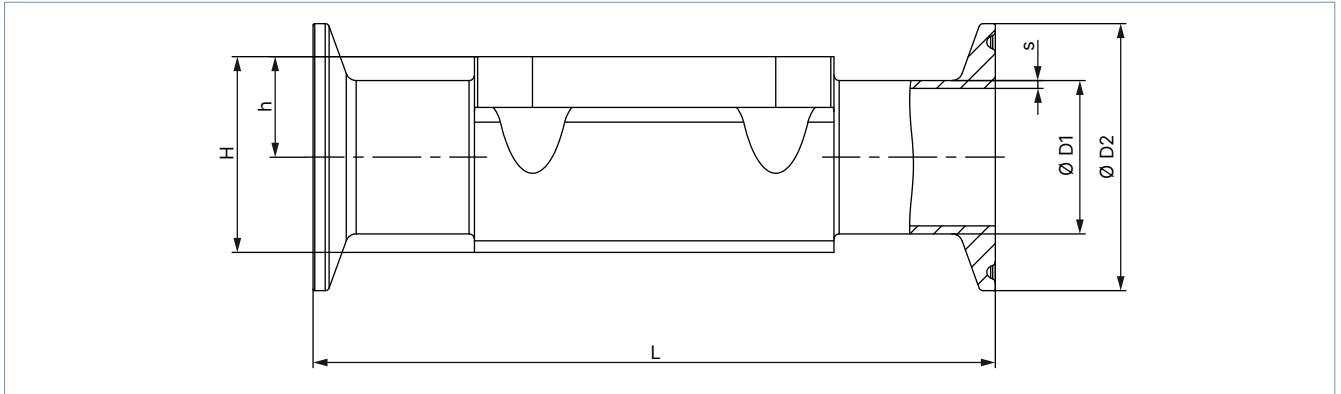
| Diaphragm size                                                    | Port connection DN | Ø D1  | s    | L   | h     | H     | Product key <sup>1)</sup> |
|-------------------------------------------------------------------|--------------------|-------|------|-----|-------|-------|---------------------------|
| <b>DIN EN ISO 1127 / ISO 4200 / DIN 11866 series B</b>            |                    |       |      |     |       |       |                           |
| 15                                                                | 8                  | 13.5  | 1.6  | 108 | 8.15  | 19.85 | SA40                      |
| 15                                                                | 10                 | 17.2  | 1.6  | 110 | 12.05 | 23.75 | SA41                      |
| 15                                                                | 15                 | 21.3  | 1.6  | 110 | 12.05 | 23.75 | SA42                      |
| 20                                                                | 15                 | 21.3  | 1.6  | 119 | 16    | 30.3  | SA42                      |
| 20                                                                | 20                 | 26.9  | 1.6  | 119 | 16    | 30.3  | SA43                      |
| 25                                                                | 20                 | 26.9  | 1.6  | 119 | 19    | 37    | SA43                      |
| 25                                                                | 25                 | 33.7  | 2.0  | 129 | 19    | 37    | SA44                      |
| 40                                                                | 25                 | 33.7  | 2.0  | 161 | 27.6  | 52.4  | SA44                      |
| 40                                                                | 32                 | 42.4  | 2.0  | 161 | 27.6  | 52.4  | SA45                      |
| 40                                                                | 40                 | 48.3  | 2.0  | 161 | 27.6  | 52.4  | SA46                      |
| 50                                                                | 50                 | 60.3  | 2.0  | 192 | 35.5  | 68.3  | SA47                      |
| <b>DIN 11850 - 2 / DIN 11866 series A / DIN EN 10357 series A</b> |                    |       |      |     |       |       |                           |
| 15                                                                | 10                 | 13    | 1.5  | 110 | 8.15  | 19.85 | SD40                      |
| 15                                                                | 15                 | 19    | 1.5  | 110 | 12.05 | 23.75 | SD42                      |
| 20                                                                | 20                 | 23    | 1.5  | 119 | 16.0  | 30.3  | SD43                      |
| 25                                                                | 25                 | 29    | 1.5  | 129 | 19.0  | 37.0  | SD44                      |
| 40                                                                | 32                 | 35    | 1.5  | 161 | 27.6  | 52.4  | SD45                      |
| 40                                                                | 40                 | 41    | 1.5  | 161 | 27.6  | 52.4  | SD46                      |
| 50                                                                | 50                 | 53    | 1.5  | 192 | 35.5  | 68.3  | SD47                      |
| <b>ASME BPE / DIN 11866 series C</b>                              |                    |       |      |     |       |       |                           |
| 15                                                                | ½"                 | 12.7  | 1.65 | 108 | 8.15  | 19.85 | SA92                      |
| 15                                                                | ¾"                 | 19.05 | 1.65 | 108 | 12.05 | 23.75 | SA93                      |
| 20                                                                | ¾"                 | 19.05 | 1.65 | 117 | 16.0  | 30.3  | SA93                      |
| 25                                                                | 1"                 | 25.4  | 1.65 | 127 | 19.0  | 37.0  | SODF                      |
| 40                                                                | 1½"                | 38.1  | 1.65 | 159 | 27.6  | 52.4  | SODH                      |
| 50                                                                | 2"                 | 50.8  | 1.65 | 190 | 35.5  | 68.3  | SODI                      |
| 50                                                                | 2½"                | 63.5  | 1.65 | 192 | 35.5  | 68.6  | SODJ                      |
| <b>BS 4825</b>                                                    |                    |       |      |     |       |       |                           |
| 15                                                                | 15                 | 12.7  | 1.20 | 108 | 8.15  | 19.85 | SODD                      |
| 20                                                                | 20                 | 19.05 | 1.20 | 117 | 16.0  | 30.3  | SODE                      |
| 25                                                                | 25                 | 25.4  | 1.65 | 127 | 19.0  | 37.0  | SODF                      |
| 40                                                                | 40                 | 38.1  | 1.65 | 159 | 27.6  | 52.4  | SODH                      |
| 50                                                                | 50                 | 50.8  | 1.65 | 190 | 35.5  | 68.3  | SODI                      |
| 50                                                                | 65                 | 63.5  | 1.65 | 192 | 35.5  | 68.6  | SODJ                      |
| <b>SMS 3008</b>                                                   |                    |       |      |     |       |       |                           |
| 25                                                                | 25                 | 25    | 1.2  | 129 | 19    | 37    | SA60                      |
| 40                                                                | 40                 | 38    | 1.2  | 161 | 27.6  | 52.4  | SA62                      |
| 50                                                                | 50                 | 51    | 1.2  | 192 | 35.5  | 68.3  | SA63                      |

1.) This information is part of the product key (see "6.3. Bürkert Product Enquiry Form" on page 29).

#### 4.3. Forged steel valve body (VS) with clamp connection

**Note:**

- Dimensions in mm, unless otherwise stated
- Further information on the drainage angle can be found in the "Supplementary instructions Type 2xxx 3xxx" on our website (see **operating instructions Type 2973** ►).



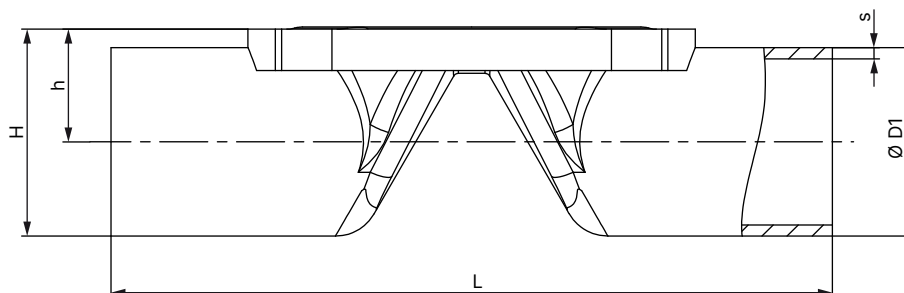
| Diaphragm size                       | Port connection DN | Ø D1  | s    | Ø D2 | L   | h     | H     | Product key <sup>1)</sup> | Variable code <sup>1)</sup> |
|--------------------------------------|--------------------|-------|------|------|-----|-------|-------|---------------------------|-----------------------------|
| <b>DIN 32676 series B (ISO pipe)</b> |                    |       |      |      |     |       |       |                           |                             |
| 15                                   | 15                 | 21.3  | 1.6  | 50.5 | 167 | 12.05 | 23.75 | TC52                      | –                           |
| 20                                   | 20                 | 26.9  | 1.6  | 50.5 | 114 | 16.0  | 30.3  | TC43                      | –                           |
| 25                                   | 25                 | 33.7  | 2    | 50.5 | 129 | 19    | 37    | TC44                      | –                           |
| 40                                   | 40                 | 48.3  | 2    | 64.0 | 161 | 27.6  | 52.4  | TC46                      | –                           |
| 50                                   | 50                 | 60.3  | 2    | 77.5 | 190 | 35.5  | 68.3  | TC47                      | –                           |
| <b>DIN 32676 series A (DIN pipe)</b> |                    |       |      |      |     |       |       |                           |                             |
| 15                                   | 10                 | 13    | 1.5  | 34.0 | 110 | 8.15  | 19.85 | TD41                      | –                           |
| 15                                   | 15                 | 19    | 1.5  | 34.0 | 110 | 12.05 | 23.75 | TD42                      | –                           |
| 20                                   | 20                 | 23    | 1.5  | 34.0 | 119 | 16    | 30.3  | TD43                      | –                           |
| 25                                   | 25                 | 29    | 1.5  | 50.5 | 129 | 19    | 37    | TD44                      | –                           |
| 40                                   | 40                 | 41    | 1.5  | 50.5 | 161 | 27.6  | 52.4  | TD46                      | –                           |
| 50                                   | 50                 | 53    | 1.5  | 64.0 | 192 | 35.5  | 68.3  | TD47                      | –                           |
| <b>ASME BPE</b>                      |                    |       |      |      |     |       |       |                           |                             |
| 15                                   | ½"                 | 12.7  | 1.65 | 25.0 | 89  | 8.15  | 19.85 | TG02                      | –                           |
| 15                                   | ½"                 | 12.7  | 1.65 | 25.0 | 108 | 8.15  | 19.85 | TG02                      | AF34                        |
| 15                                   | ¾"                 | 19.05 | 1.65 | 25.0 | 89  | 12.05 | 23.75 | TG03                      | –                           |
| 20                                   | ¾"                 | 19.05 | 1.65 | 25.0 | 102 | 16    | 30.3  | TG03                      | –                           |
| 20                                   | ¾"                 | 19.05 | 1.65 | 25.0 | 117 | 16    | 30.3  | TG03                      | AF34                        |
| 25                                   | 1"                 | 25.4  | 1.65 | 50.5 | 114 | 19    | 37    | TG04                      | –                           |
| 25                                   | 1"                 | 25.4  | 1.65 | 50.5 | 127 | 19    | 37    | TG04                      | AF34                        |
| 40                                   | 1½"                | 38.1  | 1.65 | 50.5 | 140 | 27.6  | 52.4  | TG05                      | –                           |
| 40                                   | 1½"                | 38.1  | 1.65 | 50.5 | 159 | 27.6  | 52.4  | TG05                      | AF34                        |
| 50                                   | 2"                 | 50.8  | 1.65 | 64.0 | 159 | 35.5  | 68.3  | TG06                      | –                           |
| 50                                   | 2"                 | 50.8  | 1.65 | 64.0 | 190 | 35.5  | 68.3  | TG06                      | AF34                        |

1.) This information is part of the product key (see "6.3. Bürkert Product Enquiry Form" on page 29).

#### 4.4. Tube valve body (VP) with welded connection

**Note:**

- Dimensions in mm, unless otherwise stated
- Further information on the drainage angle can be found in the "Supplementary instructions Type 2xxx 3xxx" on our website (see **operating instructions Type 2973** ►).



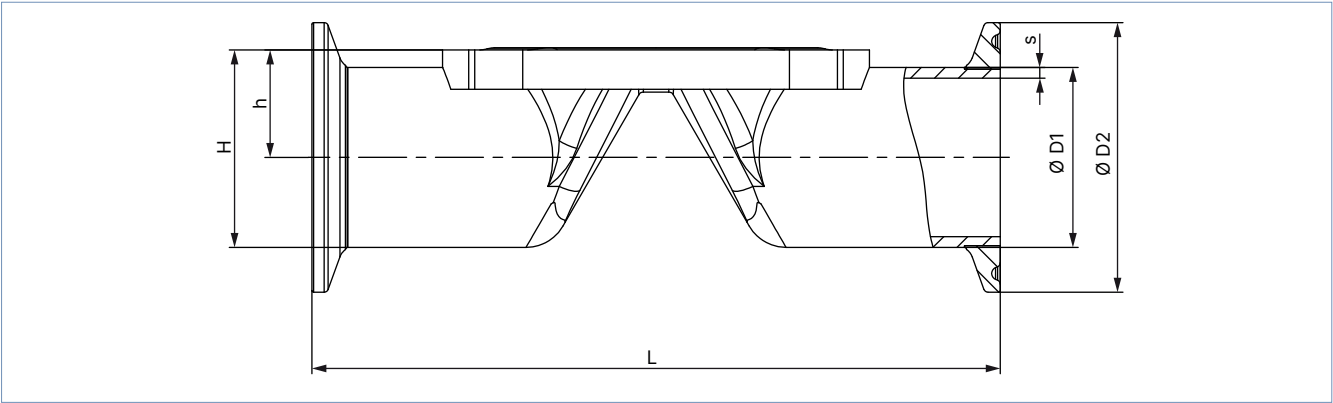
| Diaphragm size                                                    | Port connection DN | Ø D1  | s    | L     | h     | H     | Product key <sup>1.)</sup> |
|-------------------------------------------------------------------|--------------------|-------|------|-------|-------|-------|----------------------------|
| <b>DIN EN ISO 1127 / ISO 4200 / DIN 11866 series B</b>            |                    |       |      |       |       |       |                            |
| 15                                                                | 15                 | 21.3  | 1.6  | 110.0 | 14.35 | 25.0  | SA42                       |
| 20                                                                | 20                 | 26.9  | 1.6  | 119.0 | 17.15 | 30.45 | SA43                       |
| 25                                                                | 25                 | 33.7  | 2.0  | 129.0 | 20.55 | 37.4  | SA44                       |
| 32                                                                | 32                 | 42.4  | 2.0  | 148.0 | 25.10 | 46.3  | SA45                       |
| 40                                                                | 40                 | 48.3  | 2.0  | 161.0 | 29.35 | 53.5  | SA46                       |
| 50                                                                | 50                 | 60.3  | 2.0  | 192.0 | 35.35 | 65.50 | SA47                       |
| <b>DIN 11850 - 2 / DIN 11866 series A / DIN EN 10357 series A</b> |                    |       |      |       |       |       |                            |
| 15                                                                | 15                 | 19    | 1.5  | 110   | 13.20 | 22.70 | SD42                       |
| 15                                                                | 20                 | 23    | 1.5  | 119   | 15.20 | 26.70 | SD43                       |
| 20                                                                | 25                 | 29    | 1.5  | 129   | 18.20 | 32.70 | SD44                       |
| 25                                                                | 32                 | 35    | 1.5  | 148   | 21.20 | 38.70 | SD45                       |
| 32                                                                | 40                 | 41    | 1.5  | 161   | 24.40 | 44.90 | SD46                       |
| 40                                                                | 50                 | 53    | 1.5  | 192   | 31.70 | 58.20 | SD47                       |
| <b>ASME BPE / DIN 11866 series C</b>                              |                    |       |      |       |       |       |                            |
| 15                                                                | ¾"                 | 19.05 | 1.65 | 117.0 | 13.23 | 25.73 | SA93                       |
| 20                                                                | 1"                 | 25.4  | 1.65 | 127.0 | 16.40 | 41.65 | SODF                       |
| 32                                                                | 1½"                | 38.1  | 1.65 | 159.0 | 22.95 | 48.20 | SODH                       |
| 40                                                                | 2"                 | 50.8  | 1.65 | 190   | 30.60 | 62.60 | SODI                       |
| 50                                                                | 2½"                | 63.5  | 1.65 | 192   | 37.35 | 69.1  | SODJ                       |

1.) This information is part of the product key (see "6.3. Bürkert Product Enquiry Form" on page 29).

4.5. Tube valve body (VP) with clamp connection

Note:

- Dimensions in mm, unless otherwise stated
- Further information on the drainage angle can be found in the “Supplementary instructions Type 2xxx 3xxx” on our website (see **operating instructions Type 2973** ►).



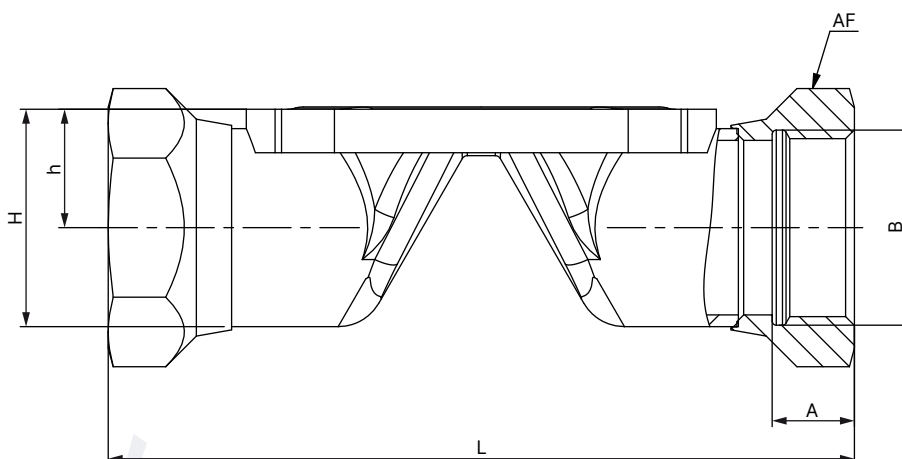
| Diaphragm size                | Port connection DN | Ø D1  | s    | Ø D2 | L   | h     | H     | Product key <sup>1)</sup> |
|-------------------------------|--------------------|-------|------|------|-----|-------|-------|---------------------------|
| DIN 32676 series B (ISO pipe) |                    |       |      |      |     |       |       |                           |
| 15                            | 15                 | 21.3  | 1.6  | 50.5 | 110 | 14.35 | 39.60 | TC52                      |
| 20                            | 20                 | 26.9  | 1.6  | 50.5 | 119 | 17.15 | 42.40 | TC43                      |
| 25                            | 25                 | 33.7  | 2.0  | 50.5 | 129 | 20.55 | 45.80 | TC44                      |
| 32                            | 32                 | 42.4  | 2.0  | 64.0 | 148 | 25.10 | 57.10 | TC55                      |
| 40                            | 40                 | 48.3  | 2.0  | 64.0 | 161 | 29.35 | 61.35 | TC46                      |
| 50                            | 50                 | 60.3  | 2.0  | 77.5 | 192 | 35.35 | 74.10 | TC47                      |
| DIN 32676 series A (DIN pipe) |                    |       |      |      |     |       |       |                           |
| 15                            | 15                 | 19.0  | 1.5  | 34.0 | 110 | 13.2  | 30.20 | TD42                      |
| 15                            | 20                 | 23.0  | 1.5  | 34.0 | 119 | 15.20 | 32.20 | TD43                      |
| 20                            | 25                 | 29.0  | 1.5  | 50.5 | 129 | 18.20 | 43.45 | TD44                      |
| 25                            | 32                 | 35.0  | 1.5  | 50.5 | 148 | 21.20 | 46.45 | TD45                      |
| 32                            | 40                 | 41.0  | 1.5  | 50.5 | 161 | 24.40 | 49.65 | TD46                      |
| 40                            | 50                 | 53.0  | 1.5  | 64.0 | 192 | 31.70 | 63.70 | TD47                      |
| ASME BPE                      |                    |       |      |      |     |       |       |                           |
| 15                            | ¾"                 | 19.05 | 1.65 | 25.0 | 102 | 13.20 | 25.73 | TG03                      |
| 20                            | 1"                 | 25.4  | 1.65 | 50.5 | 114 | 16.40 | 41.65 | TG04                      |
| 32                            | 1½"                | 38.10 | 1.65 | 50.5 | 140 | 22.95 | 48.20 | TG05                      |
| 40                            | 2"                 | 50.80 | 1.65 | 64.0 | 159 | 30.60 | 62.60 | TG06                      |
| 50                            | 2½"                | 63.5  | 1.65 | 77.5 | 190 | 37.35 | 69.1  | TG07                      |

1.) This information is part of the product key (see “6.3. Bürkert Product Enquiry Form” on page 29).

#### 4.6. Tube valve body (VP) with threaded connection

**Note:**

- Dimensions in mm, unless otherwise stated
- Further information on the drainage angle can be found in the "Supplementary instructions Type 2xxx 3xxx" on our website (see **operating instructions Type 2973** ►).



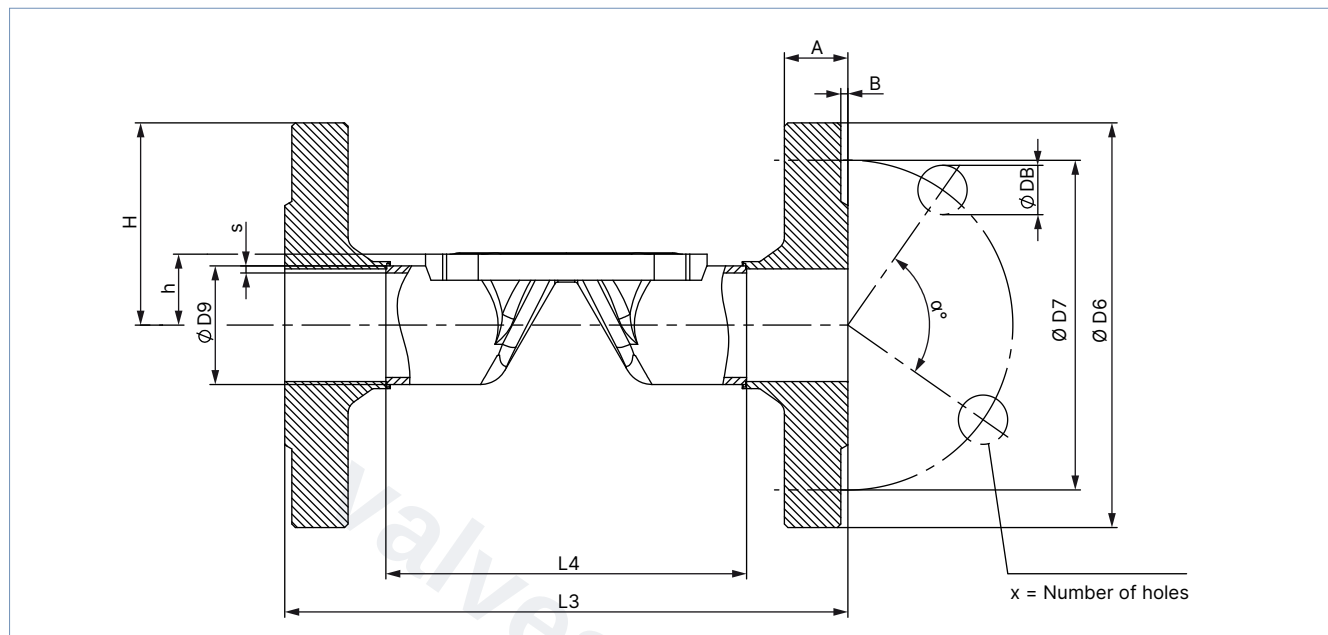
| Diaphragm size | L   | A    | B         | h     | H     | Width across flats of threaded ports | Product key <sup>1.)</sup> |
|----------------|-----|------|-----------|-------|-------|--------------------------------------|----------------------------|
| 15             | 102 | 14   | G 1/2     | 14.35 | 25.0  | 27                                   | GM84                       |
| 20             | 118 | 12   | G 3/4     | 17.15 | 30.45 | 32                                   | GM85                       |
| 25             | 127 | 14   | G 1       | 20.55 | 37.4  | 41                                   | GM86                       |
| 32             | 146 | 16   | G 1 1/4   | 25.10 | 46.3  | 50                                   | GM87                       |
| 40             | 159 | 18   | G 1 1/2   | 29.35 | 53.5  | 60                                   | GM88                       |
| 50             | 191 | 20   | G 2       | 35.35 | 65.50 | 70                                   | GM89                       |
| Diaphragm size | L   | A    | B         | h     | H     | Width across flats of threaded ports | Product key <sup>1.)</sup> |
| 15             | 102 | 13.2 | Rc 1/2    | 14.35 | 25.0  | 27                                   | RC84                       |
| 20             | 118 | 14.5 | Rc 3/4    | 17.15 | 30.45 | 32                                   | RC85                       |
| 25             | 127 | 16.8 | Rc 1      | 20.55 | 37.4  | 41                                   | RC86                       |
| 32             | 146 | 19.1 | Rc 1 1/4  | 25.10 | 46.3  | 50                                   | RC87                       |
| 40             | 159 | 19.1 | Rc 1 1/2  | 29.35 | 53.5  | 60                                   | RC88                       |
| 50             | 191 | 23.4 | Rc 2      | 35.35 | 65.50 | 70                                   | RC89                       |
| Diaphragm size | L   | A    | B         | h     | H     | Width across flats of threaded ports | Product key <sup>1.)</sup> |
| 15             | 102 | 13.7 | NPT 1/2   | 14.35 | 25.0  | 27                                   | NM84                       |
| 20             | 118 | 14   | NPT 3/4   | 17.15 | 30.45 | 32                                   | NM85                       |
| 25             | 127 | 16.8 | NPT 1     | 20.55 | 37.4  | 41                                   | NM86                       |
| 32             | 146 | 17.3 | NPT 1 1/4 | 25.10 | 46.3  | 50                                   | NM87                       |
| 40             | 159 | 17.3 | NPT 1 1/2 | 29.35 | 53.5  | 60                                   | NM88                       |
| 50             | 191 | 17.6 | NPT 2     | 35.35 | 65.50 | 70                                   | NM89                       |

1.) This information is part of the product key (see "6.3. Bürkert Product Enquiry Form" on page 29).

#### 4.7. Tube valve body (VP) with flange connection

**Note:**

- Dimensions in mm, unless otherwise stated
- Further information on the drainage angle can be found in the "Supplementary instructions Type 2xxx 3xxx" on our website (see **operating instructions Type 2973** ►).



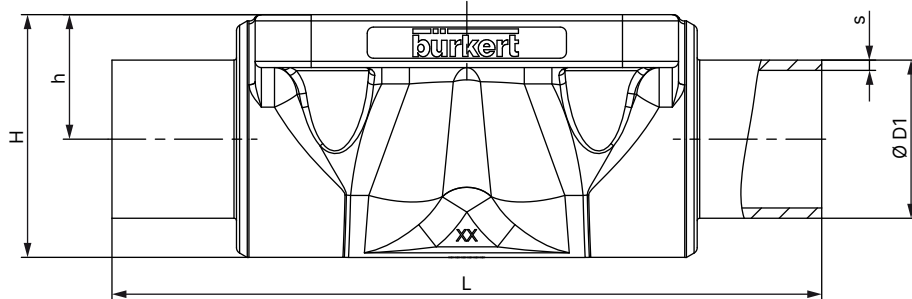
| Diaphragm size         | L4    | L3  | s   | ØD9  | ØD6 | ØD7   | a° | ØDB  | A    | B   | X | Product key <sup>1)</sup> |
|------------------------|-------|-----|-----|------|-----|-------|----|------|------|-----|---|---------------------------|
| <b>DIN EN 1092 - 1</b> |       |     |     |      |     |       |    |      |      |     |   |                           |
| 15                     | 76.5  | 130 | 1.6 | 21.3 | 95  | 65    | 90 | 14   | 16   | 2   | 4 | FD22                      |
| 20                     | 92.5  | 150 | 1.6 | 26.9 | 105 | 75    | 90 | 14   | 18   | 2   | 4 | FD23                      |
| 25                     | 102.5 | 160 | 2.0 | 33.7 | 115 | 85    | 90 | 14   | 18   | 2   | 4 | FD24                      |
| 32                     | 122.5 | 180 | 2.0 | 42.4 | 140 | 100   | 90 | 18   | 18   | 2   | 4 | FD25                      |
| 40                     | 136.5 | 200 | 2.0 | 48.3 | 150 | 110   | 90 | 18   | 18   | 3   | 4 | FD26                      |
| 50                     | 160.5 | 230 | 2.0 | 60.3 | 165 | 125   | 90 | 18   | 20   | 3   | 4 | FD27                      |
| <b>ANSI B16.5</b>      |       |     |     |      |     |       |    |      |      |     |   |                           |
| 15                     | 67.0  | 130 | 1.6 | 21.3 | 89  | 60.5  | 90 | 15.7 | 11.2 | 1.6 | 4 | FA02                      |
| 20                     | 83.0  | 150 | 1.6 | 26.9 | 99  | 69.9  | 90 | 15.7 | 12.7 | 1.6 | 4 | FA03                      |
| 25                     | 106.0 | 160 | 2.0 | 33.7 | 108 | 79.2  | 90 | 15.7 | 14.2 | 1.6 | 4 | FA04                      |
| 40                     | 128.0 | 200 | 2.0 | 48.3 | 127 | 98.6  | 90 | 15.7 | 17.5 | 1.6 | 4 | FA06                      |
| 50                     | 151.0 | 230 | 2.0 | 60.3 | 152 | 120.7 | 90 | 19.1 | 19.1 | 1.6 | 4 | FA07                      |
| <b>JIS 10K</b>         |       |     |     |      |     |       |    |      |      |     |   |                           |
| 15                     | 89    | 130 | 1.6 | 21.3 | 95  | 70    | 90 | 15   | 12   | 1   | 4 | FJ01                      |
| 20                     | 103   | 150 | 1.6 | 26.9 | 100 | 75    | 90 | 15   | 14   | 1   | 4 | FJ02                      |
| 25                     | 116   | 160 | 2.0 | 33.7 | 125 | 90    | 90 | 19   | 14   | 1   | 4 | FJ03                      |
| 40                     | 147   | 200 | 2.0 | 48.3 | 140 | 105   | 90 | 19   | 16   | 2   | 4 | FJ05                      |
| 50                     | 175   | 230 | 2.0 | 60.3 | 155 | 120   | 90 | 19   | 16   | 2   | 4 | FJ06                      |

1.) This information is part of the product key (see "6.3. Bürkert Product Enquiry Form" on page 29).

#### 4.8. Cast valve body (VG) with welded connection

**Note:**

- Dimensions in mm, unless otherwise stated
- Further information on the drainage angle can be found in the "Supplementary instructions Type 2xxx 3xxx" on our website (see **operating instructions Type 2973** ►).



| Diaphragm size                                                    | Port connection DN | ØD1   | s    | L   | h    | H    | Product key <sup>1)</sup> |
|-------------------------------------------------------------------|--------------------|-------|------|-----|------|------|---------------------------|
| <b>DIN EN ISO 1127 / ISO 4200 / DIN 11866 series B</b>            |                    |       |      |     |      |      |                           |
| 15                                                                | 15                 | 21.3  | 1.6  | 110 | 13.5 | 25.0 | SA42                      |
| 20                                                                | 15                 | 21.3  | 1.6  | 119 | 18.0 | 32.9 | SA42                      |
| 20                                                                | 20                 | 26.9  | 1.6  | 119 | 18.0 | 32.7 | SA43                      |
| 25                                                                | 25                 | 33.7  | 2.0  | 129 | 20.0 | 39.0 | SA44                      |
| 40                                                                | 32                 | 42.4  | 2.0  | 161 | 28.6 | 55.0 | SA45                      |
| 40                                                                | 40                 | 48.3  | 2.0  | 161 | 28.6 | 55.0 | SA46                      |
| 50                                                                | 50                 | 60.3  | 2.0  | 192 | 35.5 | 68.0 | SA47                      |
| <b>DIN 11850 - 2 / DIN 11866 series A / DIN EN 10357 series A</b> |                    |       |      |     |      |      |                           |
| 15                                                                | 15                 | 19    | 1.5  | 110 | 13.5 | 25.0 | SD42                      |
| 20                                                                | 20                 | 23    | 1.5  | 119 | 18.0 | 32.8 | SD43                      |
| 25                                                                | 25                 | 29    | 1.5  | 129 | 20.0 | 39.0 | SD44                      |
| 40                                                                | 40                 | 41    | 1.5  | 161 | 28.6 | 55.0 | SD46                      |
| 50                                                                | 50                 | 53    | 1.5  | 192 | 35.5 | 68.0 | SD47                      |
| <b>ASME BPE / DIN 11866 series C</b>                              |                    |       |      |     |      |      |                           |
| 15                                                                | ¾"                 | 19.05 | 1.65 | 102 | 13.5 | 25.0 | SA93                      |
| 20                                                                | ¾"                 | 19.05 | 1.65 | 119 | 18.0 | 32.8 | SA93                      |
| 20                                                                | 1"                 | 25.4  | 1.65 | 119 | 18.0 | 32.7 | SODF                      |
| 25                                                                | 1"                 | 25.4  | 1.65 | 114 | 20.0 | 39.0 | SODF                      |
| 40                                                                | 1½"                | 38.1  | 1.65 | 140 | 28.6 | 55.0 | SODH                      |
| 50                                                                | 2"                 | 50.8  | 1.65 | 159 | 35.5 | 68.0 | SODI                      |
| 50                                                                | 2½"                | 63.5  | 1.65 | 192 | 35.5 | 68.0 | SODJ                      |
| <b>BS 4825</b>                                                    |                    |       |      |     |      |      |                           |
| 15                                                                | 20                 | 19.05 | 1.20 | 102 | 14.0 | 25.5 | SODE                      |
| 20                                                                | 25                 | 25.4  | 1.65 | 119 | 18.0 | 32.8 | SODF                      |
| 25                                                                | 25                 | 25.4  | 1.65 | 114 | 20.0 | 39.0 | SODF                      |
| 40                                                                | 40                 | 38.1  | 1.65 | 140 | 28.6 | 55.0 | SODH                      |
| 50                                                                | 50                 | 50.8  | 1.65 | 159 | 35.5 | 68.0 | SODI                      |
| 50                                                                | 65                 | 63.5  | 1.65 | 192 | 35.5 | 68.0 | SODJ                      |
| <b>SMS 3008</b>                                                   |                    |       |      |     |      |      |                           |
| 20                                                                | 25                 | 25    | 1.2  | 119 | 18.0 | 32.8 | SA60                      |
| 25                                                                | 25                 | 25    | 1.2  | 129 | 20.0 | 39.0 | SA60                      |
| 40                                                                | 40                 | 38    | 1.2  | 161 | 28.6 | 55.0 | SA62                      |
| 50                                                                | 50                 | 51    | 1.2  | 192 | 35.5 | 68.0 | SA63                      |

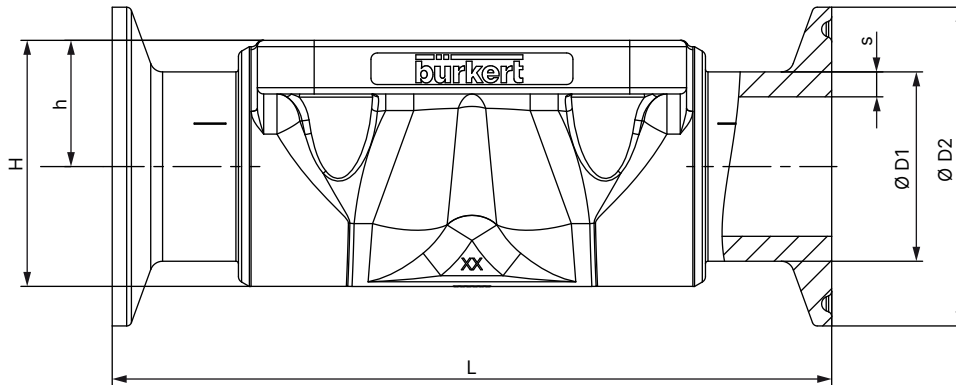
| Diaphragm size | Port connection DN | Ø D1 | s   | L   | h    | H    | Product key <sup>1.)</sup> |
|----------------|--------------------|------|-----|-----|------|------|----------------------------|
| DIN 11850 - 0  |                    |      |     |     |      |      |                            |
| 15             | 15                 | 18   | 1.5 | 110 | 13.5 | 25.0 | SC43                       |
| 20             | 20                 | 22   | 1.5 | 119 | 18.0 | 32.8 | SC44                       |
| 25             | 25                 | 28   | 1.5 | 129 | 20.0 | 39.0 | SC45                       |
| 25             | 32                 | 34   | 1.5 | 129 | 20.0 | 39.0 | SC46                       |
| 40             | 40                 | 40   | 1.5 | 161 | 28.6 | 56.0 | SC47                       |
| 50             | 50                 | 52   | 1.5 | 192 | 35.5 | 68.0 | SC48                       |

1.) This information is part of the product key (see “6.3. Bürkert Product Enquiry Form” on page 29).

#### 4.9. Cast valve body (VG) with clamp connection

**Note:**

- Dimensions in mm, unless otherwise stated
- Further information on the drainage angle can be found in the "Supplementary instructions Type 2xxx 3xxx" on our website (see **operating instructions Type 2973** ►).



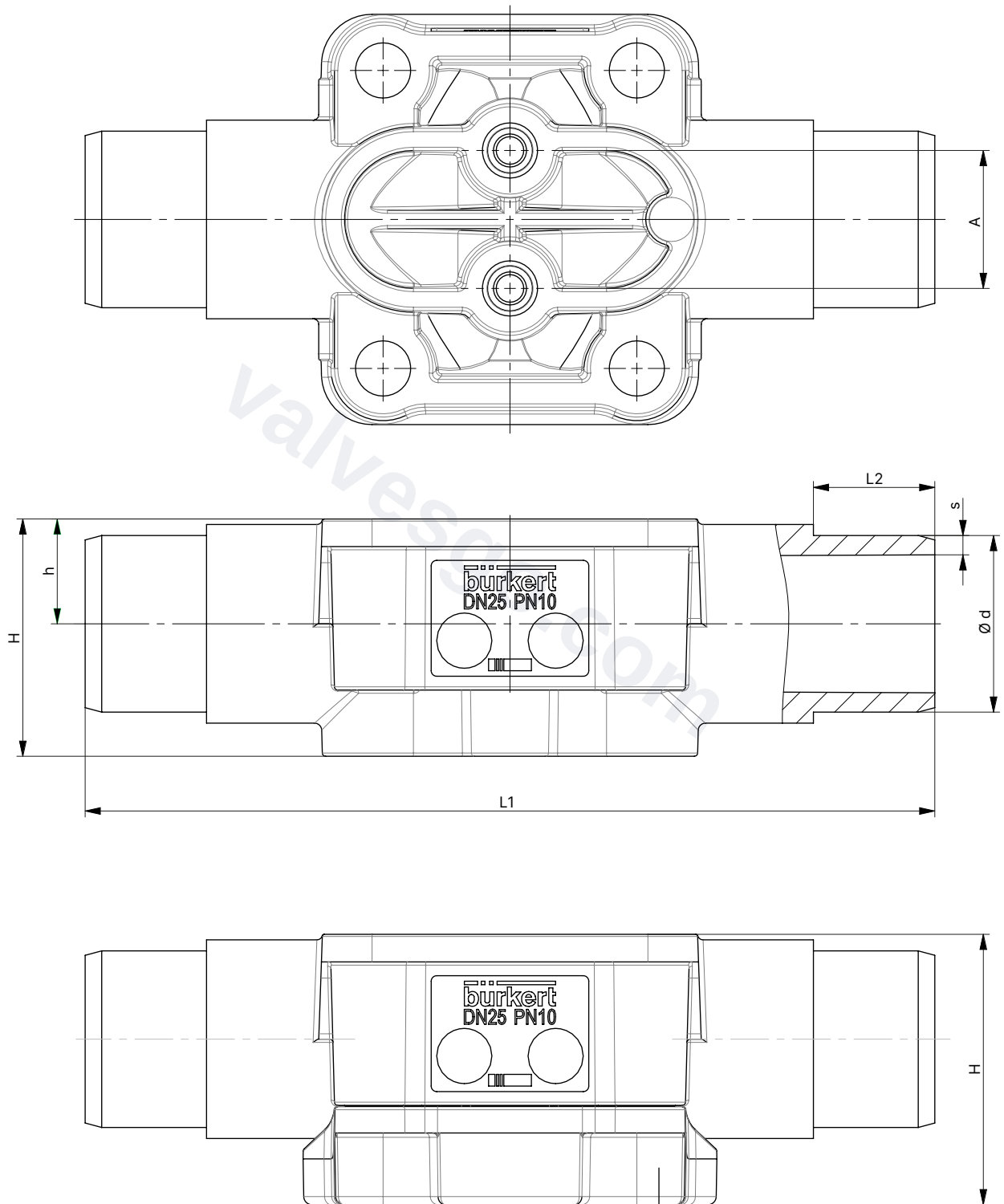
| Diaphragm size                                             | Port connection DN | Ø D1  | s    | Ø D2 | L   | h    | H    | Product key <sup>1.)</sup> |
|------------------------------------------------------------|--------------------|-------|------|------|-----|------|------|----------------------------|
| <b>DIN 32676 series B (ISO pipe)</b>                       |                    |       |      |      |     |      |      |                            |
| 25                                                         | 25                 | 33.7  | 2    | 50.5 | 129 | 20.0 | 39.0 | TC44                       |
| 40                                                         | 40                 | 48.3  | 2    | 64.0 | 161 | 28.6 | 55.0 | TC46                       |
| 50                                                         | 50                 | 60.3  | 2    | 77.5 | 192 | 35.5 | 68.0 | TC47                       |
| <b>DIN 32676 series A (DIN pipe)</b>                       |                    |       |      |      |     |      |      |                            |
| 15                                                         | 15                 | 19    | 1.5  | 34.0 | 110 | 13.5 | 25.0 | TD42                       |
| 20                                                         | 20                 | 23    | 1.5  | 34.0 | 119 | 18.0 | 32.8 | TD43                       |
| 25                                                         | 25                 | 29    | 1.5  | 50.5 | 129 | 20.0 | 39.0 | TD44                       |
| 40                                                         | 40                 | 41    | 1.5  | 50.5 | 161 | 28.6 | 55.0 | TD46                       |
| 50                                                         | 50                 | 53    | 1.5  | 64.0 | 192 | 35.5 | 68.0 | TD47                       |
| <b>ASME BPE</b>                                            |                    |       |      |      |     |      |      |                            |
| 15                                                         | ¾"                 | 19.05 | 1.65 | 25.0 | 102 | 13.5 | 23.0 | TG03                       |
| 20                                                         | ¾"                 | 19.05 | 1.65 | 25.0 | 117 | 18.0 | 25.0 | TG03                       |
| 25                                                         | 1"                 | 25.4  | 1.65 | 50.5 | 114 | 18.0 | 40.0 | TG04                       |
| 40                                                         | 1½"                | 38.1  | 1.65 | 50.5 | 140 | 28.6 | 55.0 | TG05                       |
| 50                                                         | 2"                 | 50.8  | 1.65 | 64.0 | 159 | 35.5 | 68.0 | TG06                       |
| 50                                                         | 2½"                | 63.5  | 1.65 | 77.5 | 190 | 35.5 | 68.0 | TG07                       |
| <b>BS 4825: Clamp BS 4825 - 3 / pipe BS 4825 - 1</b>       |                    |       |      |      |     |      |      |                            |
| 15                                                         | 20                 | 19.05 | 1.2  | 25   | 102 | 13.5 | 25.0 | TH43                       |
| 25                                                         | 25                 | 25.4  | 1.65 | 50.5 | 114 | 20.0 | 39.0 | TG04                       |
| 40                                                         | 40                 | 38.1  | 1.65 | 50.5 | 140 | 28.6 | 55.0 | TG05                       |
| 50                                                         | 50                 | 50.8  | 1.65 | 64.0 | 159 | 35.5 | 68.0 | TG06                       |
| 50                                                         | 65                 | 63.5  | 1.65 | 77.5 | 190 | 35.5 | 68.0 | TG07                       |
| <b>Clamp 34.0 similar to DIN 32676 series B (ISO pipe)</b> |                    |       |      |      |     |      |      |                            |
| 15                                                         | 15                 | 21.3  | 1.6  | 34   | 110 | 13.5 | 25.0 | TC42                       |

1.) This information is part of the product key (see "6.3. Bürkert Product Enquiry Form" on page 29).

#### 4.10. Plastic valve body (PV, PP, PD) with spigot connection

**Note:**

- Dimensions in mm. unless otherwise stated
- The specified values refer to the new plastic body. The previous bodies (REV1) may differ slightly from the new dimensions.



Housing reinforcement for PP material and nominal diameter 15...25

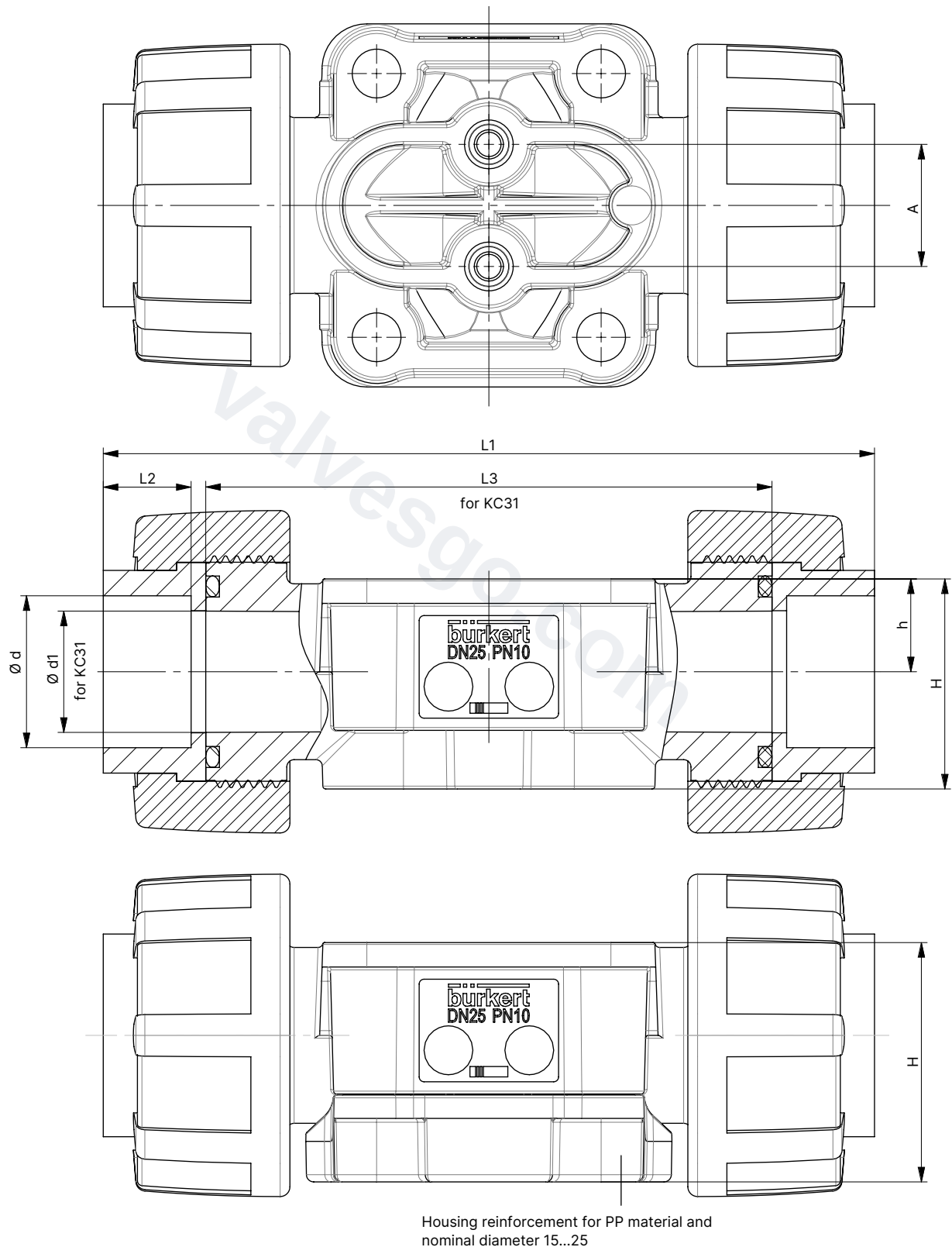
| Diaphragm size    | A  | L1  | L2 | Ø d | s   | h    | H    | Product key <sup>1.)</sup> |
|-------------------|----|-----|----|-----|-----|------|------|----------------------------|
| <b>PP (PP)</b>    |    |     |    |     |     |      |      |                            |
| 15                | 25 | 124 | 16 | 20  | 2.5 | 12   | 33   | SS25                       |
| 20                | 25 | 144 | 19 | 25  | 2.5 | 17   | 42   | SS26                       |
| 25                | 25 | 154 | 22 | 32  | 3.5 | 19   | 49   | SS27                       |
| 32                | 45 | 174 | 26 | 40  | 4   | 25   | 52.5 | SS28                       |
| 40                | 45 | 194 | 31 | 50  | 5   | 28.6 | 65.5 | SS29                       |
| 50                | 45 | 224 | 44 | 63  | 6.5 | 35.5 | 79   | SS30                       |
| <b>PVDF (PD)</b>  |    |     |    |     |     |      |      |                            |
| 15                | 25 | 124 | 16 | 20  | 2.5 | 12   | 29   | SS25                       |
| 20                | 25 | 144 | 19 | 25  | 2.5 | 17   | 36   | SS26                       |
| 25                | 25 | 154 | 22 | 32  | 3.5 | 19   | 43   | SS27                       |
| 32                | 45 | 174 | 26 | 40  | 4   | 25   | 52.5 | SS28                       |
| 40                | 45 | 194 | 31 | 50  | 5   | 28.6 | 65.5 | SS29                       |
| 50                | 45 | 224 | 44 | 63  | 6.5 | 35.5 | 79   | SS30                       |
| <b>PVC-U (PV)</b> |    |     |    |     |     |      |      |                            |
| 15                | 25 | 124 | 16 | 20  | 2.5 | 12   | 29   | KS25                       |
| 20                | 25 | 144 | 19 | 25  | 2.5 | 17   | 36   | KS26                       |
| 25                | 25 | 154 | 22 | 32  | 3.5 | 19   | 43   | KS27                       |
| 32                | 45 | 174 | 26 | 40  | 4   | 25   | 52.5 | KS28                       |
| 40                | 45 | 194 | 31 | 50  | 5   | 28.6 | 65.5 | KS29                       |
| 50                | 45 | 224 | 44 | 63  | 6.5 | 35.5 | 79   | KS30                       |

1.) This information is part of the product key (see "6.3. Bürkert Product Enquiry Form" on page 29).

#### 4.11. Plastic valve body (PW, PV, PP, PD) with true union

**Note:**

- Dimensions in mm, unless otherwise stated
- The specified values refer to the new plastic body. The previous bodies (REV1) may differ slightly from the new dimensions.



| Diaphragm size | A  | L1  | L2   | L3  | Ø d  | Ø d1 | h    | H    | Product key <sup>1)</sup> | Variable code                                                                      |
|----------------|----|-----|------|-----|------|------|------|------|---------------------------|------------------------------------------------------------------------------------|
| PP (PP)        |    |     |      |     |      |      |      |      |                           |                                                                                    |
| 15             | 25 | 125 | 14.5 | –   | 19.2 | –    | 12   | 33   | SM25                      | –                                                                                  |
| 20             | 25 | 146 | 16   | –   | 24.2 | –    | 17   | 42   | SM26                      |                                                                                    |
| 25             | 25 | 158 | 18   | –   | 31.1 | –    | 19   | 49   | SM27                      |                                                                                    |
| 32             | 45 | 181 | 20.5 | –   | 39   | –    | 25   | 52.5 | SM28                      |                                                                                    |
| 40             | 45 | 207 | 23.5 | –   | 48.9 | –    | 28.6 | 65.5 | SM29                      |                                                                                    |
| 50             | 45 | 245 | 27.5 | –   | 61.6 | –    | 35.5 | 79   | SM30                      |                                                                                    |
| 15             | 25 | –   | –    | 90  | –    | 14.9 | 12   | 33   | SM25                      | KC31<br>line connection<br>without insert part,<br>O-ring and union nut            |
| 20             | 25 | –   | –    | 108 | –    | 19.9 | 17   | 42   | SM26                      |                                                                                    |
| 25             | 25 | –   | –    | 116 | –    | 24.9 | 19   | 49   | SM27                      |                                                                                    |
| 32             | 45 | –   | –    | 134 | –    | 31.9 | 25   | 52.5 | SM28                      |                                                                                    |
| 40             | 45 | –   | –    | 154 | –    | 39.9 | 28.6 | 65.5 | SM29                      |                                                                                    |
| 50             | 45 | –   | –    | 184 | –    | 49.9 | 35.5 | 79   | SM30                      |                                                                                    |
| 15             | 25 | 132 | 18   | –   | 20   | –    | 12   | 33   | KM25                      | Optionally available<br>with variable<br>code KC93<br>insert part made of<br>PVC-C |
| 20             | 25 | 156 | 21   | –   | 25   | –    | 17   | 42   | KM26                      |                                                                                    |
| 25             | 25 | 170 | 24   | –   | 32   | –    | 19   | 49   | KM27                      |                                                                                    |
| 32             | 45 | 196 | 28   | –   | 40   | –    | 25   | 52.5 | KM28                      |                                                                                    |
| 40             | 45 | 222 | 31   | –   | 50   | –    | 28.6 | 65.5 | KM29                      |                                                                                    |
| 50             | 45 | 266 | 38   | –   | 63   | –    | 35.5 | 79   | KM30                      |                                                                                    |
| PVDF (PD)      |    |     |      |     |      |      |      |      |                           |                                                                                    |
| 15             | 25 | 125 | 14.5 | –   | 19.2 | –    | 12   | 29   | SM25                      | –                                                                                  |
| 20             | 25 | 146 | 16   | –   | 24.2 | –    | 17   | 36   | SM26                      |                                                                                    |
| 25             | 25 | 158 | 18   | –   | 31.1 | –    | 19   | 43   | SM27                      |                                                                                    |
| 32             | 45 | 181 | 20.5 | –   | 39   | –    | 25   | 52.5 | SM28                      |                                                                                    |
| 40             | 45 | 207 | 23.5 | –   | 48.9 | –    | 28.6 | 65.5 | SM29                      |                                                                                    |
| 50             | 45 | 245 | 27.5 | –   | 61.6 | –    | 35.5 | 79   | SM30                      |                                                                                    |
| 15             | 25 | –   | –    | 90  | –    | 14.9 | 12   | 29   | SM25                      | KC31<br>line connection<br>without insert part,<br>O-ring and union nut            |
| 20             | 25 | –   | –    | 108 | –    | 19.9 | 17   | 36   | SM26                      |                                                                                    |
| 25             | 25 | –   | –    | 116 | –    | 24.9 | 19   | 43   | SM27                      |                                                                                    |
| 32             | 45 | –   | –    | 134 | –    | 31.9 | 25   | 52.5 | SM28                      |                                                                                    |
| 40             | 45 | –   | –    | 154 | –    | 39.9 | 28.6 | 65.5 | SM29                      |                                                                                    |
| 50             | 45 | –   | –    | 184 | –    | 49.9 | 35.5 | 79   | SM30                      |                                                                                    |
| 15             | 25 | 132 | 18   | –   | 20   | –    | 12   | 29   | KM25                      | Optionally available<br>with variable<br>code KC93<br>insert part made of<br>PVC-C |
| 20             | 25 | 156 | 21   | –   | 25   | –    | 17   | 36   | KM26                      |                                                                                    |
| 25             | 25 | 170 | 24   | –   | 32   | –    | 19   | 43   | KM27                      |                                                                                    |
| 32             | 45 | 196 | 28   | –   | 40   | –    | 25   | 52.5 | KM28                      |                                                                                    |
| 40             | 45 | 222 | 31   | –   | 50   | –    | 28.6 | 65.5 | KM29                      |                                                                                    |
| 50             | 45 | 266 | 38   | –   | 63   | –    | 35.5 | 79   | KM30                      |                                                                                    |

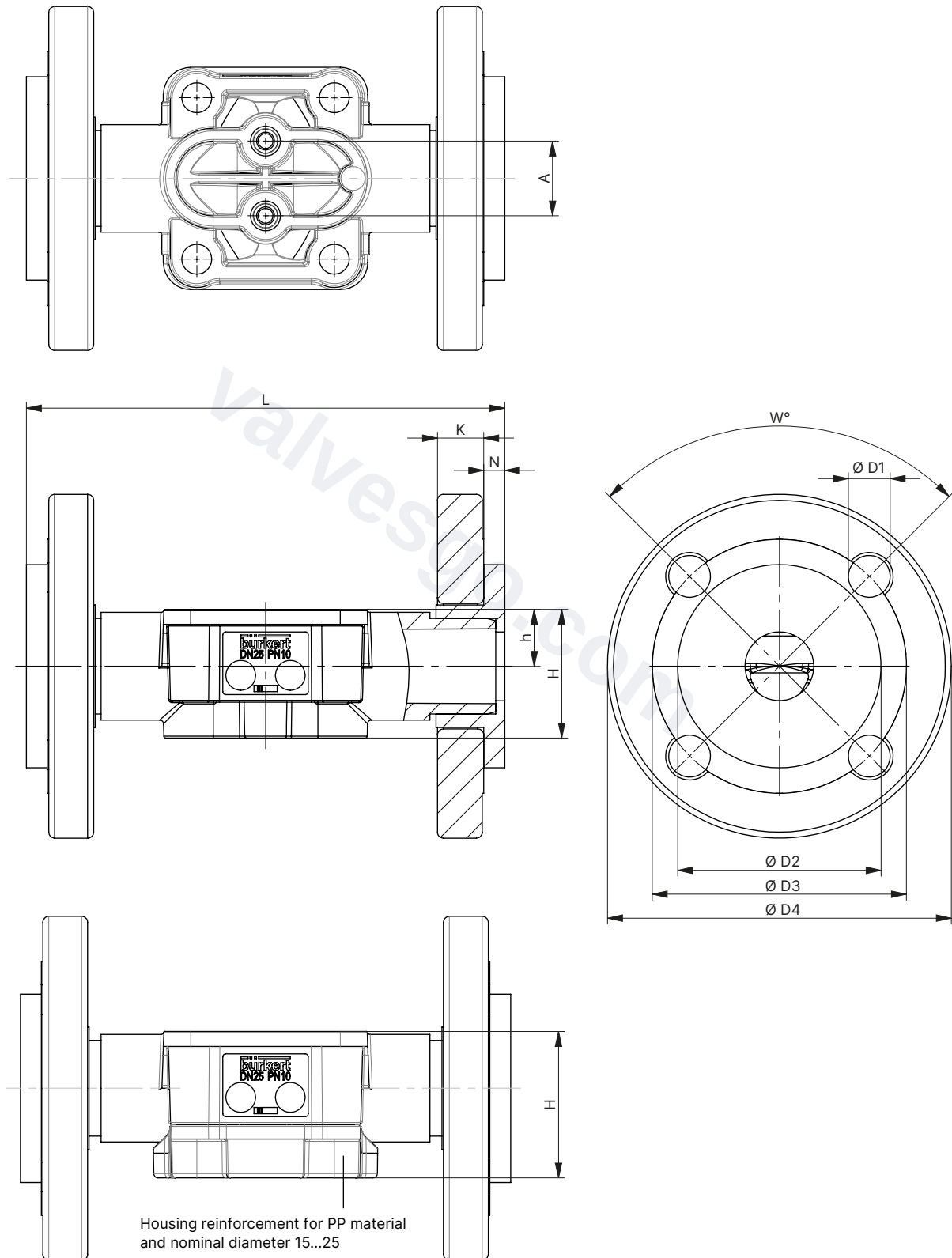
| PVC-U (PV) |    |       |      |     |      |      |      |      |      |                                                                         |
|------------|----|-------|------|-----|------|------|------|------|------|-------------------------------------------------------------------------|
| 15         | 25 | 128   | 16   | –   | 20   | –    | 12   | 29   | KM25 | –                                                                       |
| 20         | 25 | 152   | 19   | –   | 25   | –    | 17   | 36   | KM26 |                                                                         |
| 25         | 25 | 166   | 22   | –   | 32   | –    | 19   | 43   | KM27 |                                                                         |
| 32         | 45 | 192   | 26   | –   | 40   | –    | 25   | 52.5 | KM28 |                                                                         |
| 40         | 45 | 222   | 31   | –   | 50   | –    | 28.6 | 65.5 | KM29 |                                                                         |
| 50         | 45 | 266   | 38   | –   | 63   | –    | 35.5 | 79   | KM30 |                                                                         |
| 15         | 25 | –     | –    | 90  | –    | 14.9 | 12   | 29   | KM25 | KC31<br>line connection<br>without insert part,<br>O-ring and union nut |
| 20         | 25 | –     | –    | 108 | –    | 19.9 | 17   | 36   | KM26 |                                                                         |
| 25         | 25 | –     | –    | 116 | –    | 24.9 | 19   | 43   | KM27 |                                                                         |
| 32         | 45 | –     | –    | 134 | –    | 31.9 | 25   | 52.5 | KM28 |                                                                         |
| 40         | 45 | –     | –    | 154 | –    | 39.9 | 28.6 | 65.5 | KM29 |                                                                         |
| 50         | 45 | –     | –    | 184 | –    | 49.9 | 35.5 | 79   | KM30 |                                                                         |
| 15         | 25 | 140.6 | 22.3 | –   | 21.5 | –    | 12   | 29   | KM41 | –                                                                       |
| 20         | 25 | 164.8 | 25.4 | –   | 26.7 | –    | 17   | 36   | KM42 |                                                                         |
| 25         | 25 | 179.2 | 28.6 | –   | 33.5 | –    | 19   | 43   | KM43 |                                                                         |
| 32         | 45 | 203.6 | 31.8 | –   | 42.3 | –    | 25   | 52.5 | KM44 |                                                                         |
| 40         | 45 | 230   | 35   | –   | 48.6 | –    | 28.6 | 65.5 | KM45 |                                                                         |
| 50         | 45 | 266.2 | 38.1 | –   | 60.6 | –    | 35.5 | 79   | KM46 |                                                                         |
| PVC-C (PW) |    |       |      |     |      |      |      |      |      |                                                                         |
| 15         | 25 | –     | –    | 90  | –    | 14.9 | 12   | 29   | KM25 | KC31<br>line connection<br>without insert part,<br>O-ring and union nut |
| 20         | 25 | –     | –    | 108 | –    | 19.9 | 17   | 36   | KM26 |                                                                         |
| 25         | 25 | –     | –    | 116 | –    | 24.9 | 19   | 43   | KM27 |                                                                         |
| 32         | 45 | –     | –    | 134 | –    | 31.9 | 25   | 52.5 | KM28 |                                                                         |
| 40         | 45 | –     | –    | 154 | –    | 39.9 | 28.6 | 65.5 | KM29 |                                                                         |
| 50         | 45 | –     | –    | 184 | –    | 49.9 | 35.5 | 79   | KM30 |                                                                         |
| 15         | 25 | 132   | 18   | –   | 20   | –    | 12   | 29   | KM25 | –                                                                       |
| 20         | 25 | 156   | 21   | –   | 25   | –    | 17   | 36   | KM26 |                                                                         |
| 25         | 25 | 170   | 24   | –   | 32   | –    | 19   | 43   | KM27 |                                                                         |
| 32         | 45 | 196   | 28   | –   | 40   | –    | 25   | 52.5 | KM28 |                                                                         |
| 40         | 45 | 222   | 31   | –   | 50   | –    | 28.6 | 65.5 | KM29 |                                                                         |
| 50         | 45 | 266   | 38   | –   | 63   | –    | 35.5 | 79   | KM30 |                                                                         |

1.) This information is part of the product key (see "6.3. Bürkert Product Enquiry Form" on page 29).

#### 4.12. Plastic valve body (PV, PP, PD) with flange connection

**Note:**

- Dimensions in mm. unless otherwise stated
- The specified values refer to the new plastic body. The previous bodies (REV1) may differ slightly from the new dimensions.



| Diaphragm size    | A  | L   | K    | N  | h    | H    | W° | Ø D1 | Ø D2 | Ø D3 | Ø D4 | Product key <sup>1.)</sup> |
|-------------------|----|-----|------|----|------|------|----|------|------|------|------|----------------------------|
| <b>PP (PP)</b>    |    |     |      |    |      |      |    |      |      |      |      |                            |
| 15                | 25 | 134 | 13.5 | 7  | 12   | 33   | 90 | 4×14 | 45   | 65   | 95   | FL24                       |
| 20                | 25 | 154 | 14.5 | 7  | 17   | 42   | 90 | 4×14 | 54   | 75   | 105  | FL25                       |
| 25                | 25 | 164 | 15.5 | 7  | 19   | 49   | 90 | 4×14 | 63   | 85   | 115  | FL26                       |
| 32                | 45 | 184 | 17.5 | 8  | 25   | 52.5 | 90 | 4×18 | 73   | 100  | 140  | FL27                       |
| 40                | 45 | 204 | 17.5 | 8  | 28.6 | 65.5 | 90 | 4×18 | 82   | 110  | 150  | FL28                       |
| 50                | 45 | 234 | 19.5 | 14 | 35.5 | 79   | 90 | 4×18 | 102  | 125  | 166  | FL29                       |
| <b>PVDF (PD)</b>  |    |     |      |    |      |      |    |      |      |      |      |                            |
| 15                | 25 | 130 | 13.5 | 6  | 12   | 29   | 90 | 4×14 | 45   | 65   | 95   | FL24                       |
| 20                | 25 | 150 | 14.5 | 7  | 17   | 36   | 90 | 4×14 | 58   | 75   | 105  | FL25                       |
| 25                | 25 | 160 | 15.5 | 7  | 19   | 43   | 90 | 4×14 | 68   | 85   | 115  | FL26                       |
| 32                | 45 | 180 | 17.5 | 8  | 25   | 52.5 | 90 | 4×18 | 78   | 100  | 140  | FL27                       |
| 40                | 45 | 200 | 17.5 | 8  | 28.6 | 65.5 | 90 | 4×18 | 88   | 110  | 150  | FL28                       |
| 50                | 45 | 230 | 19.5 | 9  | 35.5 | 79   | 90 | 4×18 | 102  | 125  | 166  | FL29                       |
| <b>PVC-U (PV)</b> |    |     |      |    |      |      |    |      |      |      |      |                            |
| 15                | 25 | 130 | 13.5 | 6  | 12   | 29   | 90 | 4×14 | 34   | 65   | 95   | FL24                       |
| 20                | 25 | 150 | 14.5 | 7  | 17   | 36   | 90 | 4×14 | 41   | 75   | 105  | FL25                       |
| 25                | 25 | 160 | 15.5 | 7  | 19   | 43   | 90 | 4×14 | 50   | 85   | 115  | FL26                       |
| 32                | 45 | 180 | 17.5 | 8  | 25   | 52.5 | 90 | 4×18 | 61   | 100  | 140  | FL27                       |
| 40                | 45 | 200 | 17.5 | 8  | 28.6 | 65.5 | 90 | 4×18 | 73   | 110  | 150  | FL28                       |
| 50                | 45 | 230 | 19.5 | 9  | 35.5 | 79   | 90 | 4×18 | 90   | 125  | 166  | FL29                       |

1.) This information is part of the product key (see "6.3. Bürkert Product Enquiry Form" on page 29).

## 5. Performance specifications

### 5.1. Flow characteristics

#### Note:

- The  $K_v$  values may vary slightly for different diaphragm materials.
- Further  $K_v$  values are available on request.
- Flow:  $K_v$  value water (m³/h) for elastomer diaphragms
- Measurement at + 20 °C, 4 bar at valve inlet and 3 bar at valve outlet

#### Forged steel valve body (VS)

| Diaphragm size | Port connection |        | K <sub>v</sub> value water                        |                                                              |                                   |                  |        |             |
|----------------|-----------------|--------|---------------------------------------------------|--------------------------------------------------------------|-----------------------------------|------------------|--------|-------------|
|                |                 |        | DIN EN ISO 1127<br>ISO 4200<br>DIN 11866 series B | DIN 11850 - 2<br>DIN 11866 series A<br>DIN EN 10357 series A | ASME BPE<br>DIN 11866<br>series C | DIN<br>11850 - 0 | BS4825 | SMS<br>3008 |
|                | [mm]            | [inch] | [m³/h]                                            | [m³/h]                                                       | [m³/h]                            | [m³/h]           | [m³/h] | [m³/h]      |
| 15             | 10              | 3/8    | 5.5                                               | 3.5                                                          | –                                 | –                | –      | –           |
| 15             | 15              | 1/2    | 6.5                                               | 6.5                                                          | 3.1                               | –                | 3.7    | –           |
| 15             | 20              | 3/4    | –                                                 | –                                                            | 6.5                               | –                | –      | –           |
| 20             | 20              | 3/4    | 12.5                                              | 12.4                                                         | 8.4                               | –                | 8.9    | –           |
| 25             | 25              | 1      | 18                                                | 20                                                           | 15.5                              | –                | 15.5   | 16          |
| 40             | 32              | 1 1/4  | –                                                 | 34                                                           | –                                 | –                | –      | –           |
| 40             | 40              | 1 1/2  | 41                                                | 40                                                           | 37                                | –                | 37     | 38          |
| 50             | 50              | 2      | 66                                                | 66                                                           | 66                                | –                | 66     | 66          |
| 50             | 65              | 2 1/2  | –                                                 | –                                                            | 66                                | –                | 66     | 66          |

#### Tube valve body (VP)

| Diaphragm size | Port connection |        | K <sub>v</sub> value water                        |                                                              |                                |
|----------------|-----------------|--------|---------------------------------------------------|--------------------------------------------------------------|--------------------------------|
|                |                 |        | DIN EN ISO 1127<br>ISO 4200<br>DIN 11866 series B | DIN 11850 - 2<br>DIN 11866 series A<br>DIN EN 10357 series A | ASME BPE<br>DIN 11866 series C |
|                | [mm]            | [inch] | [m³/h]                                            | [m³/h]                                                       | [m³/h]                         |
| 15             | 15              | 1/2    | 7.2                                               | 7.4                                                          | –                              |
| 15             | 20              | 3/4    | –                                                 | 7.4                                                          | 7.1                            |
| 20             | 20              | 3/4    | 13.5                                              | –                                                            | –                              |
| 20             | 25              | 1      | –                                                 | 14.9                                                         | 12.8                           |
| 25             | 32              | 1 1/4  | –                                                 | 22.3                                                         | –                              |
| 25             | 25              | 1      | 20.8                                              | –                                                            | –                              |
| 32             | 32              | 1 1/4  | 36                                                | –                                                            | –                              |
| 32             | 40              | 1 1/2  | –                                                 | 34.8                                                         | 31                             |
| 40             | 40              | 1 1/2  | 47.9                                              | –                                                            | –                              |
| 40             | 50              | 2      | –                                                 | 46.2                                                         | 43                             |
| 50             | 50              | 2      | 69.7                                              | –                                                            | –                              |
| 50             | 65              | 2 1/2  | –                                                 | –                                                            | 60                             |

#### Cast valve body (VG)

| Diaphragm size | Port connection |        | K <sub>v</sub> value water<br>[m³/h] |
|----------------|-----------------|--------|--------------------------------------|
|                | [mm]            | [inch] |                                      |
| 15             | 15              | 1/2    | 5.6                                  |
| 20             | 20              | 3/4    | 10.7                                 |
| 25             | 25              | 1      | 14.6                                 |
| 40             | 40              | 1 1/2  | 35                                   |
| 50             | 50              | 2      | 47                                   |

## Plastic valve body (PW, PV, PP, PD)

| Diaphragm size | Seal material | Port connection |        | K <sub>v</sub> value water<br>[m <sup>3</sup> /h] |
|----------------|---------------|-----------------|--------|---------------------------------------------------|
|                |               | [mm]            | [inch] |                                                   |
| 15             | EPDM          | 15              | ½      | 8.1                                               |
|                | PTFE          |                 |        | 7.5                                               |
| 20             | EPDM          | 20              | ¾      | 14.1                                              |
|                | PTFE          |                 |        | 13.1                                              |
| 25             | EPDM          | 25              | 1      | 25.5                                              |
|                | PTFE          |                 |        | 21.5                                              |
| 32             | EPDM          | 32              | 1¼     | 38.5                                              |
|                | PTFE          |                 |        | 37.5                                              |
| 40             | EPDM          | 40              | 1½     | 57                                                |
|                | PTFE          |                 |        | 56                                                |
| 50             | EPDM          | 50              | 2      | 92                                                |
|                | PTFE          |                 |        | 92                                                |

## 5.2. Medium pressure

## Note:

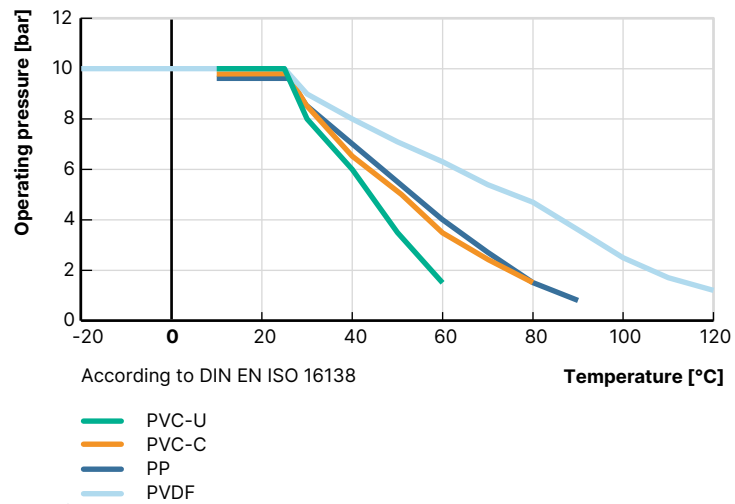
- The following tightening torques refer to the static media pressures specified above. Excessive torque can shorten the service life of the diaphragm.
- Pressure data [bar]: Overpressure to atmospheric pressure. Static: When closed, the valve is pressurised on one side with the maximum operating pressure.
- A tolerance of + 10 % applies to the tightening torques specified.

| Diaphragm size | Maximum static operating pressure | Tightening torque for maximum static operating pressure |                                                            |
|----------------|-----------------------------------|---------------------------------------------------------|------------------------------------------------------------|
|                |                                   | EPDM, FKM                                               | PTFE/EPDM, advanced PTFE/EPDM, laminate of GYLON® and EPDM |
|                | [bar]                             | [Nm]                                                    | [Nm]                                                       |
| 15             | 10                                | 0.8                                                     | 1.7                                                        |
| 20             | 10                                | 0.9                                                     | 3                                                          |
| 25             | 10                                | 1.2                                                     | 3.5                                                        |
| 32             | 10                                | 2.5                                                     | 4                                                          |
| 40             | 10                                | 4.5                                                     | 7                                                          |
| 50             | 10                                | 6                                                       | 11                                                         |

### 5.3. Pressure temperature diagram for plastic body

**Note:**

This information is important for material selection. Observe the permissible operating pressure depending on the medium temperature.



## 6. Ordering information

### 6.1. Bürkert eShop



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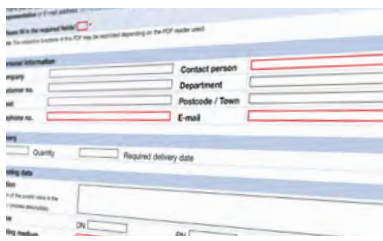


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### 6.3. Bürkert Product Enquiry Form



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