



## Pneumatically operated 2/2-way angle seat valve with stainless steel actuator

- Flow optimised stainless steel body with various line connections
- Trusted components for the longest life time
- Stainless steel actuator suitable for demanding environments
- Modular accessory program with stroke limitation and position feedback available

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

### Can be combined with



#### Type 8640

Modular valve island for pneumatics



#### Type 8644

AirLINE SP electropneumatic automation system



#### Type 8697

Pneumatic control unit for decentralised automation of process valves ELEMENT

### Type description

The pneumatically operated angle seat valve with stainless steel actuators fulfils the demands of tough process environments. Unrivalled life time and sealing integrity is guaranteed by the trusted self-adjusting packing gland. The stainless steel actuator has been designed for tough applications. Laser welding ensures it is both cleanable and robust. With a ducted exhaust air port, the actuator can be operated isolated from the environment to guarantee an optimum life time and hygiene. High flow rates are attained with the optimised stainless steel angle seat body. As part of the Bürkert process valve range a large accessory program is available. All wetted parts comply with the EC Directive 1935/2004, variants with FDA conformity are available on request, also explosion proof variants are available.

## Table of contents

|                                                                                                   |           |
|---------------------------------------------------------------------------------------------------|-----------|
| <b>1. General technical data</b>                                                                  | <b>3</b>  |
| <b>2. Control functions</b>                                                                       | <b>4</b>  |
| <b>3. Approvals and conformities</b>                                                              | <b>5</b>  |
| 3.1. General notes .....                                                                          | 5         |
| 3.2. Conformity .....                                                                             | 5         |
| 3.3. Standards .....                                                                              | 5         |
| 3.4. Explosion protection .....                                                                   | 5         |
| 3.5. Drinking water .....                                                                         | 5         |
| 3.6. Foods and beverages/Hygiene .....                                                            | 6         |
| 3.7. Others .....                                                                                 | 6         |
| DNV GL classification .....                                                                       | 6         |
| TA Luft .....                                                                                     | 6         |
| <b>4. Materials</b>                                                                               | <b>6</b>  |
| 4.1. Bürkert resistApp .....                                                                      | 6         |
| 4.2. Material specifications .....                                                                | 7         |
| <b>5. Dimensions</b>                                                                              | <b>8</b>  |
| 5.1. Actuator .....                                                                               | 8         |
| Angle seat valve Type 2060 .....                                                                  | 8         |
| Valve system on/off ELEMENT Type 8801-YV .....                                                    | 9         |
| 5.2. Body with threaded connection .....                                                          | 10        |
| 5.3. Body with welded connection .....                                                            | 11        |
| 5.4. Body with clamp connection .....                                                             | 12        |
| <b>6. Performance specifications</b>                                                              | <b>13</b> |
| 6.1. Fluidic data .....                                                                           | 13        |
| Overview of fluidic data for flow below seat (for liquids, steam and gases) .....                 | 13        |
| Pilot pressure diagrams with flow direction below seat (control function B, seat seal PTFE) ..... | 17        |
| Overview of fluidic data with flow above seat (for gases and steam) .....                         | 18        |
| Pilot pressure diagram with flow direction above seat (control function A) .....                  | 19        |
| 6.2. Operating limits .....                                                                       | 20        |
| Operating limits for medium temperature and operating pressure .....                              | 20        |
| Operating limits for ambient and medium temperature .....                                         | 21        |
| Operating limits for optional variants .....                                                      | 21        |
| <b>7. Product accessories</b>                                                                     | <b>22</b> |
| <b>8. Networking and combination with other Bürkert products</b>                                  | <b>23</b> |
| <b>9. Ordering information</b>                                                                    | <b>24</b> |
| 9.1. Bürkert eShop .....                                                                          | 24        |
| 9.2. Bürkert product filter .....                                                                 | 24        |
| 9.3. Bürkert Product Enquiry Form .....                                                           | 24        |
| 9.4. Ordering chart welded connection .....                                                       | 25        |
| Valve with flow direction below seat .....                                                        | 25        |
| Valves with flow direction above seat .....                                                       | 28        |
| 9.5. Ordering chart accessories .....                                                             | 28        |

## 1. General technical data

|                                                                                                        |                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product properties</b>                                                                              |                                                                                                                                    |
| Dimensions                                                                                             | Further information can be found in chapter <a href="#">"5. Dimensions" on page 8.</a>                                             |
| Material                                                                                               | Further information can be found in chapter <a href="#">"4. Materials" on page 6.</a>                                              |
| Design                                                                                                 | Angle seat valve                                                                                                                   |
| Nominal diameter (port connection)                                                                     | DN 10...DN 80, NPS 3/8...NPS 3                                                                                                     |
| Safety setting in case of power failure                                                                | Normally closed (control function A), normally open (control function B)                                                           |
| Flow direction                                                                                         | Flow to open (below seat), flow to close (above seat)                                                                              |
| <b>Performance data</b>                                                                                |                                                                                                                                    |
| Operating pressure                                                                                     | 0 bar(g)...25 bar(g), vacuum variants...-0.9 bar(g) (option) (see <a href="#">"6.1. Fluidic data" on page 13</a> )                 |
| Nominal pressure                                                                                       | PN 25 (DIN EN 1333), Class 150 (DIN EN 1759)                                                                                       |
| Pilot pressure                                                                                         | 2...10.5 bar(g)<br>Actuator size B: 2...7 bar (g) (see <a href="#">"6.1. Fluidic data" on page 13</a> )                            |
| Seat leakage                                                                                           | Leakage rate A (DIN EN 12266 - 1), seat seal PTFE and PEEK, test medium air                                                        |
| K <sub>v</sub> value                                                                                   | 1.6...140 m³/h (see <a href="#">"6.1. Fluidic data" on page 13</a> )                                                               |
| <b>Medium data</b>                                                                                     |                                                                                                                                    |
| Medium                                                                                                 | Steam, water, neutral gases, alcohols, oils, fuels, hydraulic fluids, salt solutions, alkalis, organic solvents                    |
| Medium temperature                                                                                     | - 40...+ 230 °C (see <a href="#">"6.2. Operating limits" on page 20</a> )                                                          |
| Viscosity                                                                                              | Max. 600 mm²/s                                                                                                                     |
| Control medium                                                                                         | Air, neutral gases                                                                                                                 |
| <b>Product connections</b>                                                                             |                                                                                                                                    |
| <b>Port Connection <sup>1)</sup></b>                                                                   |                                                                                                                                    |
| Threaded connection                                                                                    | G (DIN ISO 228 - 1)<br>NPT (ASME B1.20.1)<br>RC (ISO 7 - 1)                                                                        |
| Welded connection                                                                                      | DIN EN ISO 1127 / ISO 4200 / DIN 11866 series B<br>DIN 11850 - 2 / DIN 11866 series A<br>ASME BPE / DIN 11866 series C<br>SMS 3008 |
| Clamp connection                                                                                       | DIN 32676 series B (pipe: ISO 4200)<br>DIN 32676 series A (pipe: DIN 11850 - 2)<br>ASME BPE                                        |
| <b>Pilot air port</b>                                                                                  |                                                                                                                                    |
| Actuator size Ø 50 (D)...130 (P)                                                                       | Thread G 1/8                                                                                                                       |
| Actuator size Ø 32 (B)                                                                                 | Thread M5                                                                                                                          |
| <b>Approvals and certificates</b>                                                                      |                                                                                                                                    |
| Further information can be found in chapter <a href="#">"3. Approvals and conformities" on page 5.</a> |                                                                                                                                    |
| Material certificate                                                                                   | 2.2, 3.1                                                                                                                           |
| <b>Environment and installation</b>                                                                    |                                                                                                                                    |
| Ambient temperature                                                                                    | - 10...+ 130 °C (see <a href="#">"6.2. Operating limits" on page 20</a> )                                                          |
| Degree of protection                                                                                   | IP65/67                                                                                                                            |
| Installation position                                                                                  | As required, preferably with actuator upright                                                                                      |

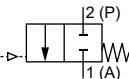
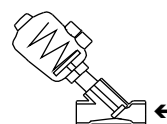
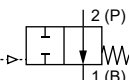
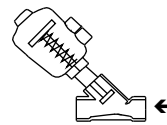
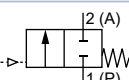
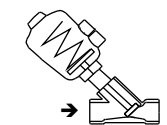
1.) Others are available on request.

2. Control functions

 **WARNING**

Risk of damage due to bursting pipes and bursting equipment when the flow is above the seat.  
In the case of liquid mediums, water hammer can occur causing pipes and the device to burst.

Do not use valves with flow above the seat for liquid mediums..

| Symbol                                                                            | Description                                                                                                                                     |                                                                                      |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Flow direction below seat for liquids, steam and gases                            |                                                                                                                                                 |                                                                                      |
|  | <b>Control function A (CF A)</b><br>Pneumatically operated 2/2-way on/off valve<br>Flow direction below seat<br>Normally closed by spring force |   |
|  | <b>Control function B (CF B)</b><br>Pneumatically operated 2/2-way on/off valve<br>Flow direction below seat<br>Normally opened by spring force |   |
| Flow direction above seat for steam and gases                                     |                                                                                                                                                 |                                                                                      |
|  | <b>Control function A (CF A)</b><br>Pneumatically operated 2/2-way on/off valve<br>Flow direction above seat<br>Normally closed by spring force |  |

DTS 1000290884 EN Version: W Status: RL (released | freigegeben | valide) printed: 22.12.2025

### 3. Approvals and conformities

#### 3.1. 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.

#### 3.2. Conformity

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

- Pressure Equipment Directive 2014/68/EU
- Machinery Directive 2006/42/EC

#### 3.3. 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.

#### 3.4. Explosion protection

| Approval                                                                                                                                                                   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                   |                 |    |    |                             |          |          |          |                     |                 |                 |                 |                            |          |          |          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------|----|----|-----------------------------|----------|----------|----------|---------------------|-----------------|-----------------|-----------------|----------------------------|----------|----------|----------|
| <br> | <p><b>Optional: Explosion protection (valid for the variable code PX51)</b><br/>As a category 2 device suitable for zone 1/21 and zone 2/22.</p> <p><b>ATEX:</b><br/>EPS 18 ATEX 2 008 X<br/>II 2G Ex h IIC T4...T2 Gb<br/>II 2D Ex h IIIC T135 °C...T300 °C Db</p> <p><b>IECEx:</b><br/>IECEx EPS 18.0007X<br/>Ex h IIC T4...T2 Gb<br/>Ex h IIIC T135 °C...T300 °C Db</p> <table><tr><td>Temperature class</td><td>T2</td><td>T3</td><td>T4</td></tr><tr><td>Maximum surface temperature</td><td>+ 300 °C</td><td>+ 200 °C</td><td>+ 135 °C</td></tr><tr><td>Ambient temperature</td><td>- 40...+ 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        |    |    |                             |          |          |          |                     |                 |                 |                 |                            |          |          |          |

#### 3.5. Drinking water

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

### 3.6. Foods and beverages/Hygiene

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

### 3.7. Others

#### DNV GL classification

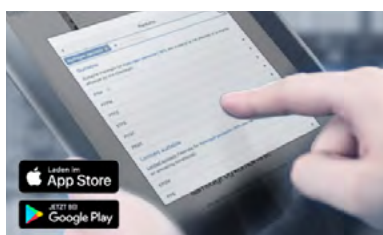
| Approval                                                                          | Description                                                                                                                                                          |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>DNV GL classification – Ships, offshore units, and high speed and light craft</b><br>The products are accepted for installation on all vessels classed by DNV GL. |

#### TA Luft

| Conformity | Description                                                                            |
|------------|----------------------------------------------------------------------------------------|
| TA Luft    | <b>Technical instruction on air quality control (valid for the variable code PM01)</b> |

## 4. Materials

### 4.1. Bürkert resistApp



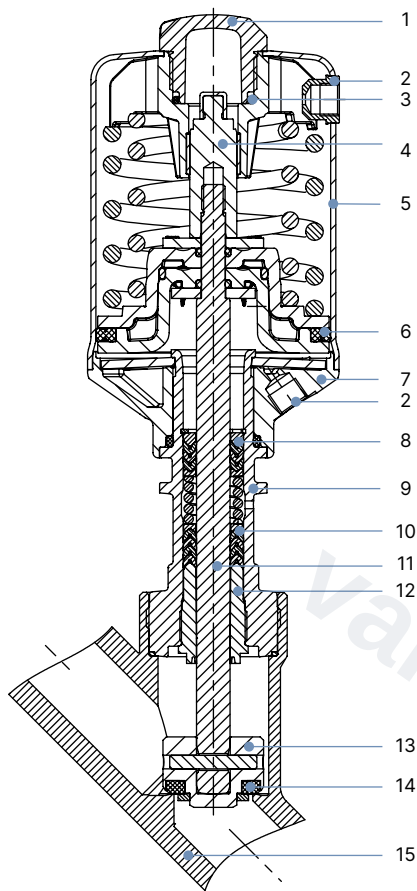
#### Bürkert resistApp – Chemical resistance chart

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

[Start chemical resistance check](#)

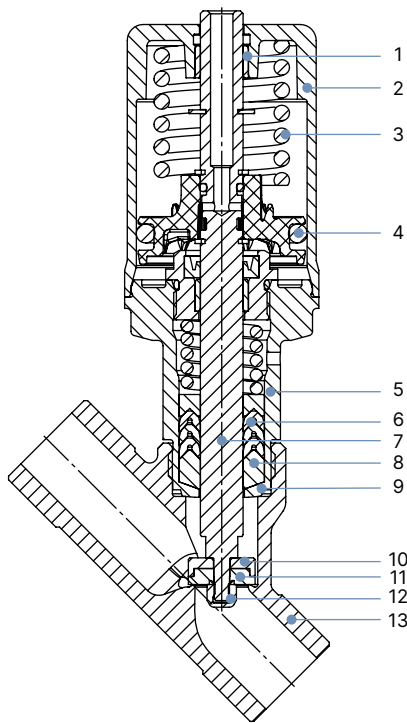
4.2. Material specifications

Actuator size 50 (D), 70 (M), 90 (N), 130 (P)



| No. | Element                   | Material                                                                          |
|-----|---------------------------|-----------------------------------------------------------------------------------|
| 1   | Transparent cover         | Optical position indicator Polysulfone PSU                                        |
| 2   | Pilot air ports           | Threaded bushing G 1/8"<br>Stainless steel 1.4404 (316L)                          |
| 3   | Spring support            | Stainless steel 1.4308                                                            |
| 4   | Spindle extension         | Stainless steel 1.4104                                                            |
| 5   | Actuator casing           | Stainless steel 1.4404 (316L)                                                     |
| 6   | Piston seal               | FKM                                                                               |
| 7   | Actuator base (interface) | Stainless steel 1.4308                                                            |
| 8   | Spring                    | Stainless steel 1.4310                                                            |
| 9   | Pipe                      | Stainless steel 1.4401 (316)/1.4404 (316L)                                        |
| 10  | Packing gland             | PTFE V-Rings (filled), with spring compensation                                   |
| 11  | Spindle                   | Stainless steel 1.4401 (316)/1.4404 (316L)                                        |
| 12  | Spindle guide             | PTFE (filled) for actuator size 50(D)/PEEK for actuator size 70(M), 90(N), 130(P) |
| 13  | Swivel plate              | Stainless steel 1.4401 (316)/1.4404 (316L)                                        |
| 14  | Seat seal                 | PTFE, PEEK (optional), NBR (optional), FKM (optional)                             |
| 15  | Valve body                | Stainless steel CF3M                                                              |

Actuator size 32 (B)



| No. | Element                                        | Material                                       |
|-----|------------------------------------------------|------------------------------------------------|
| 1   | Optical position indicator/<br>Pilot air ports | Stainless steel 1.4104<br>Thread M5            |
| 2   | Actuator casing                                | Stainless steel 1.4404                         |
| 3   | Spring                                         | 1.4310                                         |
| 4   | Piston seal                                    | FPM                                            |
| 5   | Pipe                                           | Stainless steel 1.4404                         |
| 6   | Packing gland                                  | PTFE V-Rings (filled) with spring compensation |
| 7   | Spindle                                        | Stainless steel 1.4404                         |
| 8   | Wiper                                          | PTFE (filled)                                  |
| 9   | Body seal                                      | Graphite                                       |
| 10  | Seal holder                                    | Stainless steel 1.4404                         |
| 11  | Seat seal                                      | PTFE                                           |
| 12  | Dome nut                                       | Stainless steel 1.4404                         |
| 13  | Body                                           | Stainless steel CF3M                           |

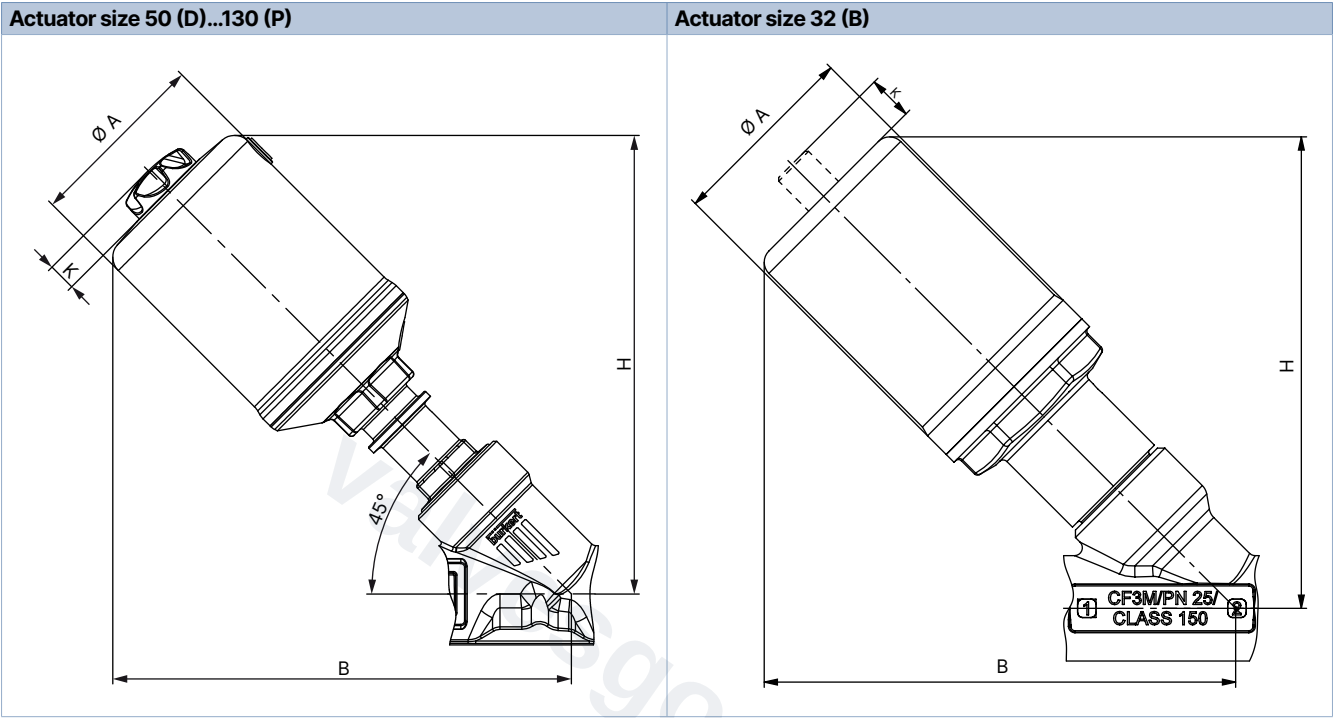
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5. Dimensions

5.1. Actuator

Angle seat valve Type 2060

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

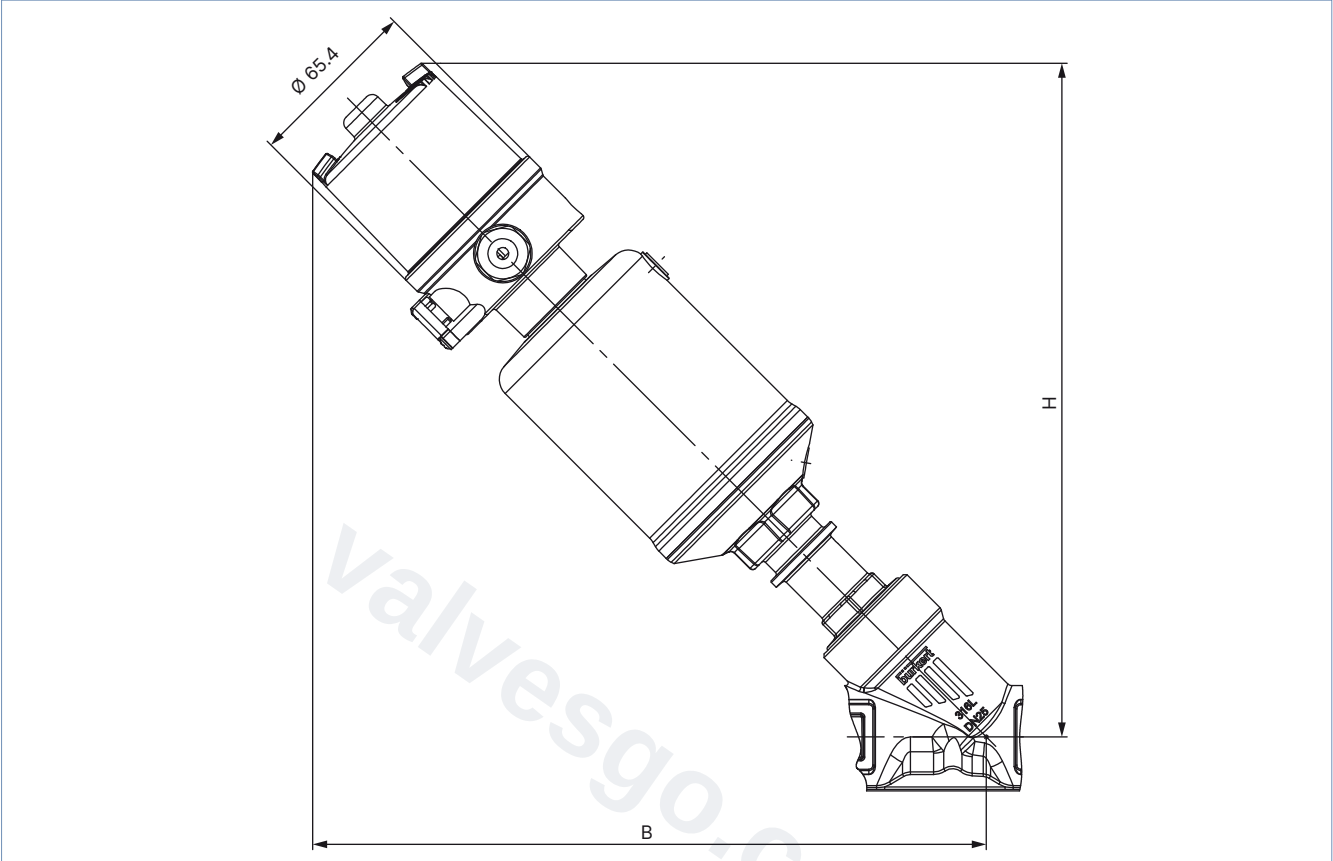


| Nominal diameter (port connection) |       | Actuator size Ø | Ø A  | B/H <sup>1.)</sup> | K <sup>1.)</sup> | P     |
|------------------------------------|-------|-----------------|------|--------------------|------------------|-------|
| DN                                 | NPS   |                 |      |                    |                  |       |
| 10                                 | 3/8   | 32 (B)          | 36.4 | 89.4               | 8.6              | M5    |
| 15                                 | 1/2   | 32 (B)          | 36.4 | 96                 | 8.6              | M5    |
|                                    |       | 50 (D)          | 55   | 154                | 11               | G 1/8 |
|                                    |       | 70 (M)          | 75   | 174                | 11               | G 1/8 |
| 20                                 | 3/4   | 50 (D)          | 55   | 157                | 11               | G 1/8 |
|                                    |       | 70 (M)          | 75   | 180                | 11               | G 1/8 |
| 25                                 | 1     | 50 (D)          | 55   | 169                | 11               | G 1/8 |
|                                    |       | 70 (M)          | 75   | 184                | 11               | G 1/8 |
|                                    |       | 90 (N)          | 96   | 233                | 14               | G 1/8 |
| 32                                 | 1 1/4 | 70 (M)          | 75   | 193                | 11               | G 1/8 |
|                                    |       | 90 (N)          | 96   | 238                | 14               | G 1/8 |
|                                    |       | 130 (P)         | 137  | 283                | 14               | G 1/8 |
| 40                                 | 1 1/2 | 70 (M)          | 75   | 196                | 11               | G 1/8 |
|                                    |       | 90 (N)          | 96   | 242                | 14               | G 1/8 |
|                                    |       | 130 (P)         | 137  | 286                | 14               | G 1/8 |
| 50                                 | 2     | 70 (M)          | 75   | 214                | 11               | G 1/8 |
|                                    |       | 90 (N)          | 96   | 257                | 14               | G 1/8 |
|                                    |       | 130 (P)         | 137  | 301                | 14               | G 1/8 |
| 65                                 | 2 1/2 | 90 (N)          | 96   | 269                | 11               | G 1/8 |
|                                    |       | 130 (P)         | 137  | 314                | 14               | G 1/8 |
| 80                                 | 3     | 130 (P)         | 137  | 334                | 14               | G 1/8 |

1.) The dimensions for B, H and K are maximum dimensions and may be up to 6 mm less, depending on the connection orifice size and standard.

Valve system on/off ELEMENT Type 8801-YV

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

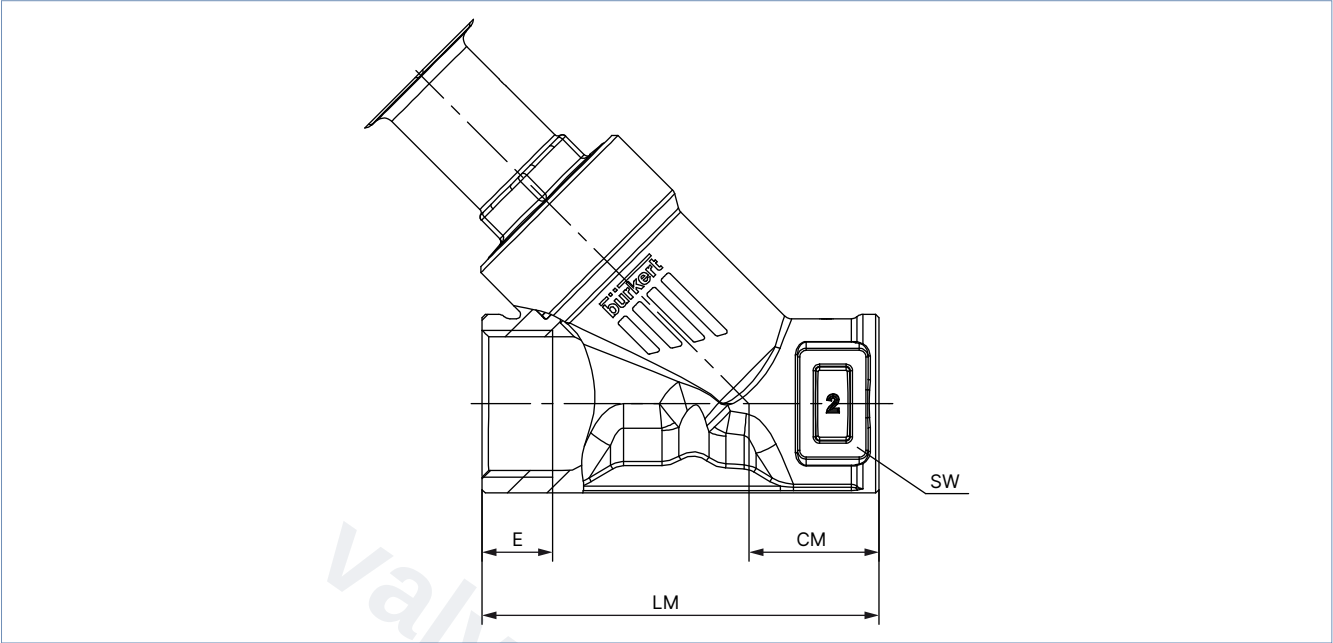


| Nominal diameter (port connection) |     | Actuator size Ø | B/H <sup>1.)</sup> |
|------------------------------------|-----|-----------------|--------------------|
| DN                                 | NPS |                 |                    |
| 15                                 | ½   | 50 (D)          | 230                |
|                                    |     | 70 (M)          | 244                |
| 20                                 | ¾   | 50 (D)          | 233                |
|                                    |     | 70 (M)          | 250                |
| 25                                 | 1   | 50 (D)          | 245                |
|                                    |     | 70 (M)          | 254                |
|                                    |     | 90 (N)          | 287                |
| 32                                 | 1¼  | 70 (M)          | 263                |
|                                    |     | 90 (N)          | 301                |
|                                    |     | 130 (P)         | 332                |
| 40                                 | 1½  | 70 (M)          | 266                |
|                                    |     | 90 (N)          | 305                |
|                                    |     | 130 (P)         | 335                |
| 50                                 | 2   | 70 (M)          | 284                |
|                                    |     | 90 (N)          | 320                |
|                                    |     | 130 (P)         | 350                |
| 65                                 | 2½  | 90 (N)          | 332                |
|                                    |     | 130 (P)         | 363                |
| 80                                 | 3   | 130 (P)         | 383                |

1.) The dimensions for B, H and K are maximum dimensions and may be up to 6 mm less, depending on the connection orifice size and standard.

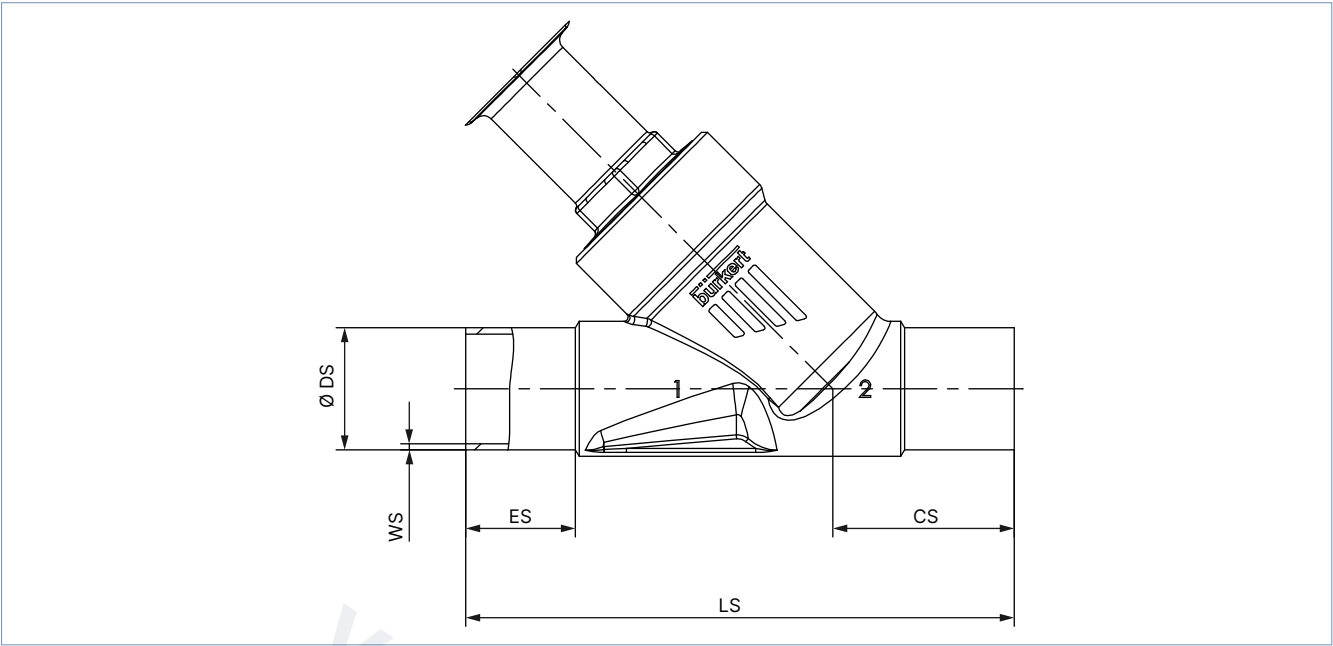
5.2. Body with threaded connection

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



| Nominal diameter (port connection) |       | G (DIN ISO 228 - 1)<br>NPT (ASME B1.20.1)<br>RC (ISO 7 - 1) |      |      |      |     |     |
|------------------------------------|-------|-------------------------------------------------------------|------|------|------|-----|-----|
|                                    |       | E                                                           |      |      | CM   | LM  | SW  |
| DN                                 | NPS   | G                                                           | NPT  | RC   |      |     |     |
| 10                                 | 3/8   | 12                                                          | 10.3 | 10.1 | 18.5 | 65  | –   |
| 15                                 | 1/2   | 14                                                          | 13.7 | 13.2 | 24   | 65  | 27  |
| 20                                 | 3/4   | 16                                                          | 14.0 | 14.5 | 27   | 75  | 34  |
| 25                                 | 1     | 18                                                          | 16.8 | 16.8 | 29.5 | 90  | 41  |
| 32                                 | 1 1/4 | 16                                                          | 17.3 | 19.1 | 36   | 110 | 50  |
| 40                                 | 1 1/2 | 18                                                          | 17.3 | 19.1 | 35   | 120 | 55  |
| 50                                 | 2     | 24                                                          | 17.6 | 23.4 | 45   | 150 | 70  |
| 65                                 | 2 1/2 | 26                                                          | 23.7 | 26.7 | 57   | 185 | 85  |
| 80                                 | 3     | 28                                                          | –    | –    | 71   | 220 | 100 |

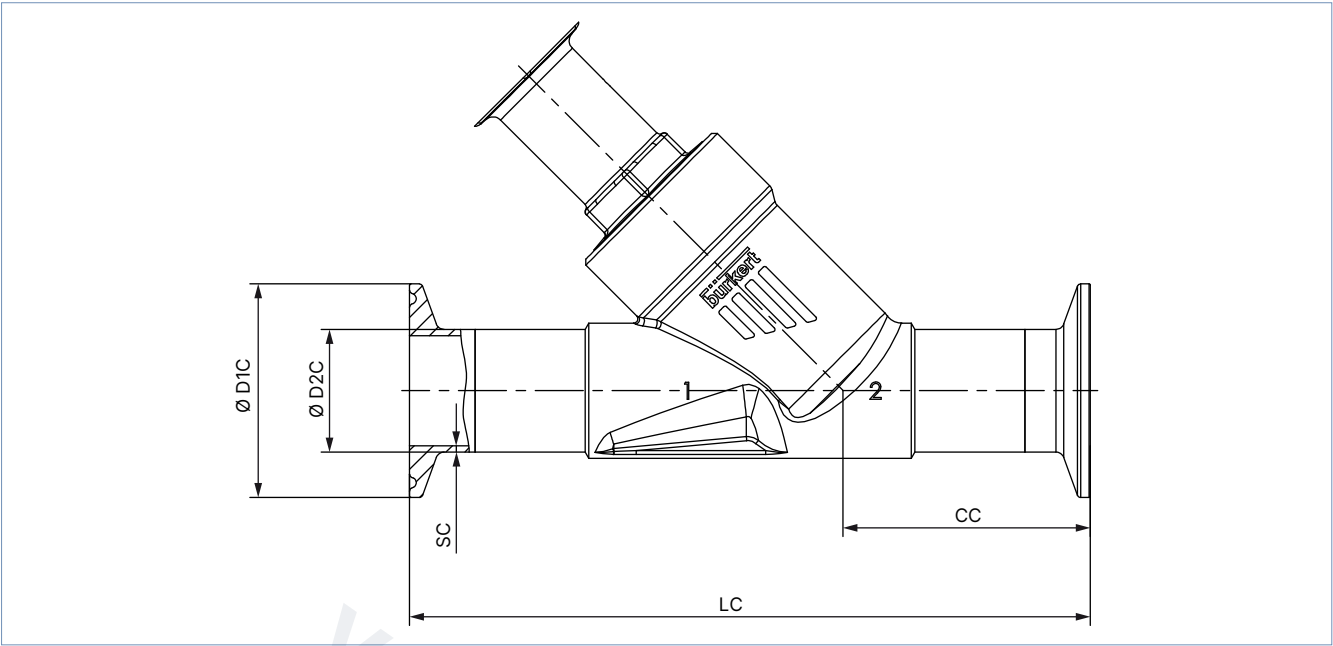
5.3. Body with welded connection



| Nominal diameter<br>(port connection) | DIN EN ISO 1127 / ISO 4200 / DIN 11866 series B |      |     |      |     | DIN 11850 - 2 / DIN 11866 series A |      |     |      |     |
|---------------------------------------|-------------------------------------------------|------|-----|------|-----|------------------------------------|------|-----|------|-----|
|                                       | ES                                              | CS   | LS  | Ø DS | WS  | ES                                 | CS   | LS  | Ø DS | WS  |
| 10                                    | 20                                              | 26   | 80  | 17.2 | 1.6 | 20                                 | 26   | 80  | 13   | 1.5 |
| 15                                    | 19                                              | 34   | 100 | 21.3 | 1.6 | 19                                 | 34   | 100 | 19   | 1.5 |
| 20                                    | 20                                              | 39   | 115 | 26.9 | 1.6 | 20                                 | 39   | 115 | 23   | 1.5 |
| 25                                    | 26                                              | 43   | 130 | 33.7 | 2.0 | 26                                 | 43   | 130 | 29   | 1.5 |
| 32                                    | 26                                              | 45   | 145 | 42.4 | 2.0 | 26                                 | 45   | 145 | 35   | 1.5 |
| 40                                    | 26                                              | 49   | 160 | 48.3 | 2.0 | 26                                 | 49   | 160 | 41   | 1.5 |
| 50                                    | 26                                              | 50   | 175 | 60.3 | 2.0 | 26                                 | 50   | 175 | 53   | 1.5 |
| 65                                    | 26                                              | 50   | 210 | 76.1 | 2.3 | 26                                 | 50   | 210 | 70   | 2   |
| 80                                    | 26                                              | 88.5 | 266 | 88.9 | 2.3 | 26                                 | 88.5 | 266 | 85   | 2   |

| Nominal diameter<br>(port connection) | ASME BPE / DIN 11866 series C |      |     |       |      |
|---------------------------------------|-------------------------------|------|-----|-------|------|
| NPS                                   | ES                            | CS   | LS  | Ø DS  | WS   |
| ½                                     | 30                            | 46   | 135 | 12.7  | 1.65 |
| ¾                                     | 30                            | 52   | 145 | 19.05 | 1.65 |
| 1                                     | 30                            | 51   | 152 | 25.4  | 1.65 |
| 1½                                    | 30                            | 60   | 182 | 38.1  | 1.65 |
| 2                                     | 30                            | 64   | 210 | 50.8  | 1.65 |
| 2½                                    | 26                            | 56   | 230 | 63.5  | 1.65 |
| 3                                     | 26                            | 88.5 | 266 | 76.2  | 1.65 |

5.4. Body with clamp connection



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

| Nominal diameter<br>(port connection) | Clamp: ASME BPE<br>Pipe: ASME BPE / DIN 11866 series C |      |        |        |      |
|---------------------------------------|--------------------------------------------------------|------|--------|--------|------|
|                                       | LC                                                     | CC   | Ø D1 C | Ø D2 C | SC   |
| ½                                     | 130                                                    | 49.0 | 25.0   | 12.7   | 1.65 |
| ¾                                     | 150                                                    | 56.5 | 25.0   | 19.05  | 1.65 |
| 1                                     | 160                                                    | 58.0 | 50.5   | 25.4   | 1.65 |
| 1½                                    | 200                                                    | 69.0 | 50.5   | 38.1   | 1.65 |
| 2                                     | 230                                                    | 77.5 | 64.0   | 50.8   | 1.65 |

## 6. Performance specifications

### 6.1. Fluidic data

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

**Note:**

- $K_v$  value [ $m^3/h$ ]: Measured with water at + 20 °C, 1 bar(g) pressure at valve inlet and free outlet
- Pressure data [bar(g)]: Overpressure to atmospheric pressure

#### Threaded port G, NPT and RC

| Nominal diameter<br>(port connection) |     | Seat size | Actuator size Ø | K <sub>v</sub> value water | Pilot pressure<br>min. | Operating pressure max. |          |          |
|---------------------------------------|-----|-----------|-----------------|----------------------------|------------------------|-------------------------|----------|----------|
|                                       |     |           |                 |                            |                        | CF A                    |          | CF B     |
|                                       |     |           |                 |                            |                        | Seat seal               |          |          |
|                                       |     |           |                 |                            |                        | PTFE                    | PEEK     | PTFE     |
| DN                                    | NPS | DN        | [mm]            | [m³/h]                     | [bar(g)]               | [bar(g)]                | [bar(g)] | [bar(g)] |
| 10                                    | ⅜   | 10        | 32 (B)          | 2.4                        | 5.5                    | 16                      | —        | 16       |
| 8                                     | ¼   | 15        | 32 (B)          | 2.6                        | 5.5                    | 11                      | —        | 16       |
|                                       |     |           | 50 (D)          | 2.6                        | 4.1                    | 16                      | —        | 16       |
|                                       |     |           | 70 (M)          | 2.6                        | 4.8                    | 25                      | 25       | 25       |
| 10                                    | ⅜   | 15        | 32 (B)          | 4.7                        | 5.5                    | 11                      | —        | 16       |
|                                       |     |           | 50 (D)          | 5.3                        | 4.1                    | 16                      | —        | 16       |
|                                       |     |           | 70 (M)          | 5.4                        | 4.8                    | 25                      | 25       | 25       |
| 15                                    | ½   | 15        | 32 (B)          | 4.7                        | 5.5                    | 11                      | —        | 16       |
|                                       |     |           | 50 (D)          | 5.3                        | 4.1                    | 16                      | —        | 16       |
|                                       |     |           | 70 (M)          | 5.4                        | 4.8                    | 25                      | 25       | 25       |
| 20                                    | ¾   | 20        | 50 (D)          | 10                         | 4.1                    | 11                      | 8.5      | 16       |
|                                       |     |           | 70 (M)          | 11                         | 4.8                    | 25                      | 25       | 25       |
| 25                                    | 1   | 25        | 50 (D)          | 15                         | 4.1                    | 5.2                     | —        | 16       |
|                                       |     |           | 70 (M)          | 20                         | 4.8                    | 16                      | 13.5     | 25       |
|                                       |     |           | 90 (N)          | 21                         | 5                      | 25                      | 25       | 25       |
| 32                                    | 1¼  | 32        | 70 (M)          | 30                         | 4.8                    | 8.5                     | —        | 25       |
|                                       |     |           | 90 (N)          | 30                         | 5                      | 25                      | 19.5     | 25       |
|                                       |     |           | 130 (P)         | 32                         | 5                      | —                       | 25       | —        |
| 40                                    | 1½  | 40        | 70 (M)          | 40                         | 4.8                    | 6                       | —        | 25       |
|                                       |     |           | 90 (N)          | 44                         | 5                      | 16                      | 13.5     | 25       |
|                                       |     |           | 130 (P)         | 47                         | 5                      | 25                      | 25       | 25       |
| 50                                    | 2   | 50        | 90 (N)          | 55                         | 5                      | 10                      | —        | 25       |
|                                       |     |           | 130 (P)         | 62                         | 5                      | —                       | —        | —        |
| 65                                    | 2½  | 65        | 90 (N)          | 82                         | 5                      | 5                       | —        | 11       |
|                                       |     |           | 130 (P)         | 91                         | 5.6                    | —                       | 12.5     | —        |
| 80                                    | 3   | 80        | 130 (P)         | 140                        | 5.6                    | 10                      | 8        | 11       |

1.) According to pressure equipment directive 2014/68/EU for compressible fluids of group 1 (dangerous gases and vapours according to Article 4, paragraph (1), c), i), first indent)

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

| Nominal diameter<br>(port connection) |     | Seat size | Actuator size Ø | K <sub>v</sub> value water | Pilot pressure<br>min. | Operating pressure max. |          |          |
|---------------------------------------|-----|-----------|-----------------|----------------------------|------------------------|-------------------------|----------|----------|
|                                       |     |           |                 |                            |                        | CF A                    |          | CF B     |
|                                       |     |           |                 |                            |                        | Seat seal               |          |          |
|                                       |     |           |                 |                            |                        | PTFE                    | PEEK     | PTFE     |
| DN                                    | NPS | DN        | [mm]            | [m³/h]                     | [bar(g)]               | [bar(g)]                | [bar(g)] | [bar(g)] |
| 10                                    | ⅜   | 10        | 32 (B)          | 2.4                        | 5.5                    | 16                      | —        | 16       |
| 10                                    | ⅜   | 15        | 32 (B)          | 2.5                        | 5.5                    | 11                      | —        | 16       |
|                                       |     |           | 50 (D)          | 2.5                        | 4.1                    | 16                      | —        | 16       |
|                                       |     |           | 70 (M)          | 2.5                        | 4.8                    | 25                      | 25       | 25       |
| 15                                    | ½   | 15        | 32 (B)          | 4.7                        | 5.5                    | 11                      | —        | 16       |
|                                       |     |           | 50 (D)          | 5.3                        | 4.1                    | 16                      | —        | 16       |
|                                       |     |           | 70 (M)          | 5.4                        | 4.8                    | 25                      | 25       | 25       |
| 20                                    | ¾   | 20        | 50 (D)          | 10                         | 4.1                    | 11                      | 8.5      | 16       |
|                                       |     |           | 70 (M)          | 11                         | 4.8                    | 25                      | 25       | 25       |
| 25                                    | 1   | 25        | 50 (D)          | 14                         | 4.1                    | 5.2                     | —        | 16       |
|                                       |     |           | 70 (M)          | 18                         | 4.8                    | 16                      | 13.5     | 25       |
|                                       |     |           | 90 (N)          | 20                         | 5                      | 25                      | 25       | 25       |
| 32                                    | 1¼  | 32        | 70 (M)          | 26                         | 4.8                    | 8.5                     | —        | 25       |
|                                       |     |           | 90 (N)          | 28                         | 5                      | 25                      | 19.5     | 25       |
|                                       |     |           | 130 (P)         | 30                         | 5                      | —                       | 25       | —        |
| 40                                    | 1½  | 40        | 70 (M)          | 35                         | 4.8                    | 6                       | —        | 25       |
|                                       |     |           | 90 (N)          | 38                         | 5                      | 16                      | 13.5     | 25       |
|                                       |     |           | 130 (P)         | 41                         | 5                      | 25                      | 25       | 25       |
| 50                                    | 2   | 50        | 90 (N)          | 55                         | 5                      | 10                      | —        | 25       |
|                                       |     |           | 130 (P)         | 60                         | 5                      | —                       | —        | —        |
| 65                                    | 2½  | 65        | 90 (N)          | 82                         | 5                      | 5                       | —        | 11       |
|                                       |     |           | 130 (P)         | 91                         | 5.6                    | —                       | 12.5     | —        |
| 80                                    | 3   | 80        | 130 (P)         | 140                        | 5.6                    | 10                      | 8        | 11       |

1.) According to pressure equipment directive 2014/68/EU for compressible fluids of group 1 (dangerous gases and vapours according to Article 4, paragraph (1), c), i), first indent)

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

| Nominal diameter<br>(port connection) |     | Seat size | Actuator size Ø | K <sub>v</sub> value water | Pilot pressure min. | Operating pressure max. |                  |                  |
|---------------------------------------|-----|-----------|-----------------|----------------------------|---------------------|-------------------------|------------------|------------------|
|                                       |     |           |                 |                            |                     | CF A                    |                  | CF B             |
|                                       |     |           |                 |                            |                     | Seat seal               |                  |                  |
| OD [mm]                               | NPS | DN        | [mm]            | [m³/h]                     | [bar(g)]            | PTFE<br>[bar(g)]        | PEEK<br>[bar(g)] | PTFE<br>[bar(g)] |
| 17.2                                  | –   | 10        | 32 (B)          | 2.4                        | 5.5                 | 16                      | –                | 16               |
| 13.5                                  |     | 15        | 32 (B)          | 2.5                        | 5.5                 | 11                      | –                | 16               |
|                                       |     |           | 50 (D)          | 2.5                        | 4.1                 | 16                      | –                | 16               |
|                                       |     |           | 70 (M)          | 2.5                        | 4.8                 | 25                      | 25               | 25               |
| 17.2                                  |     | 15        | 32 (B)          | 4.7                        | 5.5                 | 11                      | –                | 16               |
|                                       |     |           | 50 (D)          | 5.3                        | 4.1                 | 16                      | –                | 16               |
|                                       |     |           | 70 (M)          | 5.4                        | 4.8                 | 25                      | 25               | 25               |
| 21.3                                  |     | 15        | 32 (B)          | 4.7                        | 5.5                 | 11                      | –                | 16               |
|                                       |     |           | 50 (D)          | 5.3                        | 4.1                 | 16                      | –                | 16               |
|                                       |     |           | 70 (M)          | 5.4                        | 4.8                 | 25                      | 25               | 25               |
| 26.9                                  |     | 20        | 50 (D)          | 10                         | 4.1                 | 11                      | 8.5              | 16               |
|                                       |     |           | 70 (M)          | 11                         | 4.8                 | 25                      | 25               | 25               |
| 33.7                                  |     | 25        | 50 (D)          | 15                         | 4.1                 | 5.2                     | –                | 16               |
|                                       |     |           | 70 (M)          | 20                         | 4.8                 | 16                      | 13.5             | 25               |
|                                       |     |           | 90 (N)          | 21                         | 5                   | 25                      | 25               | 25               |
| 42.4                                  |     | 32        | 70 (M)          | 30                         | 4.8                 | 8.5                     | –                | 25               |
|                                       |     |           | 90 (N)          | 30                         | 5                   | 25                      | 19.5             | 25               |
|                                       |     |           | 130 (P)         | 32                         | 5                   | –                       | 25               | –                |
| 48.3                                  |     | 40        | 70 (M)          | 40                         | 4.8                 | 6                       | –                | 25               |
|                                       |     |           | 90 (N)          | 44                         | 5                   | 16                      | 13.5             | 25               |
|                                       |     |           | 130 (P)         | 47                         | 5                   | 25                      | 25               | 25               |
| 60.3                                  |     | 50        | 90 (N)          | 55                         | 5                   | 10                      | –                | 25               |
|                                       |     |           | 130 (P)         | 62                         | 5                   | –                       | –                | –                |
| 76.1                                  |     | 65        | 90 (N)          | 82                         | 5                   | 5                       | –                | 11               |
|                                       |     |           | 130 (P)         | 91                         | 5.6                 | –                       | 12.5             | –                |
| 88.9                                  |     | 80        | 130 (P)         | 140                        | 5.6                 | 10                      | 8                | 11               |

1.) According to pressure equipment directive 2014/68/EU for compressible fluids of group 1 (dangerous gases and vapours according to Article 4, paragraph (1), c), i), first indent)

## Welded connection ASME BPE, DIN 11866 series C / Clamp ASME BPE

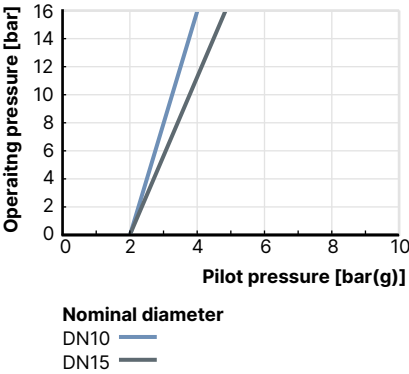
| Nominal diameter<br>(port connection) |     | Seat size | Actuator size Ø | K <sub>v</sub> value water | Pilot pressure min. | Operating pressure max. |          |          |
|---------------------------------------|-----|-----------|-----------------|----------------------------|---------------------|-------------------------|----------|----------|
|                                       |     |           |                 |                            |                     | CF A                    |          | CF B     |
|                                       |     |           |                 |                            |                     | Seat seal               |          |          |
|                                       |     |           |                 |                            |                     | PTFE                    | PEEK     | PTFE     |
| DN                                    | NPS | DN        | [mm]            | [m³/h]                     | [bar(g)]            | [bar(g)]                | [bar(g)] | [bar(g)] |
| 15                                    | ½   | 10        | 32 (B)          | 1.6                        | 5.5                 | 16                      | –        | 16       |
| 15                                    | ½   | 15        | 32 (B)          | 1.6                        | 5.5                 | 11                      | –        | 16       |
|                                       |     |           | 50 (D)          | 1.6                        | 4.1                 | 16                      | –        | 16       |
|                                       |     |           | 70 (M)          | 1.6                        | 4.8                 | 25                      | 25       | 25       |
| 20                                    | ¾   | 20        | 50 (D)          | 8.4                        | 4.1                 | 11                      | 8.5      | 16       |
|                                       |     |           | 70 (M)          | 9.4                        | 4.8                 | 25                      | 25       | 25       |
| 25                                    | 1   | 25        | 50 (D)          | 13                         | 4.1                 | 5.2                     | –        | 16       |
|                                       |     |           | 70 (M)          | 16                         | 4.8                 | 16                      | 13.5     | 25       |
|                                       |     |           | 90 (N)          | 16                         | 5                   | 25                      | 25       | 25       |
| 40                                    | 1½  | 40        | 70 (M)          | 35                         | 4.8                 | 6                       | –        | 25       |
|                                       |     |           | 90 (N)          | 38                         | 5                   | 16                      | 13.5     | 25       |
|                                       |     |           | 130 (P)         | 41                         | 5                   | 25                      | 25       | 25       |
| 50                                    | 2   | 50        | 90 (N)          | 55                         | 5                   | 10                      | –        | 25       |
|                                       |     |           | 130 (P)         | 58                         | 5                   | –                       | –        | –        |
| 65                                    | 2½  | 65        | 90 (N)          | 82                         | 5                   | 5                       | –        | 11       |
|                                       |     |           | 130 (P)         | 85                         | 5.6                 | –                       | 12.5     | –        |
| 80                                    | 3   | 65        | 90 (N)          | 82                         | 5                   | 5                       | –        | 11       |
|                                       |     |           | 130 (P)         | 91                         | 5.6                 | –                       | 12.5     | –        |
| 80                                    | 3   | 80        | 130 (P)         | 140                        | 5.6                 | 10                      | 8        | 11       |

1.) According to pressure equipment directive 2014/68/EU for compressible fluids of group 1 (dangerous gases and vapours according to Article 4, paragraph (1), c), i), first indent)

**Pilot pressure diagrams with flow direction below seat (control function B, seat seal PTFE)**

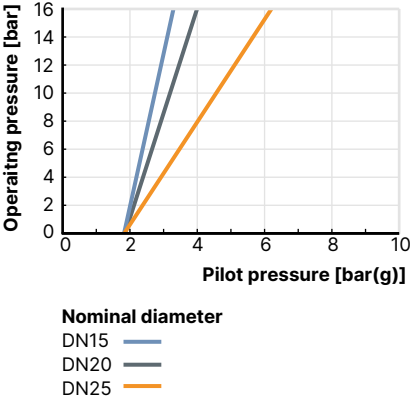
**Actuator size Ø 32 mm (B)**

Maximum control pressure 7 bar(g)



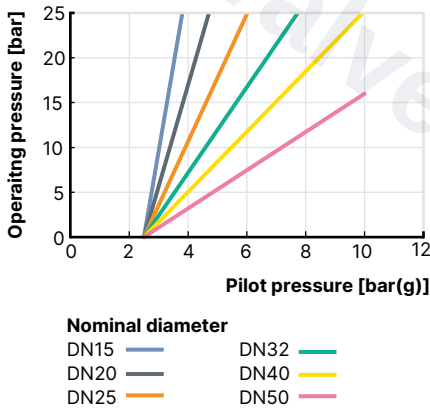
**Actuator size Ø 50 mm (D)**

Maximum control pressure 10.5 bar(g)



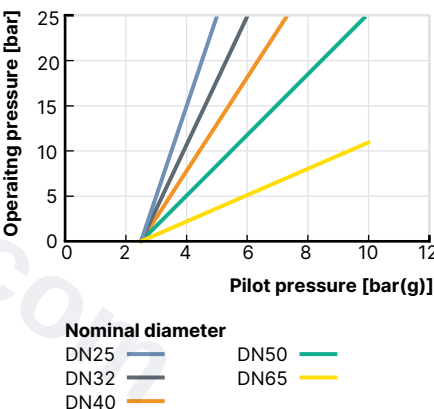
**Actuator size Ø 70 mm (M)**

Maximum control pressure 10.5 bar(g)



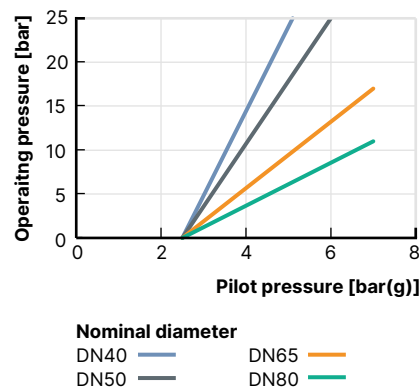
**Actuator size Ø 90 mm (N)**

Maximum control pressure 10.5 bar(g)



**Actuator size Ø 130 mm (P)**

Maximum control pressure 7.5 bar(g)



**Overview of fluidic data with flow above seat (for gases and steam)**
**Note:**

- $K_v$  value [ $\text{m}^3/\text{h}$ ]: Measured with water at + 20 °C, 1 bar(g) pressure at valve inlet and free outlet
- $K_v$  value water: see [“Overview of fluidic data for flow below seat \(for liquids, steam and gases\)” on page 13](#)
- Pressure data [bar(g)]: Overpressure to atmospheric pressure

**⚠ WARNING**

**Risk of damage due to bursting pipes and bursting equipment when the flow is above the seat.**  
**In the case of liquid mediums, water hammer can occur, causing pipes and the device to burst.**

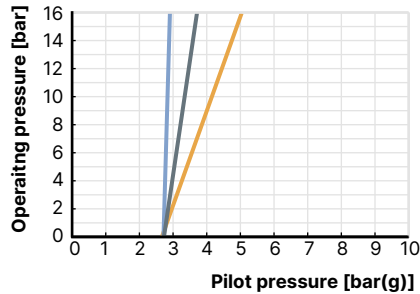
Do not use valves with flow above the seat for liquid mediums.

| Nominal diameter (port connection) |     | Actuator size Ø | Operating pressure max. + 185 °C |
|------------------------------------|-----|-----------------|----------------------------------|
|                                    |     |                 | CF A                             |
| DN                                 | NPS | [mm]            | PTFE<br>[bar(g)]                 |
| 15                                 | ½   | 50 (D)          | 16                               |
|                                    |     | 70 (M)          | 16                               |
| 20                                 | ¾   | 50 (D)          | 16                               |
|                                    |     | 70 (M)          | 16                               |
| 25                                 | 1   | 50 (D)          | 16                               |
|                                    |     | 70 (M)          | 16                               |
| 32                                 | 1¼  | 70 (M)          | 16                               |
| 40                                 | 1½  | 70 (M)          | 16                               |
|                                    |     | 90 (N)          | 16                               |
| 50                                 | 2   | 70 (M)          | 12                               |
|                                    |     | 90 (N)          | 16                               |
| 65                                 | 2½  | 90 (N)          | 8                                |

**Pilot pressure diagram with flow direction above seat (control function A)**

**Actuator size Ø 50 mm (D)**

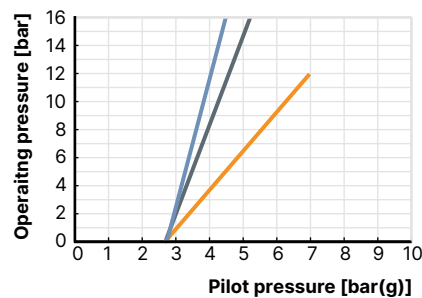
Maximum control pressure 10.5 bar(g)



**Nominal diameter**  
DN15 — DN25 —  
DN20 —

**Actuator size Ø 70 mm (M)**

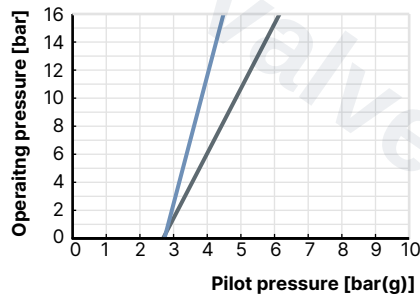
Maximum control pressure 10.5 bar(g)



**Nominal diameter**  
DN32 — DN50 —  
DN40 —

**Actuator size Ø 90 mm (N)**

Maximum control pressure 10.5 bar(g)

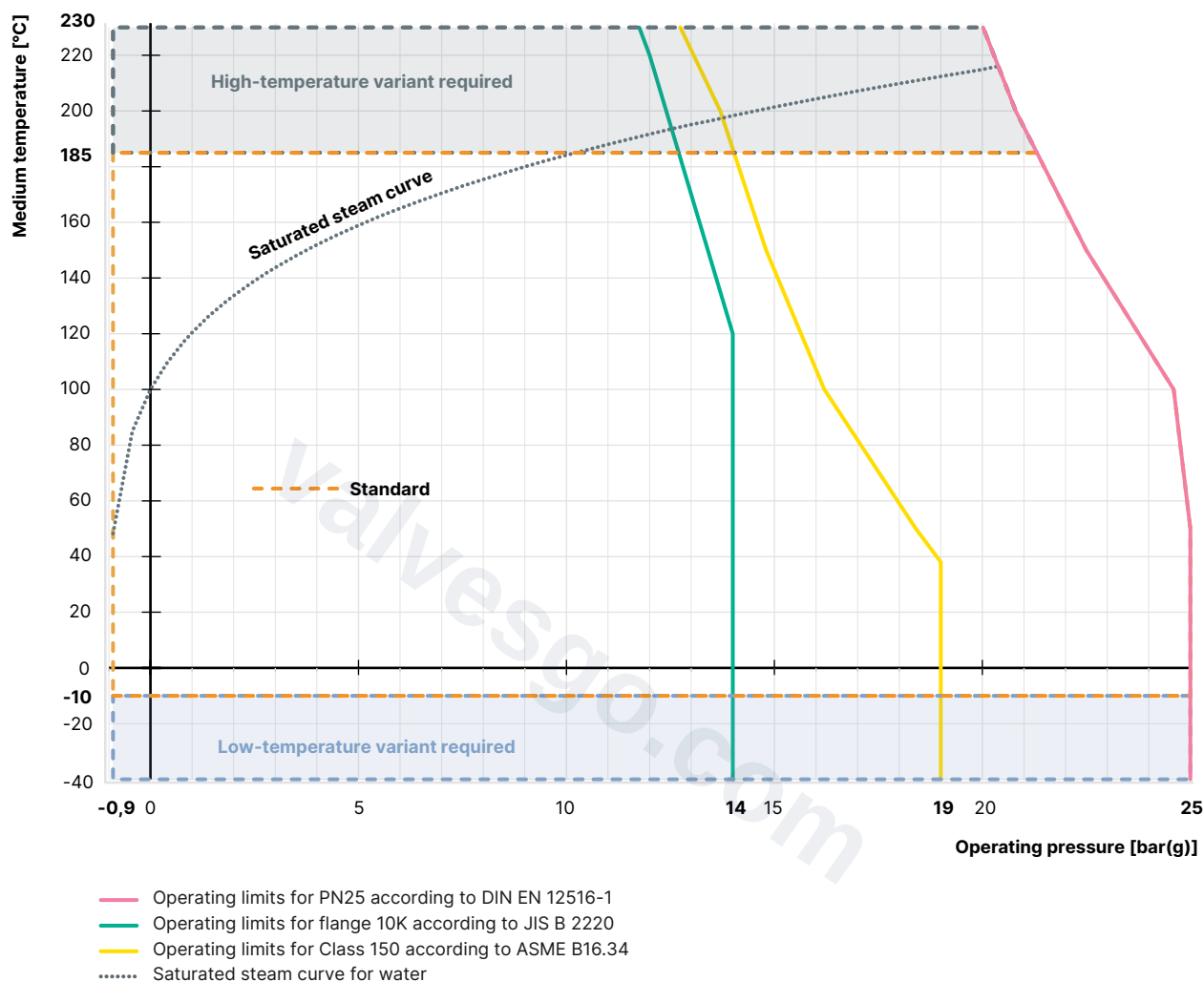


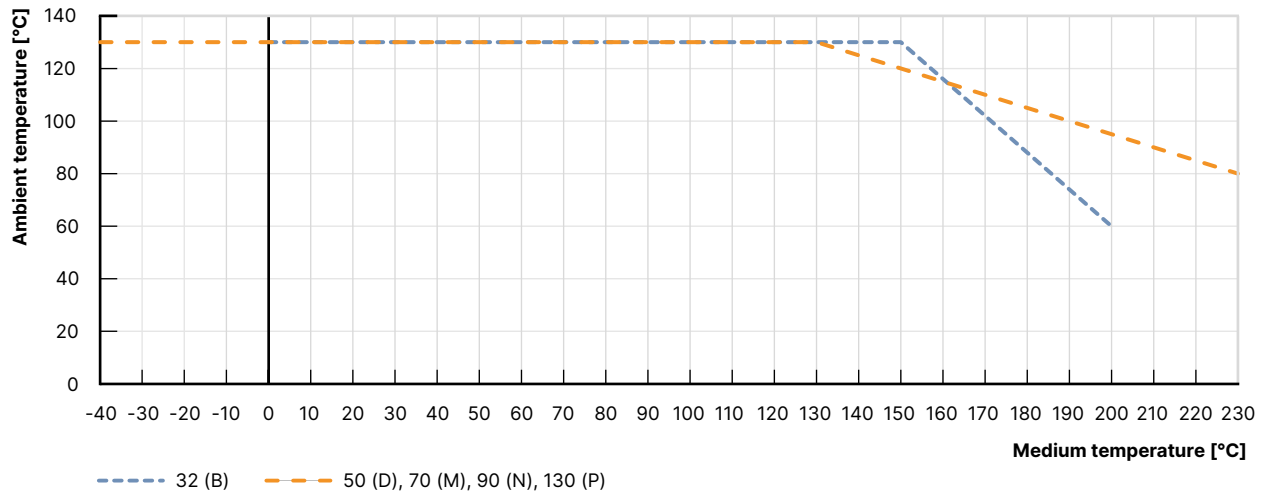
**Nominal diameter**  
DN40 —  
DN50 —

## 6.2. Operating limits

### Operating limits for medium temperature and operating pressure

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



**Operating limits for ambient and medium temperature**
**Stainless steel actuator**

**Operating limits for optional variants**
**High-temperature variant**

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

**Water variant**

For applications with water up to + 200 °C, a special configuration of the packing gland increases service life significantly. It is recommended for water temperatures starting at + 85 °C.

**Vacuum variant**

Without leakage bore, this design is suitable for pressures down to -0.9 bar(g).

**Low-temperature variant**

Suitable for minimum medium temperatures down to - 40 °C

## 7. Product accessories

### Electric position feedback indicator

#### Type 8697 ▶ Actuator size Ø 40 (C)...125 (H)



The position feedback Type 8697 is designed for integrated mounting on CLASSIC series 20XX process valves, suiting the requirements of hygienic process environments. Mechanical or inductive limit switches register the position of the valve.

#### Features

- Compact design
- LED position indicator
- Mechanical or inductive limit switches for end position registering
- Easy-to-clean clean chemically resistant housing featuring IP65/IP67, 4X Rating
- Optionally intrinsically safe variant according to IECEx

#### Customer benefits

- Easy and quick installation
- High level of signal reliability thanks to self-adjusting limit switches
- Minimised space requirement in the plant piping for more flexibility in plant design

### Adaptation for proximity switch

#### Type 2XXX ▶



Various options for the use of inductive proximity switches are available for the CLASSIC series actuators:

- Nipple
- Support bracket, 1-fold
- Support bracket, 2-fold

### Stroke limiter

#### Type 2XXX ▶



Stroke limitations can be used to limit the minimum and maximum flow rate of the valves.

Different variants are available:

- Maximum stroke limitation
- Maximum and minimum stroke limitation with optical position indicator

## 8. Networking and combination with other Bürkert products

The **angled seat valve Type 2060** can be combined with the **feedback positioner Type 8697** to form the **valve system on/off Type 8801-YV**.

### Note:

- For the configuration of further valve systems use the **Product Enquiry Form** (see **"9.3. Bürkert Product Enquiry Form"** on page 24).
- You order two components and receive a completely assembled and tested valve.

Angle seat valve



Type 2060 welded connection

Position feedback



Type 8697 ▶

Electric feedback positioner for process valves

Valve system on/off CLASSIC



Type 8801-YV ▶

on/off valve system with decentralised automation

## 9. Ordering information

### 9.1. Bürkert eShop



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

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

[Order online now](#)

### 9.2. Bürkert product filter



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

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

[Try out our product filter](#)

### 9.3. Bürkert Product Enquiry Form

#### Note:

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

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

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

[Fill out the form now](#)

#### 9.4. Ordering chart welded connection

Valve with flow direction below seat

| Control function                                           | Nominal diameter (port connection) |       | Port connection pipe Ø x wall thickness | Actuator size Ø | Pilot pressure min.                                                  | Operating pressure max. + 185 °C                                                             | Article no.                                                                                  |
|------------------------------------------------------------|------------------------------------|-------|-----------------------------------------|-----------------|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
|                                                            | DN                                 | NPS   |                                         |                 |                                                                      |                                                                                              |                                                                                              |
| DIN EN ISO 1127 / ISO 4200 / DIN 11866 series B            |                                    |       |                                         |                 |                                                                      |                                                                                              |                                                                                              |
| A (CF A)<br>see control functions <sup>1.)</sup>           | 10                                 | 3/8   | 17.2 × 1.6                              | 32 (B)          | 5.5...10                                                             | 16                                                                                           | 387585    |
|                                                            | 15                                 | 1/2   | 21.3 × 1.6                              | 32 (B)          | 5.5...10                                                             | 11                                                                                           | 387629    |
|                                                            |                                    |       |                                         | 50 (D)          | 4.1...10.5                                                           | 16                                                                                           | 285215    |
|                                                            | 20                                 | 3/4   | 26.9 × 1.6                              | 50 (D)          | 4.1...10.5                                                           | 11                                                                                           | 285217    |
|                                                            |                                    |       |                                         | 70 (M)          | 4.8...10.5                                                           | 25                                                                                           | 285218    |
|                                                            | 25                                 | 1     | 33.7 × 2.0                              | 50 (D)          | 4.1...10.5                                                           | 5.2                                                                                          | 285219    |
|                                                            |                                    |       |                                         | 70 (M)          | 4.8...10.5                                                           | 16                                                                                           | 285220    |
|                                                            | 32                                 | 1 1/4 | 42.4 × 2.0                              | 70 (M)          | 4.8...10.5                                                           | 8.5                                                                                          | 285221    |
|                                                            |                                    |       |                                         | 90 (N)          | 5.0...10.5                                                           | 25                                                                                           | 285222    |
|                                                            | 40                                 | 1 1/2 | 48.3 × 2.0                              | 70 (M)          | 4.8...10.5                                                           | 6                                                                                            | 285223    |
|                                                            |                                    |       |                                         | 90 (N)          | 5.0...10.5                                                           | 16                                                                                           | 285224    |
|                                                            | 50                                 | 2     | 60.3 × 2.0                              | 90 (N)          | 5.0...10.5                                                           | 10                                                                                           | 285515    |
|                                                            |                                    |       |                                         | 130 (P)         | 5.0...7.5                                                            | 25                                                                                           | 285705    |
|                                                            | 65                                 | 2 1/2 | 76.1 × 2.3                              | 90 (N)          | 5.0...10.5                                                           | 5                                                                                            | 285227    |
|                                                            |                                    |       |                                         | 130 (P)         | 5.6...7.5                                                            | 12                                                                                           | 285228    |
| B (CF B)<br>see control functions <sup>1.)</sup>           | 10                                 | 3/8   | 17.2 × 1.6                              | 32 (B)          | 5.5...10                                                             | 16                                                                                           | 387647    |
|                                                            | 15                                 | 1/2   | 21.3 × 1.6                              | 32 (B)          | 5.5...10                                                             | 16                                                                                           | 387651   |
|                                                            |                                    |       |                                         | 50 (D)          | See diagram for valves with Flow direction below seat <sup>2.)</sup> | 16                                                                                           | 285500  |
|                                                            | 20                                 | 3/4   | 26.9 × 1.6                              | 70 (M)          |                                                                      | 25                                                                                           | 287565  |
|                                                            |                                    |       |                                         | 50 (D)          |                                                                      | 16                                                                                           | 285501  |
|                                                            |                                    |       |                                         | 70 (M)          |                                                                      | 25                                                                                           | 287566  |
|                                                            | 25                                 | 1     | 33.7 × 2.0                              | 70 (M)          |                                                                      | 25                                                                                           | 285503  |
|                                                            |                                    |       |                                         | 70 (M)          |                                                                      | 25                                                                                           | 285504  |
|                                                            | 32                                 | 1 1/4 | 42.4 × 2.0                              | 70 (M)          |                                                                      | 25                                                                                           | 285505  |
|                                                            |                                    |       |                                         | 70 (M)          |                                                                      | 25                                                                                           | 285505  |
|                                                            | 40                                 | 1 1/2 | 48.3 × 2.0                              | 70 (M)          |                                                                      | 16                                                                                           | 287567  |
|                                                            |                                    |       |                                         | 70 (M)          |                                                                      | 11                                                                                           | 285511  |
|                                                            | 50                                 | 2     | 60.3 × 2.0                              | 70 (M)          |                                                                      | 16                                                                                           | 287567  |
|                                                            |                                    |       |                                         | 90 (N)          |                                                                      | 11                                                                                           | 285511  |
|                                                            | 65                                 | 2 1/2 | 76.1 × 2.3                              | 90 (N)          |                                                                      | 11                                                                                           | 285511  |
| 90 (N)                                                     |                                    |       |                                         | 11              |                                                                      | 285511  |                                                                                              |
| DIN 11850 - 2 / DIN 11866 series A / DIN EN 10357 series A |                                    |       |                                         |                 |                                                                      |                                                                                              |                                                                                              |
| A (CF A)<br>see control functions <sup>1.)</sup>           | 10                                 | 3/8   | 13.0 × 1.5                              | 32 (B)          | 5.5...10                                                             | 16                                                                                           | 387605  |
|                                                            | 15                                 | 1/2   | 19.0 × 1.5                              | 32 (B)          | 5.5...10                                                             | 11                                                                                           | 387596  |
|                                                            |                                    |       |                                         | 50 (D)          | 4.1...10.5                                                           | 16                                                                                           | 285201  |
|                                                            | 20                                 | 3/4   | 23.0 × 1.5                              | 50 (D)          | 4.1...10.5                                                           | 11                                                                                           | 285203  |
|                                                            |                                    |       |                                         | 70 (M)          | 4.8...10.5                                                           | 25                                                                                           | 285204  |
|                                                            | 25                                 | 1     | 29.0 × 1.5                              | 50 (D)          | 4.1...10.5                                                           | 5.2                                                                                          | 285205  |
|                                                            |                                    |       |                                         | 70 (M)          | 4.8...10.5                                                           | 16                                                                                           | 285206  |
|                                                            | 32                                 | 1 1/4 | 35.0 × 1.5                              | 70 (M)          | 4.8...10.5                                                           | 8.5                                                                                          | 285207  |
|                                                            |                                    |       |                                         | 90 (N)          | 5.0...10.5                                                           | 25                                                                                           | 285208  |
|                                                            | 40                                 | 1 1/2 | 41.0 × 1.5                              | 70 (M)          | 4.8...10.5                                                           | 6                                                                                            | 285209  |
|                                                            |                                    |       |                                         | 90 (N)          | 5.0...10.5                                                           | 16                                                                                           | 285210  |
|                                                            | 50                                 | 2     | 53.0 × 1.5                              | 90 (N)          | 5.0...10.5                                                           | 10                                                                                           | 285211  |
|                                                            |                                    |       |                                         | 130 (P)         | 5.0...7.5                                                            | 25                                                                                           | 285212  |
|                                                            | 65                                 | 2 1/2 | 70.0 × 2.0                              | 90 (N)          | 5.0...10.5                                                           | 5                                                                                            | 285213  |
|                                                            |                                    |       |                                         | 130 (P)         | 5.6...7.5                                                            | 12                                                                                           | 285214  |

| Control function                                      | Nominal diameter (port connection) |       | Port connection pipe Ø x wall thickness | Actuator size Ø | Pilot pressure min.                                                 | Operating pressure max. + 185 °C | Article no.                                                                                |
|-------------------------------------------------------|------------------------------------|-------|-----------------------------------------|-----------------|---------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------|
|                                                       | DN                                 | NPS   | [mm]                                    | [mm]            | [bar(g)]                                                            | [bar(g)]                         |                                                                                            |
| <b>B (CFB)</b><br>see control functions <sup>1)</sup> | 10                                 | 3/8   | 13.0 × 1.5                              | 32 (B)          | 5.5...10                                                            | 16                               | 387633  |
|                                                       | 15                                 | 1/2   | 19.0 × 1.5                              | 32 (B)          | 5.5...10                                                            | 16                               | 387623  |
|                                                       |                                    |       |                                         | 50 (D)          | See diagram for valves with Flow direction below seat <sup>2)</sup> | 16                               | 287555  |
|                                                       |                                    |       |                                         | 70 (M)          |                                                                     | 25                               | 287556  |
|                                                       | 20                                 | 3/4   | 23.0 × 1.5                              | 50 (D)          |                                                                     | 16                               | 287557  |
|                                                       |                                    |       |                                         | 70 (M)          |                                                                     | 25                               | 287558  |
|                                                       |                                    |       |                                         | 70 (M)          |                                                                     | 25                               | 287559  |
|                                                       | 25                                 | 1     | 29.0 × 1.5                              | 70 (M)          |                                                                     | 25                               | 287560  |
|                                                       | 32                                 | 1 1/4 | 35.0 × 1.5                              | 70 (M)          |                                                                     | 25                               | 287561  |
|                                                       | 40                                 | 1 1/2 | 41.0 × 1.5                              | 70 (M)          |                                                                     | 25                               | 287562  |
|                                                       | 50                                 | 2     | 53.0 × 1.5                              | 90 (N)          |                                                                     | 16                               | 287562  |
|                                                       | 65                                 | 2 1/2 | 70.0 × 2.0                              | 90 (N)          |                                                                     | 11                               | 287563  |

| Control function                                | Nominal diameter (port connection) |             | Port connection pipe Ø x wall thickness                                                    | Actuator size Ø | Pilot pressure min.                                                  | Operating pressure max. + 185 °C                                                           | Article no.                                                                                  |
|-------------------------------------------------|------------------------------------|-------------|--------------------------------------------------------------------------------------------|-----------------|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
|                                                 | DN                                 | NPS         |                                                                                            |                 |                                                                      |                                                                                            |                                                                                              |
| ASME BPE / DIN 11866 series C                   |                                    |             |                                                                                            |                 |                                                                      |                                                                                            |                                                                                              |
| A (CF A)<br>see control functions <sup>1)</sup> | 10                                 | ¾           | 12.7 × 1.65                                                                                | 32 (B)          | 5.5...10                                                             | 16                                                                                         | 387603    |
|                                                 | 15                                 | ½           | 12.7 × 1.65                                                                                | 32 (B)          | 5.5...10                                                             | 11                                                                                         | 387637    |
|                                                 |                                    |             |                                                                                            | 50 (D)          | 4.1...10.5                                                           | 16                                                                                         | 285189    |
|                                                 | 20                                 | ¾           | 19.05 × 1.65                                                                               | 50 (D)          | 4.1...10.5                                                           | 11                                                                                         | 285191    |
|                                                 |                                    |             |                                                                                            | 70 (M)          | 4.8...10.5                                                           | 25                                                                                         | 285192    |
|                                                 | 25                                 | 1           | 25.4 × 1.65                                                                                | 50 (D)          | 4.1...10.5                                                           | 5.2                                                                                        | 285193    |
|                                                 |                                    |             |                                                                                            | 70 (M)          | 4.8...10.5                                                           | 16                                                                                         | 285194    |
|                                                 | 40                                 | 1½          | 38.1 × 1.65                                                                                | 70 (M)          | 4.8...10.5                                                           | 6                                                                                          | 285195    |
|                                                 |                                    |             |                                                                                            | 90 (N)          | 5.0...10.5                                                           | 25                                                                                         | 285196    |
|                                                 | 50                                 | 2           | 50.8 × 1.65                                                                                | 90 (N)          | 5.0...10.5                                                           | 10                                                                                         | 285197    |
| 130 (P)                                         |                                    |             |                                                                                            | 5.0...7.5       | 25                                                                   | 285198  |                                                                                              |
| 65                                              | 2½                                 | 63.5 × 1.65 | 90 (N)                                                                                     | 5.0...10.5      | 5                                                                    | 285199  |                                                                                              |
|                                                 |                                    |             | 130 (P)                                                                                    | 5.6...7.5       | 12                                                                   | 285200  |                                                                                              |
| B (CF B)<br>see control functions <sup>1)</sup> | 10                                 | ¾           | 12.7 × 1.65                                                                                | 32 (B)          | 5.5...10                                                             | 16                                                                                         | 387650    |
|                                                 | 15                                 | ½           | 12.7 × 1.65                                                                                | 32 (B)          | 5.5...10                                                             | 16                                                                                         | o. r.                                                                                        |
|                                                 |                                    |             |                                                                                            | 50 (D)          | See diagram for valves with Flow direction below seat <sup>2.)</sup> | 16                                                                                         | 285499    |
|                                                 | 70 (M)                             | 25          | 287548  |                 |                                                                      |                                                                                            |                                                                                              |
|                                                 | 20                                 | ¾           | 19.05 × 1.65                                                                               | 50 (D)          |                                                                      | 16                                                                                         | 287549    |
|                                                 |                                    |             |                                                                                            | 70 (M)          |                                                                      | 25                                                                                         | 287550    |
|                                                 | 25                                 | 1           | 25.4 × 1.65                                                                                | 70 (M)          |                                                                      | 25                                                                                         | 287551   |
|                                                 | 40                                 | 1½          | 38.1 × 1.65                                                                                | 70 (M)          |                                                                      | 25                                                                                         | 287552  |
|                                                 | 50                                 | 2           | 50.8 × 1.65                                                                                | 70 (M)          |                                                                      | 16                                                                                         | 285509  |
|                                                 | 65                                 | 2½          | 63.5 × 1.65                                                                                | 90 (N)          |                                                                      | 11                                                                                         | 287553  |

o. r. = on request

1.) Further information can be found in chapter "2. Control functions" on page 4.

2.) See diagram in chapter "Pilot pressure diagrams with flow direction below seat (control function B, seat seal PTFE)" on page 17

## Further variants on request

|                                                                                     |                                                                                                                                              |                                                                                     |                                                                                                                 |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
|  | <b>Approval</b><br>Drinking water, explosion protection                                                                                      |  | <b>Pressure</b><br>Other variants for operating pressures up to 25 bar(g)<br>Vacuum variant down to -0.9 bar(g) |
|                                                                                     |                                                           |                                                                                     | <b>Process connection</b><br>Threaded/Clamp                                                                     |
|                                                                                     | <b>Temperature</b><br>High temperature variant up to + 230 °C<br>Hot water variant up to + 200 °C<br>Low temperature variant down to - 40 °C |                                                                                     |                                                                                                                 |

## Valves with flow direction above seat

| Control function                                           | Nominal diameter<br>(port connection) |     | Port connection pipe Ø x<br>wall thickness | Actuator size<br>Ø | Pilot pressure<br>min.                                                        | Operating pressure<br>max. +185 °C | Article no. |
|------------------------------------------------------------|---------------------------------------|-----|--------------------------------------------|--------------------|-------------------------------------------------------------------------------|------------------------------------|-------------|
|                                                            | DN                                    | NPS |                                            |                    |                                                                               |                                    |             |
| DIN EN ISO 1127 / ISO 4200 / DIN 11866 series B            |                                       |     |                                            |                    |                                                                               |                                    |             |
| A (CF A)<br>see control<br>functions <sup>1)</sup>         | 15                                    | ½   | 21.3 × 1.6                                 | 50 (D)             | See diagram for<br>valves with<br>Flow direction<br>above seat <sup>2.)</sup> | 16                                 | 287541 𐀀    |
|                                                            | 20                                    | ¾   | 26.9 × 1.6                                 | 50 (D)             |                                                                               | 16                                 | 287542 𐀀    |
|                                                            | 25                                    | 1   | 33.7 × 2.0                                 | 50 (D)             |                                                                               | 16                                 | 287543 𐀀    |
|                                                            | 32                                    | 1¼  | 42.4 × 2.0                                 | 70 (M)             |                                                                               | 16                                 | 287544 𐀀    |
|                                                            | 40                                    | 1½  | 48.3 × 2.0                                 | 70 (M)             |                                                                               | 16                                 | 287545 𐀀    |
|                                                            | 50                                    | 2   | 60.3 × 2.0                                 | 70 (M)             |                                                                               | 16                                 | 287546 𐀀    |
|                                                            |                                       |     |                                            | 90 (N)             |                                                                               | 16                                 | 287547 𐀀    |
| DIN 11850 - 2 / DIN 11866 series A / DIN EN 10357 series A |                                       |     |                                            |                    |                                                                               |                                    |             |
| A (CF A)<br>see control<br>functions <sup>1)</sup>         | 15                                    | ½   | 19.0 × 1.5                                 | 50 (D)             | See diagram for<br>valves with<br>Flow direction<br>above seat <sup>2.)</sup> | 16                                 | 287534 𐀀    |
|                                                            | 20                                    | ¾   | 23.0 × 1.5                                 | 50 (D)             |                                                                               | 16                                 | 287535 𐀀    |
|                                                            | 25                                    | 1   | 29.0 × 1.5                                 | 50 (D)             |                                                                               | 16                                 | 287536 𐀀    |
|                                                            | 32                                    | 1¼  | 35.0 × 1.5                                 | 70 (M)             |                                                                               | 16                                 | 287537 𐀀    |
|                                                            | 40                                    | 1½  | 41.0 × 1.5                                 | 70 (M)             |                                                                               | 16                                 | 287538 𐀀    |
|                                                            | 50                                    | 2   | 53.0 × 1.5                                 | 70 (M)             |                                                                               | 12                                 | 287539 𐀀    |
|                                                            |                                       |     |                                            | 90 (N)             |                                                                               | 16                                 | 287540 𐀀    |
| ASME BPE / DIN 11866 series C                              |                                       |     |                                            |                    |                                                                               |                                    |             |
| A (CF A)<br>see control<br>functions <sup>1)</sup>         | 15                                    | ½   | 12.7 × 1.65                                | 50 (D)             | See diagram for<br>valves with<br>Flow direction<br>above seat <sup>2.)</sup> | 16                                 | 287528 𐀀    |
|                                                            | 20                                    | ¾   | 19.05 × 1.65                               | 50 (D)             |                                                                               | 16                                 | 287529 𐀀    |
|                                                            | 25                                    | 1   | 25.4 × 1.65                                | 50 (D)             |                                                                               | 16                                 | 287530 𐀀    |
|                                                            | 40                                    | 1½  | 38.1 × 1.65                                | 70 (M)             |                                                                               | 16                                 | 287531 𐀀    |
|                                                            | 50                                    | 2   | 50.8 × 1.65                                | 70 (M)             |                                                                               | 12                                 | 287532 𐀀    |
|                                                            |                                       |     |                                            | 90 (N)             |                                                                               | 16                                 | 287533 𐀀    |

1.) Further information can be found in chapter "2. Control functions" on page 4.

2.) See diagram in chapter "Pilot pressure diagrams with flow direction below seat (control function B, seat seal PTFE)" on page 17

## 9.5. Ordering chart accessories

## Note:

- For further accessories see separate **data sheet Accessories Type 2XXX** ▶
- Accessories must be ordered separately

| Accessories                                                                 | For actuator size   | Article no. |
|-----------------------------------------------------------------------------|---------------------|-------------|
| Stainless steel silencer kit (stainless steel silencer including PTFE seal) | Universal           | 696931      |
| Maximum stroke limit                                                        | Ø 50 (D), Ø 70 (M)  | 699550      |
| Maximum stroke limit                                                        | Ø 90 (N), Ø 130 (P) | 699994      |
| Minimum/maximum stroke limit                                                | Ø 50 (D), Ø 70 (M)  | 699986      |
| Minimum/maximum stroke limit                                                | Ø 90 (N), Ø 130 (P) | 699998      |
| Proximity switch 1-fold                                                     | Ø 50 (D), Ø 70 (M)  | 699989      |
| Proximity switch 1-fold                                                     | Ø 90 (N), Ø 130 (P) | 699991      |
| Proximity switch 2-fold                                                     | Ø 50 (D), Ø 70 (M)  | 699990      |
| Proximity switch 2-fold                                                     | Ø 90 (N), Ø 130 (P) | 699992      |
| Adapter kit for Type 8697                                                   | Ø 50 (D), Ø 70 (M)  | 699551      |
| Adapter kit for Type 8697                                                   | Ø 90 (N), Ø 130 (P) | 580000      |
| Type 8697                                                                   | Universal           | o. r.       |
| Angled screw-in connector 45°, M5...Ø 4 mm                                  | Ø 32 (B)            | 903383      |
| Angled screw-in connector 45°, M5...Ø 6 mm                                  | Ø 32 (B)            | 771077      |

o. r. = on request